



Phase 1 Desk Study Site Investigation Report

LOCATION	Land off Scott Lane, Cleckheaton BD19 3LX
ISSUE DATE	June 2023
FOR	D & M Middleton
CLIENT REF.	
OUR REF.	G23144 Rev 1

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Executive Summary

The major conclusions of this desk-based Phase one study are summarised in the table below:

Site Suitability	Desk Study Finding	Preliminary Assessment
Normal Foundations	Bedrock expected to be present at shallow depth with possible thin drift deposits. Consideration should be made to vegetation influence if clay soils are encountered.	Likely to be suitable
Soakaways	Sandstone bedrock unlikely to offer sufficient permeability. Clay soils unlikely to offer sufficient permeability.	Potentially suitable

Potential Risks	Desk Study Finding	Preliminary Risk Assessment
Radon Gas	Between 1% and 3% of properties affected	Negligible
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low to Moderate
Hazardous Gas	Potential for hazardous gas to be generated in made ground deposits.	Low to Moderate
Ground Instability/ subsidence	Limited potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Very Low
Ground Instability/ subsidence	Limited potential for unrecorded shallow coal mining.	Very Low

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

1. Introduction

In accordance with your instruction, Geoinvestigate Ltd. has carried out a Phase 1 Desk Study Investigation of the land off Scott Lane, Cleckheaton BD19 3LX. The location of the site is shown on the Groundsure Enviro+Geo Insight report presented in Appendix 2.

The site currently comprises an area of land some 0.42 ha and is located to the South of Scott Lane. The site falls to the site, over an even gradient and is currently disused, comprising gravel and areas of hardstanding.

It is understood that it is proposed to construct a number of new commercial buildings on the site with associated parking. Previous Phase 1 and Phase 2 SI works (G19086 dated March – April 2019) were carried out at the site. Details of this are provided in section 3.5.

The purpose of the Phase 1 Desk Study investigation was to review the historical land use and geological information for the site in order to provide an assessment of the potential geotechnical/foundation problems together with a qualitative contamination and ground gas risk assessment.

2. Scope of Works

The investigation comprised a review of the following information:

- An extract from the 1:50,000 BGS geological mapping.
- Historical OS maps of various scales dating back to 1854 (presented in Appendix 1).
- Observations from a walkover study carried out by Stuart Howe of Geoinvestigate
- A GroundSure Enviro+Geo Insight Report. This is included in Appendix 2.
- A Coal Authority report included in Appendix 3.

3. Findings of Phase 1 Investigation

3.1 Anticipated Geology

The extract of the 1: 50,000 BGS geological indicates that little to no drift deposits will be present at the site with sandstone bedrock belonging to the Pennine Lower Coal Measures probably present commencing from shallow depth.

Nearby BGS borehole records generally show thin topsoil or made ground deposits over boulder clay with sandstone bedrock generally commencing from depths of between 2m and 3m.

Previous SI works at the site encountered generally made ground to depths of between 0.35m and 1.40m underlain by soft to firm and firm / loose very sandy gravelly clay / clayey gravelly sand natural strata with most of the boreholes finding rock at depths of between 1.10m and 2.20m. BH7, BH8 and BH9 encountered fill to the base of the borehole at 3.00m, 1.40m and 1.55m respectively.

3.2 Historical OS Maps and Historical Land Use

Copies of historical OS maps were obtained for the site covering the period 1854 to 2023. Historical land uses and major features located within the site boundary and externally but potentially within influencing distance are summarised in Table 1. The earliest OS map of 1854 shows the site to be developed with residential housing.

Table 1: Summary of Historical OS Map Land Use & Potential Hazard Identification

Map Feature	Location	Appears	Absent	Notes
Residential Housing	Onsite	1854	1966	Possible construction and demolition waste and possible contamination from brick, concrete, timber, asbestos and metals.
Depot	Onsite	1966		Possible contamination from on-site fuel tanks and potential source of leaking hydrocarbons.
Foundry	Onsite	1966	1994	Possible contamination of lead, arsenic, cadmium or zinc and organic pollutants such as fuels, oils or PAHs.
Foundry Mills	Immediate South	1890	1957	
Iron Works	150m West	1894	2001	
Railway	150m Southwest	1894	2001	Railways can be a source of PAH and metals contamination through soot deposition, although considered to be too distant to have caused significant hazard.

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

A review of the historical OS maps has highlighted the land uses most likely to present (or have presented) a hazard or source of potentially harmful contamination to the study area. The primary feature of interest is historical housing, depot and foundry. Foundry mills and iron works are unlikely to have had any lasting effect on the site and the railways are probably too distant to have meaningfully affected the site.

3.3 GroundSure Enviro + Geo Insight Report

The GroundSure Enviro+Geo Insight Report presented in Appendix 2 provides listings of potentially contaminative current and past land uses together with possible pathway and receptor information. It also covers other potential risks to the site including ground hazards associated with the area's natural geological setting and man-made hazards such as those arising from development activities. A summary of the relevant Report findings is presented in Table 2 below.

Table 2: GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Past land use		
Historical industrial land uses	Unspecified Foundry (1) Unspecified Mills (47) Tannery (1) Unspecified Works (15) Unspecified Commercial/Industrial (13) Unspecified Disused Mills (2) Unspecified Tank (3) Railway Sidings (8) Unspecified Heap (1) Police Station (1) Railway Building (15) Railway Station (4) Unspecified Mill (10) Railway Buildings (3) Wire Mills (1) Smithy (1) Cuttings (4) Telephone Exchange (1) Unspecified Old Mills (2) Mill Pond (7) Umber Works (1) Bus Station (1) Refuse Heap (1) Steel Works (1) Iron Works (1) Fire Engine Station (1) Goods Shed (2) Goods Station (1) Destructor (1) Cemetery (4)	On site 18m Southwest (closest) 44m East 64m Southeast (closest) 69m Southeast (closest) 72m Southeast (closest) 117m North (closest) 123m Southwest (closest) 124m Northeast 157m West 178m Southwest (closest) 203m Southwest (closest) 210m Northwest (closest) 216m Southwest (closest) 221m North 226m Northwest 238m West (closest) 249m Southwest 282m West (closest) 287m East (closest) 297m Southwest 364m South 381m West 429m East 440m North 461m Southwest 464m East (Closest) 471m East 471m Southeast 480m West (Closest)
Historical Tanks	Tanks (15) Unspecified Tank (22)	145m West (closest) 155m Northeast (closest)
Historical Energy Features	Electrical Substation (20) Gas Governor (1) Urban District Council Electricity Works and Destructor (1)	20m East (closest) 284m South 461m South
Historical garages	Garage (10)	Onsite
Landfill and Other Waste Sites		
Historical Landfill (BGS)	No risk to aquifer (1)	451m East
Historical landfill (LA/mapping records)	None	n/a
Historical landfill (EA/NRW records)	Industrial, Commercial, Environmental (5)	455m South (closest)
Historical waste sites	Waste Mill (4) Destructor (1)	433m North (closest) 471m Southeast
Licensed waste sites	None	n/a
Waste exemptions	Treating waste exemption (9)	90m Southwest (closest)
Table 2 is continued on the following page		

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Current Land uses		
Recent industrial land uses	Trade Cars Cleckheaton (1) Bubbles Hand Car Wash Northgate Saw Mills Works Bonus Furniture Ltd Electricity Sub Station Carpet Cuts Cleckheaton Mr Tyre Ltd Crane Wake Bespoke J W Asquith & Sons Printgraphica Procast Foundry Ltd Norwood Cabs & Covers Ltd Wellbeing Centres Openshaw Hearing Care Centre A & S Domestic the Washer Shop Tesco Petrol Station G M Mobiles & Tech Centre Westex Carpets Ltd Express Alloys Ltd Smartwatch Solutions Ltd Kirklees Hearing Care Centre R J Donnan Hearing Care	17m East 17m East 35m Southwest 40m Southeast (closest) 56m North 64m Northwest (closest) 72m East 108m Southeast 118m Southeast 120m South 140m South 144m Southeast 144m Southeast 153m East 153m Northwest 154m South 177m South 177m Southwest 180m South 205m North 242m South 242m South 244m South 246m South
Current or recent petrol stations	OBSOLETE TESCO	38m East 197m Southwest
Licensed industrial activities (Part A(1))	Inorganic Chemicals (2) Coating Printing and Textiles (2)	328m South (closest) 328m South (closest)
Licensed pollutant release (Part A(2)/B)	Waste Oil Burner Pet Food Manufacture Unloading of Petrol Dry Cleaning Respraying of Road Vehicles Non-ferrous Metal Foundry Processes	34m South 122m Southwest 176m Southwest 234m South 321m South 325m South
Licensed Discharges to controlled waters	TRADE DISCHARGES (1) SEWAGE DISCHARGES (3)	371m Southeast 334m North (closest)
List 2 Dangerous Substances	Chromium, Copper, Lead, Nickel, Zinc	384m West
Pollution Incidents (EA/NRW)	Atmospheric Pollutants and Effects (3) Sewage Materials Inert Materials and Wastes (3) Organic Chemicals/Products (4) Not Identified (4) Contaminated Water (2)	91m South (closest) 200m Northeast 210m East (closest) 326m Southeast (closest) 344m North (closest) 353m North
Hydrogeology - Superficial aquifer		
Superficial aquifer	Secondary A	163m Northeast
Bedrock aquifer	Secondary A	Onsite
Groundwater vulnerability	Medium (2)	Onsite (closest)
Groundwater Abstractions	Historical (10) Active (1)	912m Northwest (closest) 1542m Northwest
Surface Water Abstractions	None	n/a
Hydrology		
Water Network (OS MasterMap)	Water year round (7)	192m Northeast (closest)
WFD Surface water body catchments	River	On Site
WFD Surface water bodies	River	194m Northeast
WFD Groundwater bodies	Aire & Calder Carb Limestone/Millstone Grit/Coal Measures	Onsite
Table 2 is continued on the following page		

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Rivers and coastal flooding		
Risk of Flooding from Rivers and Sea (RoFRaS)	None	n/a
Historical Flood Events	Main river (2)	188m Northeast (closest)
Flood Zone 2	None	n/a
Flood Zone 3	None	n/a
Surface water flooding		
Surface water flooding	Highest risk on site Highest risk within 50m	Negligible Negligible
Groundwater flooding		
Groundwater flooding	Highest risk on site Highest risk within 50m	Negligible Negligible
Environmental designations		
Designated Ancient Woodland	Ancient Replanted Woodland Ancient & Semi-Natural Woodland (2)	592m East 1450m North (closest)
Green Belt	South and West Yorkshire	115m Northeast
Nitrate Vulnerable Zone	Surface Water (2)	Onsite (closest)
Visual and cultural designations		
Listed Buildings	Grade II (5)	81m North
Agricultural and Habitat designations		
Agricultural Land Classification	Urban	Onsite
Environmental Stewardship Schemes	None	n/a
Priority Habitat Inventory	Deciduous woodland (7)	94m Northeast (closest)
Open Mosaic Habitat	Previously Developed Land	209m Southwest
Geology 1:10,000 scale		
Artificial and made ground (10k)	Worked Ground (Void) (1) Made Ground (artificial deposit) (7)	179m Southwest 56m Northeast (closest)
Superficial geology (10k)	Alluvium – Gravel, sand, silt, and clay (1)	156m Northeast
Bedrock geology (10k)	Pennine Lower Coal Measures Formation – Sandstone (6) Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone (9) Clifton Rock – Sandstone (1) Falhouse Rock – Sandstone (2)	Onsite (closest) 58m North (closest) 266m South 281m Northeast
Bedrock faults and other linear features (10k)	Coal seam, inferred (6) Normal fault, inferred (5)	74m North (closest) 127m Northwest (closest)
Geology 1:50,000 scale		
Artificial and made ground (50k)	Made Ground (artificial deposit) (2)	58m Northeast (closest)
Superficial geology (50k)	Alluvium (1)	163m Northeast
Bedrock geology (50k)	Pennine Lower Coal Measures Formation – Sandstone (6) Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone (8) Clifton Rock – Sandstone (1) Falhouse Rock – Sandstone (2)	Onsite (closest) 69m North (closest) 267m South 280m Northeast (closest)
Bedrock permeability (50k)	Fracture (high to moderate)	Onsite
Bedrock faults and other linear features (50k)	Coal seam, inferred (6) Normal fault, inferred (5) Fault, inferred, displacement unknown (1)	69m North (closest) 124m Northwest (closest) 497m East
Natural ground subsidence		
Shrink swell clays	Negligible	Onsite
Running sands	Negligible	Onsite
Compressible deposits	Negligible	Onsite
Collapsible deposits	Very low	Onsite
Landslides	Very Low	Onsite
Ground dissolution of soluble rocks	Negligible	Onsite
Table 2 is continued on the following page		

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Details	Feature	Location relative to site
Mining, ground workings and natural cavities		
BritPits	None	n/a
Surface ground workings	Unspecified Heap (4) Cuttings (9)	124m Northeast (closest) 238m West (closest)
Underground workings	Unspecified Old Shafts (6) Colliery (2)	625m East (closest) 643m North (closest)
Non-coal mining	Iron Ore (Bedded) (10)	267m South (closest)
JPB mining areas	None	n/a
Coal mining	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.	Onsite
Radon Risk		
Radon Risk	Between 1%-3% No protection required	Onsite
Soil chemistry		
Mostly near normal levels recorded though slightly elevated arsenic might be expected.		
Railway infrastructure and projects		
Historical railway and tunnel features	Railway Sidings (28)	123m Southwest (closest)
Historical Railways	Abandoned (1)	206m Southwest
Railways	None	n/a

NB Arbitrary potential hazard assessment: potentially significant (yellow), or unlikely to be significant (uncoloured). Potential receptors for contamination are highlighted blue.

The GeoInsight report has highlighted no additional potential risks to the site or the intended development arising due to historical or current land uses and the site's geological setting beyond those already discussed save for perhaps the records of historical houses, depot and foundry on site. Additionally, the nearby foundry mills and iron works have been highlighted as a possible receptor.

3.4 Coal Authority Report Summary

The Coal Authority (CA) report (see Appendix 3) states that:

- The site is not in an area where underground coal mining has occurred.
- The coal authority believes that there are no probable unrecorded shallow workings.
- There are no known coal mine entries within the boundary of the property.
- There has been no damage notice or claim for any property within 50m of the site and no records of mine gas, subsidence or remedial works are recorded for the site.
- There has been no unlicensed opencast mining.

3.5 Review of previous SI works – 2019.

Geoinvestigate have undertaken previous SI works at the site ref G19086 dated March – April 2019. The SI works were carried out pre demolition of the structures to the north of the site. In conclusion, the report found that footings would need to be installed on rock, present between depths of 1.10m and 2.00m and would not have to mitigate against any risk of shallow coal mine-workings. With regard to contamination, levels returned were acceptable for the then Residential Development – but only through the planned minimal exposure given the planned isolated areas of greenspace. Ground gas risk was deemed to be in line with Green or CS1 Characterisation.

3.6 Walkover Survey Observations

A site reconnaissance visit was undertaken on the 24th April 2023 by Anthony Montgomery of Geoinvestigate.

The site currently comprises an area of land some 0.42 ha and is located to the South of Scott Lane. The site falls to the east and is currently disused. It is possible that the site has recently been cleared based on the lightly undulating site surface, probably associated with demolition and tree removal works.

The remainder of the site consist of topsoil and areas of hardstanding, with demolition wate noted across the site. A spoil heap is noted in the southeast portion of the site mainly comprising brick and concrete.

The inspection of the surface of the site found no obvious evidence of physical hazards or odours, staining, or residues that might be indicative of the presence of chemical (including hydrocarbon) contamination. On the basis of the walkover inspection only, the risk of a serious contamination hazard occurring at this site would be assessed to be low given the current condition of the site and use. The hazardous gas risk at the site, based solely on the findings of the walkover survey, would be assessed to be moderate given the historical land use of the site. The evidence of minor groundworks indicates that significant made ground may be present.

It is noted however, that any planning application is likely to require confirmation that no contamination is likely to have occurred. Photographs taken during the walkover survey are presented below and on the following page:

Photograph 1: Looking northwest



Photograph 2: Looking west



Photograph 3: Looking northwest**Photograph 4:** Looking south**Photograph 5:** Looking south**Photograph 6:** Looking south

4. Qualitative Risk Assessment

4.1 Method

In order to assess the potential risks to the site, information obtained on the potential sources of hazard identified in Section 3 have been reviewed and applied to a model of the site. This allows an assessment of the potential sources of contamination to be made by examining the potential pollutant linkages between these and the receptors at the site.

The risk assessment presented comprises a source-pathway-receptor model developed in the context of the intended end use of the site (Commercial use).

It is noted that an alternative land use would present different pollutant linkages with more or less vulnerable receptors and differing pathways for exposure. Were the intended land use to be changed at the site, a revised risk assessment would be required.

Identified potential sources of hazard or contamination, vulnerable receptors, and possible pathways by which they may be exposed are presented in the Conceptual Ground Hazard Model (CGHM) presented in Figure 1, see Section 4.2.

In addition to risks to human health and controlled waters and aquifers posed by contamination and ground gas, the CGHM examines the potential risks to the construction of the development including its buildings from geological or geotechnical hazards.

It allows an overall assessment to be made of the potential hazards and risks to the site and the proposed development with respect to “fitness for purpose”. Bedrock geology which is anticipated to underlie the site is assumed to exhibit high to moderate permeability and only limited superficial geology is expected.

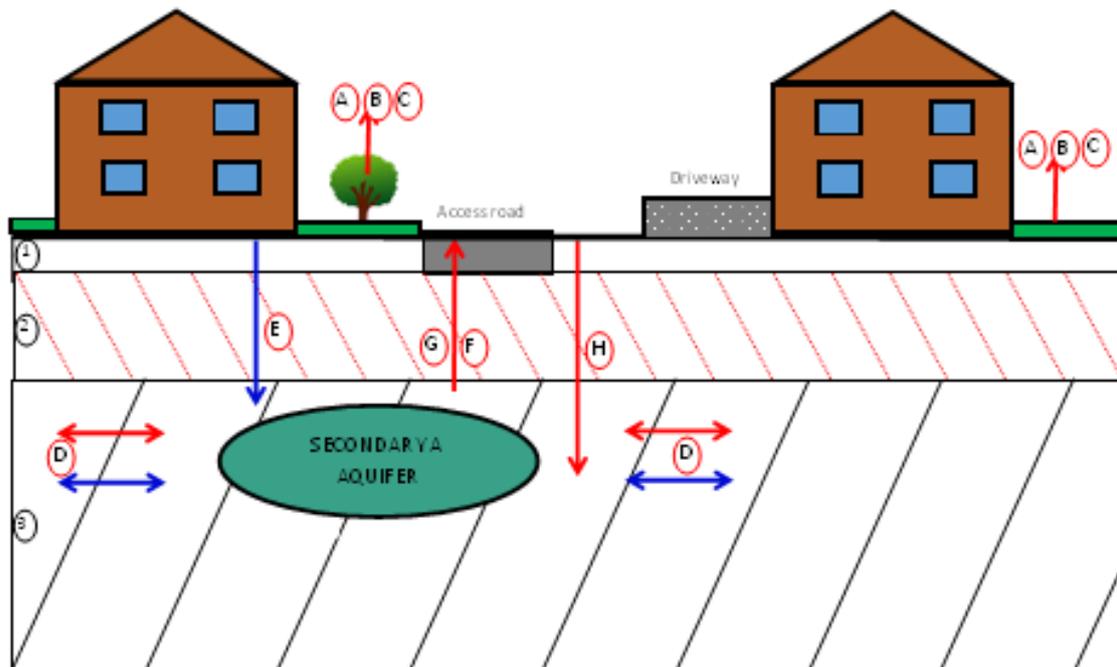
4.2 Risk Assessment

The desk study has highlighted the presence of possible sources of contamination which could potentially affect (or have affected) the site, primarily comprising the historical houses, depot and foundry on site.

Contamination from external sources would require a favourable pathway for migration into the site and the majority of external sources of contamination are likely to be too distant or minor to pose any significant risk. The BGS extract does not record any superficial deposits so near-surface permeability is unknown.

Potential receptors at the site would include the end users of the site (commercial), workers employed in the construction of the new development, the buildings themselves and their services, plants and vegetation, neighbouring sites (and their users/occupants), nearby surface water and ground water at depth. A representation of the potential hazards and pollutant linkages is shown in Figure 1 overleaf.

Figure 1 – Conceptual Ground Hazard Model of site including a Source, Pathway and Receptor Model



- (1) POSSIBLE MADE GROUND AND TURF
 (2) SUPERFICIAL GEOLOGY — NONE RECORDED BY BGS, LIKELY THIN DRIFT
 (3) BEDROCK GEOLOGY — LOWER COAL MEASURES — SANDSTONE DIRECTLY BELOW SITE

IDENTIFIED HAZARDS Including Potential CONTAMINATION SOURCES

- Construction and demolition of existing buildings on site
- Contamination from traffic on nearby Scott Lane and Northgate
- Potential presence of contamination from depot and foundry on site.
- Potential hazardous gases sourced from made ground on site.

IDENTIFIED RECEPTORS and ASSOCIATED PATHWAY

- A — End Users through Direct Contact / Inhalation / Ingestion. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.
- B — Plants and Trees through uptake, possible given the intended use of the site.
- C — Neighbouring Sites through lateral migration (in soil and water, including surface water run off).
- D — Ground water through leaching of sub-soil.
- E — Buildings and services through direct contact. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.
- F — End users and buildings through ground gas migration. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.
- G — Ground surface instability due to the presence of unrecorded, underground, coal and non-coal mine workings beneath the site.

The CGHM and the summary table below (Table 3) present the most likely potential sources of contamination, gas or geotechnical risk that are considered to be possible either within or near to the study site.

The identified potential contamination sources could feasibly have given rise to harmful and potentially mobile contamination of made ground and/or natural deposits which might underlie the site. No superficial geology is recorded for the site and there are no nearby borehole records, meaning permeability is unknown.

Note that, due to the potentially contaminative historical land uses / features that have been identified within the study site boundary (historical houses, depot and foundry), the risk *to* external sites or ground/surface waters through contamination migration *from* the study site is currently expected to be more significant/likely than any risks posed *to* the study site from external sources.

Although the findings of the initial investigation suggested that the exceedances of the contamination criteria (principally PAHs and lead) were able to be mitigated by the absence of a viable pathway, further assessment is required, due to the introduction / placement of new 'fill' from the demolition of the structures still standing at the time of the 2019 investigation.

Therefore, assuming the worst-case scenario, the potential for harmful contamination to exist at the site from historical sources is assessed to be Moderate (as opposed to very low or negligible) owing to the potentially contaminative activities located near to and/or within the study area (primarily concerning the historical houses, depot and foundry).

Notwithstanding the initial SI works (G19086) finding a low gassing regime, it is considered that the presence of demolition fill at the site (from the buildings demolished post the 2019 SI works) has the potential to have deposited made ground of significant thickness to be a hazardous gas risk, not quantified at the site to date. Therefore, the hazardous gas risk is assessed to be Moderate due to the potential for significant (>1.0m deep) made/infilled ground to be present.

The actual current level of risk to the development and its users can only be ascertained for certain through confirmation of the ground conditions by a Phase 2 intrusive investigation, including a contamination survey, and potentially a gas monitoring survey.

Table 3: Summary of Conceptual Ground Hazard Model

Potential Source	Nature of Hazard	Associated Contaminants	Pathway	Receptor	Preliminary Risk Rating
Historical land use and development. Possible made ground. Historical houses Depot Foundry	Inorganic and organic chemical contaminants within soil.	-Trace metals -PAHs -Petroleum hydrocarbons -Asbestos	-Direct human contact -Ingestion of soil -Ingestion of dust -Inhalation of vapour -Leaching into ground or surface waters -Overground migration to external sites (soil and water)	-Site Operatives -End Users -Vegetation -Controlled waters -Structures and services -Neighbouring sites/users	Moderate
Possible made ground	Hazardous ground gas migration.	Landfill-type gases (CO ₂ , CH ₄ etc.)	-Inhalation -Explosion risk	-Site Operatives -End Users -Structures	Moderate
Local Geology	Radon gas migration	Radon gas	-Inhalation	-End Users	Very Low
Shallow coal mine workings	Ground instability via risk of settlement / collapse	N/A	Direct	-End Users -Structures	Very Low
Shrink-swell clays	Ground instability vegetation influence / heave	N/A	Direct	-End Users -Structures	Very Low
Infilled ground	Ground instability via risk of settlement	N/A	Direct	-End Users -Structures	Very Low

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

5. Conclusions

A summary of the anticipated ground conditions, risks and implications based on the findings of Sections 3 and 4 of this report is presented in Table 4 below:

Although the findings of the previous Phase 2 SI works (G19086) found generally acceptable contamination levels, it is noted that, in addition to circa four years elapsing since the investigation, several buildings have been demolished and the resultant fill distributed around the site. Notwithstanding this, there is considered to be an, as yet unquantified, risk at the site from the more recent demolition fill and potentially an increased ground gas risk from the placement of the fill. Furthermore, the LPA had some, as yet unresolved, comments / queries with regard to the elevated contamination levels at the site, which would need resolving, with the aid of further contamination testing prior to receiving planning permission.

Table 4: Summary of Phase 1 Desk Study Findings

Concern	Desk Study Finding	Initial Risk Assessment	Potentially Useful Action in a Phase 2 Site Investigation
Normal Foundations	Bedrock expected to be present at shallow depth with possible thin drift deposits. Consideration should be made to vegetation influence if clay soils are encountered.	Likely to be suitable	Borehole investigation to confirm strength of ground regarding supporting building loads. Soil analysis might also be included to establish risk with regard to shrink-swell clay to rule out vegetation influence or assess strength of any potentially weaker soils.
Soakaways	Sandstone bedrock unlikely to offer sufficient permeability. Clay soils unlikely to offer sufficient permeability.	Potentially suitable	Water infiltration testing to quantify permeability of superficial deposits if granular strata are encountered.
Radon Gas	Between 1% and 3% of properties affected	Very Low	None. No radon protection required.
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low to Moderate	Chemical analysis for potential contaminants in soil samples (and potentially leachate). Samples should be recovered from made ground (if found) and topsoil, and also potentially underlying natural sub soils to check for potential leaching and/or migration into the site from possible external sources.
Hazardous Gas	Potential for hazardous gas to be generated in made ground deposits.	Low to Moderate	Ground gas monitoring wells in shallow boreholes to monitor CO ₂ , CH ₄ content etc.
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Very Low	Borehole investigation to confirm strength of both natural and made ground and shrinkage potential of any cohesive soils.
	Potential for significant deposits of compressible made/infilled ground.	Moderate	
	Limited potential for unrecorded shallow coal mining.	Very Low	n/a

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

The initial risk assessment provided above is tentative as it is based on both the Phase 1 desk study and results of the SI works in 2019. The risks will need to be reassessed to confirm the initial encouraging conditions at the site (in 2019) and that the demolition fill has not significantly affected the site or increased the contamination risk. Hence the requirement for additional SI works limited gas survey.

6. Recommendations

To confirm previous planning at the site had unresolved queries from the LPA, with regard to contamination and this, in combination with the presence of more recent (than the 2019 SI works) demolition fill at the site would mean that additional contamination testing and reporting would be required at the site.

The Additional Intrusive investigation should be designed to focus on the potential contaminants highlighted in the CGHM (Figure 1 and Table 4). As there is a potential new hazardous gas risk (associated with the more recent made ground), a limited gas survey is also deemed necessary.

Table 5: Proposed Phase 2 Site Investigation Specification

Action	Quantities	Justification/Details
Window Sampling Boreholes	Up to 6 boreholes. (up to 3m in depth – if achievable)	Establish actual ground conditions and confirm strength of ground. Retrieve samples of possibly made ground and natural soils for geotechnical testing and contamination analysis. Potentially recover ground water samples if encountered. Installation of ground gas monitoring wells (if appropriate).
Machine excavated trial pits	Up to 6 (up to 1m in depth – if achievable)	Further inspect condition and composition of soils and recover additional samples for contamination analyses, including in locations which may be difficult for plant to access.
Chemical Contamination Analysis of Soils and Leachate (and possibly ground water if pertinent)	Up to 6 No. samples from topsoil and/or made ground at shallow depth (<1m) and potentially also deeper natural strata or made ground (if encountered).	Quantify risk posed to receptors identified in CGHM (see Figure 1) for revised risk assessment. Determinands should include a range of metals/metalloids, speciated PAH content, petroleum hydrocarbon content, BTEX, asbestos presence, and soil organic matter content (to aid in revised risk assessment).
Gas monitoring	Up to 6 No. visits over 3 months. Preferably including occasions of <1000mb and after sharp drop (may only be required in made ground encountered at site).	Quantify risk posed by potential hazardous gas from made/in-filled ground. Possible analysis of Total Organic Carbon (TOC) to support gas measure recommendations (or in the absence of gas monitoring data) using guidance published in CL:AIRE research bulletin RB17.
Geotechnical Testing	N/A	No further assessment required – additional works already completed.
Provision of Factual and Interpretive Report	N/A	Presentation of findings and implications including: <ul style="list-style-type: none"> • Site plan • Borehole and trial pit logs • Results of geotechnical testing • Contamination analysis results • Results of water infiltration testing • Ground gas measurements (if appropriate) • Revised CGHM and chemical contamination risk assessment including appropriate soil assessment criteria. • Advice regarding any necessary remediation/validation • Advice regarding foundation design etc.

It should be noted that the scope, extent and cost of the Phase 2 work may increase if extensive ground contamination, or extensive amounts of made ground or drift deposits were found to exist at the site and/or the Local Authority, Coal Authority or the Environment Agency require additional information.

END OF REPORT



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Stokesley
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TS9 7AE

Tel. 01642 713779

Fax 01642713923

Email enquiries@geoinvestigate.co.uk

APPENDIX 1
HISTORICAL MAP RECORD

Site Details:

87, NORTHGATE,
CLECKHEATON, BD19 3LX

Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series Town Plan

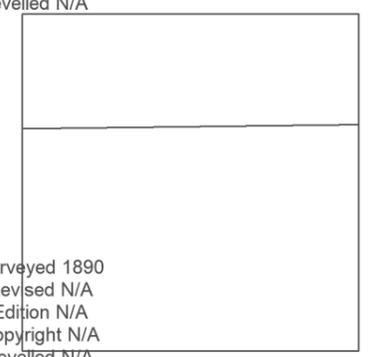
Map date: 1890

Scale: 1:500

Printed at: 1:1,000



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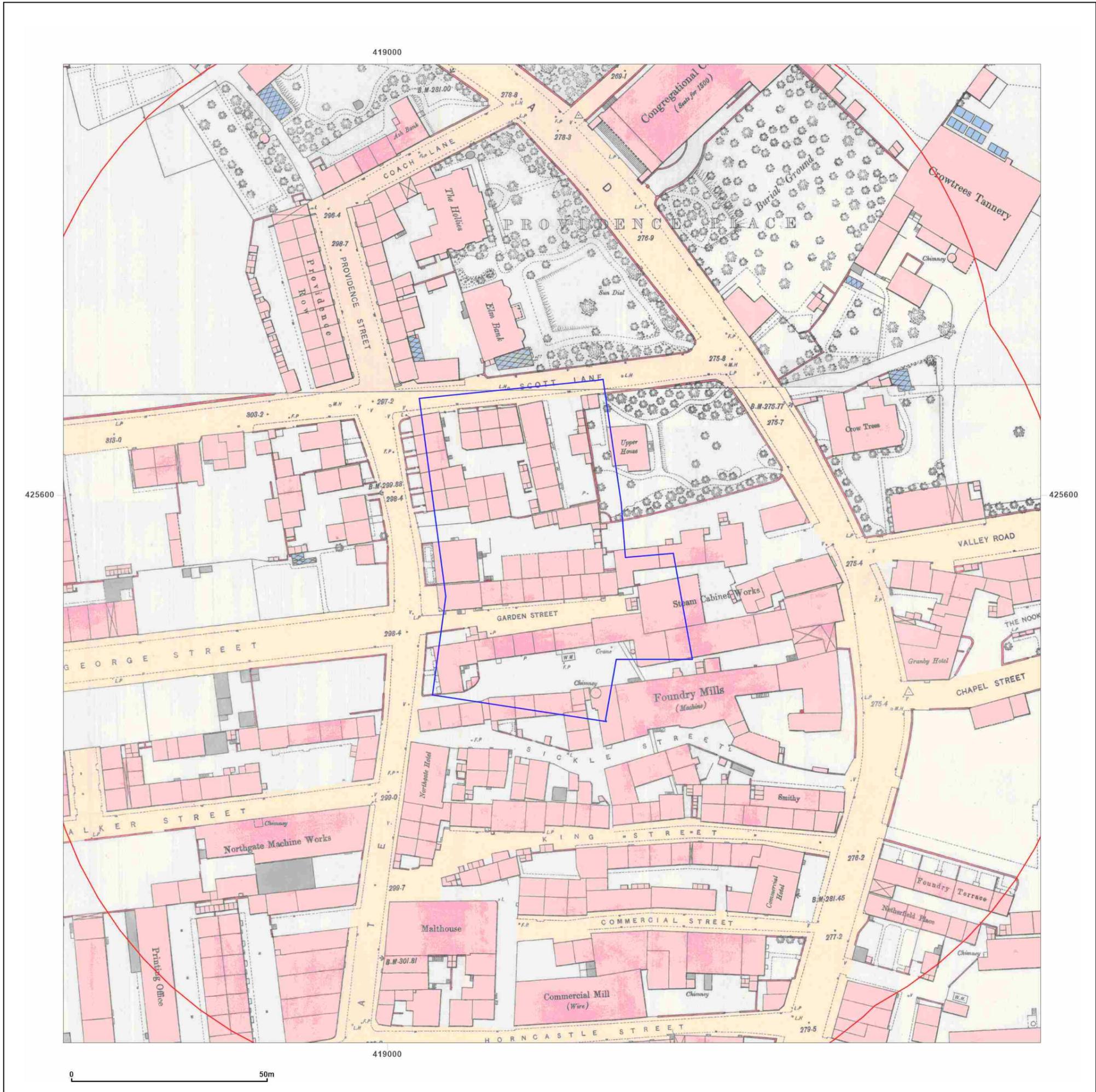


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Site Details:
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 CLECKHEATON, BD19 3LX

Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

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



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 Edition N/A
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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

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



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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

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



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 Revised 1922
 Edition N/A
 Copyright N/A
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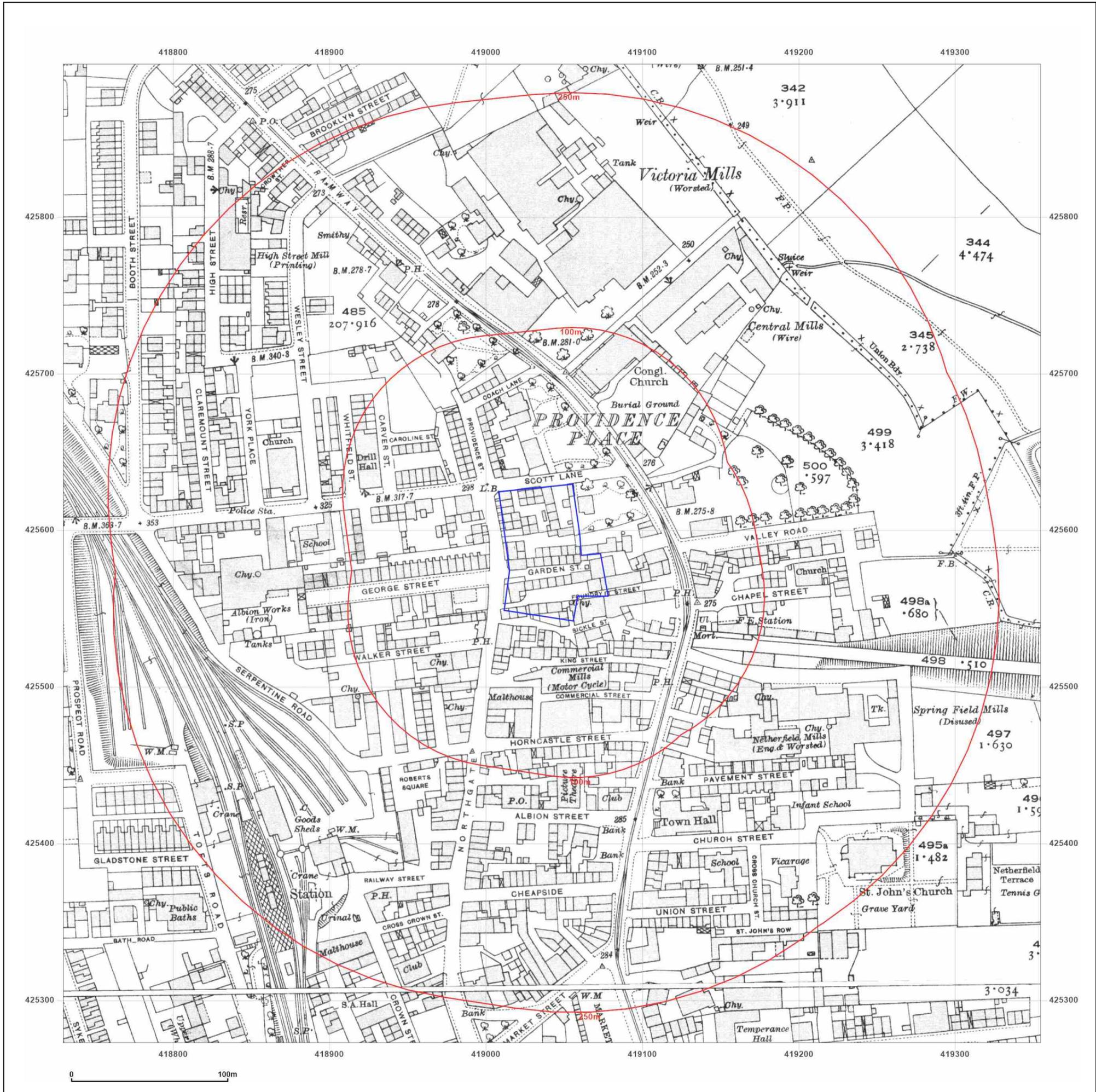


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1933

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

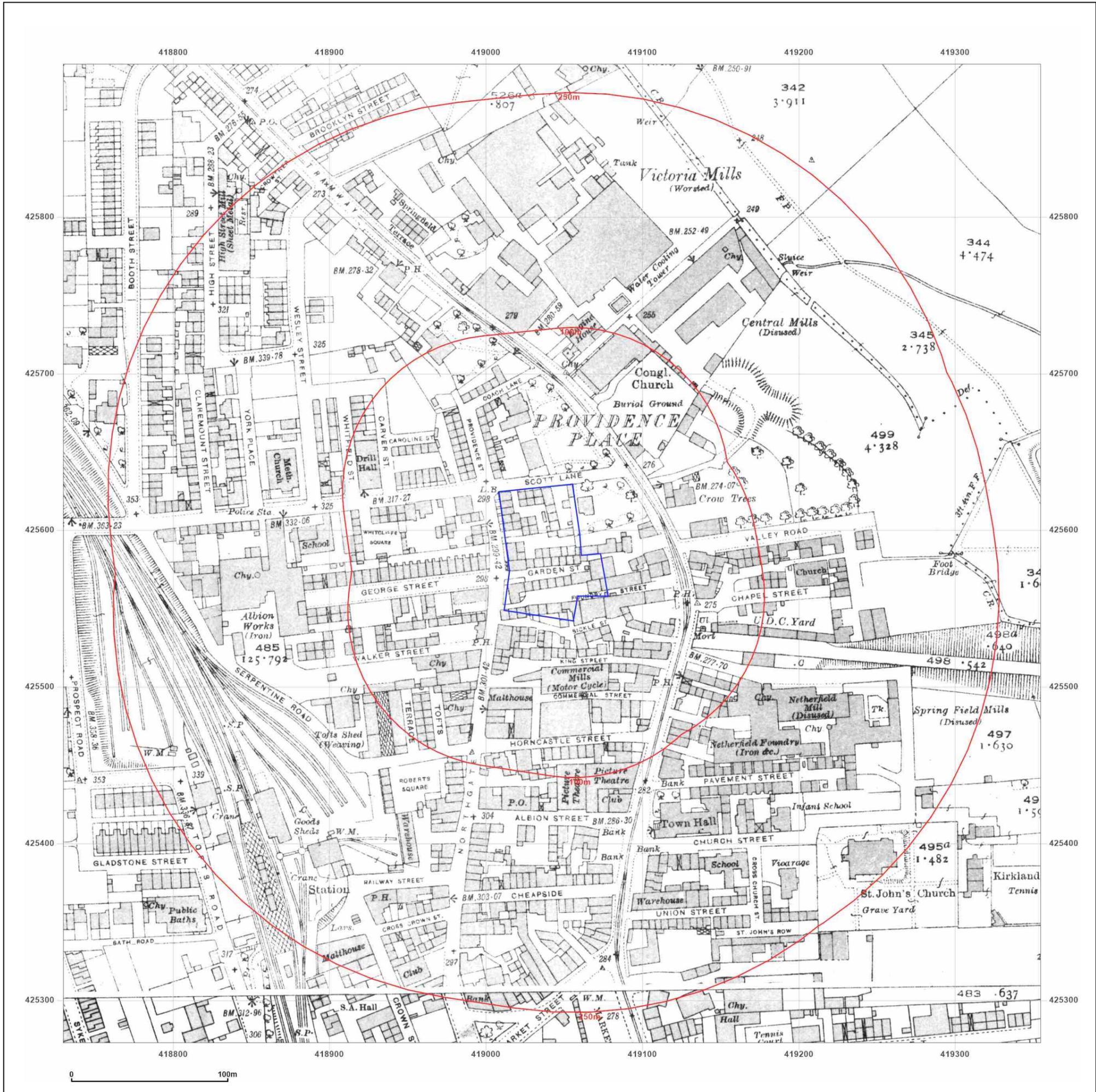


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

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



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 Revised 1938
 Edition N/A
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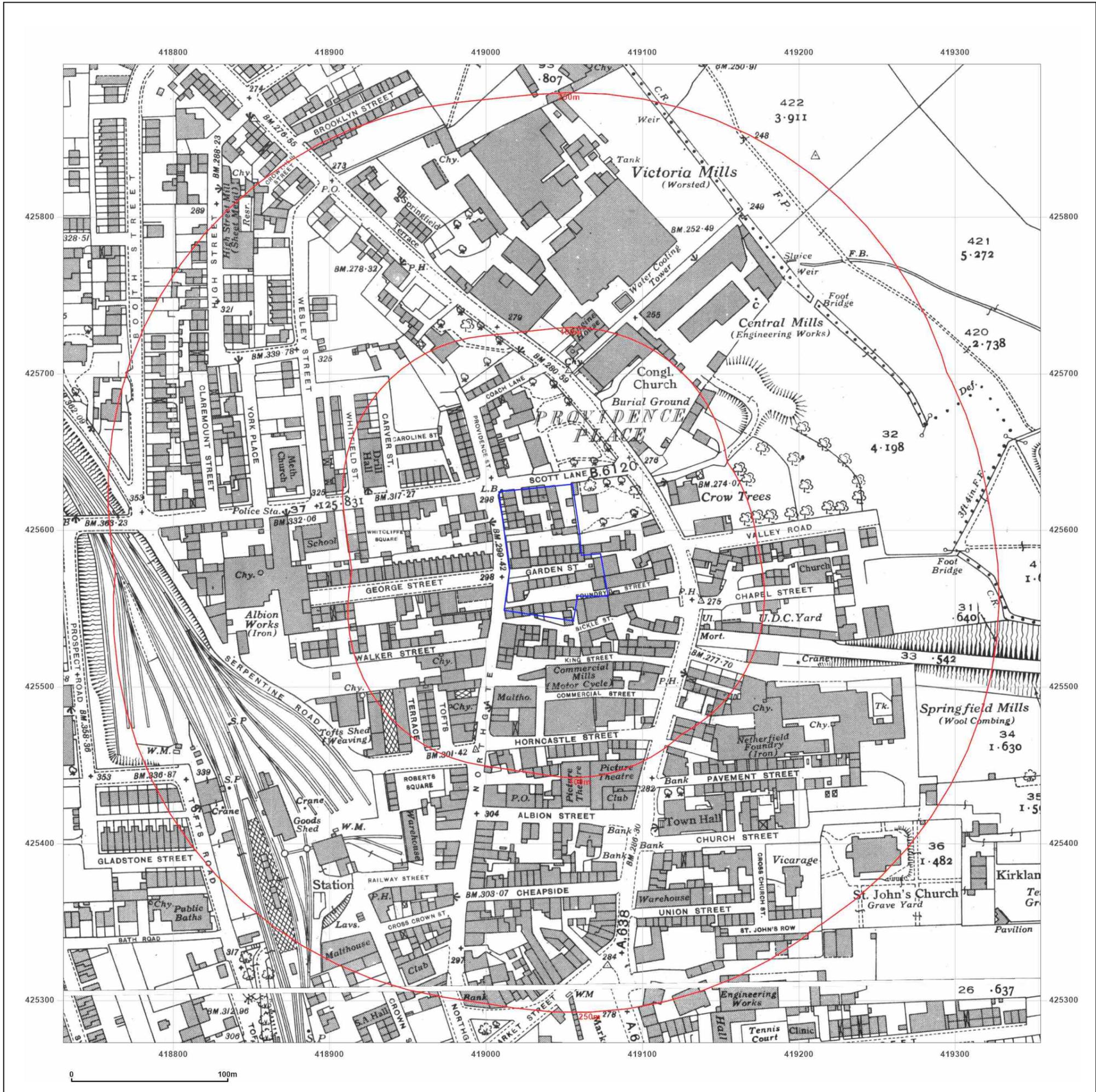


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Site Details:

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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1956-1957

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1957 Revised 1957 Edition N/A Copyright N/A Levelled 1931	Surveyed 1956 Revised 1956 Edition N/A Copyright N/A Levelled 1931

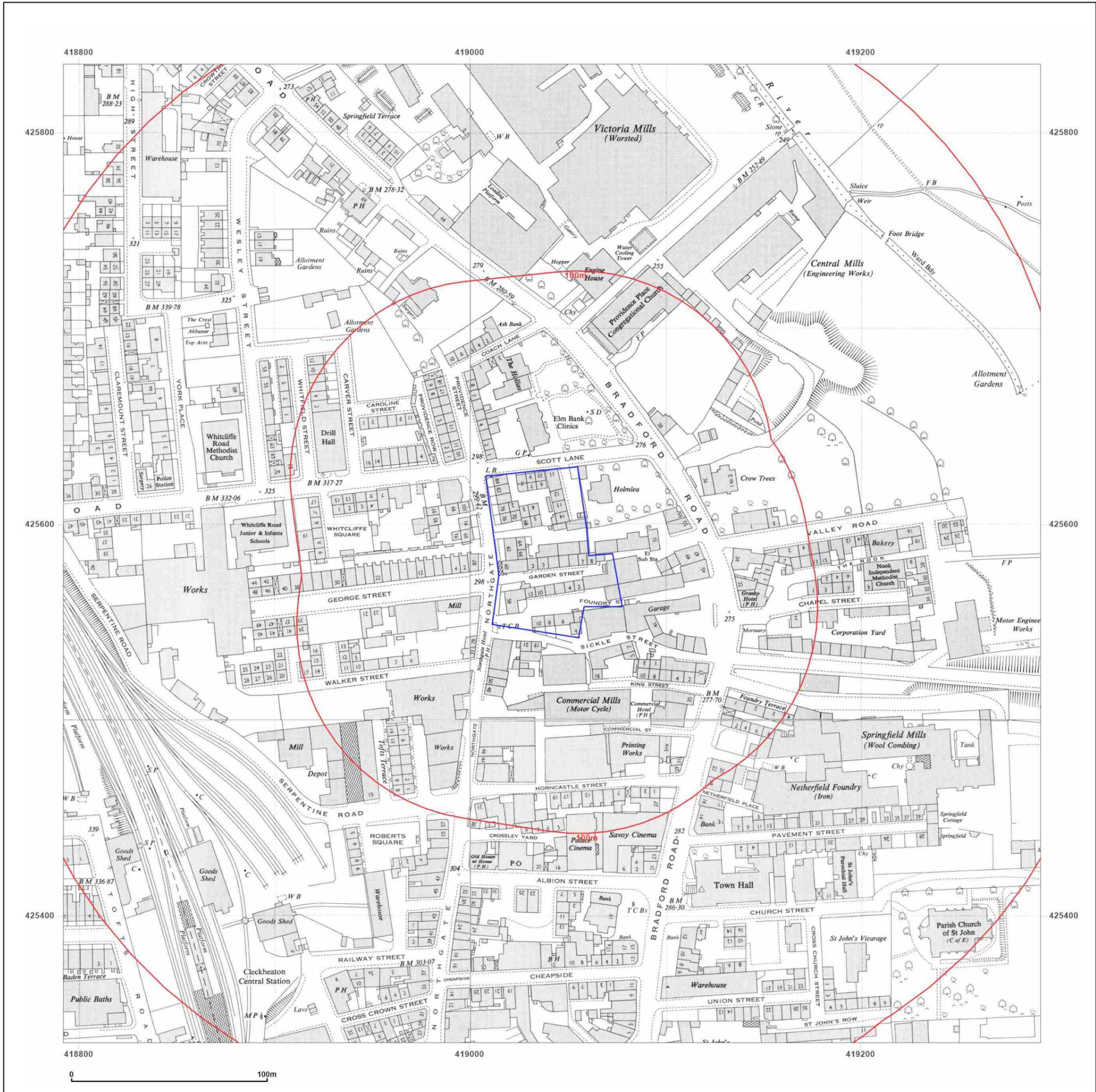


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Site Details:

87, NORTHGATE,
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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1957-1958

Scale: 1:1,250

Printed at: 1:2,000



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

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



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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1957-1958

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1956
Revised 1956
Edition N/A
Copyright 1957
Levelled 1931

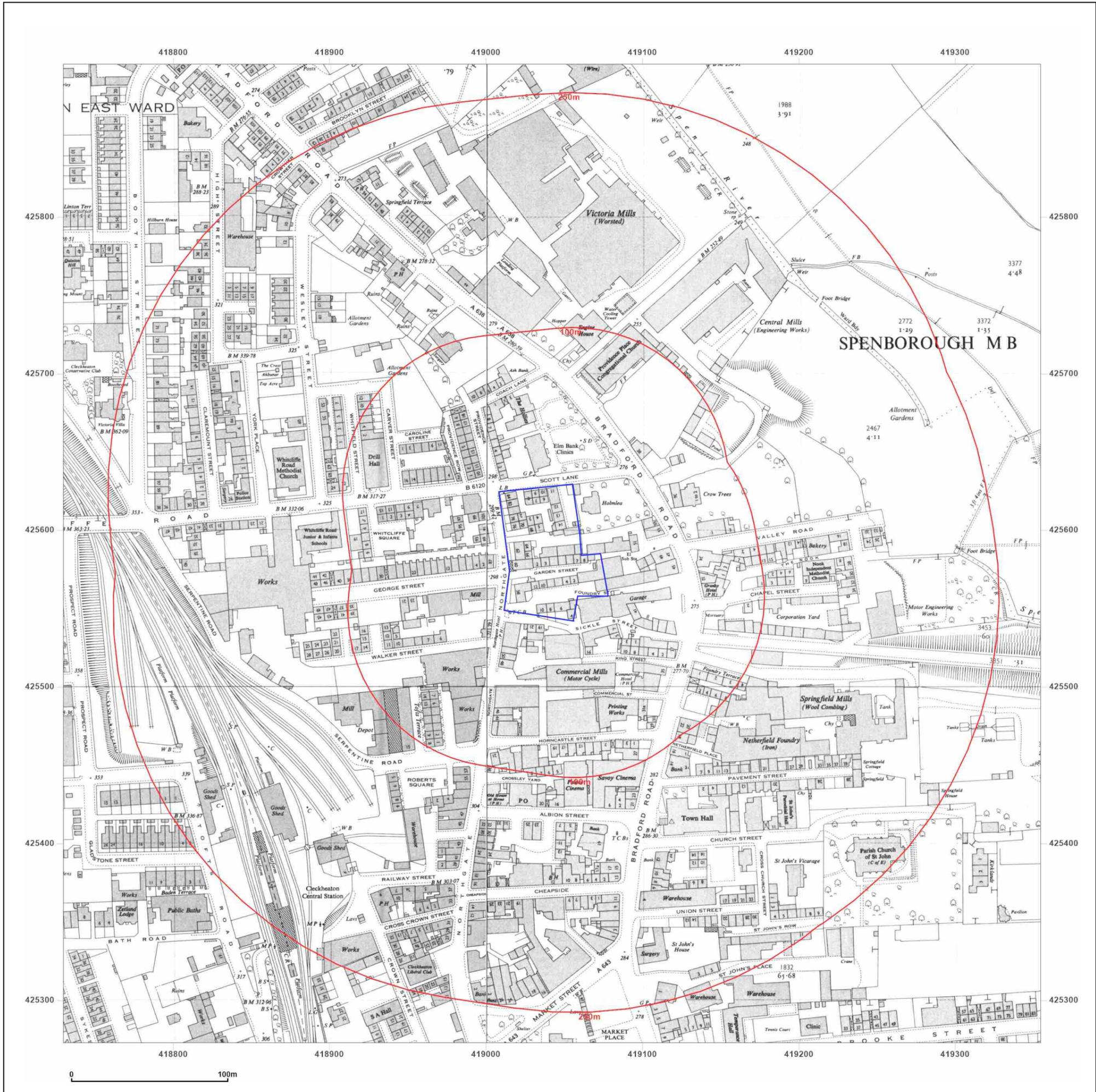


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1965-1966

Scale: 1:1,250

Printed at: 1:2,000



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Levelled 1962



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Revised 1965
Edition N/A
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Levelled 1962

Surveyed 1956
Revised 1965
Edition N/A
Copyright 1965
Levelled 1962

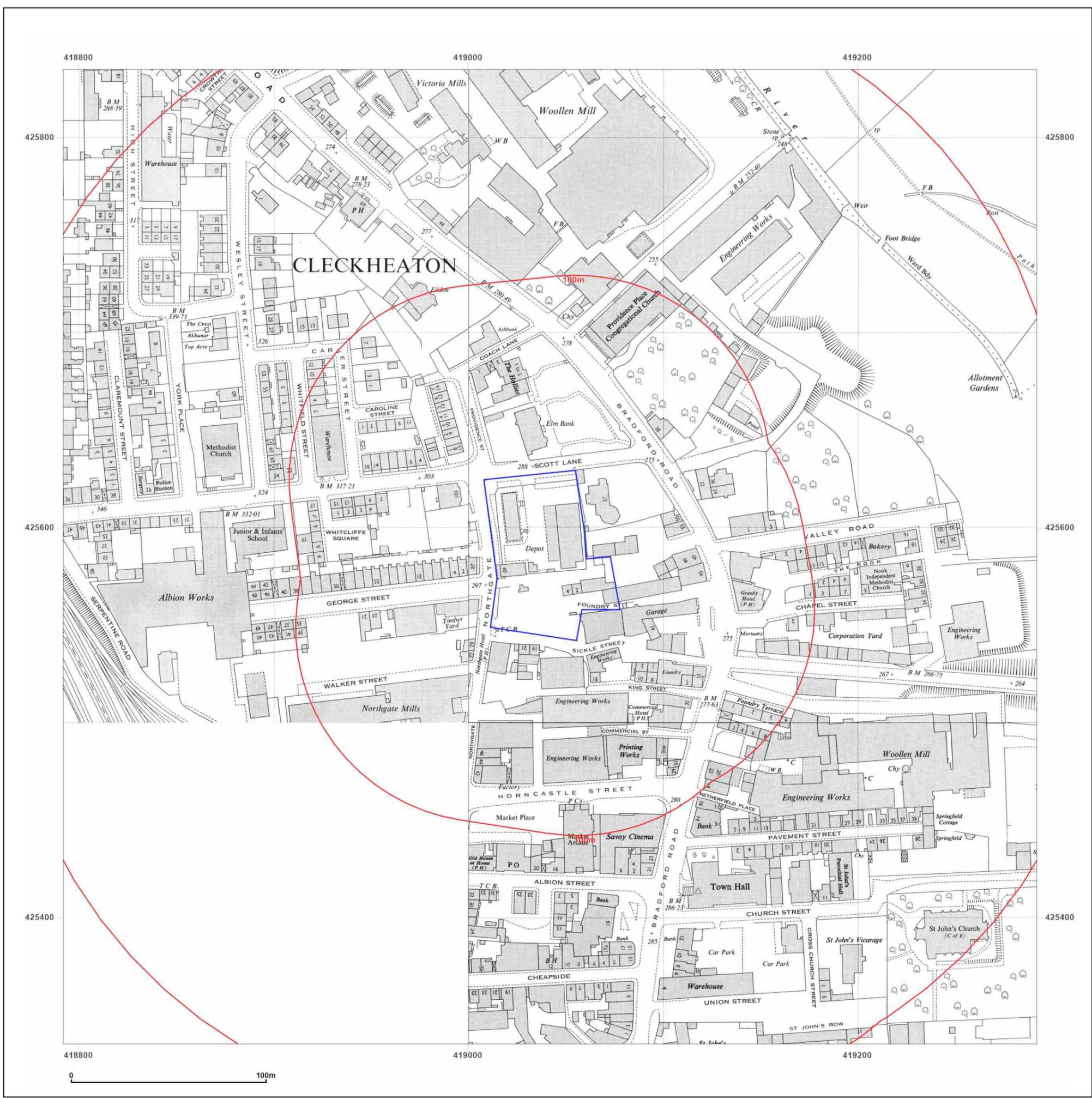


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1969

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1968
Edition N/A
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Levelled 1962

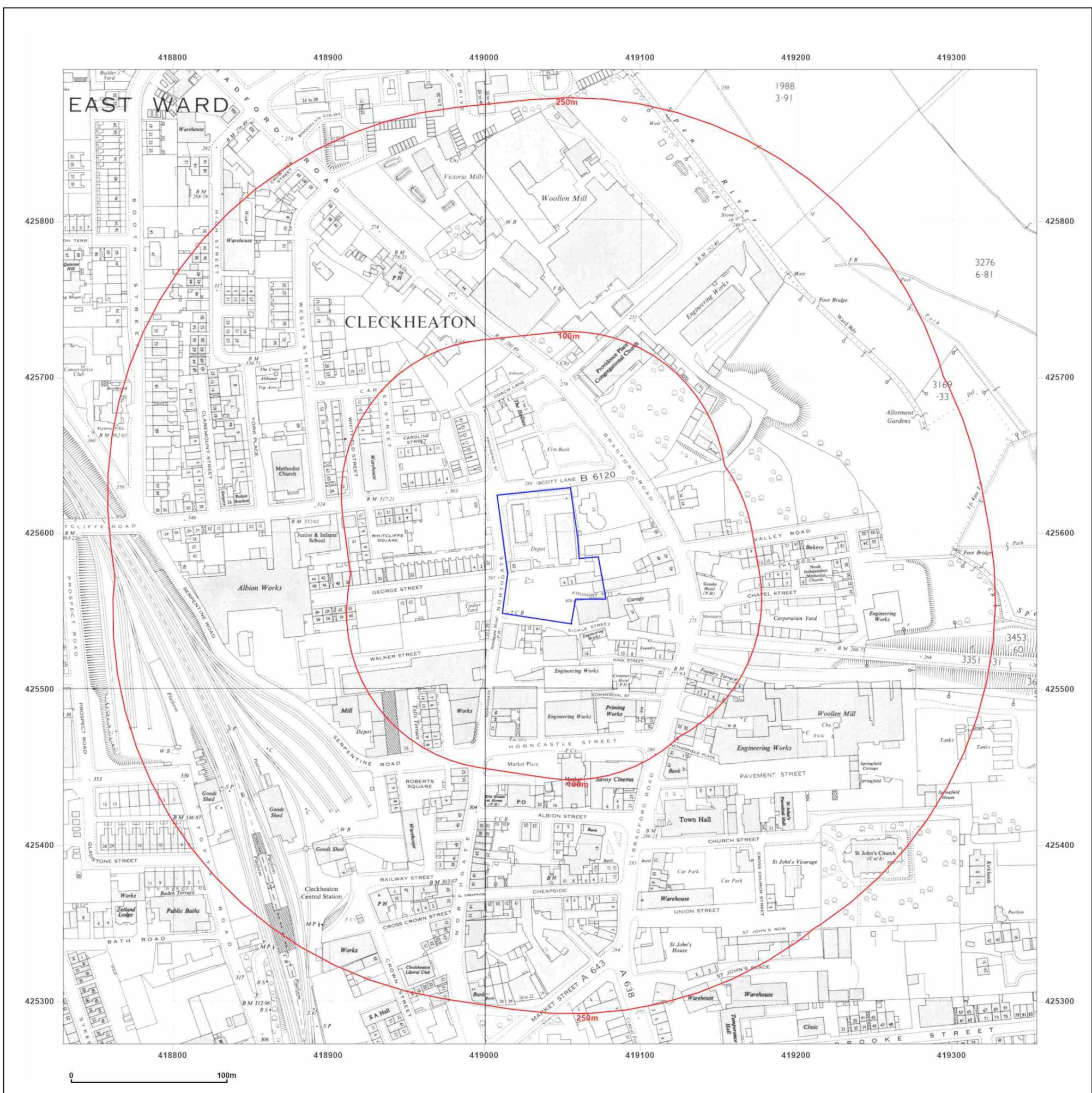


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Map Name: National Grid

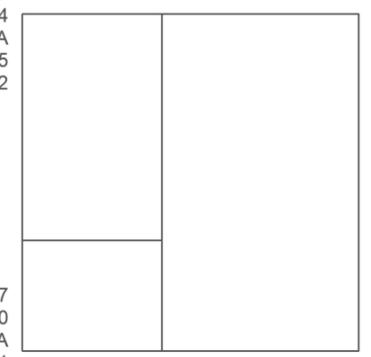
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Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
Copyright 1975
Levelled 1962



Surveyed 1957
Revised 1970
Edition N/A
Copyright 1971
Levelled 1962

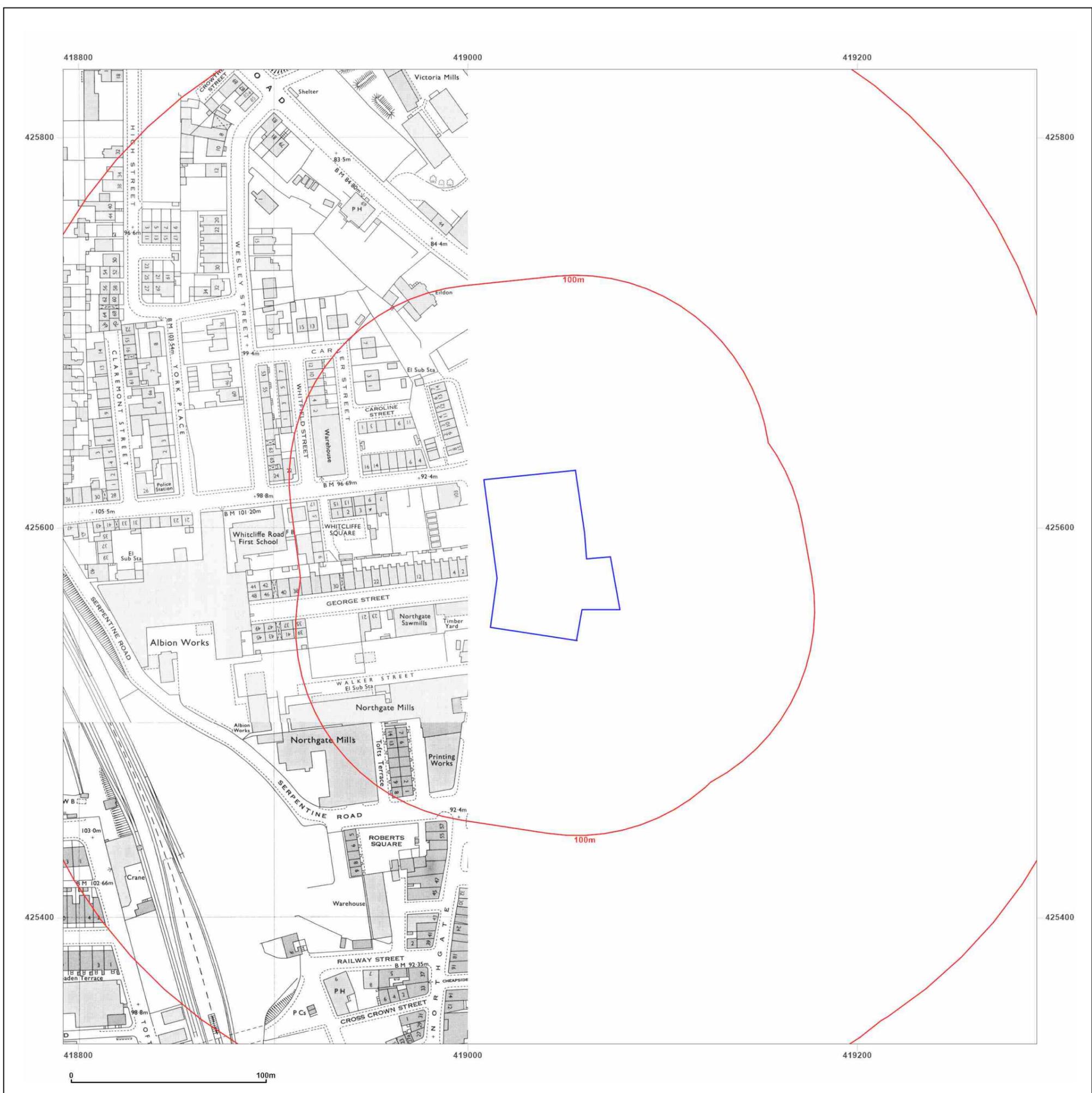


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1981-1985

Scale: 1:1,250

Printed at: 1:2,000



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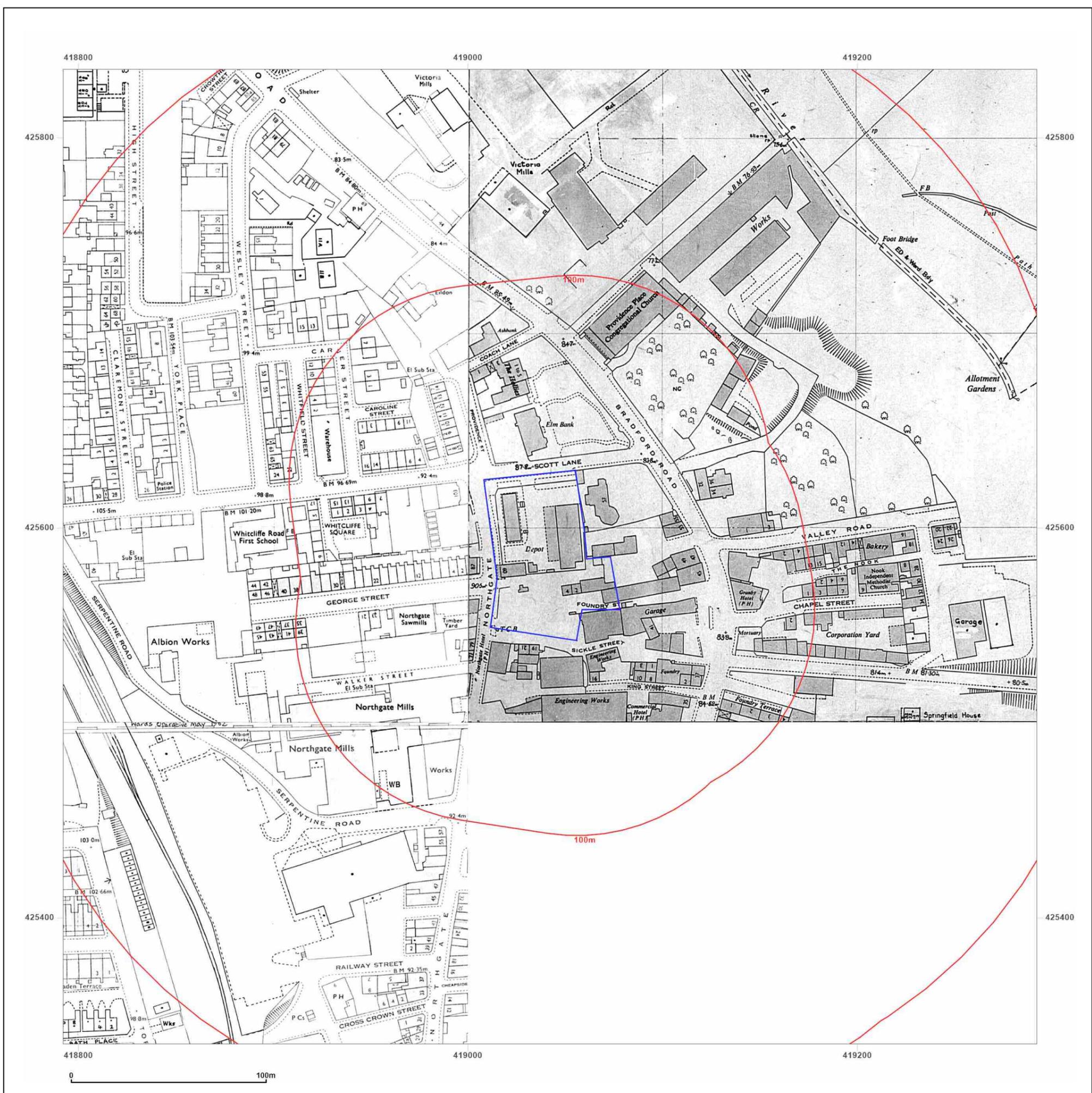


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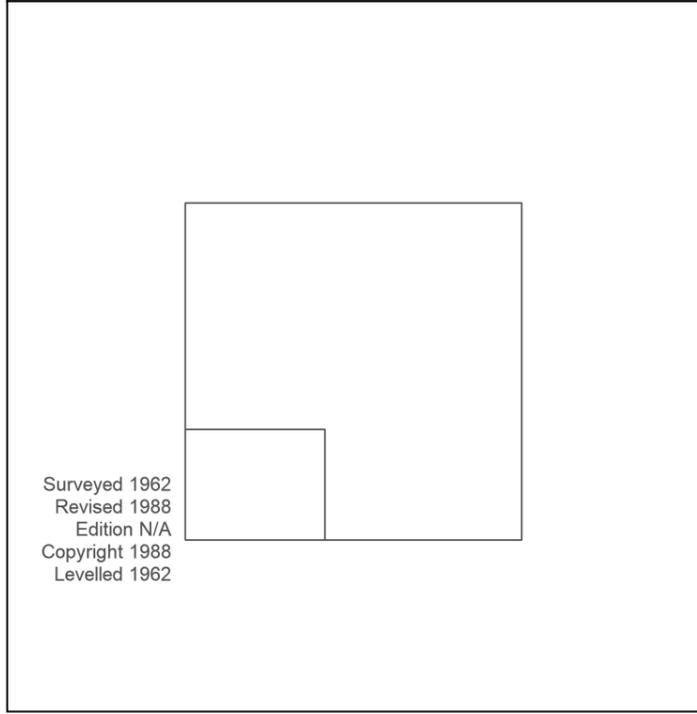
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Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1988

Scale: 1:1,250

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Surveyed 1962
Revised 1988
Edition N/A
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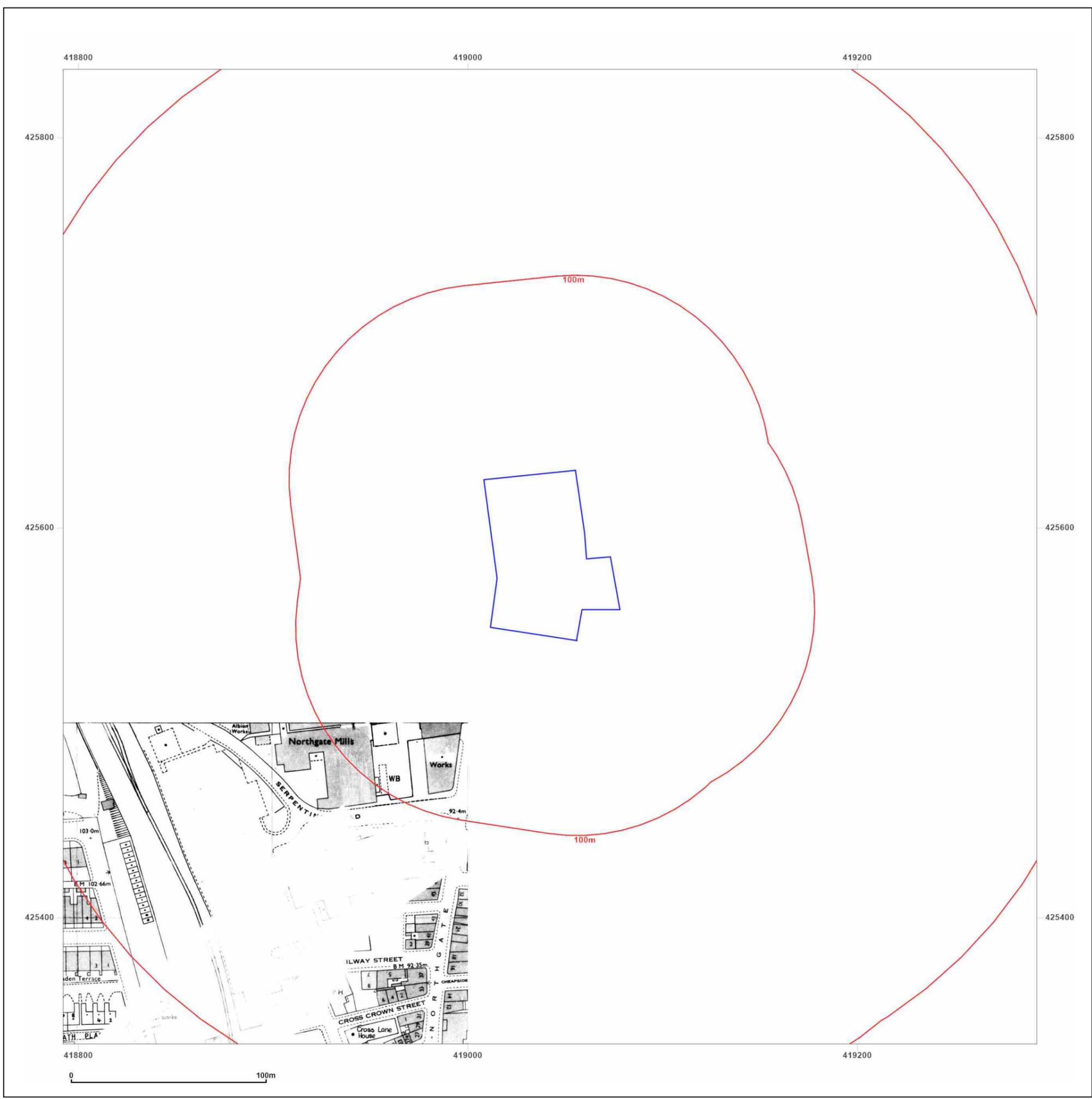


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1985-1989

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1985
Edition N/A
Copyright 1985
Levelled 1962

Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

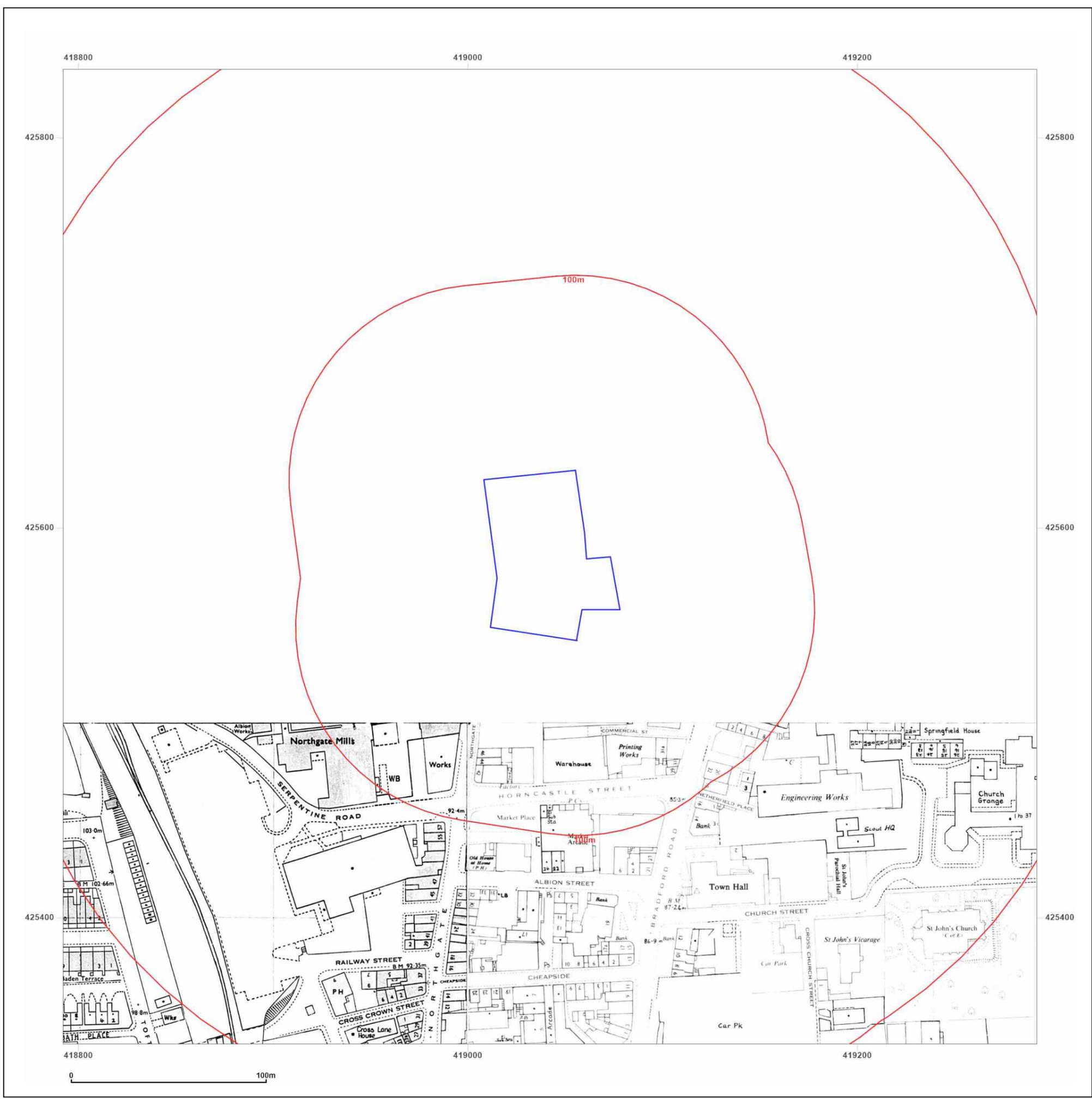


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1962 Revised 1988 Edition N/A Copyright 1988 Levelled 1962	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A

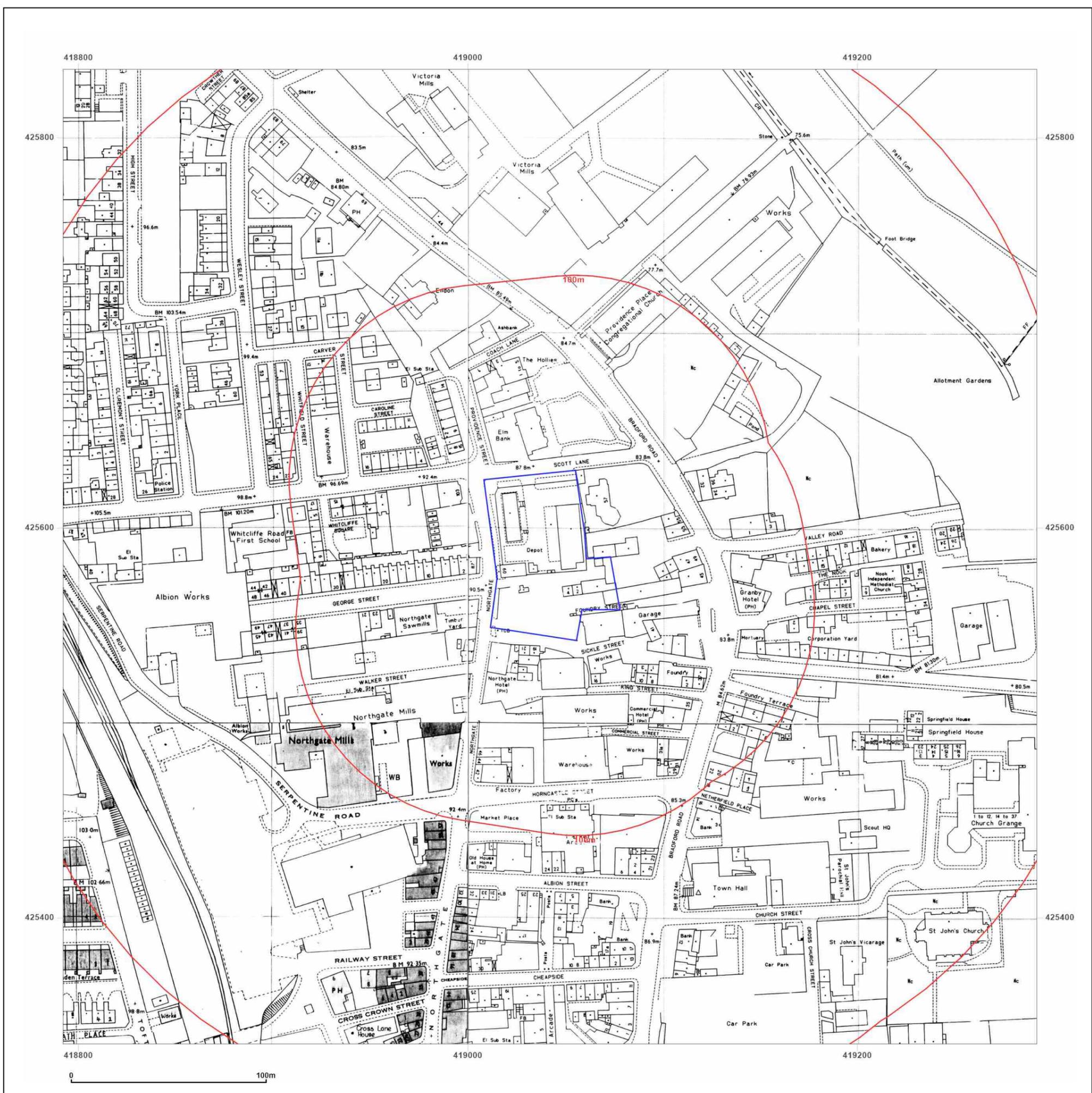


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1992-1994

Scale: 1:1,250

Printed at: 1:2,000



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Grid Ref: 419042, 425585

Map Name: National Grid

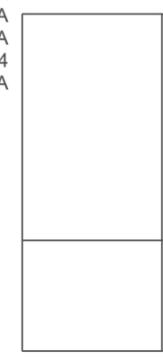
Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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



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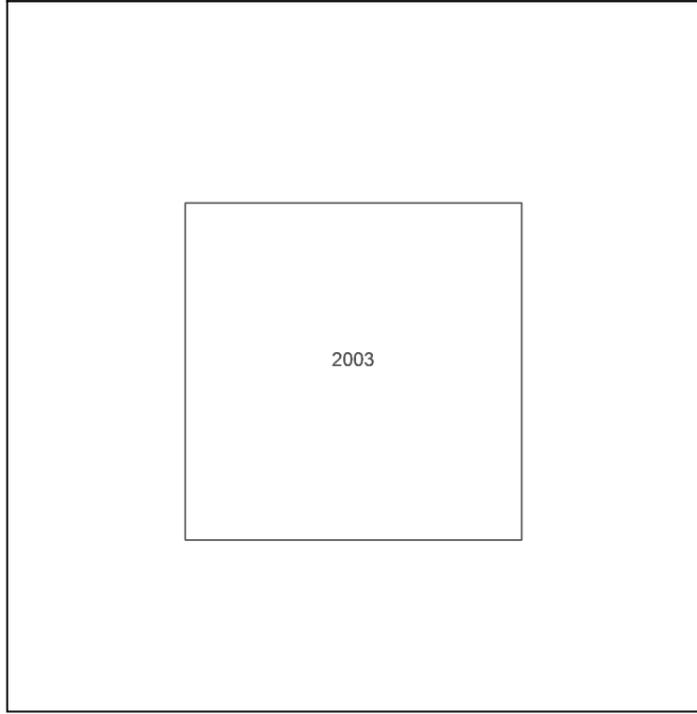
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Grid Ref: 419042, 425585

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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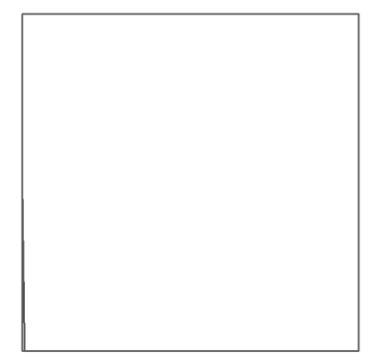
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Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1854

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

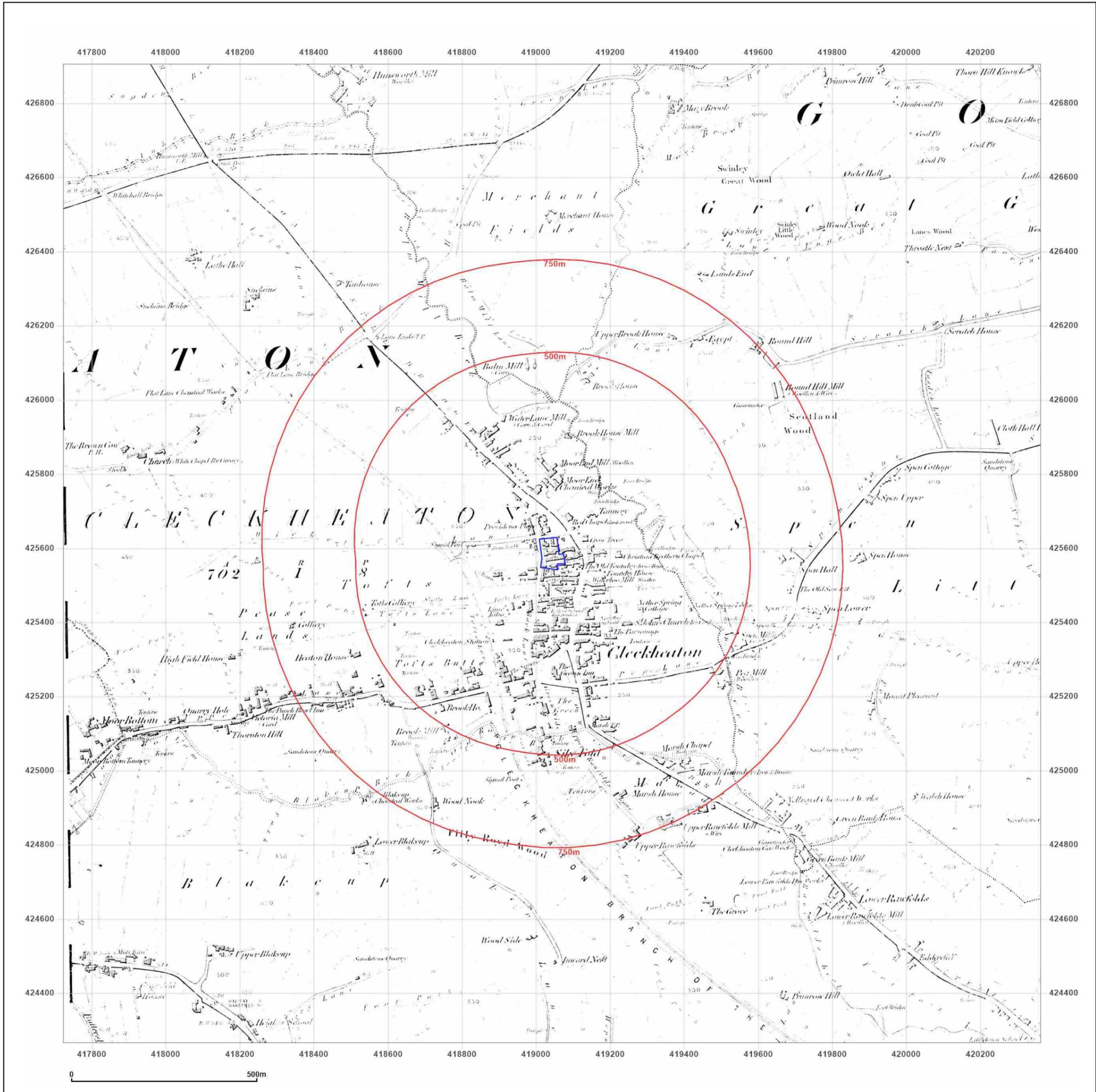


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Site Details:

87, NORTHGATE,
CLECKHEATON, BD19 3LX

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Report Ref: GS-PWR-MD8-MBW-8SI
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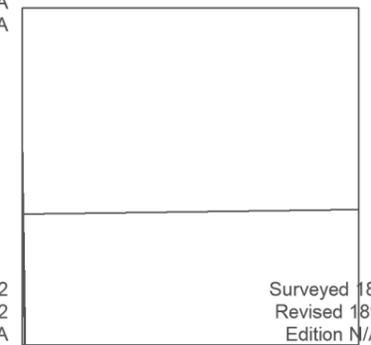
Map date: 1892

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
Copyright N/A
Levelled N/A



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

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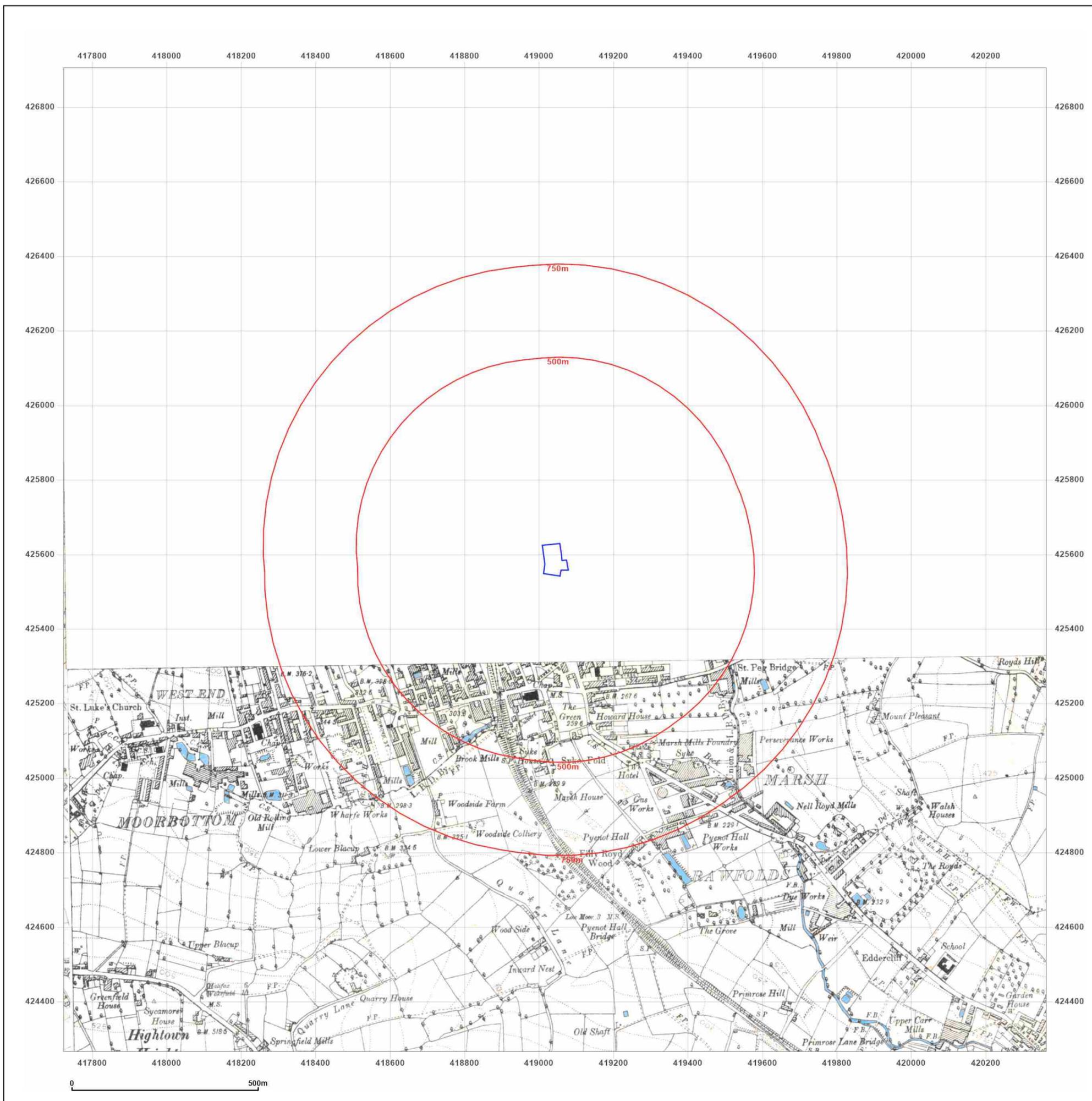


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Site Details:

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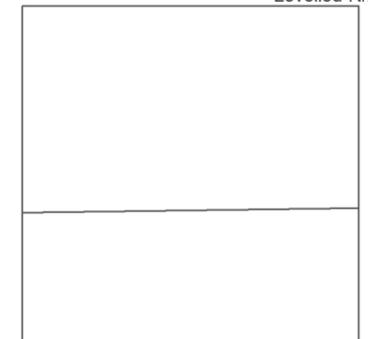
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Printed at: 1:10,560



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

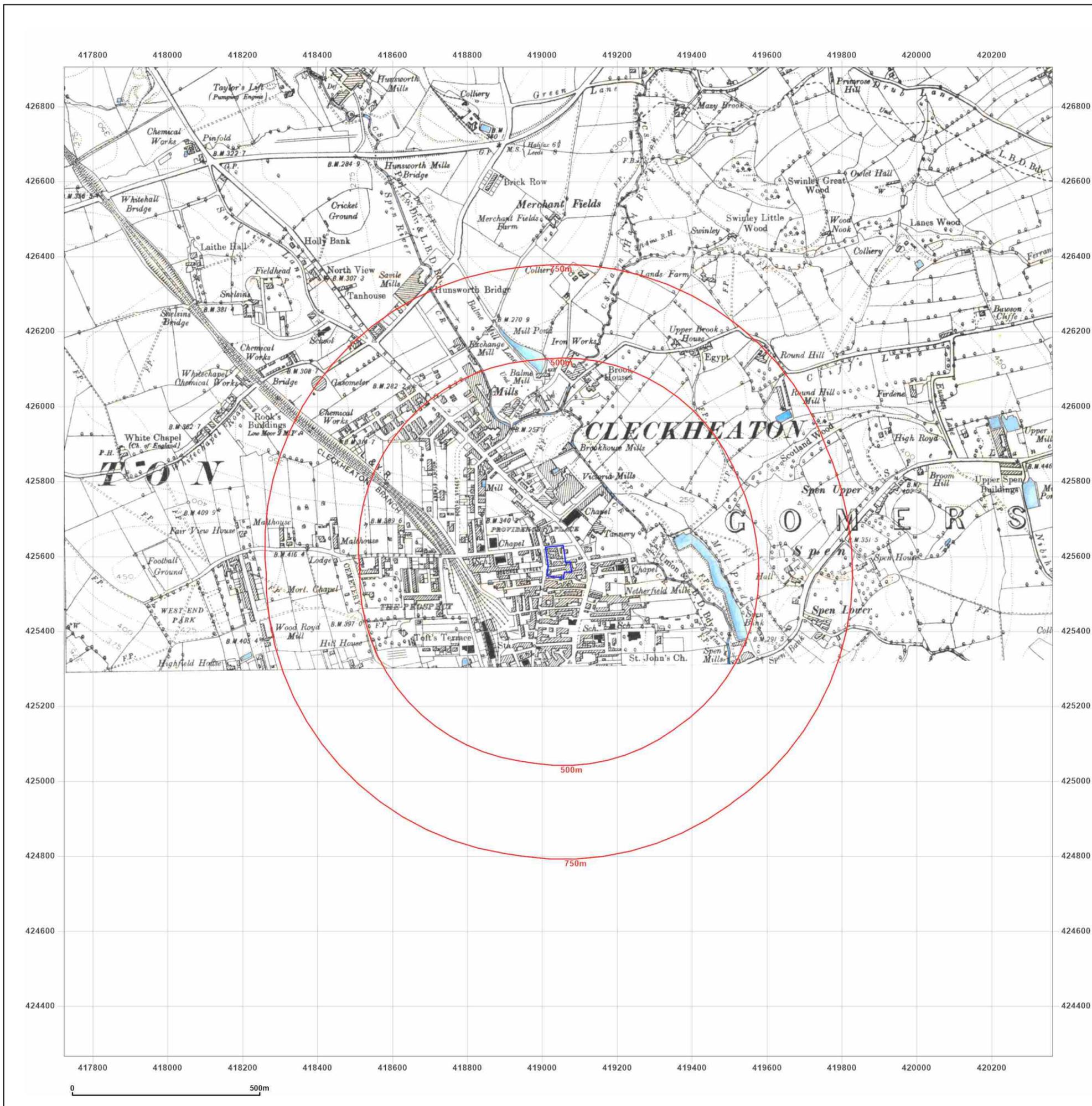


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Site Details:

87, NORTHGATE,
CLECKHEATON, BD19 3LX

Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1905

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1889
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1888
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

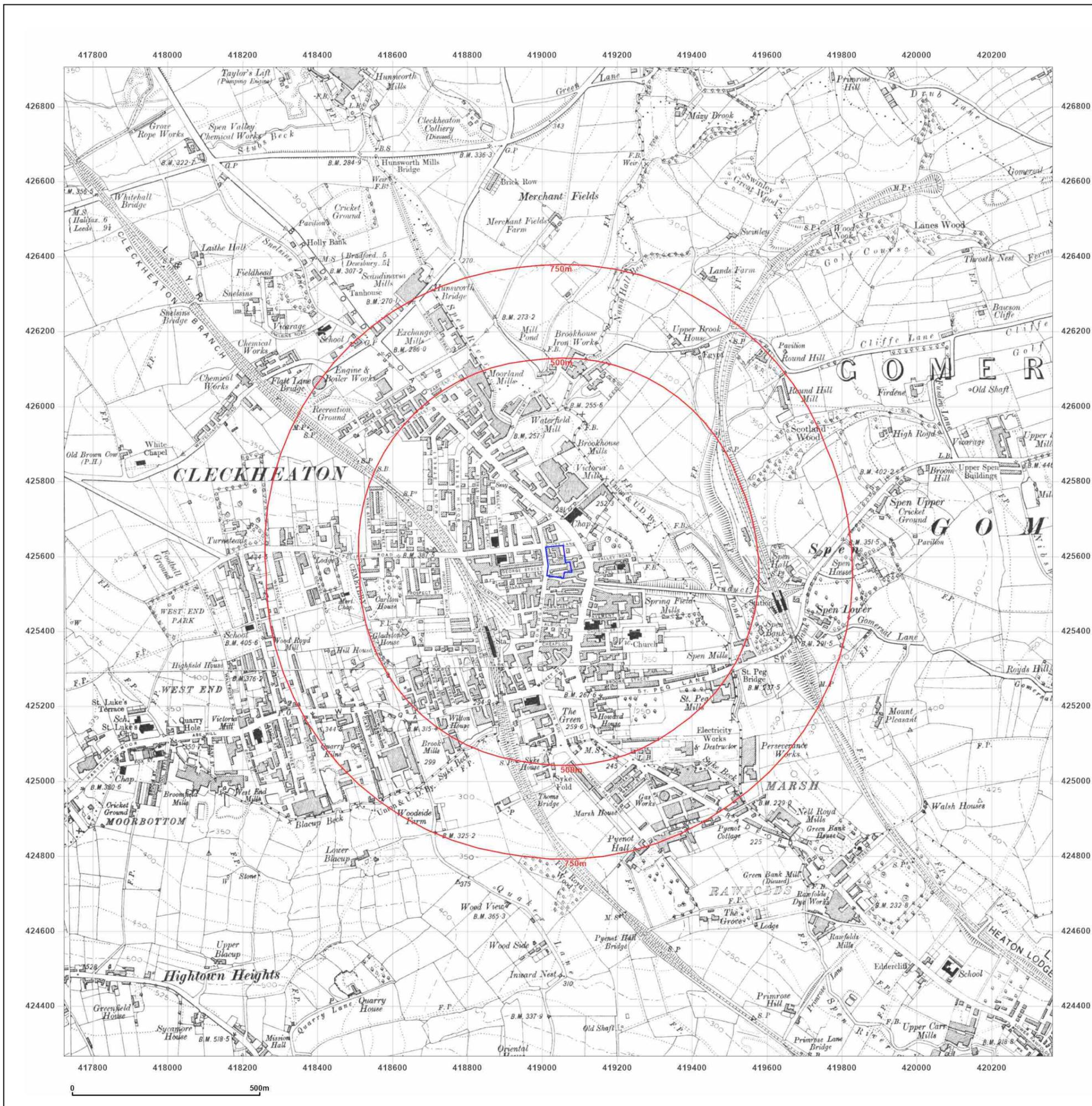


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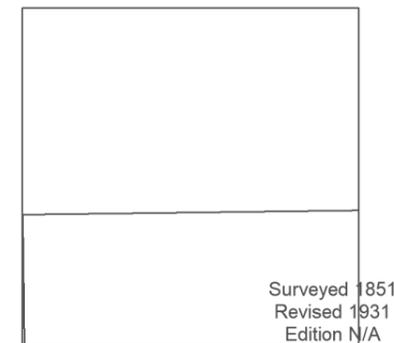
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Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised 1931
Edition N/A
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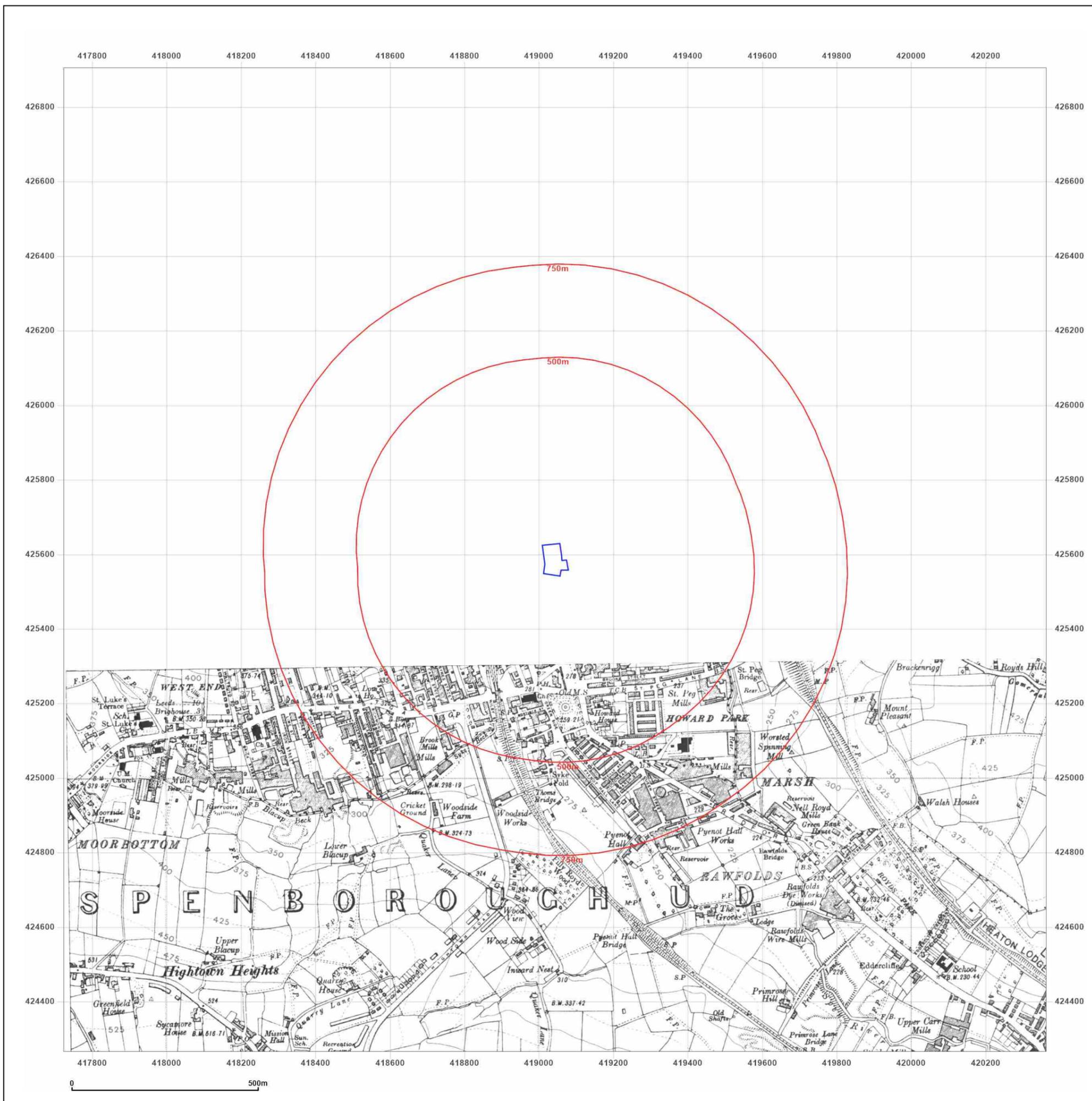


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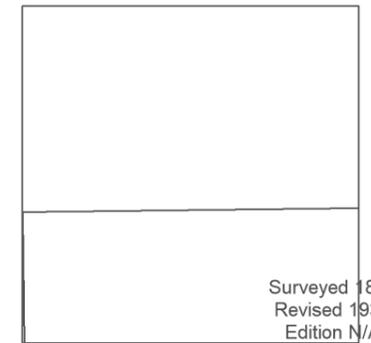
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Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

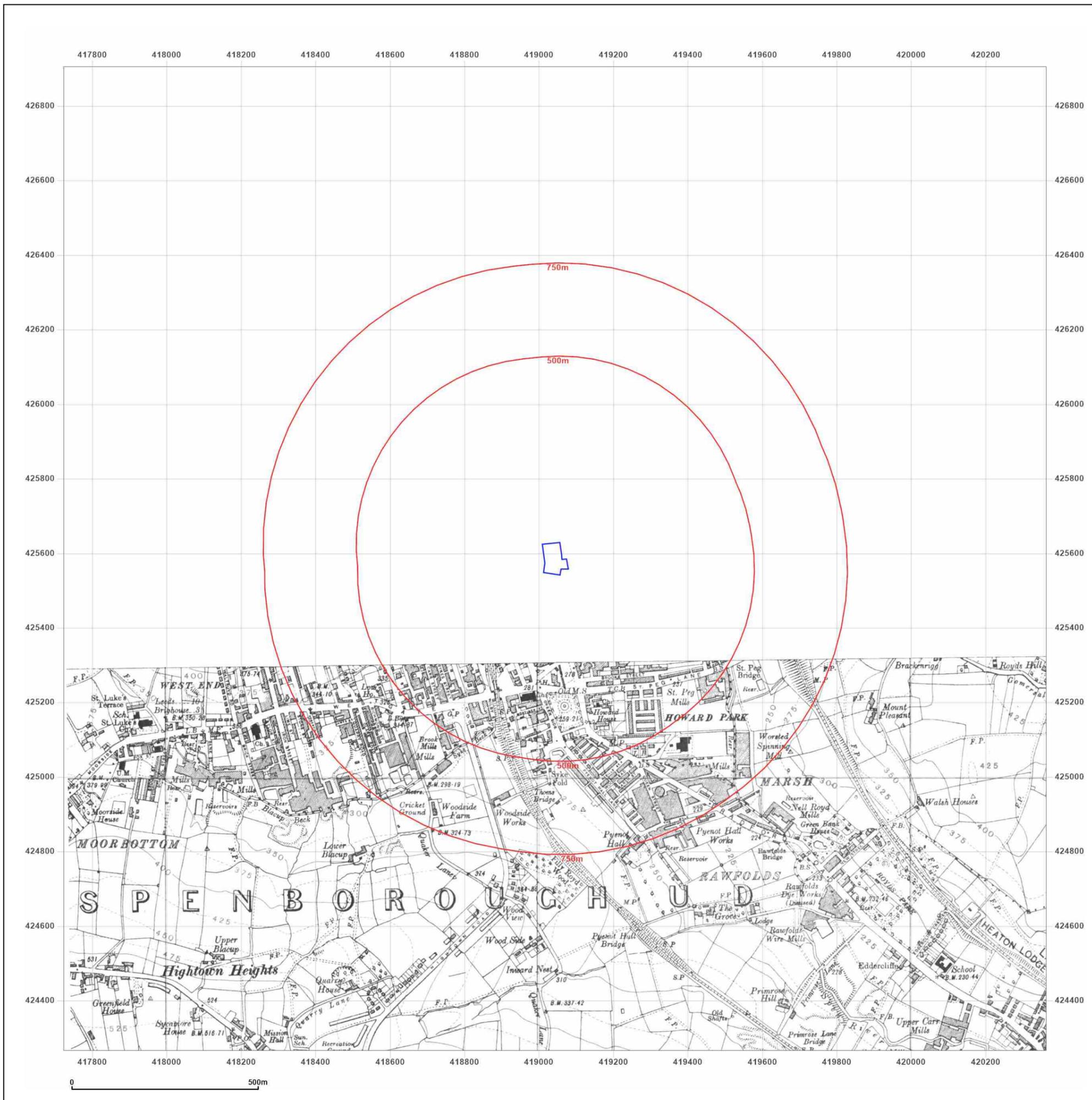


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1931-1932

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1849
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1850
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1851
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

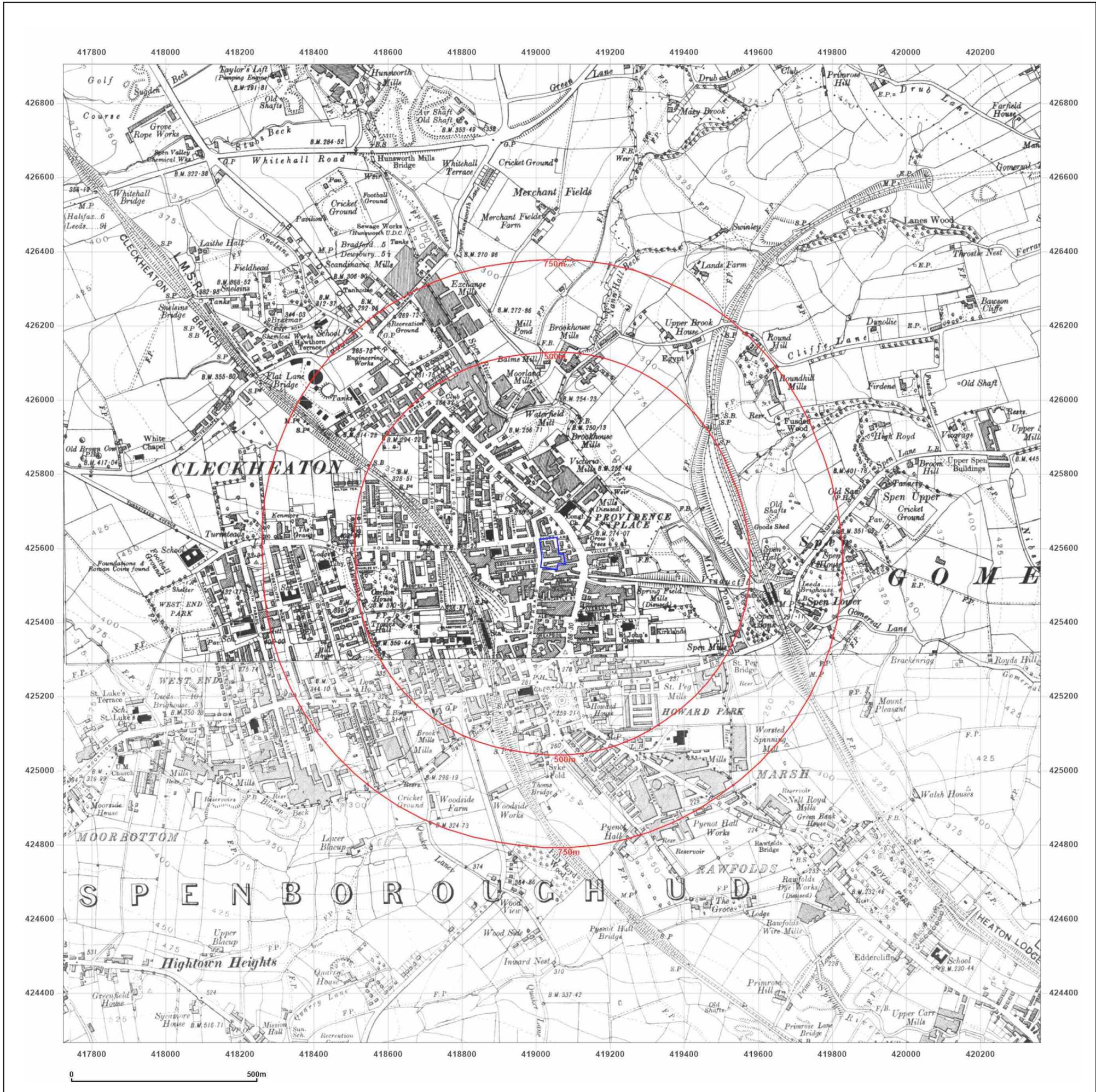


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1849 Revised 1938 Edition N/A Copyright N/A Levelled 1931	Surveyed 1851 Revised 1938 Edition N/A Copyright N/A Levelled 1931
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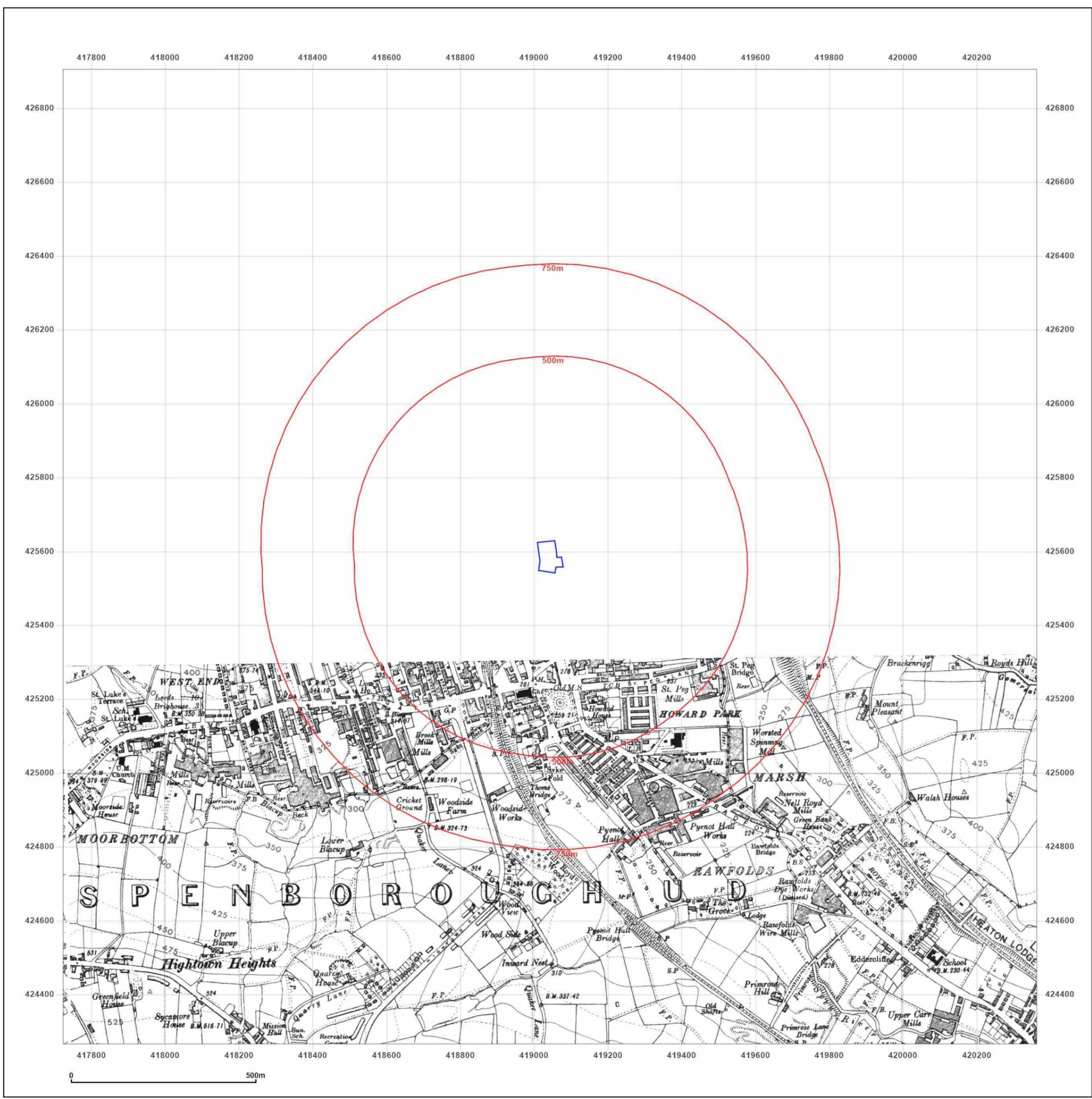


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560



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 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1850
 Revised 1938
 Edition N/A
 Copyright N/A
 Levelled N/A

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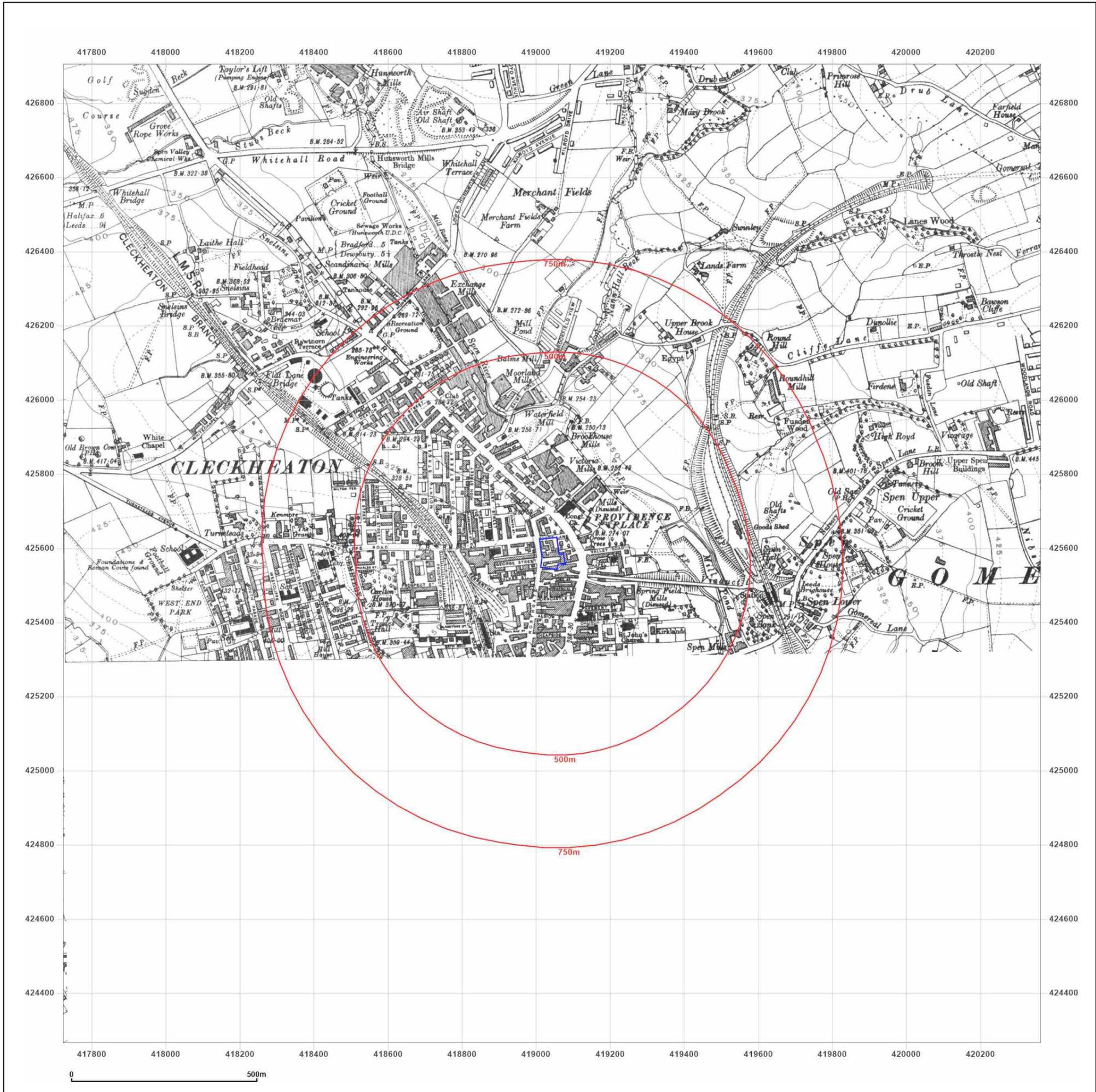


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



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Site Details:

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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850
Revised 1948
Edition N/A
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Surveyed 1849
Revised 1948
Edition N/A
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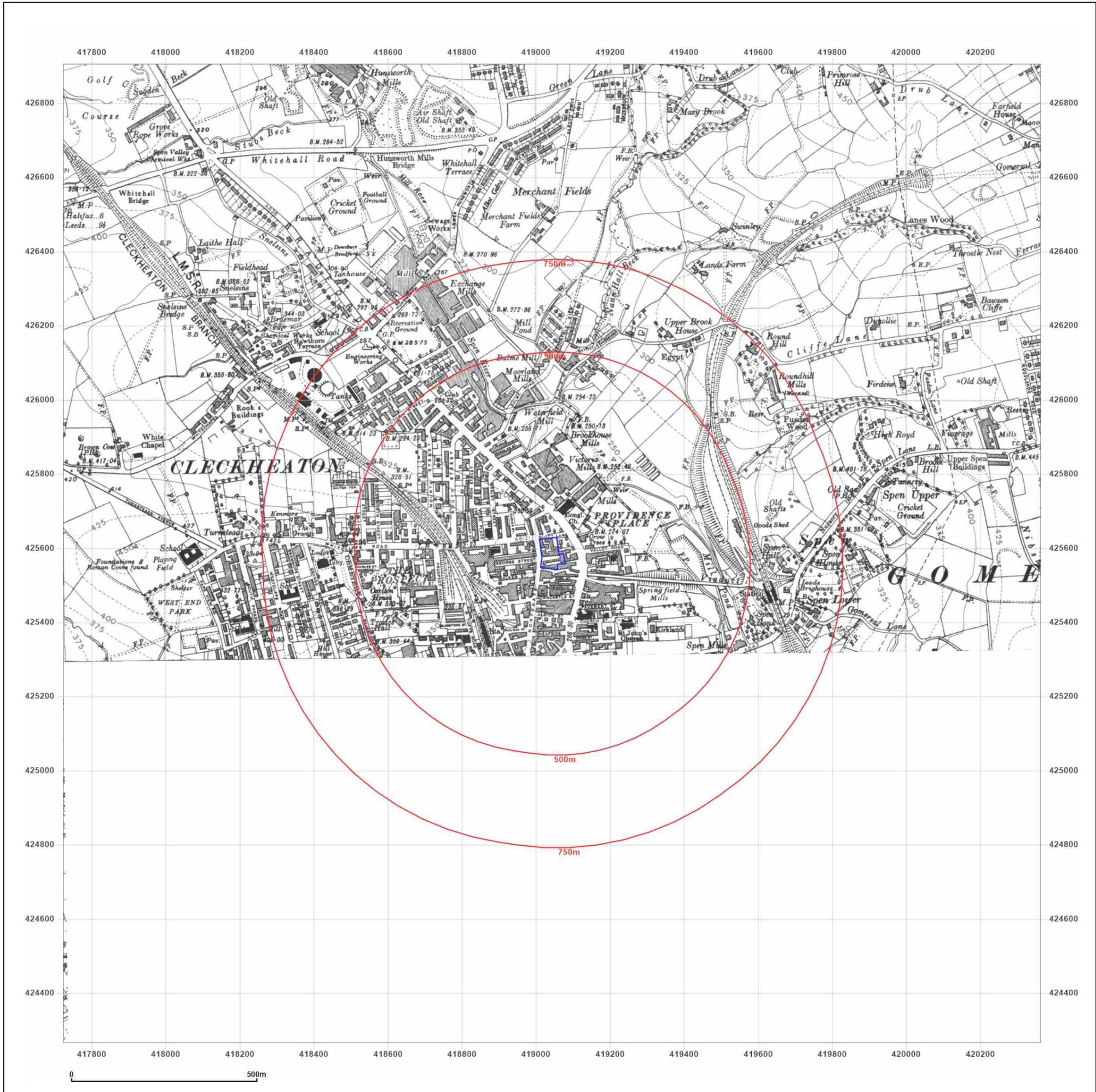


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: Provisional

Map date: 1951-1955

Scale: 1:10,560

Printed at: 1:10,560



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

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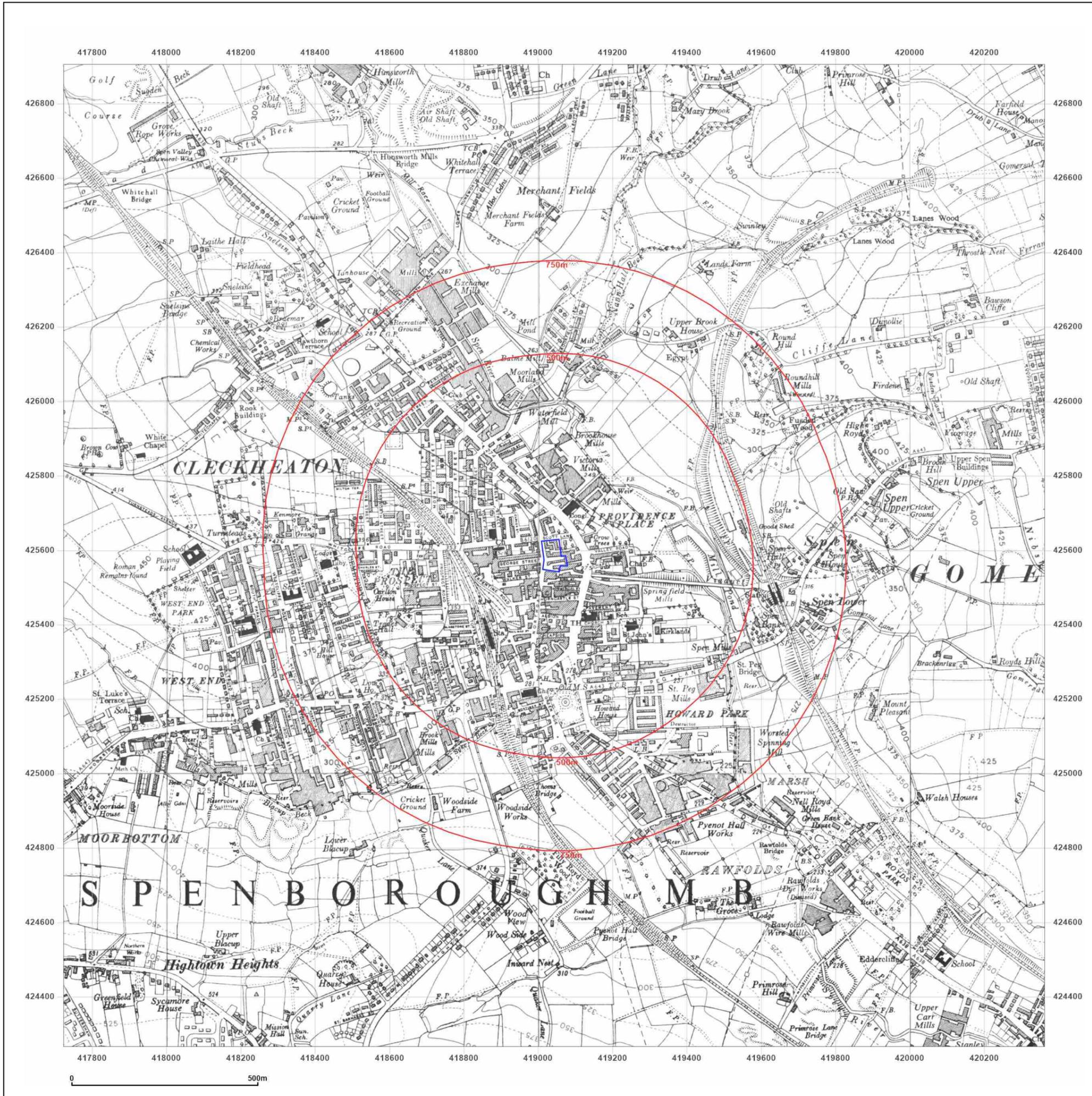


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: Provisional

Map date: 1966-1967

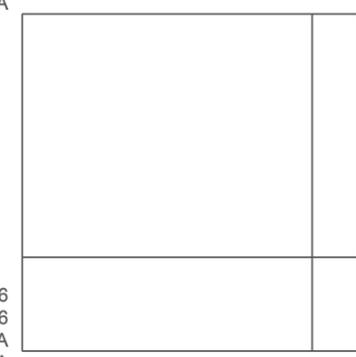
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Surveyed 1966
Revised 1966
Edition N/A
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Revised 1966
Edition N/A
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Levelled N/A

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

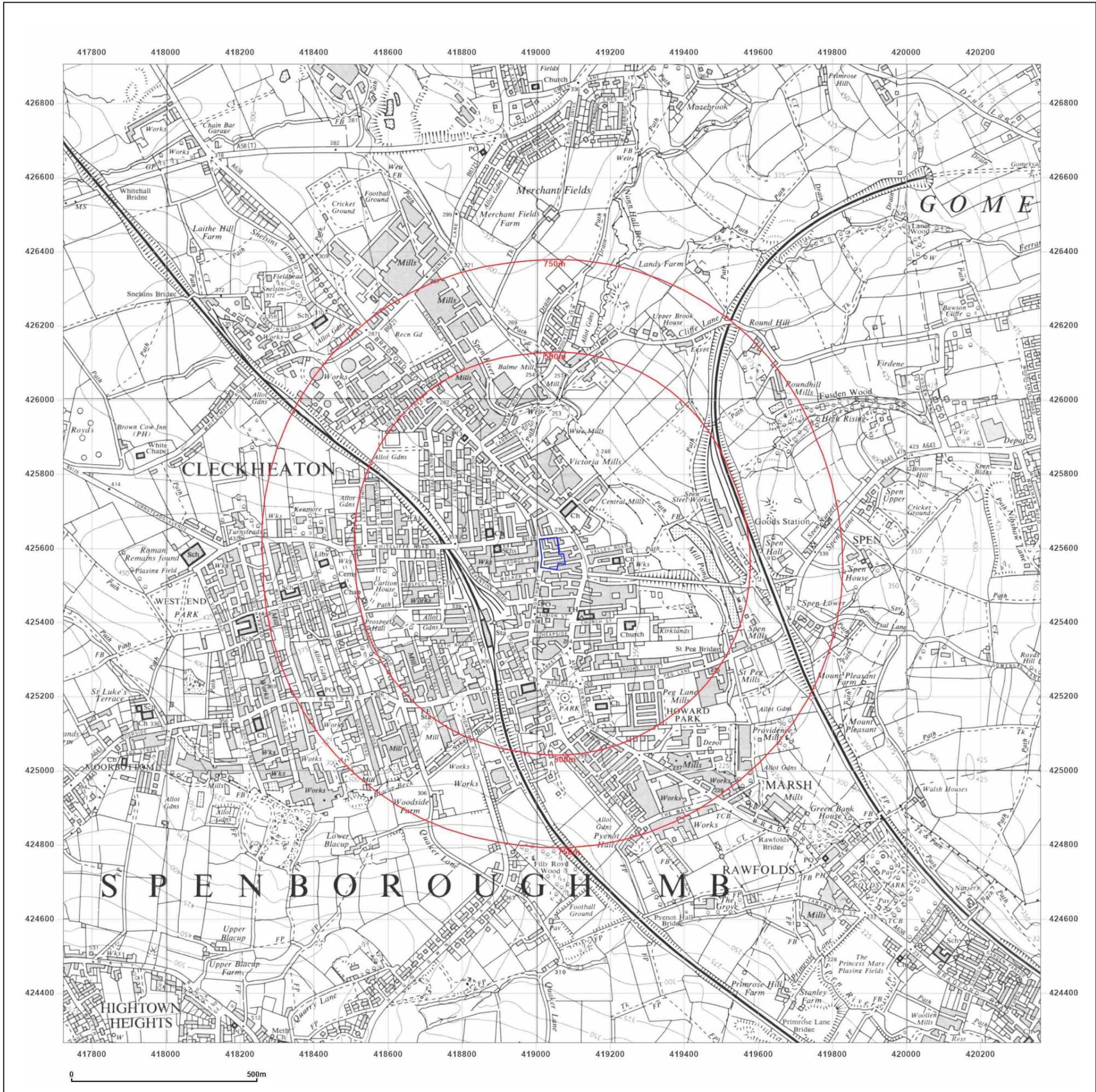


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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1974-1975

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
Revised 1974
Edition N/A
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Surveyed 1973
Revised 1974
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Levelled N/A

Surveyed 1974
Revised 1975
Edition N/A
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Surveyed 1974
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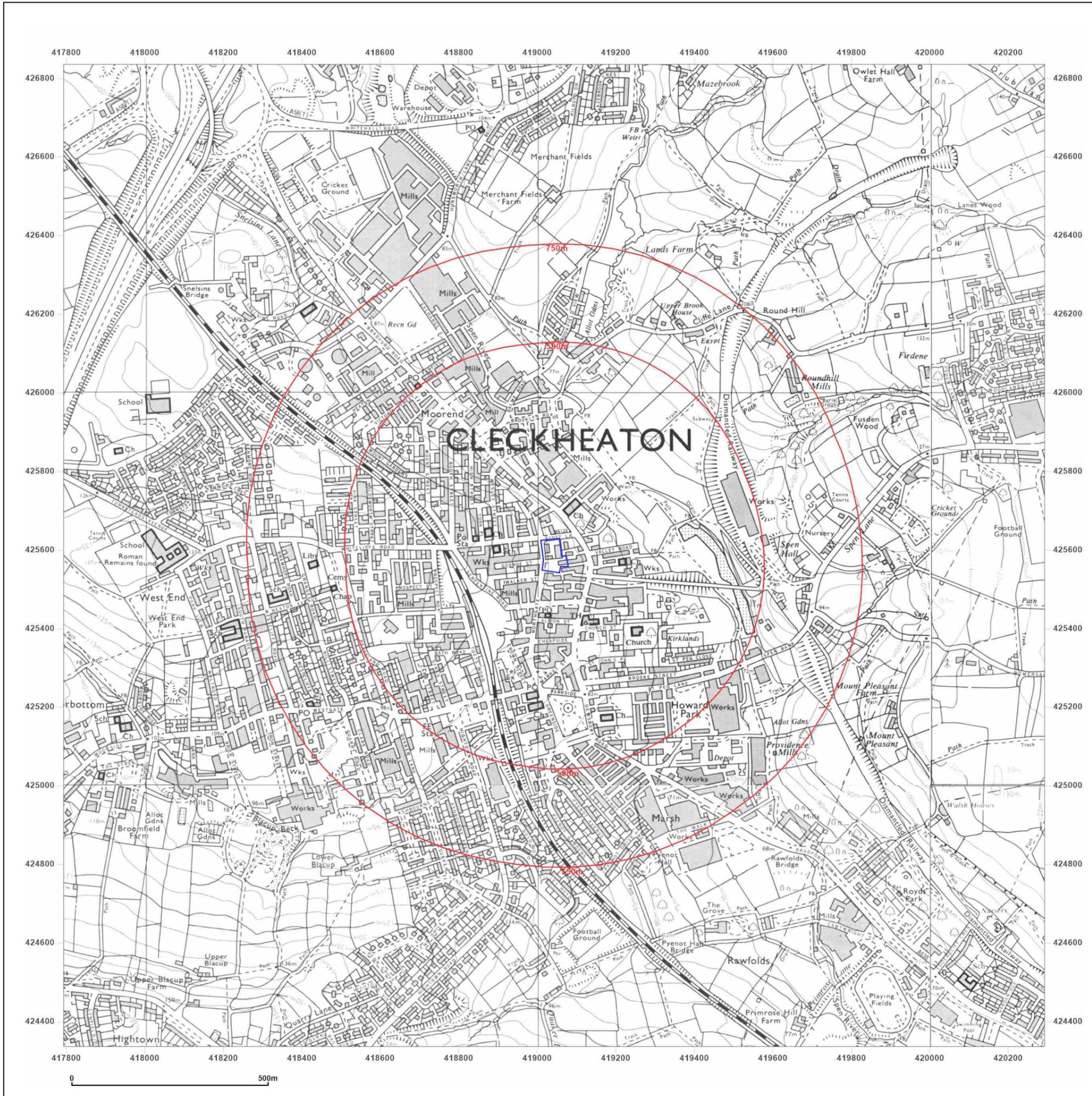


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Site Details:

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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 1981-1985

Scale: 1:10,000

Printed at: 1:10,000



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

Surveyed 1985
Revised 1985
Edition N/A
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Levelled N/A

Surveyed 1977
Revised 1981
Edition N/A
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Levelled N/A

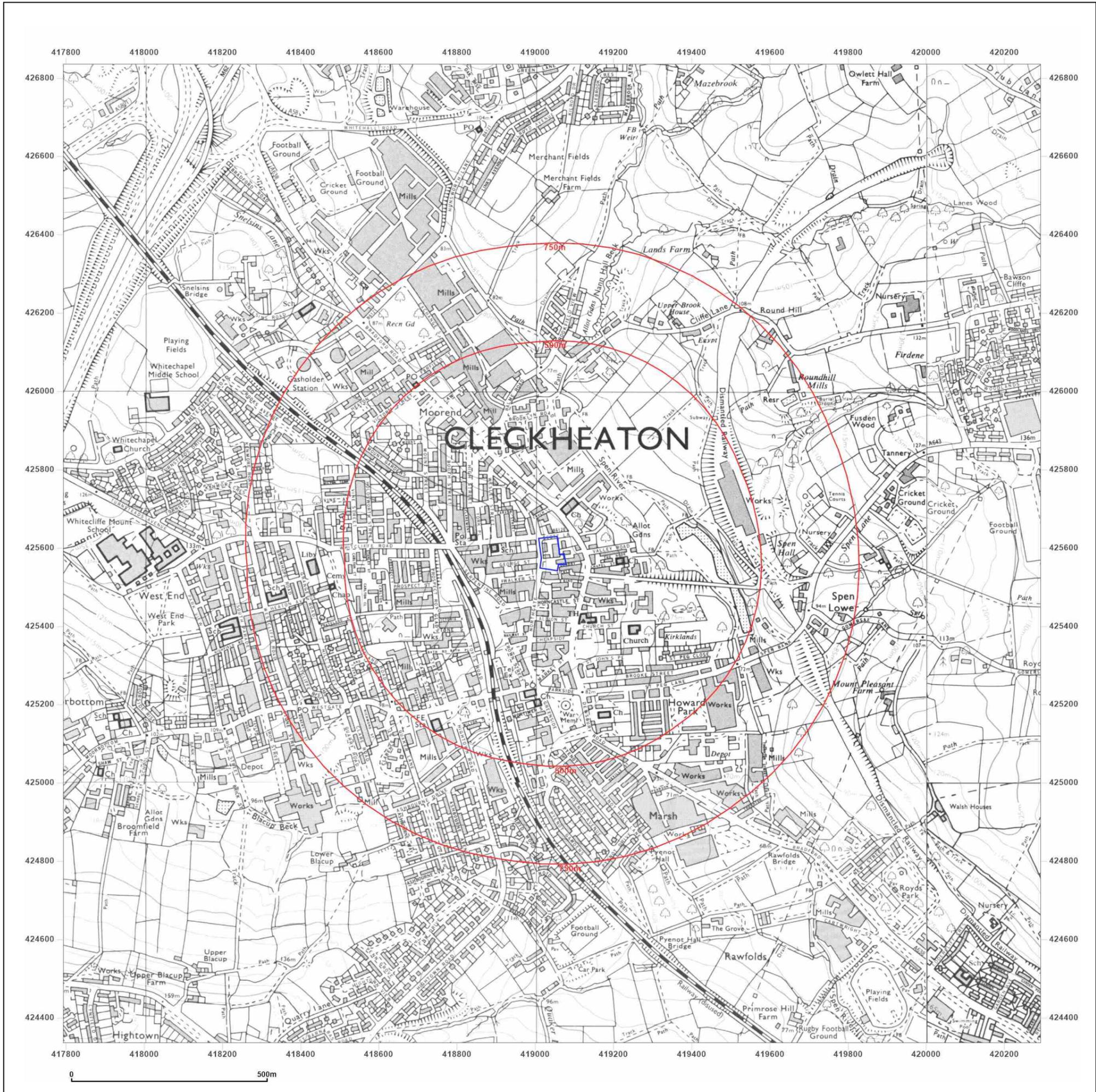


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Site Details:

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Client Ref: G23144
Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

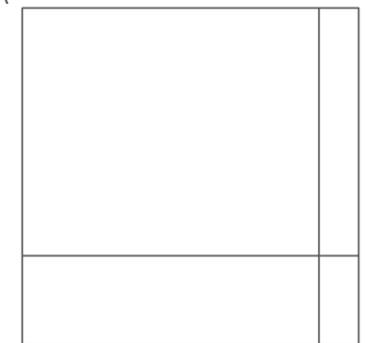
Map date: 1988-1990

Scale: 1:10,000

Printed at: 1:10,000



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Revised 1990
Edition N/A
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Levelled N/A



Surveyed 1985
Revised 1988
Edition N/A
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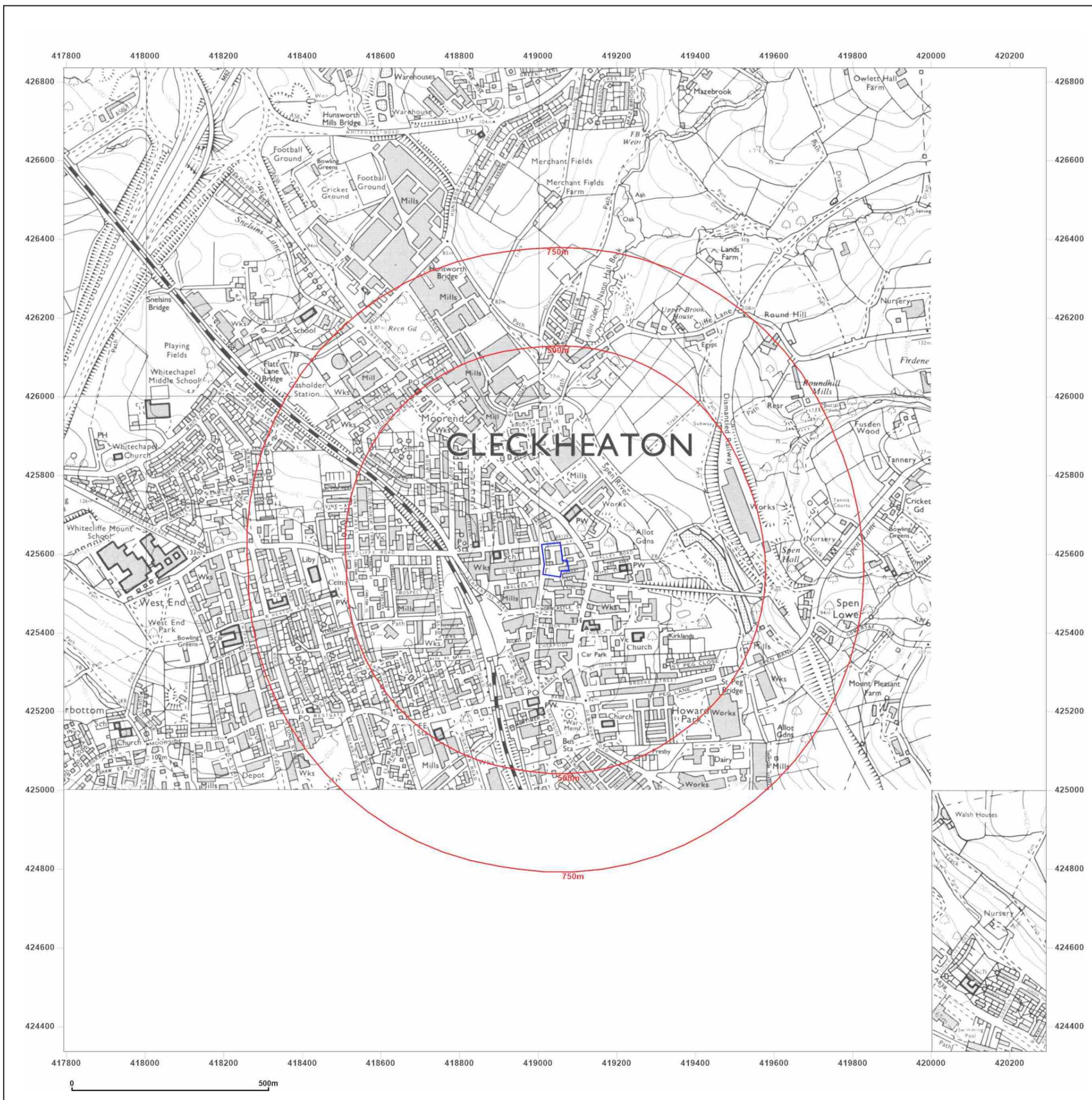


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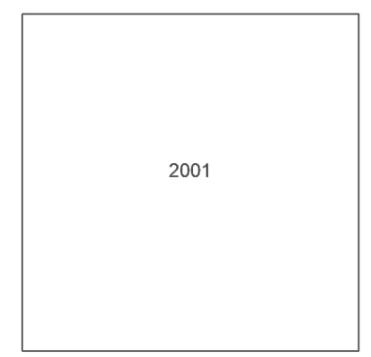
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Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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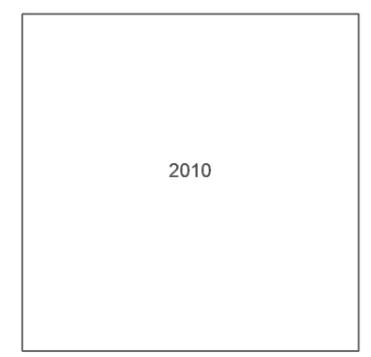
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Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

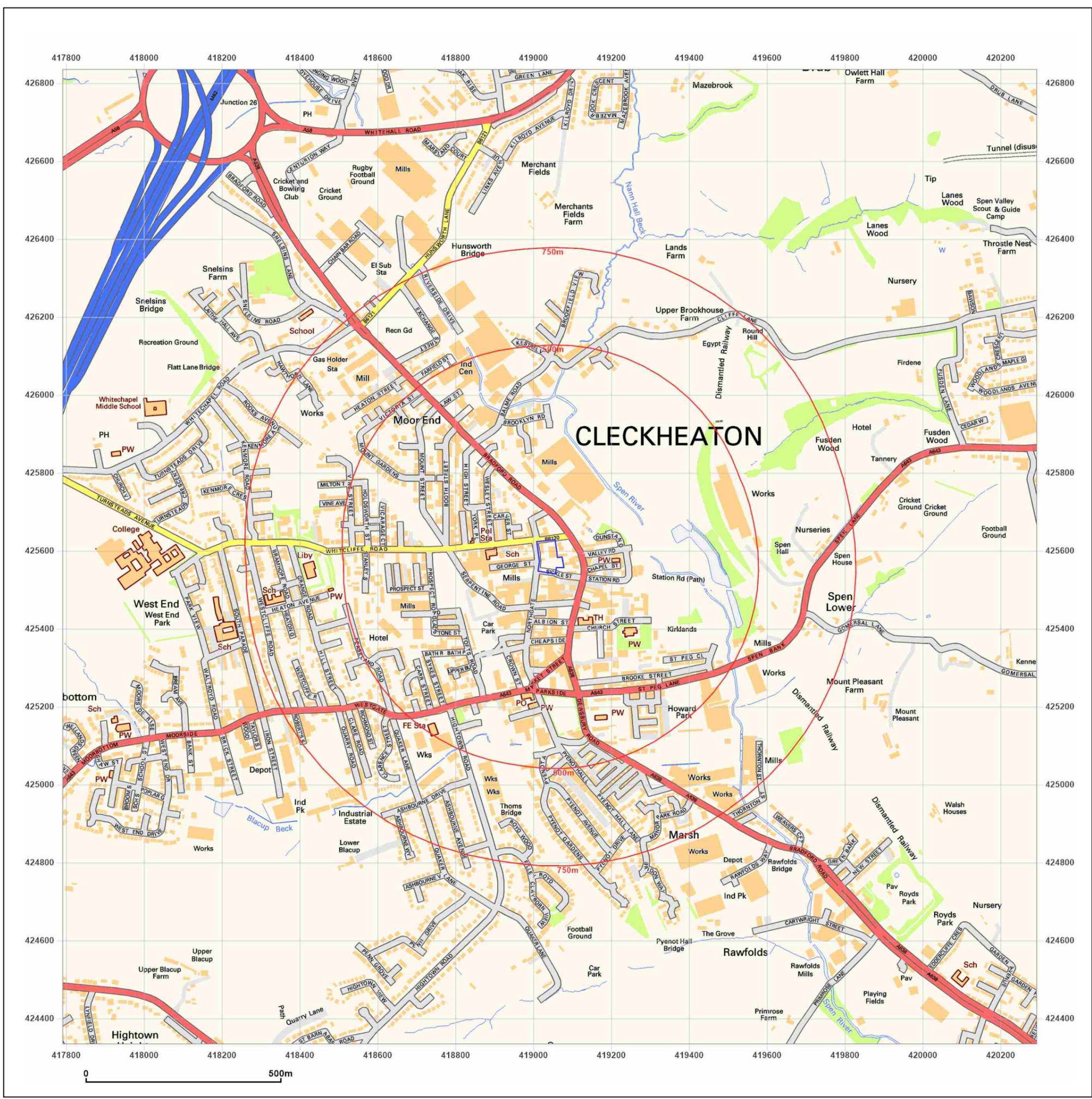


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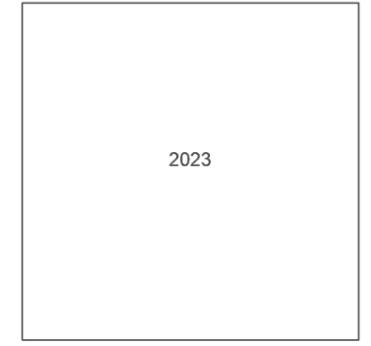
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Report Ref: GS-PWR-MD8-MBW-8SI
Grid Ref: 419042, 425585

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000

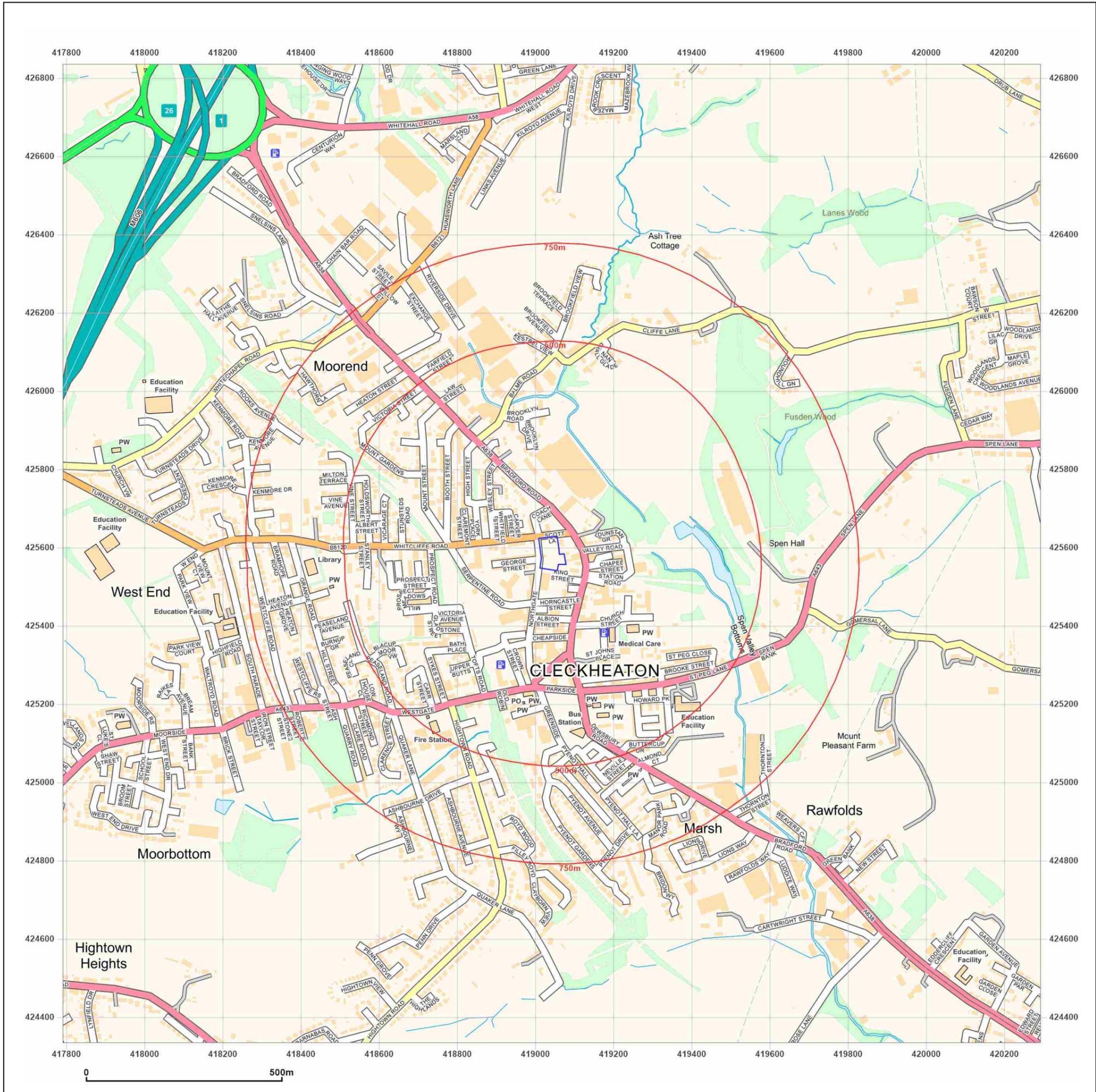


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APPENDIX 2
GROUNDSURE ENVIRO + GEO INSIGHT REPORT

87, NORTHGATE, CLECKHEATON, BD19 3LX

Order Details

Date: 14/04/2023
Your ref: G23144
Our Ref: GS-QZ2-ZRP-BQN-16X

Site Details

Location: 419054 425581
Area: 0.42 ha
Authority: [Kirklees Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	<u>Historical industrial land uses</u>	1	2	56	95	-
19	1.2	<u>Historical tanks</u>	0	0	13	24	-
21	1.3	<u>Historical energy features</u>	0	1	7	14	-
22	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	<u>Historical garages</u>	5	1	2	2	-
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	<u>Historical industrial land uses</u>	2	4	88	152	-
33	2.2	<u>Historical tanks</u>	0	0	22	48	-
36	2.3	<u>Historical energy features</u>	0	2	18	31	-
38	2.4	Historical petrol stations	0	0	0	0	-
38	2.5	<u>Historical garages</u>	5	2	3	7	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
40	3.1	Active or recent landfill	0	0	0	0	-
40	3.2	<u>Historical landfill (BGS records)</u>	0	0	0	1	-
41	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
41	3.4	<u>Historical landfill (EA/NRW records)</u>	0	0	0	5	-
42	3.5	<u>Historical waste sites</u>	0	0	0	5	-
43	3.6	Licensed waste sites	0	0	0	0	-
43	3.7	<u>Waste exemptions</u>	0	0	7	2	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
45	4.1	<u>Recent industrial land uses</u>	0	4	26	-	-
47	4.2	<u>Current or recent petrol stations</u>	0	1	1	0	-
48	4.3	Electricity cables	0	0	0	0	-
48	4.4	Gas pipelines	0	0	0	0	-
48	4.5	Sites determined as Contaminated Land	0	0	0	0	-



48	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
49	4.7	Regulated explosive sites	0	0	0	0	-
49	4.8	Hazardous substance storage/usage	0	0	0	0	-
49	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
49	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	4	-
50	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	3	2	-
51	4.12	Radioactive Substance Authorisations	0	0	0	0	-
51	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	3	-
52	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
52	4.15	Pollutant release to public sewer	0	0	0	0	-
52	4.16	List 1 Dangerous Substances	0	0	0	0	-
53	4.17	<u>List 2 Dangerous Substances</u>	0	0	0	1	-
53	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	5	13	-
55	4.19	Pollution inventory substances	0	0	0	0	-
55	4.20	Pollution inventory waste transfers	0	0	0	0	-
56	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
57	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
58	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
59	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
60	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
60	5.5	Groundwater vulnerability- local information	None (within 0m)				
61	5.6	<u>Groundwater abstractions</u>	0	0	0	0	11
64	5.7	Surface water abstractions	0	0	0	0	0
64	5.8	Potable abstractions	0	0	0	0	0
65	5.9	Source Protection Zones	0	0	0	0	-
65	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
66	6.1	<u>Water Network (OS MasterMap)</u>	0	0	7	-	-



67	6.2	<u>Surface water features</u>	0	0	3	-	-
67	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
68	6.4	<u>WFD Surface water bodies</u>	0	0	1	-	-
68	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
69	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
70	7.2	<u>Historical Flood Events</u>	0	0	2	-	-
70	7.3	Flood Defences	0	0	0	-	-
70	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
71	7.5	Flood Storage Areas	0	0	0	-	-
72	7.6	Flood Zone 2	None (within 50m)				
72	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
73	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
74	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
75	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
76	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
76	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
76	10.4	Special Protection Areas (SPA)	0	0	0	0	0
76	10.5	National Nature Reserves (NNR)	0	0	0	0	0
77	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
77	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	3
77	10.8	Biosphere Reserves	0	0	0	0	0
78	10.9	Forest Parks	0	0	0	0	0
78	10.10	Marine Conservation Zones	0	0	0	0	0
78	10.11	<u>Green Belt</u>	0	0	1	0	0
78	10.12	Proposed Ramsar sites	0	0	0	0	0



79	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
79	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
79	10.15	Nitrate Sensitive Areas	0	0	0	0	0
79	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	0
81	10.17	SSSI Impact Risk Zones	0	-	-	-	-
81	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
82	11.1	World Heritage Sites	0	0	0	-	-
83	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
83	11.3	National Parks	0	0	0	-	-
83	11.4	<u>Listed Buildings</u>	0	0	5	-	-
84	11.5	Conservation Areas	0	0	0	-	-
84	11.6	Scheduled Ancient Monuments	0	0	0	-	-
84	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
85	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
86	12.2	Open Access Land	0	0	0	-	-
86	12.3	Tree Felling Licences	0	0	0	-	-
86	12.4	Environmental Stewardship Schemes	0	0	0	-	-
86	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
87	13.1	<u>Priority Habitat Inventory</u>	0	0	7	-	-
88	13.2	Habitat Networks	0	0	0	-	-
88	13.3	<u>Open Mosaic Habitat</u>	0	0	1	-	-
88	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
90	14.1	<u>10k Availability</u>	Identified (within 500m)				
91	14.2	<u>Artificial and made ground (10k)</u>	0	0	3	5	-
93	14.3	<u>Superficial geology (10k)</u>	0	0	1	0	-



94	14.4	Landslip (10k)	0	0	0	0	-
95	14.5	<u>Bedrock geology (10k)</u>	1	0	7	10	-
96	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	6	6	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
98	15.1	<u>50k Availability</u>	Identified (within 500m)				
99	15.2	<u>Artificial and made ground (50k)</u>	0	0	2	0	-
100	15.3	Artificial ground permeability (50k)	0	0	-	-	-
101	15.4	<u>Superficial geology (50k)</u>	0	0	1	0	-
102	15.5	Superficial permeability (50k)	None (within 50m)				
102	15.6	Landslip (50k)	0	0	0	0	-
102	15.7	Landslip permeability (50k)	None (within 50m)				
103	15.8	<u>Bedrock geology (50k)</u>	1	0	7	10	-
105	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
105	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	6	6	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
106	16.1	<u>BGS Boreholes</u>	0	0	19	-	-
Page	Section	Natural ground subsidence					
108	17.1	<u>Shrink swell clays</u>	Negligible (within 50m)				
109	17.2	<u>Running sands</u>	Negligible (within 50m)				
110	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
111	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
112	17.5	<u>Landslides</u>	Very low (within 50m)				
113	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
115	18.1	Natural cavities	0	0	0	0	-
116	18.2	BritPits	0	0	0	0	-
116	18.3	<u>Surface ground workings</u>	0	0	13	-	-
117	18.4	<u>Underground workings</u>	0	0	0	0	8
117	18.5	Historical Mineral Planning Areas	0	0	0	0	-



117	18.6	<u>Non-coal mining</u>	0	0	0	3	7
119	18.7	Mining cavities	0	0	0	0	0
119	18.8	JPB mining areas	None (within 0m)				
119	18.9	<u>Coal mining</u>	Identified (within 0m)				
119	18.10	Brine areas	None (within 0m)				
120	18.11	Gypsum areas	None (within 0m)				
120	18.12	Tin mining	None (within 0m)				
120	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
121	19.1	<u>Radon</u>	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
123	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
123	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
123	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
124	21.1	Underground railways (London)	0	0	0	-	-
124	21.2	Underground railways (Non-London)	0	0	0	-	-
125	21.3	Railway tunnels	0	0	0	-	-
125	21.4	<u>Historical railway and tunnel features</u>	0	0	28	-	-
126	21.5	Royal Mail tunnels	0	0	0	-	-
126	21.6	<u>Historical railways</u>	0	0	1	-	-
127	21.7	Railways	0	0	0	-	-
127	21.8	Crossrail 1	0	0	0	0	-
127	21.9	Crossrail 2	0	0	0	0	-
127	21.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 30/05/2021

Site Area: 0.42ha



Recent site history - 2018 aerial photograph



Capture Date: 02/07/2018

Site Area: 0.42ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.42ha



Recent site history - 1999 aerial photograph

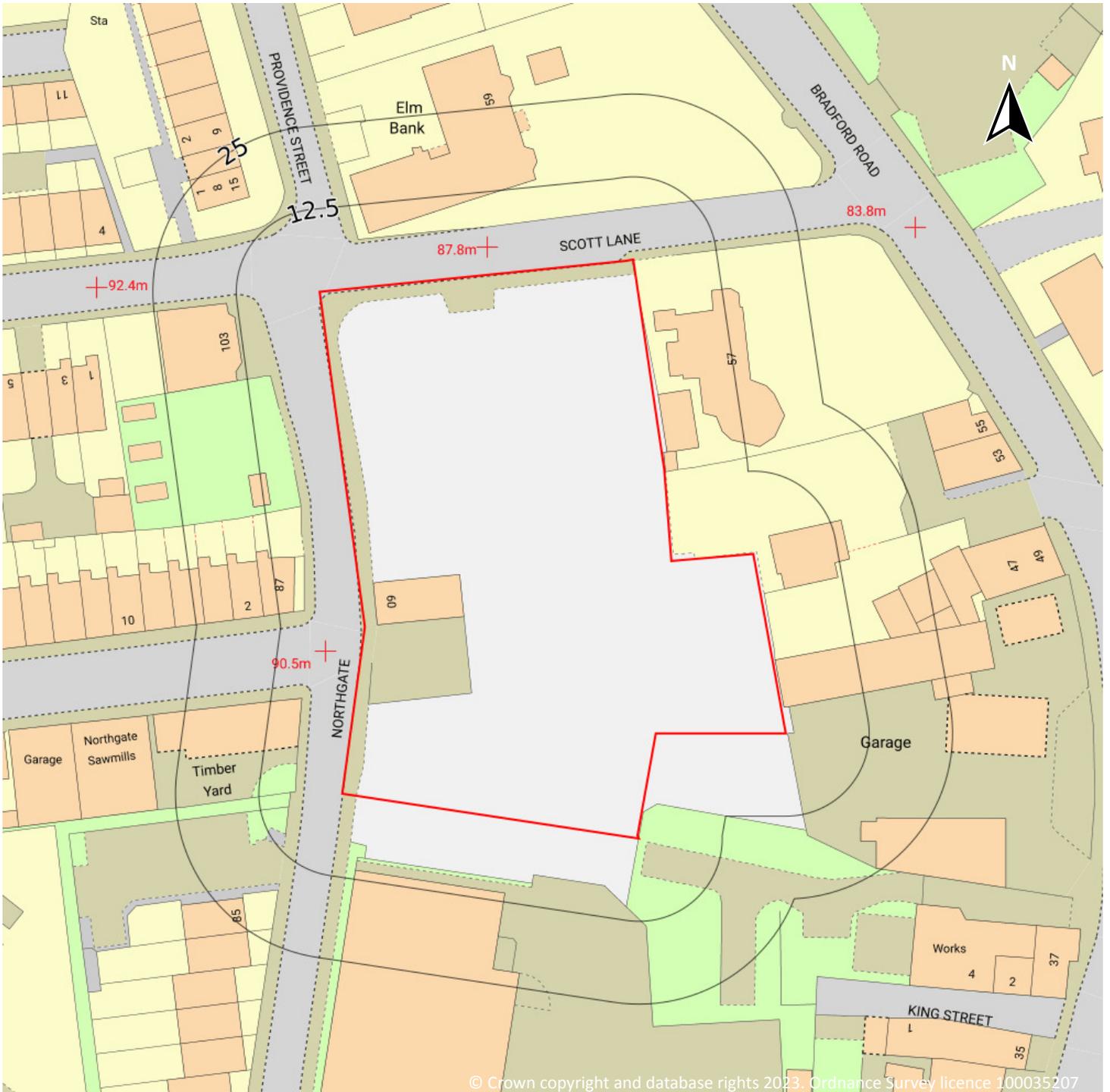


Capture Date: 10/07/1999

Site Area: 0.42ha



OS MasterMap site plan

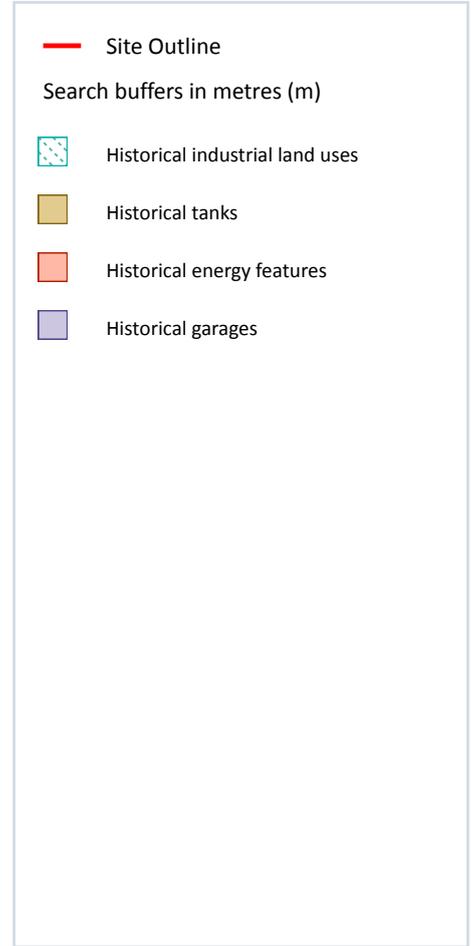
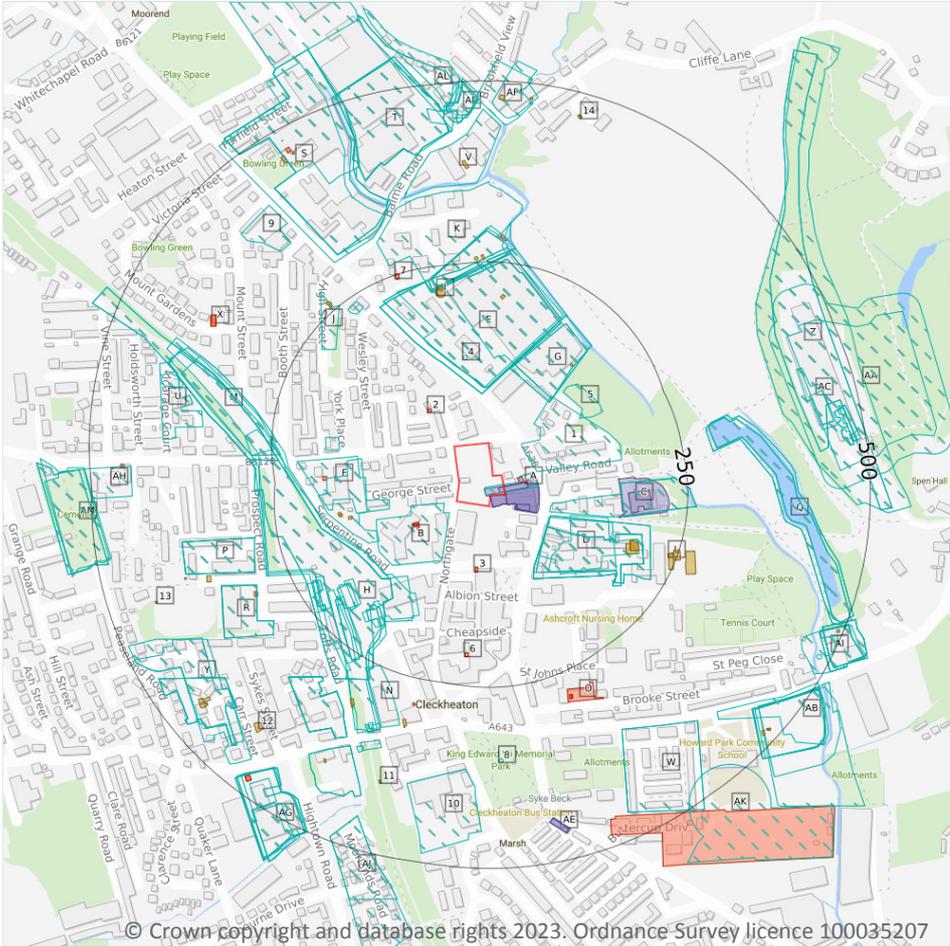


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Site Area: 0.42ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m **154**

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 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Foundry	1983 - 1990	1528948



ID	Location	Land use	Dates present	Group ID
B	18m SW	Unspecified Mills	1974 - 1990	1463766
1	44m E	Tannery	1892	1456300
C	64m SE	Unspecified Works	1967 - 1974	1486346
D	67m SE	Unspecified Works	1983 - 1990	1501970
D	69m SE	Unspecified Mills	1955	1519619
D	69m SE	Unspecified Commercial/Industrial	1967 - 1974	1552785
E	69m N	Unspecified Mills	1905	1511670
E	69m N	Unspecified Mills	1938	1521601
E	69m N	Unspecified Mills	1892	1540680
D	72m SE	Unspecified Disused Mills	1938	1456860
D	72m SE	Unspecified Mills	1905	1532729
D	72m SE	Unspecified Mills	1948	1538091
E	77m N	Unspecified Mills	1990	1483990
E	77m N	Unspecified Mills	1983	1543045
E	78m N	Unspecified Mills	1948	1486622
F	92m W	Unspecified Works	1974 - 1990	1514831
D	93m SE	Unspecified Mills	1892	1469663
G	97m NE	Unspecified Disused Mills	1938	1456862
G	97m NE	Unspecified Mills	1948	1496005
G	104m NE	Unspecified Mills	1955 - 1967	1498138
G	104m NE	Unspecified Works	1974 - 1990	1514872
E	115m N	Unspecified Mills	1955 - 1974	1539606
F	117m SW	Unspecified Works	1967	1545311
4	117m N	Unspecified Tank	1892	1433550
H	123m SW	Railway Sidings	1967	1484311
5	124m NE	Unspecified Heap	1967 - 1990	1511234
H	134m SW	Railway Sidings	1955	1497109
H	140m SW	Railway Sidings	1892	1517967



ID	Location	Land use	Dates present	Group ID
H	140m SW	Railway Sidings	1905	1551291
H	141m SW	Railway Sidings	1938 - 1948	1494480
F	157m W	Police Station	1974 - 1990	1531594
C	159m E	Unspecified Commercial/Industrial	1983	1410536
H	178m SW	Railway Building	1938 - 1955	1491422
H	180m SW	Railway Building	1905	1503015
H	180m SW	Railway Building	1938 - 1948	1514179
H	184m SW	Railway Building	1967	1459722
H	184m SW	Railway Building	1892	1536031
H	190m SW	Railway Building	1892 - 1905	1542726
H	203m SW	Railway Station	1938 - 1955	1480557
H	208m SW	Railway Station	1967	1549331
H	208m SW	Railway Station	1892	1545599
H	209m SW	Railway Station	1905	1537666
H	209m SW	Railway Building	1955 - 1967	1495363
J	210m NW	Unspecified Mill	1892	1421632
K	215m N	Unspecified Mills	1892 - 1905	1539397
H	216m SW	Railway Buildings	1938 - 1948	1520362
H	216m SW	Railway Buildings	1905	1555165
K	218m N	Unspecified Mills	1948	1471714
K	218m N	Unspecified Mills	1938	1515177
H	220m SW	Railway Building	1892	1471511
K	221m N	Wire Mills	1967	1411065
K	224m N	Unspecified Mills	1955	1526172
J	226m NW	Smithy	1905	1457057
M	238m W	Cuttings	1974 - 1990	1515525
M	241m W	Cuttings	1938 - 1948	1483120
M	241m W	Cuttings	1892 - 1905	1501181



ID	Location	Land use	Dates present	Group ID
M	246m W	Cuttings	1955 - 1967	1483132
N	249m SW	Telephone Exchange	1974 - 1990	1468240
P	282m W	Unspecified Old Mills	1990	1436433
P	282m W	Unspecified Works	1967	1438281
P	282m W	Unspecified Mills	1974 - 1983	1459924
Q	287m E	Mill Pond	1938 - 1948	1533475
Q	287m E	Mill Pond	1905	1555028
Q	292m E	Mill Pond	1990	1463809
Q	292m E	Mill Pond	1955 - 1967	1504228
R	297m SW	Umber Works	1990	1409170
R	297m SW	Unspecified Works	1983	1438280
S	302m NW	Unspecified Mills	1892 - 1905	1478987
N	304m SW	Unspecified Mills	1892	1468555
N	304m SW	Unspecified Commercial/Industrial	1931	1501839
N	304m SW	Unspecified Commercial/Industrial	1948	1510286
N	304m SW	Unspecified Mills	1905	1516168
S	309m NW	Unspecified Mill	1974 - 1990	1540833
S	309m NW	Unspecified Mills	1967 - 1990	1462871
S	309m NW	Unspecified Mills	1967	1479482
N	324m S	Railway Building	1974 - 1990	1496998
N	326m SW	Railway Building	1955	1460027
N	331m SW	Railway Building	1905 - 1931	1478334
N	331m SW	Railway Building	1948	1531934
T	345m N	Unspecified Mills	1938 - 1948	1492296
U	345m W	Unspecified Works	1967	1438277
N	346m S	Railway Buildings	1974 - 1990	1534934
8	349m S	Unspecified Tank	1955	1433549
V	349m N	Unspecified Mill	1938 - 1967	1548084



ID	Location	Land use	Dates present	Group ID
W	358m SE	Unspecified Mills	1967	1419199
W	358m SE	Unspecified Commercial/Industrial	1974 - 1990	1464944
9	359m NW	Unspecified Works	1990	1438274
N	362m SW	Railway Building	1955	1429146
10	364m S	Bus Station	1990	1456827
N	368m SW	Unspecified Commercial/Industrial	1892 - 1931	1525201
N	368m SW	Unspecified Commercial/Industrial	1948	1535273
U	381m W	Refuse Heap	1938 - 1948	1459526
T	387m N	Unspecified Mills	1955	1474961
T	387m N	Unspecified Commercial/Industrial	1974 - 1990	1487350
T	387m N	Unspecified Mills	1967	1550133
Y	391m SW	Unspecified Mill	1983	1537084
Z	393m E	Railway Sidings	1955 - 1967	1472077
Y	396m SW	Unspecified Mill	1967	1477533
Y	400m SW	Unspecified Commercial/Industrial	1948	1478525
Y	400m SW	Unspecified Commercial/Industrial	1905 - 1931	1539904
Y	400m SW	Unspecified Commercial/Industrial	1892	1552078
S	401m NW	Unspecified Mill	1990	1480132
AA	409m E	Unspecified Works	1983 - 1990	1493087
AB	417m SE	Unspecified Mills	1892 - 1905	1532130
Z	418m E	Railway Sidings	1905	1476099
Z	418m E	Railway Sidings	1938 - 1948	1480696
AC	429m E	Steel Works	1967	1421047
AD	433m N	Unspecified Mill	1892	1479174
AA	434m E	Unspecified Works	1974	1489517
AC	436m E	Railway Building	1955	1429147
AF	440m N	Iron Works	1892 - 1905	1476614
AG	442m SW	Unspecified Mills	1967	1552256



ID	Location	Land use	Dates present	Group ID
AG	442m SW	Unspecified Mills	1955	1553158
AD	443m N	Unspecified Mill	1967	1510735
AD	443m N	Unspecified Commercial/Industrial	1974 - 1990	1541354
AG	443m SW	Unspecified Mills	1938	1515323
AH	443m W	Unspecified Works	1967	1438278
AG	445m SW	Unspecified Mills	1931	1540727
AG	446m SW	Unspecified Mills	1948	1549668
AB	449m SE	Unspecified Mills	1948	1458900
AB	449m SE	Unspecified Mills	1931	1471913
AF	450m N	Unspecified Mill	1948 - 1955	1459095
AD	450m N	Unspecified Mill	1938 - 1948	1531938
AB	450m SE	Unspecified Mills	1931 - 1938	1531106
AB	453m SE	Unspecified Old Mills	1955	1436432
AI	453m SE	Unspecified Mills	1892	1533201
AB	453m SE	Unspecified Works	1974 - 1990	1502519
AB	453m SE	Unspecified Mills	1967	1547072
AD	454m N	Unspecified Mills	1955	1419198
AJ	455m S	Unspecified Works	1974 - 1990	1480556
AJ	455m S	Unspecified Works	1983 - 1985	1486665
AG	461m SW	Fire Engine Station	1983 - 1990	1487447
AL	462m N	Mill Pond	1938 - 1948	1517534
AL	462m N	Mill Pond	1892 - 1905	1543720
AC	464m E	Railway Building	1905	1429148
AC	464m E	Goods Shed	1938 - 1948	1552290
AC	469m E	Goods Shed	1955	1515554
AI	470m SE	Unspecified Mills	1938	1476303
AI	470m SE	Unspecified Mills	1948	1518305
AI	470m SE	Unspecified Mills	1905	1491043



ID	Location	Land use	Dates present	Group ID
AL	471m N	Mill Pond	1955	1481755
AC	471m E	Goods Station	1967	1430921
AK	471m SE	Destructor	1948 - 1955	1461596
AI	471m SE	Unspecified Commercial/Industrial	1974	1410537
AI	471m SE	Unspecified Mills	1983 - 1990	1497398
AI	471m SE	Unspecified Mills	1955 - 1967	1542090
AM	480m W	Cemetery	1955	1506121
AG	481m SW	Unspecified Mills	1892 - 1905	1462194
AI	482m SE	Unspecified Tank	1892	1433548
AM	482m W	Cemetery	1967 - 1990	1486793
AM	485m W	Cemetery	1892 - 1905	1513924
AM	485m W	Cemetery	1938 - 1948	1517022
AG	485m SW	Unspecified Mills	1974 - 1990	1509088

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

37

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
F	145m W	Tanks	1922	230743
G	155m NE	Unspecified Tank	1922	224134
F	157m W	Tanks	1922	230741
F	159m W	Unspecified Tank	1894 - 1907	234682
D	178m SE	Unspecified Tank	1922 - 1938	248781



ID	Location	Land use	Dates present	Group ID
D	182m SE	Unspecified Tank	1956	242488
D	183m SE	Unspecified Tank	1956	250071
E	200m N	Unspecified Tank	1922 - 1938	247486
I	206m N	Unspecified Tank	1994	236313
I	215m N	Unspecified Tank	1985	234343
L	237m SE	Tanks	1956 - 1965	250029
L	239m E	Tanks	1965 - 1968	249630
L	243m E	Tanks	1956 - 1965	242083
K	253m N	Unspecified Tank	1922	224133
K	253m N	Tanks	1907 - 1922	241613
J	254m NW	Tanks	1894	230742
L	259m E	Tanks	1956 - 1968	246393
N	307m SW	Tanks	1922 - 1938	246794
N	309m S	Tanks	1933	230749
P	352m W	Unspecified Tank	1938	224135
V	380m N	Tanks	1922	230740
P	385m W	Unspecified Tank	1981 - 1988	245352
11	398m S	Unspecified Tank	1933	224136
N	398m SW	Unspecified Tank	1922 - 1938	242551
12	406m SW	Tanks	1933	230748
13	433m W	Unspecified Tank	1957	224145
Y	433m SW	Tanks	1938	230744
Y	441m SW	Tanks	1938	230745
S	459m NW	Unspecified Tank	1972 - 1999	235423
14	465m N	Unspecified Tank	1956 - 1994	249462
AF	473m N	Unspecified Tank	1933	224128
AF	477m N	Unspecified Tank	1938	224131
AB	479m SE	Tanks	1938	230694



ID	Location	Land use	Dates present	Group ID
AB	482m SE	Unspecified Tank	1989	246966
AB	483m SE	Unspecified Tank	1956 - 1994	236852
AB	484m SE	Unspecified Tank	1956 - 1968	243626
AI	491m SE	Unspecified Tank	1956	235856

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	22
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	20m E	Electricity Substation	1956	145891
2	57m NW	Electricity Substation	1975 - 1994	145748
B	60m SW	Electricity Substation	1985 - 1994	136751
B	60m SW	Electricity Substation	1975	143772
3	85m S	Electricity Substation	1989 - 1994	137482
F	179m W	Electricity Substation	1975 - 1994	135500
6	204m S	Electricity Substation	1989 - 1994	144101
7	243m N	Electricity Substation	1975 - 1994	146715
O	274m SE	Electricity Substation	1994	133806
K	280m N	Electricity Substation	1956	138543
O	283m SE	Electricity Substation	1994	132381
O	283m SE	Electricity Substation	1989	132602
N	284m S	Gas Governor	1981 - 1988	135179
R	300m SW	Electricity Substation	1981 - 1988	138927



ID	Location	Land use	Dates present	Group ID
X	366m NW	Electricity Substation	1985	145429
X	367m NW	Electricity Substation	1975 - 1994	144746
AH	454m W	Electricity Substation	1975 - 1994	146195
S	455m NW	Electricity Substation	1972	129295
AK	461m S	Urban District Council Electricity Works and Destructor	1907	131712
S	465m NW	Electricity Substation	1992 - 1999	140640
AG	472m SW	Electricity Substation	1971	134415
AG	473m SW	Electricity Substation	1981 - 1988	135396

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

10

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

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1965	41648
A	On site	Garage	1985	42532
A	On site	Garage	1956	42937



ID	Location	Land use	Dates present	Group ID
A	On site	Garage	1968	43420
A	On site	Garage	1956	43867
A	0m SE	Garage	1994	44738
C	157m E	Garage	1994	45648
C	168m E	Garage	1985	44043
AE	439m S	Garage	1956 - 1994	44378
AE	439m S	Garage	1989	42242

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

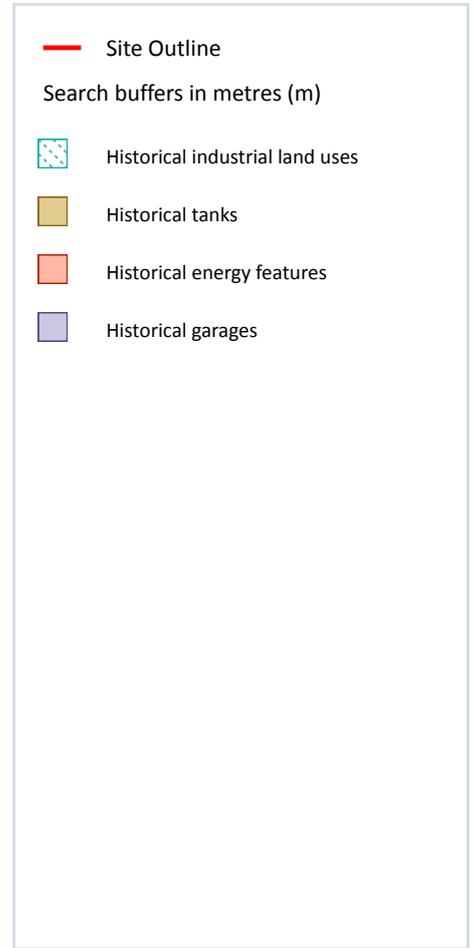
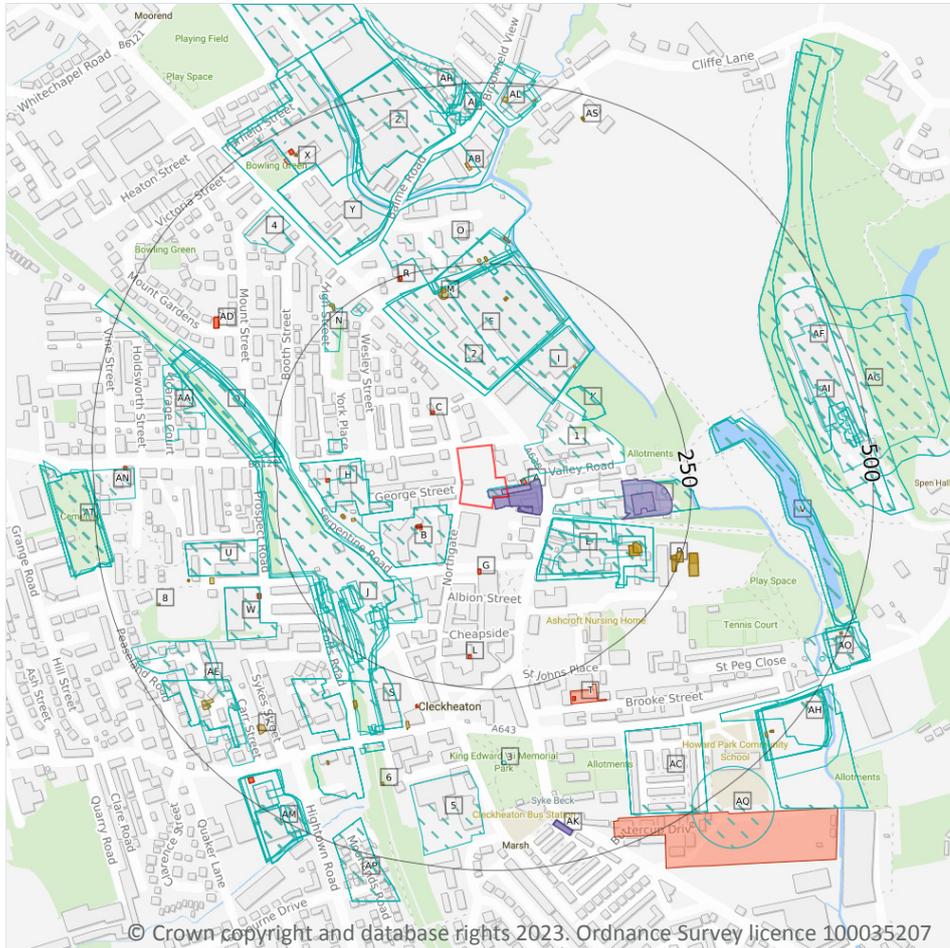
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

246

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 Foundry	1990	1528948
A	On site	Unspecified Foundry	1983	1528948
B	18m SW	Unspecified Mills	1990	1463766

ID	Location	Land Use	Date	Group ID
B	18m SW	Unspecified Mills	1983	1463766
B	18m SW	Unspecified Mills	1974	1463766
1	44m E	Tannery	1892	1456300
D	64m SE	Unspecified Works	1967	1486346
E	67m SE	Unspecified Works	1990	1501970
E	67m SE	Unspecified Works	1983	1501970
E	69m SE	Unspecified Mills	1955	1519619
E	69m SE	Unspecified Commercial/Industrial	1974	1552785
E	69m SE	Unspecified Commercial/Industrial	1967	1552785
F	69m N	Unspecified Mills	1892	1540680
F	69m N	Unspecified Mills	1938	1521601
F	69m N	Unspecified Mills	1905	1511670
E	72m SE	Unspecified Mills	1948	1538091
E	72m SE	Unspecified Disused Mills	1938	1456860
E	72m SE	Unspecified Mills	1905	1532729
F	77m N	Unspecified Mills	1990	1483990
F	77m N	Unspecified Mills	1983	1543045
F	78m N	Unspecified Mills	1948	1486622
H	92m W	Unspecified Works	1990	1514831
H	92m W	Unspecified Works	1983	1514831
H	92m W	Unspecified Works	1974	1514831
E	93m SE	Unspecified Mills	1892	1469663
I	97m NE	Unspecified Mills	1948	1496005
I	97m NE	Unspecified Disused Mills	1938	1456862
I	104m NE	Unspecified Mills	1955	1498138
I	104m NE	Unspecified Works	1990	1514872
I	104m NE	Unspecified Works	1983	1514872
I	104m NE	Unspecified Works	1974	1514872



ID	Location	Land Use	Date	Group ID
I	104m NE	Unspecified Mills	1967	1498138
F	115m N	Unspecified Mills	1955	1539606
F	115m N	Unspecified Mills	1974	1539606
F	115m N	Unspecified Mills	1967	1539606
H	117m SW	Unspecified Works	1967	1545311
2	117m N	Unspecified Tank	1892	1433550
J	123m SW	Railway Sidings	1967	1484311
K	124m NE	Unspecified Heap	1990	1511234
K	124m NE	Unspecified Heap	1983	1511234
K	124m NE	Unspecified Heap	1974	1511234
K	124m NE	Unspecified Heap	1967	1511234
J	134m SW	Railway Sidings	1955	1497109
J	140m SW	Railway Sidings	1892	1517967
J	140m SW	Railway Sidings	1905	1551291
J	141m SW	Railway Sidings	1948	1494480
J	141m SW	Railway Sidings	1938	1494480
H	157m W	Police Station	1990	1531594
H	157m W	Police Station	1983	1531594
H	157m W	Police Station	1974	1531594
D	159m E	Unspecified Commercial/Industrial	1983	1410536
D	159m E	Unspecified Works	1974	1486346
J	178m SW	Railway Building	1955	1491422
J	180m SW	Railway Building	1948	1514179
J	180m SW	Railway Building	1938	1514179
J	180m SW	Railway Building	1905	1503015
J	184m SW	Railway Building	1967	1459722
J	184m SW	Railway Building	1892	1536031
J	190m SW	Railway Building	1892	1542726



ID	Location	Land Use	Date	Group ID
J	190m SW	Railway Building	1948	1491422
J	190m SW	Railway Building	1938	1491422
J	190m SW	Railway Building	1905	1542726
J	203m SW	Railway Station	1955	1480557
J	208m SW	Railway Station	1967	1549331
J	208m SW	Railway Station	1892	1545599
J	209m SW	Railway Station	1948	1480557
J	209m SW	Railway Station	1938	1480557
J	209m SW	Railway Station	1905	1537666
J	209m SW	Railway Building	1955	1495363
J	210m SW	Railway Building	1967	1495363
N	210m NW	Unspecified Mill	1892	1421632
O	215m N	Unspecified Mills	1892	1539397
O	215m N	Unspecified Mills	1905	1539397
J	216m SW	Railway Buildings	1948	1520362
J	216m SW	Railway Buildings	1938	1520362
J	216m SW	Railway Buildings	1905	1555165
O	218m N	Unspecified Mills	1948	1471714
O	218m N	Unspecified Mills	1938	1515177
J	220m SW	Railway Building	1892	1471511
O	221m N	Wire Mills	1967	1411065
O	224m N	Unspecified Mills	1955	1526172
N	226m NW	Smithy	1905	1457057
Q	238m W	Cuttings	1990	1515525
Q	238m W	Cuttings	1983	1515525
Q	238m W	Cuttings	1974	1515525
Q	241m W	Cuttings	1892	1501181
Q	241m W	Cuttings	1948	1483120



ID	Location	Land Use	Date	Group ID
Q	241m W	Cuttings	1938	1483120
Q	241m W	Cuttings	1905	1501181
Q	246m W	Cuttings	1967	1483132
Q	247m W	Cuttings	1955	1483132
S	249m SW	Telephone Exchange	1990	1468240
S	249m SW	Telephone Exchange	1983	1468240
S	249m SW	Telephone Exchange	1974	1468240
U	282m W	Unspecified Old Mills	1990	1436433
U	282m W	Unspecified Mills	1983	1459924
U	282m W	Unspecified Mills	1974	1459924
U	282m W	Unspecified Works	1967	1438281
V	287m E	Mill Pond	1948	1533475
V	287m E	Mill Pond	1938	1533475
V	287m E	Mill Pond	1905	1555028
V	292m E	Mill Pond	1955	1504228
V	292m E	Mill Pond	1990	1463809
V	292m E	Mill Pond	1967	1504228
W	297m SW	Umber Works	1990	1409170
W	297m SW	Unspecified Works	1983	1438280
X	302m NW	Unspecified Mills	1892	1478987
X	302m NW	Unspecified Mills	1905	1478987
S	304m SW	Unspecified Commercial/Industrial	1948	1510286
S	304m SW	Unspecified Commercial/Industrial	1931	1501839
S	304m SW	Unspecified Mills	1905	1516168
S	304m SW	Unspecified Mills	1892	1468555
Y	309m NW	Unspecified Mill	1990	1540833
Y	309m NW	Unspecified Mill	1983	1540833
Y	309m NW	Unspecified Mill	1974	1540833



ID	Location	Land Use	Date	Group ID
X	309m NW	Unspecified Mills	1990	1462871
X	309m NW	Unspecified Mills	1983	1462871
X	309m NW	Unspecified Mills	1974	1462871
X	309m NW	Unspecified Mills	1967	1479482
X	309m NW	Unspecified Mills	1967	1462871
S	324m S	Railway Building	1990	1496998
S	324m S	Railway Building	1983	1496998
S	324m S	Railway Building	1974	1496998
S	326m SW	Railway Building	1955	1460027
S	331m SW	Railway Building	1948	1531934
S	331m SW	Railway Building	1931	1478334
S	331m SW	Railway Building	1905	1478334
Z	345m N	Unspecified Mills	1948	1492296
Z	345m N	Unspecified Mills	1938	1492296
AA	345m W	Unspecified Works	1967	1438277
S	346m S	Railway Buildings	1990	1534934
S	346m S	Railway Buildings	1983	1534934
S	346m S	Railway Buildings	1974	1534934
3	349m S	Unspecified Tank	1955	1433549
AB	349m N	Unspecified Mill	1948	1548084
AB	349m N	Unspecified Mill	1938	1548084
AB	355m N	Unspecified Mill	1955	1548084
AB	355m N	Unspecified Mill	1967	1548084
AC	358m SE	Unspecified Commercial/Industrial	1990	1464944
AC	358m SE	Unspecified Commercial/Industrial	1983	1464944
AC	358m SE	Unspecified Commercial/Industrial	1974	1464944
AC	358m SE	Unspecified Mills	1967	1419199
4	359m NW	Unspecified Works	1990	1438274



ID	Location	Land Use	Date	Group ID
S	362m SW	Railway Building	1955	1429146
5	364m S	Bus Station	1990	1456827
S	368m SW	Unspecified Commercial/Industrial	1948	1535273
S	368m SW	Unspecified Commercial/Industrial	1931	1525201
S	368m SW	Unspecified Commercial/Industrial	1905	1525201
S	368m SW	Unspecified Commercial/Industrial	1892	1525201
AA	381m W	Refuse Heap	1948	1459526
AA	381m W	Refuse Heap	1938	1459526
Z	387m N	Unspecified Mills	1955	1474961
Z	387m N	Unspecified Commercial/Industrial	1990	1487350
Z	387m N	Unspecified Commercial/Industrial	1983	1487350
Z	387m N	Unspecified Commercial/Industrial	1974	1487350
Z	387m N	Unspecified Mills	1967	1550133
AE	391m SW	Unspecified Mill	1983	1537084
AF	393m E	Railway Sidings	1955	1472077
AF	393m E	Railway Sidings	1967	1472077
AE	396m SW	Unspecified Mill	1967	1477533
AE	400m SW	Unspecified Commercial/Industrial	1948	1478525
AE	400m SW	Unspecified Commercial/Industrial	1931	1539904
AE	400m SW	Unspecified Commercial/Industrial	1905	1539904
AE	400m SW	Unspecified Commercial/Industrial	1892	1552078
X	401m NW	Unspecified Mill	1990	1480132
X	401m NW	Unspecified Mill	1983	1540833
X	401m NW	Unspecified Mill	1974	1540833
AG	409m E	Unspecified Works	1990	1493087
AG	409m E	Unspecified Works	1983	1493087
AH	417m SE	Unspecified Mills	1905	1532130
AH	417m SE	Unspecified Mills	1892	1532130



ID	Location	Land Use	Date	Group ID
AF	418m E	Railway Sidings	1948	1480696
AF	418m E	Railway Sidings	1938	1480696
AF	418m E	Railway Sidings	1905	1476099
AI	429m E	Steel Works	1967	1421047
AJ	433m N	Unspecified Mill	1892	1479174
AG	434m E	Unspecified Works	1974	1489517
AI	436m E	Railway Building	1955	1429147
AL	440m N	Iron Works	1892	1476614
AL	440m N	Iron Works	1905	1476614
AM	442m SW	Unspecified Mills	1955	1553158
AM	442m SW	Unspecified Mills	1967	1552256
AJ	443m N	Unspecified Commercial/Industrial	1990	1541354
AJ	443m N	Unspecified Commercial/Industrial	1983	1541354
AJ	443m N	Unspecified Commercial/Industrial	1974	1541354
AJ	443m N	Unspecified Mill	1967	1510735
AM	443m SW	Unspecified Mills	1938	1515323
AN	443m W	Unspecified Works	1967	1438278
AM	445m SW	Unspecified Mills	1931	1540727
AM	446m SW	Unspecified Mills	1948	1549668
AM	446m SW	Unspecified Mills	1931	1540727
AH	449m SE	Unspecified Mills	1948	1458900
AH	449m SE	Unspecified Mills	1931	1471913
AL	450m N	Unspecified Mill	1948	1459095
AJ	450m N	Unspecified Mill	1948	1531938
AJ	450m N	Unspecified Mill	1938	1531938
AH	450m SE	Unspecified Mills	1938	1531106
AL	452m N	Unspecified Mill	1955	1459095
AH	453m SE	Unspecified Mills	1931	1531106



ID	Location	Land Use	Date	Group ID
AH	453m SE	Unspecified Mills	1931	1531106
AH	453m SE	Unspecified Old Mills	1955	1436432
AO	453m SE	Unspecified Mills	1892	1533201
AH	453m SE	Unspecified Works	1990	1502519
AH	453m SE	Unspecified Works	1983	1502519
AH	453m SE	Unspecified Works	1974	1502519
AH	453m SE	Unspecified Mills	1967	1547072
AJ	454m N	Unspecified Mills	1955	1419198
AP	455m S	Unspecified Works	1990	1480556
AP	455m S	Unspecified Works	1983	1486665
AP	455m S	Unspecified Works	1974	1480556
AM	461m SW	Fire Engine Station	1990	1487447
AM	461m SW	Fire Engine Station	1983	1487447
AR	462m N	Mill Pond	1892	1543720
AR	462m N	Mill Pond	1948	1517534
AR	462m N	Mill Pond	1938	1517534
AR	462m N	Mill Pond	1905	1543720
AI	464m E	Goods Shed	1948	1552290
AI	464m E	Goods Shed	1938	1552290
AI	464m E	Railway Building	1905	1429148
AI	469m E	Goods Shed	1955	1515554
AO	470m SE	Unspecified Mills	1948	1518305
AO	470m SE	Unspecified Mills	1938	1476303
AO	470m SE	Unspecified Mills	1905	1491043
AR	471m N	Mill Pond	1955	1481755
AI	471m E	Goods Station	1967	1430921
AQ	471m SE	Destructor	1948	1461596
AO	471m SE	Unspecified Mills	1955	1542090



ID	Location	Land Use	Date	Group ID
AO	471m SE	Unspecified Mills	1990	1497398
AO	471m SE	Unspecified Mills	1983	1497398
AO	471m SE	Unspecified Commercial/Industrial	1974	1410537
AO	471m SE	Unspecified Mills	1967	1542090
AT	480m W	Cemetery	1955	1506121
AM	481m SW	Unspecified Mills	1905	1462194
AM	481m SW	Unspecified Mills	1892	1462194
AO	482m SE	Unspecified Tank	1892	1433548
AT	482m W	Cemetery	1990	1486793
AT	482m W	Cemetery	1983	1486793
AT	482m W	Cemetery	1974	1486793
AT	482m W	Cemetery	1967	1486793
AT	485m W	Cemetery	1892	1513924
AT	485m W	Cemetery	1948	1517022
AT	485m W	Cemetery	1938	1517022
AT	485m W	Cemetery	1905	1513924
AM	485m SW	Unspecified Mills	1990	1509088
AM	485m SW	Unspecified Mills	1983	1509088
AM	485m SW	Unspecified Mills	1974	1509088

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

70

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
H	145m W	Tanks	1922	230743



ID	Location	Land Use	Date	Group ID
I	155m NE	Unspecified Tank	1922	224134
H	157m W	Tanks	1922	230741
H	159m W	Unspecified Tank	1894	234682
H	159m W	Unspecified Tank	1907	234682
E	178m SE	Unspecified Tank	1922	248781
E	178m SE	Unspecified Tank	1933	248781
E	178m SE	Unspecified Tank	1938	248781
E	182m SE	Unspecified Tank	1956	242488
E	183m SE	Unspecified Tank	1956	250071
F	200m N	Unspecified Tank	1922	247486
F	200m N	Unspecified Tank	1933	247486
F	201m N	Unspecified Tank	1938	247486
M	206m N	Unspecified Tank	1994	236313
M	215m N	Unspecified Tank	1985	234343
P	237m SE	Tanks	1965	250029
P	237m SE	Tanks	1956	250029
P	239m E	Tanks	1968	249630
P	239m E	Tanks	1956	250029
P	240m SE	Tanks	1965	249630
P	243m E	Tanks	1965	242083
P	243m E	Tanks	1956	242083
O	253m N	Unspecified Tank	1922	224133
O	253m N	Tanks	1907	241613
O	253m N	Tanks	1922	241613
N	254m NW	Tanks	1894	230742
P	259m E	Tanks	1956	246393
P	260m E	Tanks	1965	246393
P	260m E	Tanks	1956	246393



ID	Location	Land Use	Date	Group ID
P	260m E	Tanks	1968	246393
S	307m SW	Tanks	1938	246794
S	307m SW	Tanks	1922	246794
S	309m S	Tanks	1933	230749
U	352m W	Unspecified Tank	1938	224135
AB	380m N	Tanks	1922	230740
U	385m W	Unspecified Tank	1985	245352
U	385m W	Unspecified Tank	1981	245352
U	385m W	Unspecified Tank	1988	245352
U	385m W	Unspecified Tank	1988	245352
6	398m S	Unspecified Tank	1933	224136
S	398m SW	Unspecified Tank	1938	242551
S	398m SW	Unspecified Tank	1922	242551
7	406m SW	Tanks	1933	230748
8	433m W	Unspecified Tank	1957	224145
AE	433m SW	Tanks	1938	230744
AE	441m SW	Tanks	1938	230745
X	459m NW	Unspecified Tank	1994	235423
X	459m NW	Unspecified Tank	1992	235423
X	459m NW	Unspecified Tank	1997	235423
X	459m NW	Unspecified Tank	1995	235423
X	459m NW	Unspecified Tank	1999	235423
X	459m NW	Unspecified Tank	1994	235423
X	460m NW	Unspecified Tank	1972	235423
AS	465m N	Unspecified Tank	1994	249462
AS	465m N	Unspecified Tank	1994	249462
AS	466m N	Unspecified Tank	1956	249462
AS	466m N	Unspecified Tank	1956	249462



ID	Location	Land Use	Date	Group ID
AS	466m N	Unspecified Tank	1992	249462
AL	473m N	Unspecified Tank	1933	224128
AL	477m N	Unspecified Tank	1938	224131
AH	479m SE	Tanks	1938	230694
AH	482m SE	Unspecified Tank	1989	246966
AH	483m SE	Unspecified Tank	1965	236852
AH	483m SE	Unspecified Tank	1956	236852
AH	483m SE	Unspecified Tank	1994	236852
AH	483m SE	Unspecified Tank	1994	236852
AH	484m SE	Unspecified Tank	1968	243626
AH	484m SE	Unspecified Tank	1956	243626
AO	491m SE	Unspecified Tank	1956	235856
AO	492m SE	Unspecified Tank	1956	235856

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	51
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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	20m E	Electricity Substation	1956	145891
A	21m E	Electricity Substation	1956	145891
C	57m NW	Electricity Substation	1994	145748
C	58m NW	Electricity Substation	1975	145748
C	58m NW	Electricity Substation	1985	145748
B	60m SW	Electricity Substation	1985	136751
B	60m SW	Electricity Substation	1975	143772



ID	Location	Land Use	Date	Group ID
B	60m SW	Electricity Substation	1994	136751
G	85m S	Electricity Substation	1994	137482
G	85m S	Electricity Substation	1994	137482
G	86m S	Electricity Substation	1989	137482
H	179m W	Electricity Substation	1985	135500
H	179m W	Electricity Substation	1994	135500
H	180m W	Electricity Substation	1975	135500
L	204m S	Electricity Substation	1994	144101
L	204m S	Electricity Substation	1994	144101
L	205m S	Electricity Substation	1989	144101
R	243m N	Electricity Substation	1994	146715
R	245m N	Electricity Substation	1975	146715
R	245m N	Electricity Substation	1985	146715
T	274m SE	Electricity Substation	1994	133806
O	280m N	Electricity Substation	1956	138543
O	280m N	Electricity Substation	1956	138543
T	283m SE	Electricity Substation	1994	132381
T	283m SE	Electricity Substation	1989	132602
S	284m S	Gas Governor	1985	135179
S	284m S	Gas Governor	1981	135179
S	284m S	Gas Governor	1988	135179
S	284m S	Gas Governor	1988	135179
W	300m SW	Electricity Substation	1985	138927
W	300m SW	Electricity Substation	1981	138927
W	300m SW	Electricity Substation	1988	138927
W	300m SW	Electricity Substation	1988	138927
AD	366m NW	Electricity Substation	1985	145429
AD	367m NW	Electricity Substation	1975	144746



ID	Location	Land Use	Date	Group ID
AD	367m NW	Electricity Substation	1994	144746
AN	454m W	Electricity Substation	1985	146195
AN	454m W	Electricity Substation	1975	146195
AN	454m W	Electricity Substation	1994	146195
X	455m NW	Electricity Substation	1972	129295
AQ	461m S	Urban District Council Electricity Works and Destructor	1907	131712
X	465m NW	Electricity Substation	1997	140640
X	465m NW	Electricity Substation	1995	140640
X	465m NW	Electricity Substation	1999	140640
X	465m NW	Electricity Substation	1994	140640
X	465m NW	Electricity Substation	1994	140640
X	465m NW	Electricity Substation	1992	140640
AM	472m SW	Electricity Substation	1971	134415
AM	473m SW	Electricity Substation	1985	135396
AM	473m SW	Electricity Substation	1981	135396
AM	473m SW	Electricity Substation	1988	135396

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

17

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'.

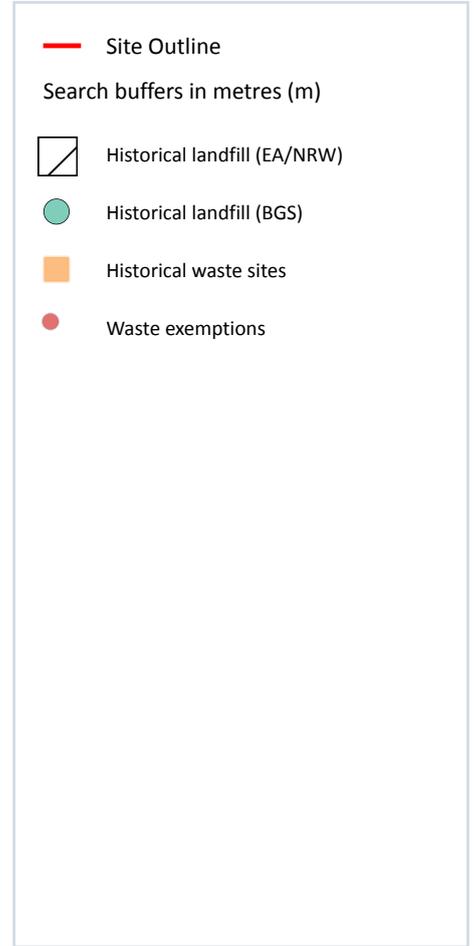
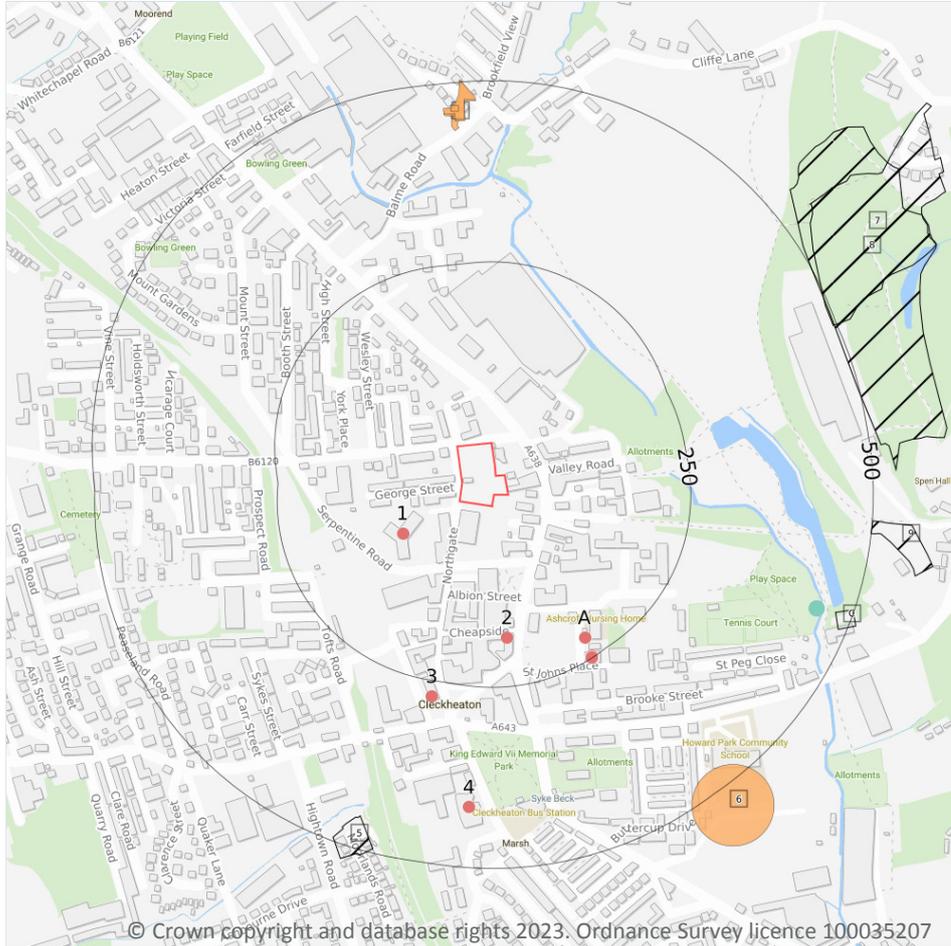


Features are displayed on the Past land use - un-grouped map on **page 24**

ID	Location	Land Use	Date	Group ID
A	On site	Garage	1985	42532
A	On site	Garage	1968	43420
A	On site	Garage	1956	43867
A	On site	Garage	1965	41648
A	On site	Garage	1956	42937
A	0m SE	Garage	1994	44738
A	0m SE	Garage	1994	44738
D	157m E	Garage	1994	45648
D	157m E	Garage	1994	45648
D	168m E	Garage	1985	44043
AK	439m S	Garage	1968	44378
AK	439m S	Garage	1956	44378
AK	439m S	Garage	1989	42242
AK	439m S	Garage	1965	44378
AK	439m S	Garage	1956	44378
AK	439m S	Garage	1994	44378
AK	439m S	Garage	1994	44378

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

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 40**

ID	Location	Address	BGS Number	Risk	Waste Type
C	451m E	Mann Dam, Spen Lane, Gomersal, Cleckheaton, Yorks	1143	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	0
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Landfill sites identified from Local Authority records and high detail historical mapping.

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	5
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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 40**

ID	Location	Details		
5	455m S	Site Address: Land at the north of F W Birkett and Sons Limited, Hightown Road, Cleckheaton Licence Holder Address: Hightown Road, Cleckheaton	Waste Licence: Yes Site Reference: 4700/0420, 4700/WDL0201 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 08/02/1984 Licence Surrender: 31/12/1990	Operator: - Licence Holder: Francis W Birkett and Sons Limited First Recorded 31/12/1984 Last Recorded: 31/12/1990
C	476m E	Site Address: Mann Dam, Spen Lane, Gomersal, Cleckheaton, Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Spen Bank Holdings Limited Licence Holder: - First Recorded 30/04/1914 Last Recorded: -
7	494m NE	Site Address: Land off Cliffe Lane, Briars Fields, Vernon Road, Somersal, Cleckheaton, Kirklees Licence Holder Address: Briarfields, Vernon Road, Heckmondwike, Kirkless	Waste Licence: Yes Site Reference: 192 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 16/01/1979 Licence Surrender: 30/04/1994	Operator: - Licence Holder: Longland Plant First Recorded 31/12/1979 Last Recorded: 31/12/1981



ID	Location	Details		
8	495m E	Site Address: Spen Steelworks Site No.2 - Roundhill, Cliffe Lane, Cleckheaton Licence Holder Address: 7 Market Street, Heckmondwike, Cleckheaton	Waste Licence: Yes Site Reference: 4700/0267, 18, 4700/0807 Waste Type: Inert, Industrial, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 18/05/1977 Licence Surrender: 29/04/1994	Operator: - Licence Holder: Longland Plant Hire First Recorded 31/12/1977 Last Recorded: 31/03/1993
9	499m E	Site Address: Spen Lane, Cleckheaton, West Yorkshire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 31/01/1969 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	5
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Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 40**

ID	Location	Address	Further Details	Date
B	433m N	Site Address: N/A	Type of Site: Waste Mill Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
B	446m N	Site Address: N/A	Type of Site: Waste Mill Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
B	448m N	Site Address: N/A	Type of Site: Waste Mill Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938

ID	Location	Address	Further Details	Date
B	459m N	Site Address: N/A	Type of Site: Waste Mill Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1956
6	471m SE	Site Address: N/A	Type of Site: Destructor (B) Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948

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

3.6 Licensed waste sites

Records within 500m	0
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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	9
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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 40**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	90m SW	SERPENTINE ROAD, CLECKHEATON, BD19 3HU	WEX260076	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
2	183m S	9 Bradford Road CLECKHEATON West Yorkshire BD19 5AG	EPR/BH0875CJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
A	222m SE	1, CROSS CHURCH STREET, CLECKHEATON, BD19 3RP	WEX240435	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
A	248m SE	St. Johns House Cross Church Street Cleckheaton West Yorkshire BD19 3RQ	EPR/SF0433UZ /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal

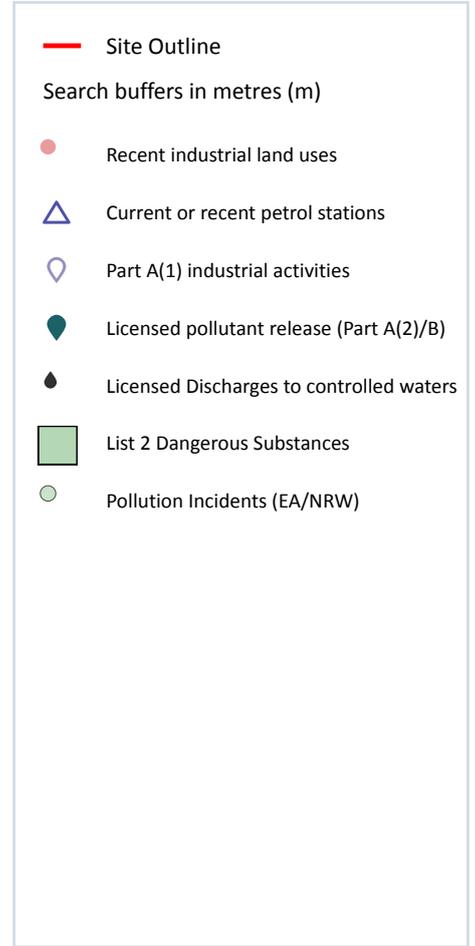
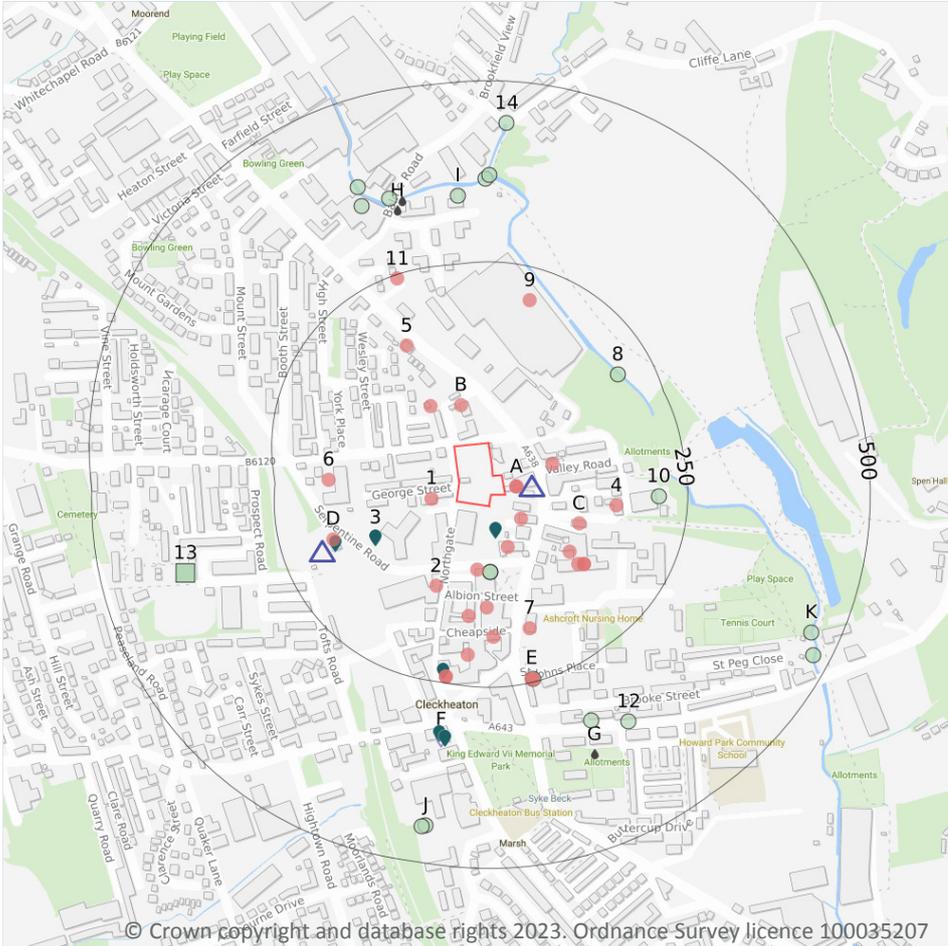


ID	Location	Site	Reference	Category	Sub-Category	Description
A	250m SE	ST. JOHNS HOUSE, CROSS CHURCH STREET, CLECKHEATON, BD19 3RQ	WEX235875	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	250m SE	ST. JOHNS HOUSE, CROSS CHURCH STREET, CLECKHEATON, BD19 3RQ	WEX215644	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	250m SE	ST. JOHNS HOUSE, CROSS CHURCH STREET, CLECKHEATON, BD19 3RQ	WEX064060	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
3	273m S	5, NORTHGATE, CLECKHEATON, BD19 3HH	WEX273429	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
4	417m S	Cleckheaton Health Centre, Greenside, Cleckheaton, BD19 5AP	WEX250244	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

30

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 45**

ID	Location	Company	Address	Activity	Category
A	17m E	Trade Cars Cleckheaton	45, Bradford Road, Cleckheaton, West Yorkshire, BD19 3LB	Secondhand Vehicles	Motoring
A	17m E	Bubbles Hand Car Wash	45, Bradford Road, Cleckheaton, West Yorkshire, BD19 3LB	Vehicle Cleaning Services	Personal, Consumer and Other Services



ID	Location	Company	Address	Activity	Category
1	35m SW	Northgate Saw Mills	West Yorkshire, BD19	Wood Products Including Charcoal, Paper, Card and Board	Industrial Products
A	40m SE	Works	West Yorkshire, BD19	Unspecified Works Or Factories	Industrial Features
B	56m N	Bonus Furniture Ltd	The Hollies, Bradford Road, Cleckheaton, West Yorkshire, BD19 3LW	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
A	62m SE	Works	West Yorkshire, BD19	Unspecified Works Or Factories	Industrial Features
B	64m NW	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
A	72m E	Carpet Cuts Cleckheaton	1, Valley Road, Cleckheaton, West Yorkshire, BD19 3LJ	Construction Completion Services	Construction Services
A	89m S	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
C	108m SE	Mr Tyre Ltd	10, Foundry Terrace, Cleckheaton, West Yorkshire, BD19 3JZ	Vehicle Parts and Accessories	Motoring
C	118m SE	Crane	West Yorkshire, BD19	Travelling Cranes and Gantries	Industrial Features
2	120m S	Wake Bespoke	51a, Northgate, Town Centre, Cleckheaton, West Yorkshire, BD19 3HS	Clothing, Components and Accessories	Consumer Products
C	139m SE	Works	West Yorkshire, BD19	Unspecified Works Or Factories	Industrial Features
A	140m S	J W Asquith & Sons	1-3 Market Arcade, Albion Street, Cleckheaton, West Yorkshire, BD19 3JQ	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
C	144m SE	Printgraphic a	Unit 2 to 3 Netherfield Works, Bradford Road, Cleckheaton, West Yorkshire, BD19 3JP	Printing Related Machinery	Industrial Products
C	144m SE	Procast Foundry Ltd	Unit 5b Netherfield Works, Bradford Road, Cleckheaton, West Yorkshire, BD19 3JP	Signs	Industrial Products
4	153m E	Norwood Cabs & Covers Ltd	Unit 3 36, Valley Road, Cleckheaton, West Yorkshire, BD19 3LJ	Canvas Goods	Consumer Products
5	153m NW	Wellbeing Centres	69, Bradford Road, Cleckheaton, West Yorkshire, BD19 3PT	Business Parks and Industrial Estates	Industrial Features
A	154m S	Openshaw Hearing Care Centre	19, Albion Street, Cleckheaton, West Yorkshire, BD19 3JD	Disability and Mobility Equipment	Consumer Products



ID	Location	Company	Address	Activity	Category
6	177m W	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
7	177m S	A & S Domestic the Washer Shop	8-10, Bradford Road, Cleckheaton, West Yorkshire, BD19 3RJ	Electrical Equipment Repair and Servicing	Repair and Servicing
D	177m SW	Tesco Petrol Station	49, Northgate, Cleckheaton, West Yorkshire, BD19 3HS	Petrol and Fuel Stations	Road and Rail
A	180m S	G M Mobiles & Tech Centre	5, Cheapside, Cleckheaton, West Yorkshire, BD19 5AF	Electrical Equipment Repair and Servicing	Repair and Servicing
9	205m N	Westex Carpets Ltd	Castle Mills, Bradford Road, Cleckheaton, West Yorkshire, BD19 3PS	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
A	207m S	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
A	242m S	Express Alloys Ltd	2, Northgate, Cleckheaton, West Yorkshire, BD19 5AA	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
A	242m S	Smartwatch Solutions Ltd	2, Northgate, Cleckheaton, West Yorkshire, BD19 5AA	Electronic Equipment	Industrial Products
11	244m N	Electricity Sub Station	West Yorkshire, BD19	Electrical Features	Infrastructure and Facilities
E	244m S	Kirklees Hearing Care Centre	Kirklees Mobility, 1, Dewsbury Road, Town Centre, Cleckheaton, West Yorkshire, BD19 3RS	Disability and Mobility Equipment	Consumer Products
E	246m S	R J Donnan Hearing Care	1b St Johns Court, Dewsbury Road, Cleckheaton, West Yorkshire, BD19 3RS	Disability and Mobility Equipment	Consumer Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 45**



ID	Location	Company	Address	LPG	Status
A	38m E	OBSOLETE	Bradford Road, Cleckheaton, West Yorkshire, BD19 3LN	Not Applicable	Obsolete
D	197m SW	TESCO	49, Northgate, Serpentine Road, Cleckheaton, West Yorkshire, BD19 3HS	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

4

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

Features are displayed on the Current industrial land use map on **page 45**

ID	Location	Details	
F	328m S	Operator: TMD Friction UK Ltd Installation Name: Cleckheaton Brake Pad Manufacture Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: EP3133LG Original Permit Number: EP3533BU	EPR Reference: - Issue Date: 30/03/2006 Effective Date: 30/03/2006 Last date noted as effective: 21/03/2023 Status: Superseded

ID	Location	Details	
F	328m S	Operator: TMD Friction UK Ltd Installation Name: Cleckheaton Brake Pad Manufacture Process: COATING PRINTING AND TEXTILES; USING SOLVENTS >5T/12 MONTHS (UNLESS 6.4 B (A) (III)) Permit Number: LP3838XS Original Permit Number: EP3533BU	EPR Reference: - Issue Date: - Effective Date: 29/05/2008 Last date noted as effective: 21/03/2023 Status: Surrender Effective
F	328m S	Operator: TMD Friction UK Ltd Installation Name: Cleckheaton Brake Pad Manufacture Process: COATING PRINTING AND TEXTILES; USING SOLVENTS >5T/12 MONTHS (UNLESS 6.4 B (A) (III)) Permit Number: EP3133LG Original Permit Number: EP3533BU	EPR Reference: - Issue Date: 30/03/2006 Effective Date: 30/03/2006 Last date noted as effective: 21/03/2023 Status: Superseded
F	328m S	Operator: TMD Friction UK Ltd Installation Name: Cleckheaton Brake Pad Manufacture Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: LP3838XS Original Permit Number: EP3533BU	EPR Reference: - Issue Date: - Effective Date: 29/05/2008 Last date noted as effective: 21/03/2023 Status: Surrender Effective

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

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

Records within 500m

6

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

Features are displayed on the Current industrial land use map on **page 45**

ID	Location	Address	Details	
A	34m S	Spem Exhaust Centre, Castle Mills, Nthgate, Cleckheaton, BD19 3JB	Process: Waste Oil Burner 0.4 MW Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
3	122m SW	James Burnhill & Sons Ltd, Northgate Mills, Serpentine Rd, Cleckheaton, BD19 3HX	Process: Pet Food Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified



ID	Location	Address	Details	
D	176m SW	Tesco Stores Ltd, 49 Northgate, Cleckheaton, BD19 3HS	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
A	234m S	Dry Cleaning For You, 4 Northgate, Cleckheaton, BD19 4AA	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
F	321m S	Cleckheton Motors, Bradford Rd, Cleckheaton, BD19 3LN	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
F	325m S	Francis W Birkett & Sons Ltd, P O Box 16, Hightown Road, Cleckheaton, BD19 5JT	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

3

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 45**



ID	Location	Address	Details	
H	334m N	BALME ROAD NO 2 CSO, BALM ROAD, OFF BRADFORD ROAD, CLECKHEATON, WEST YORKSHIRE, BD19 4EZ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8255 Permit Version: 1 Receiving Water: RIVER SPEN	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 18/03/2004 Effective Date: 31/03/2004 Revocation Date: 07/11/2017
H	346m N	BALME ROAD NO 2 CSO, BALM ROAD, OFF BRADFORD ROAD, CLECKHEATON, WEST YORKSHIRE, BD19 4EZ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8255 Permit Version: 2 Receiving Water: RIVER SPEN	Status: VARIED UNDER EPR 2010 Issue date: 08/11/2017 Effective Date: 08/11/2017 Revocation Date: -
G	371m SE	DEWSBURY ROAD, DEWSBURY ROAD, CLECKHEATON, BRADFORD, WEST YORKSHIRE	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: WADC593 Permit Version: 1 Receiving Water: SYKES BECK	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 18/09/1989 Effective Date: 18/09/1989 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

1

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

Features are displayed on the Current industrial land use map on **page 45**

ID	Location	Name	Status	Receiving Water	Authorised Substances
13	384m W	Critchley, Cleckheaton.	Not Active	-	Chromium, Copper, Lead, Nickel, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

18

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 45**

ID	Location	Details	
A	91m S	Incident Date: 18/01/2002 Incident Identification: 53334 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)
A	91m S	Incident Date: 18/01/2002 Incident Identification: 53334 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)
8	200m NE	Incident Date: 23/04/2002 Incident Identification: 73845 Pollutant: Sewage Materials Pollutant Description: Process Effluent	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	210m E	Incident Date: 02/02/2005 Incident Identification: 290859 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
E	245m S	Incident Date: 26/05/2003 Incident Identification: 160786 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)



ID	Location	Details	
G	326m SE	Incident Date: 31/05/2002 Incident Identification: 82308 Pollutant: Organic Chemicals/Products Pollutant Description: Hydrocarbons	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	344m N	Incident Date: 10/09/2002 Incident Identification: 106880 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	353m SE	Incident Date: 31/05/2002 Incident Identification: 82309 Pollutant: Organic Chemicals/Products Pollutant Description: Hydrocarbons	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
H	353m N	Incident Date: 08/03/2002 Incident Identification: 62675 Pollutant: Contaminated Water Pollutant Description: Minewater	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	355m NW	Incident Date: 12/09/2002 Incident Identification: 107381 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	364m N	Incident Date: 30/09/2002 Incident Identification: 111602 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	370m N	Incident Date: 11/09/2002 Incident Identification: 107212 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	380m N	Incident Date: 12/09/2002 Incident Identification: 107501 Pollutant: Organic Chemicals/Products Pollutant Description: Dyes and Inks	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
14	442m N	Incident Date: 26/04/2002 Incident Identification: 74860 Pollutant: Organic Chemicals/Products Pollutant Description: Surfactants and Detergents	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	448m S	Incident Date: 19/12/2001 Incident Identification: 48939 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
J	450m S	Incident Date: 12/02/2002 Incident Identification: 57877 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	460m SE	Incident Date: 30/01/2012 Incident Identification: 958117 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	476m SE	Incident Date: 07/04/2003 Incident Identification: 149039 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

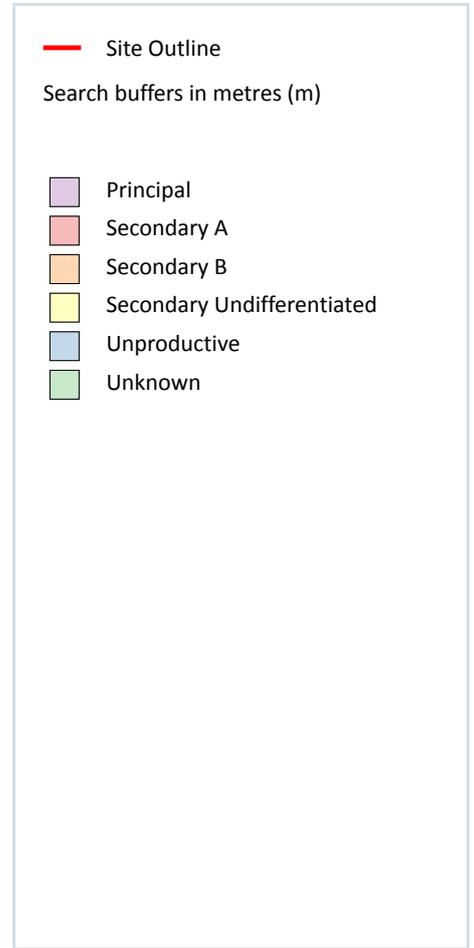
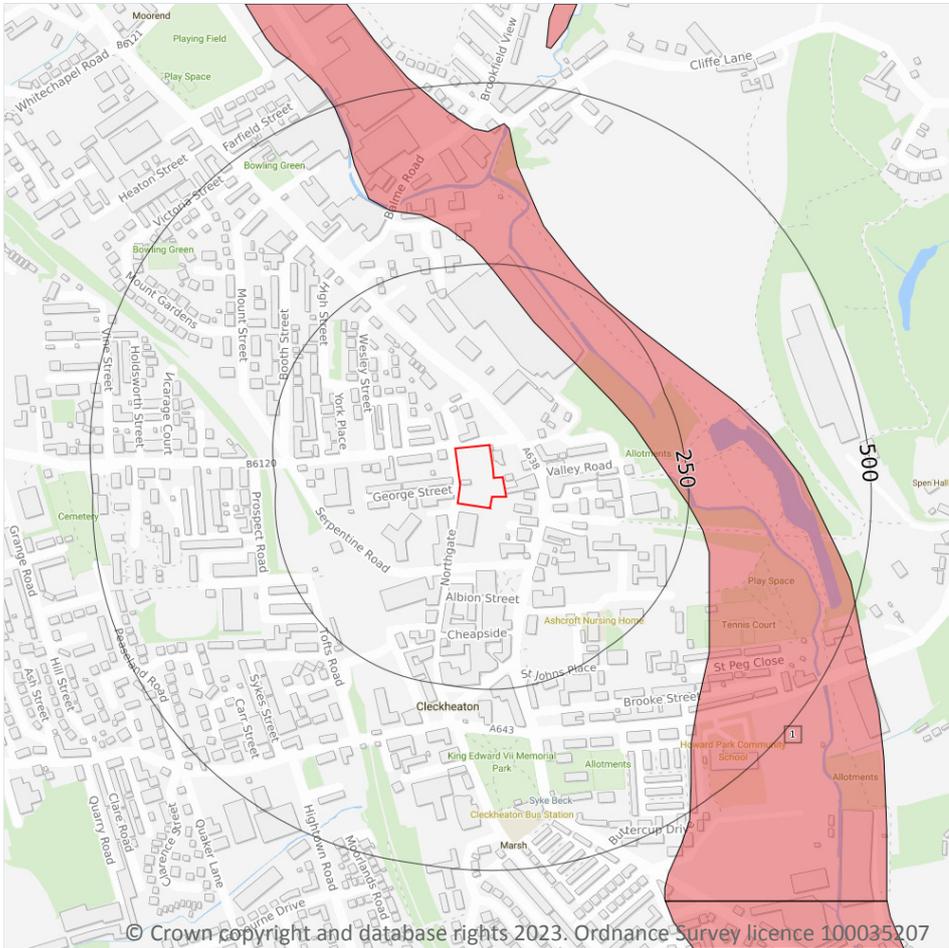
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The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

1

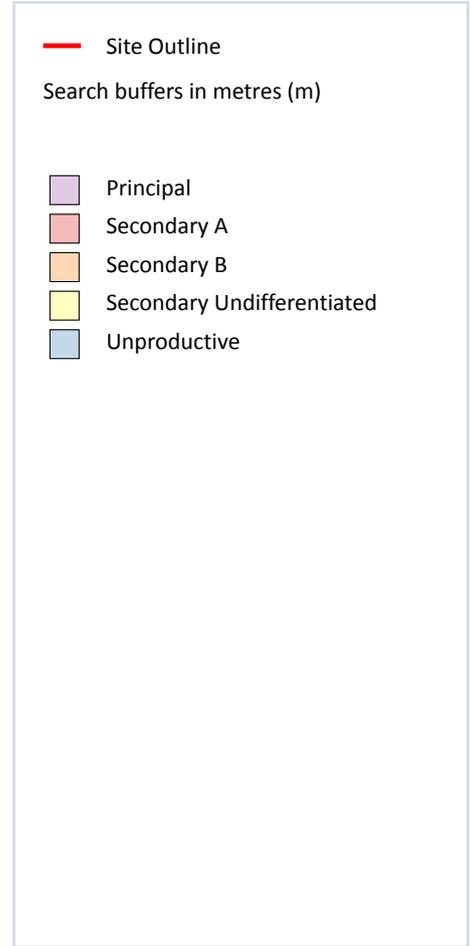
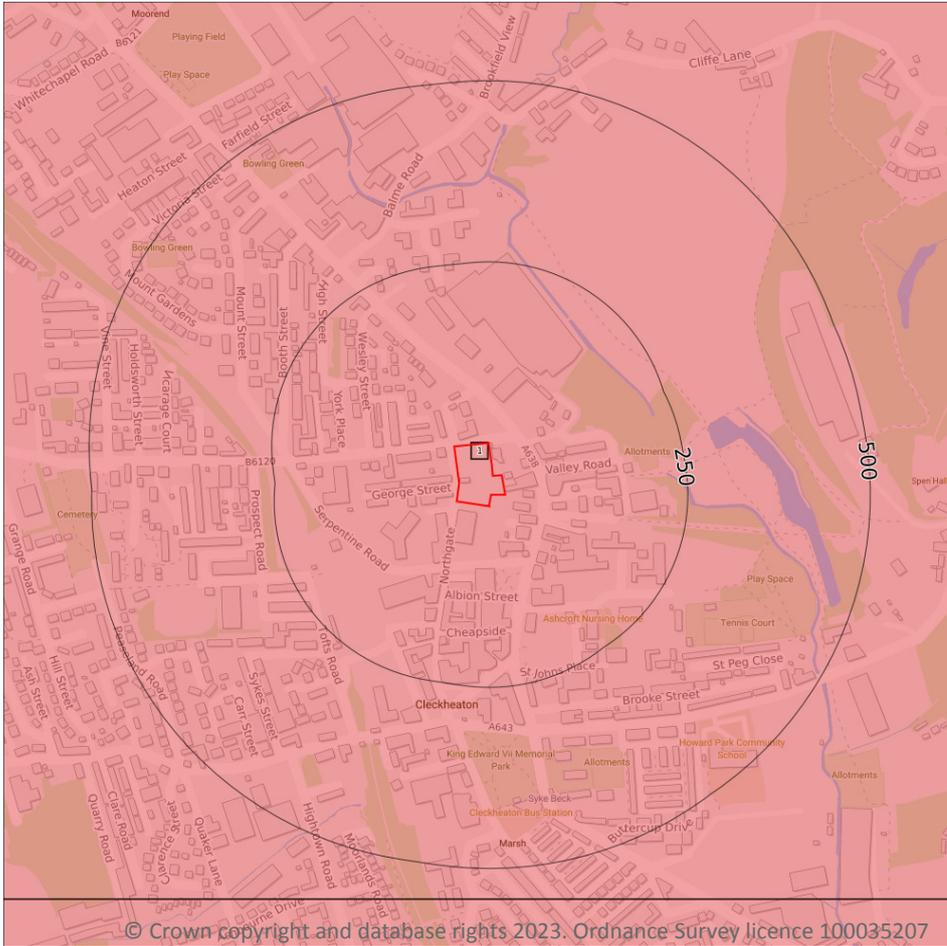
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 57**

ID	Location	Designation	Description
1	163m NE	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



5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

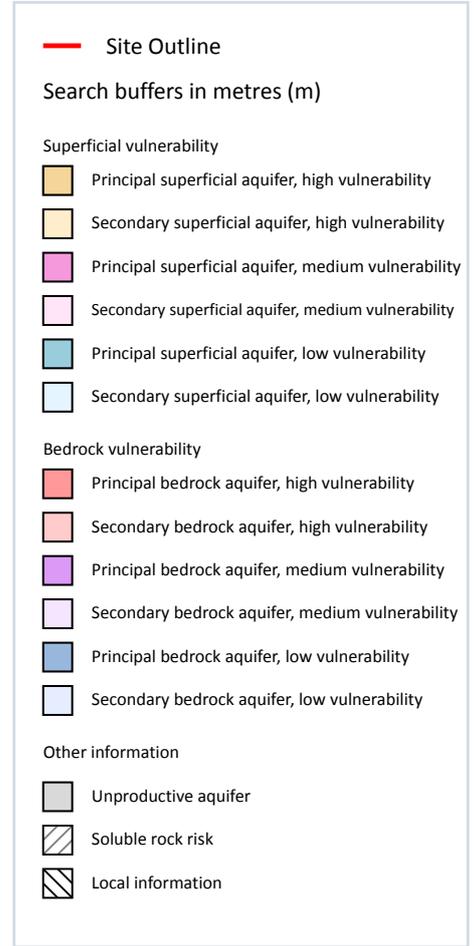
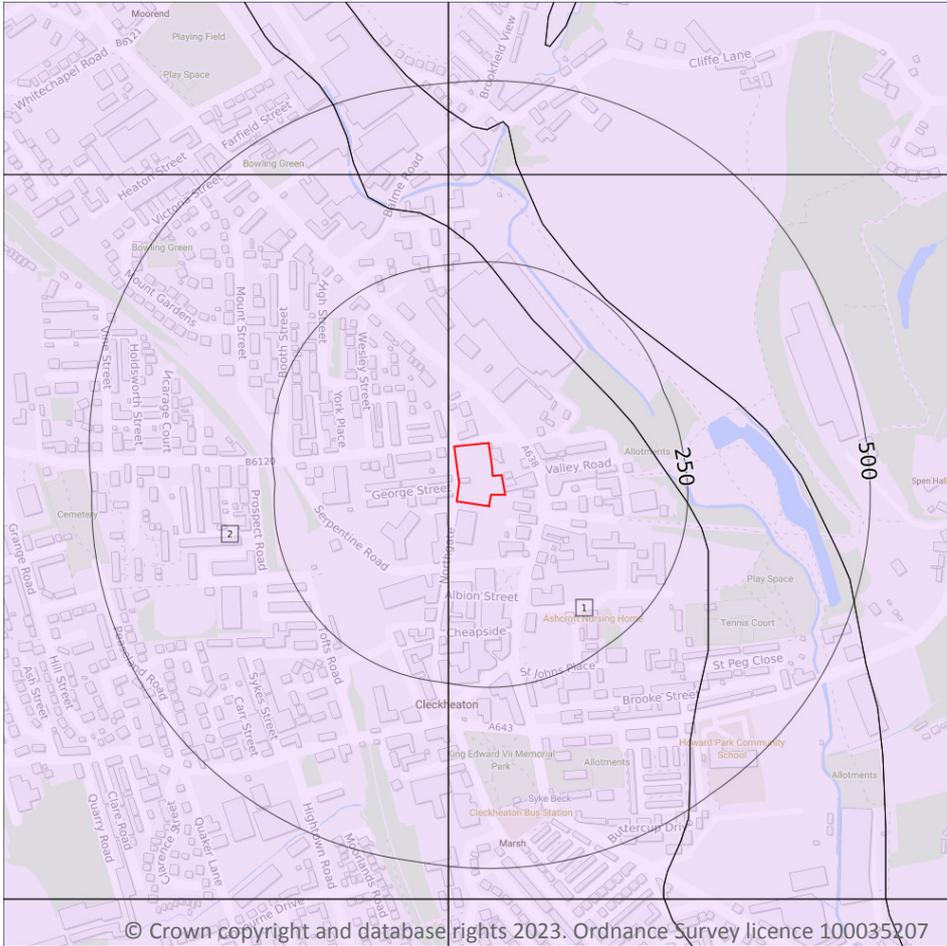
Features are displayed on the Bedrock aquifer map on **page 58**

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 59**

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: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	8m NW	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
------------------------	----------

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

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

5.5 Groundwater vulnerability- local information

Records on site	0
------------------------	----------

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

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



ID	Location	Details	
-	912m NW	Status: Historical Licence No: 2/27/13/022 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: METROTECT LIMITED Easting: 418300 Northing: 426200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 21/10/1996 Version End Date: -
-	912m NW	Status: Historical Licence No: 2/27/13/022 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: METROTECT LTD Easting: 418300 Northing: 426200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 21/10/1996 Version End Date: -
-	1517m E	Status: Historical Licence No: 2/27/13/001 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLES X 2 Data Type: Point Name: GOMERSAL MILLS LTD Easting: 420500 Northing: 426100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 28/02/1997 Version End Date: -
-	1517m E	Status: Historical Licence No: 2/27/13/001 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLES X 2 - COAL MEASURES Data Type: Point Name: GOMERSAL MILLS LTD Easting: 420500 Northing: 426100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2002 Version End Date: -

ID	Location	Details	
-	1542m NW	Status: Historical Licence No: 2/27/13/221 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417901 Northing: 426699	Annual Volume (m ³): 6750 Max Daily Volume (m ³): 168 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -
-	1542m NW	Status: Active Licence No: 2/27/13/221/R01 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417901 Northing: 426699	Annual Volume (m ³): 6,750 Max Daily Volume (m ³): 168 Original Application No: NPS/WR/016684 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1544m NW	Status: Historical Licence No: 2/27/13/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/03/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 10/03/1997 Version End Date: -
-	1544m NW	Status: Historical Licence No: 2/27/13/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m ³): 13500 Max Daily Volume (m ³): 168 Original Application No: - Original Start Date: 10/03/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 10/03/1997 Version End Date: -
-	1544m NW	Status: Historical Licence No: 2/27/13/221 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - CLECKHEATON Data Type: Point Name: CLECKHEATON & DISTRICT GOLF CLUB Easting: 417900 Northing: 426700	Annual Volume (m ³): 6750 Max Daily Volume (m ³): 168 Original Application No: - Original Start Date: 01/01/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/01/2007 Version End Date: -



ID	Location	Details	
-	1609m SW	Status: Historical Licence No: 2/27/13/198 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - LIVERSEDGE Data Type: Point Name: HARRISON GARDNER & CO LTD Easting: 418310 Northing: 424100	Annual Volume (m ³): 112464 Max Daily Volume (m ³): 340.8 Original Application No: - Original Start Date: 09/10/1998 Expiry Date: 31/12/2007 Issue No: 101 Version Start Date: 06/06/2000 Version End Date: -
-	1699m SW	Status: Historical Licence No: 2/27/13/198 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - LIVERSEDGE Data Type: Point Name: HARRISON GARDNER & CO LTD Easting: 418230 Northing: 424040	Annual Volume (m ³): 112464 Max Daily Volume (m ³): 340.8 Original Application No: - Original Start Date: 09/10/1998 Expiry Date: 31/12/2007 Issue No: 101 Version Start Date: 06/06/2000 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

0

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

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

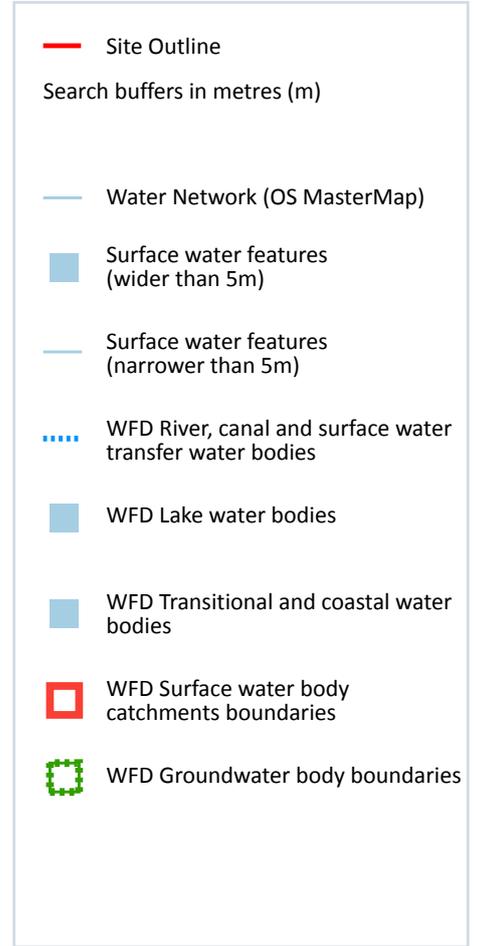
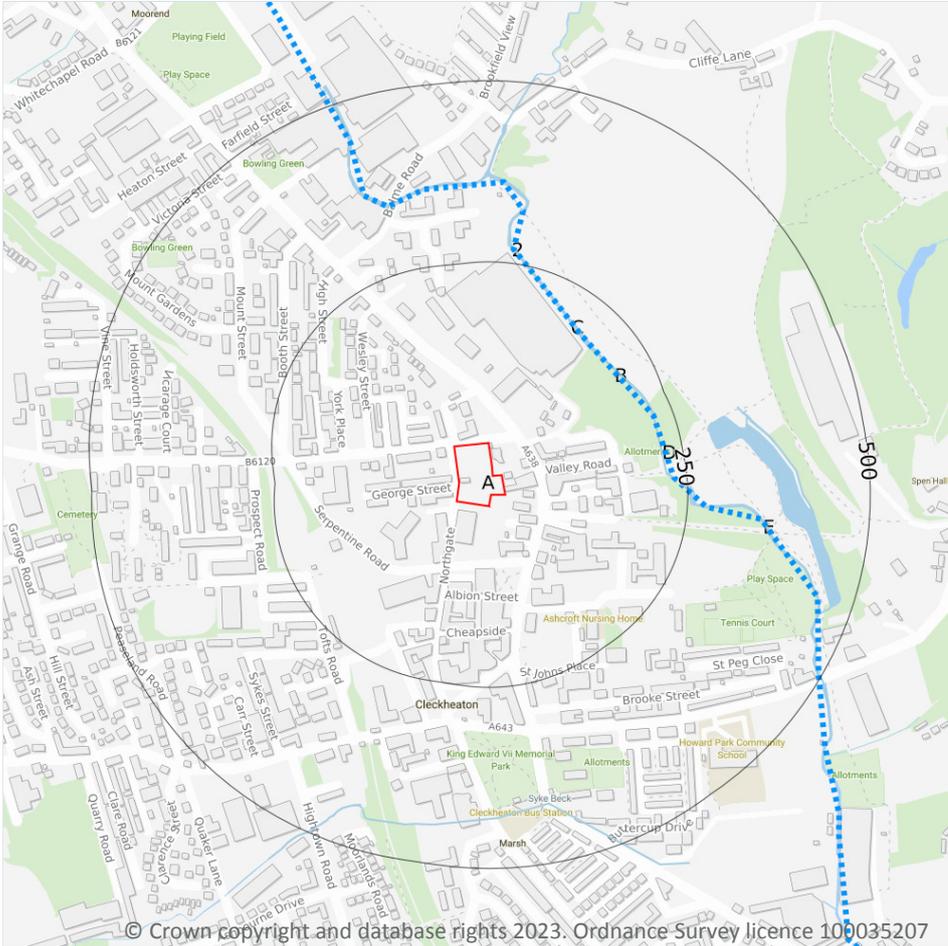
Records within 500m

0

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

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

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m

7

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 66**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	192m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spenn River

ID	Location	Type of water feature	Ground level	Permanence	Name
C	202m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Spen River
2	204m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spen River
D	220m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spen River
D	222m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spen River
D	223m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	223m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Spen River

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 66**

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 66**



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

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

6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on **page 66**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
C	194m NE	River	Spen Beck from Source to River Calder	GB104027062710	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.

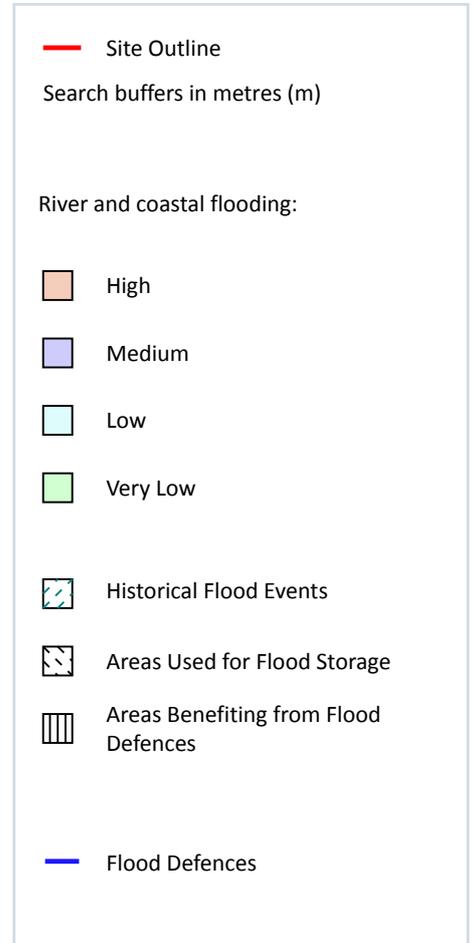
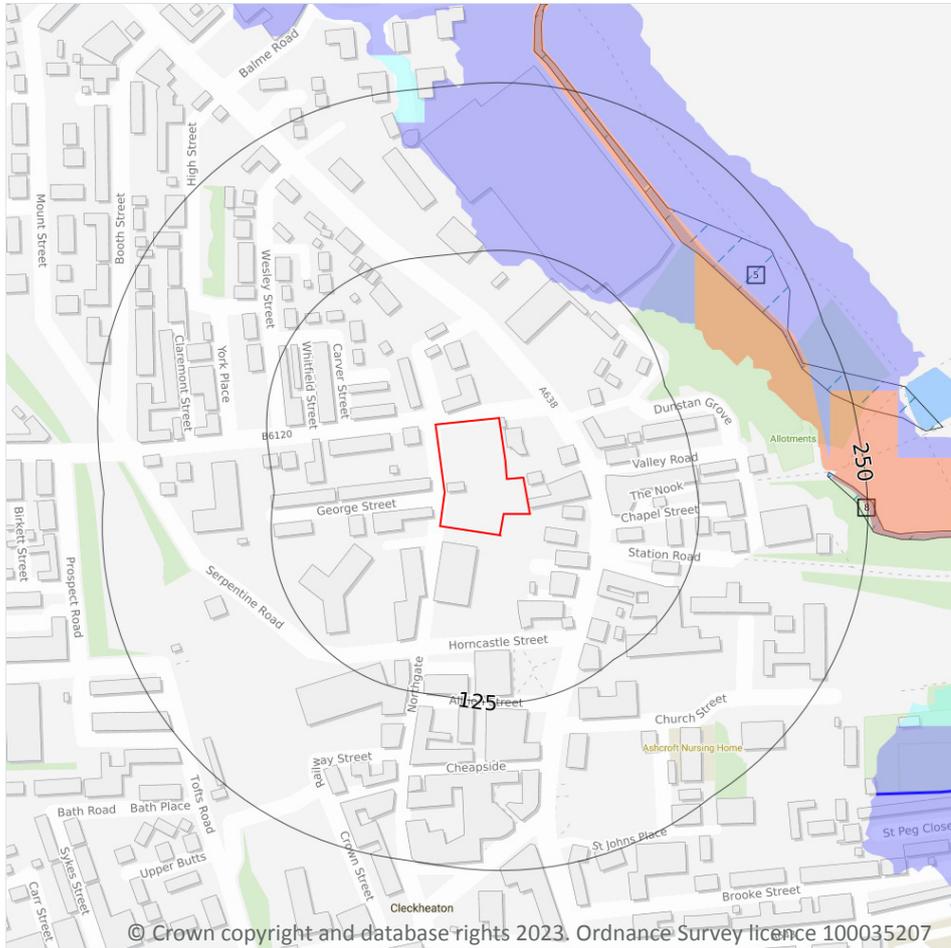
Features are displayed on the Hydrology map on **page 66**

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

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



7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

7.2 Historical Flood Events

Records within 250m

2

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

Features are displayed on the River and coastal flooding map on **page 69**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
5	188m NE	2020 February Flood Incident - Storm Ciara/dennis	2020-02-08 2020-03-19	Main river	Channel capacity exceeded (no raised defences)	Fluvial
8	222m E	2020 February Flood Incident - Storm Ciara/dennis	2020-02-08 2020-03-19	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

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

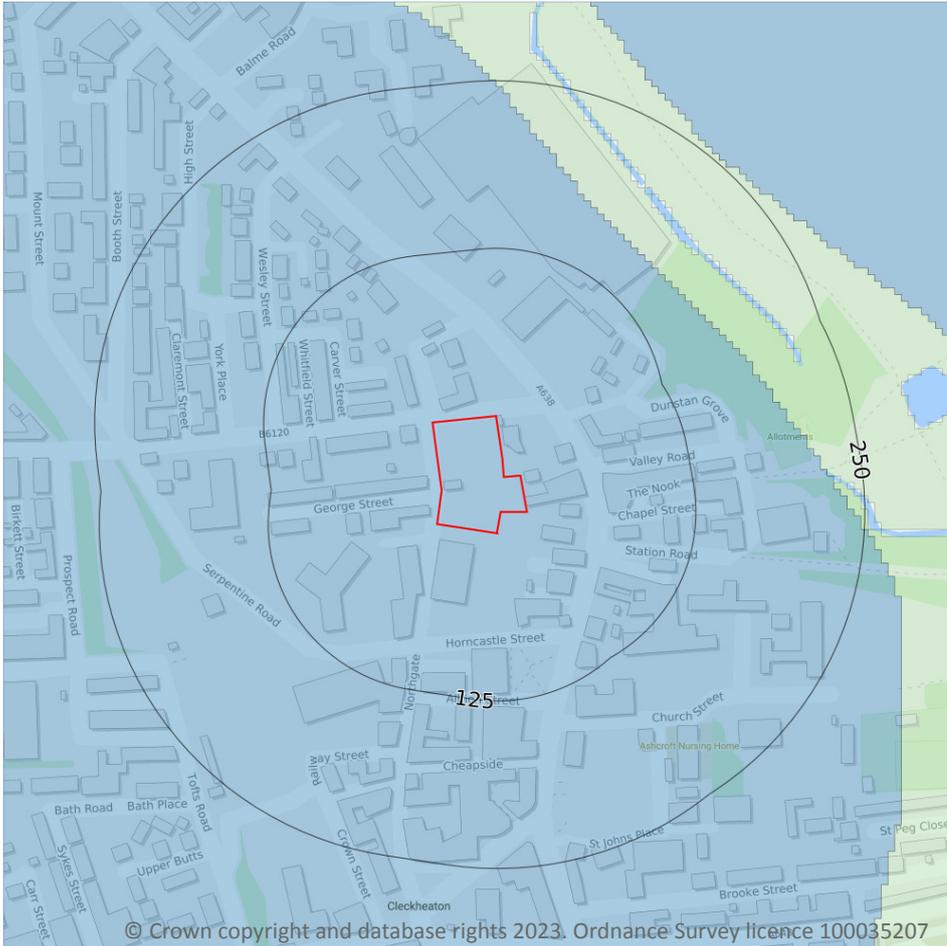
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year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

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

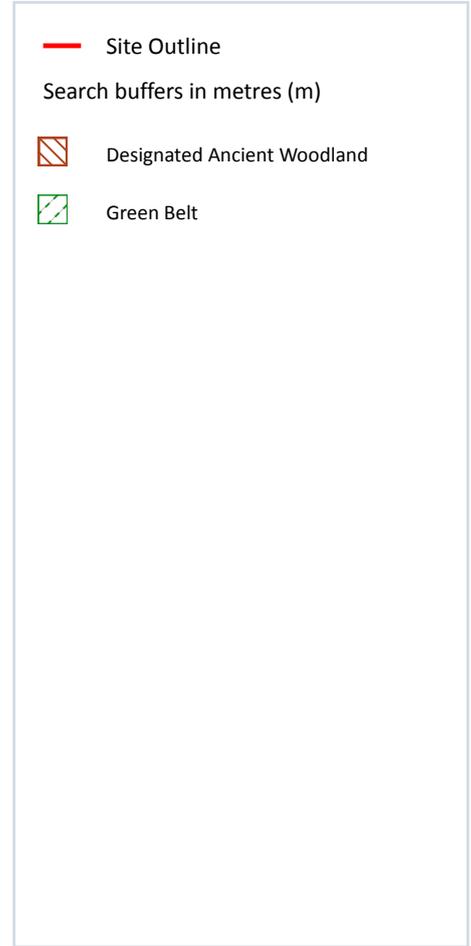
Negligible

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

Features are displayed on the Groundwater flooding map on **page 74**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

0

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

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

10.7 Designated Ancient Woodland

Records within 2000m

3

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 75**

ID	Location	Name	Woodland Type
2	592m E	Fusden Wood	Ancient Replanted Woodland
-	1450m N	Great And Little Hunsworth Woods	Ancient & Semi-Natural Woodland
-	1627m NW	Unknown	Ancient & Semi-Natural 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 75**

ID	Location	Name	Local Authority name
1	115m NE	South and West Yorkshire	Kirklees

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

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
On site	Spenn Beck from Source to River Calder NVZ	Surface Water	271	Existing



Location	Name	Type	NVZ ID	Status
352m N	Spen Beck from Source to River Calder NVZ	Surface Water	271	Existing

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

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.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

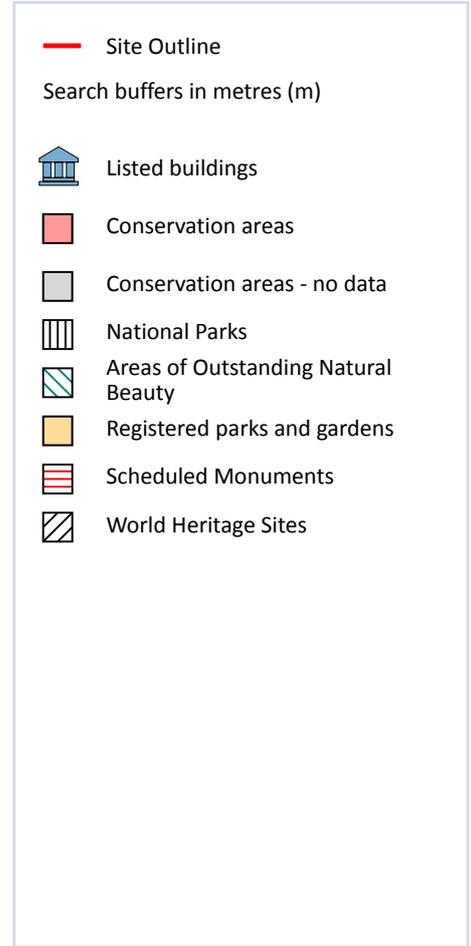
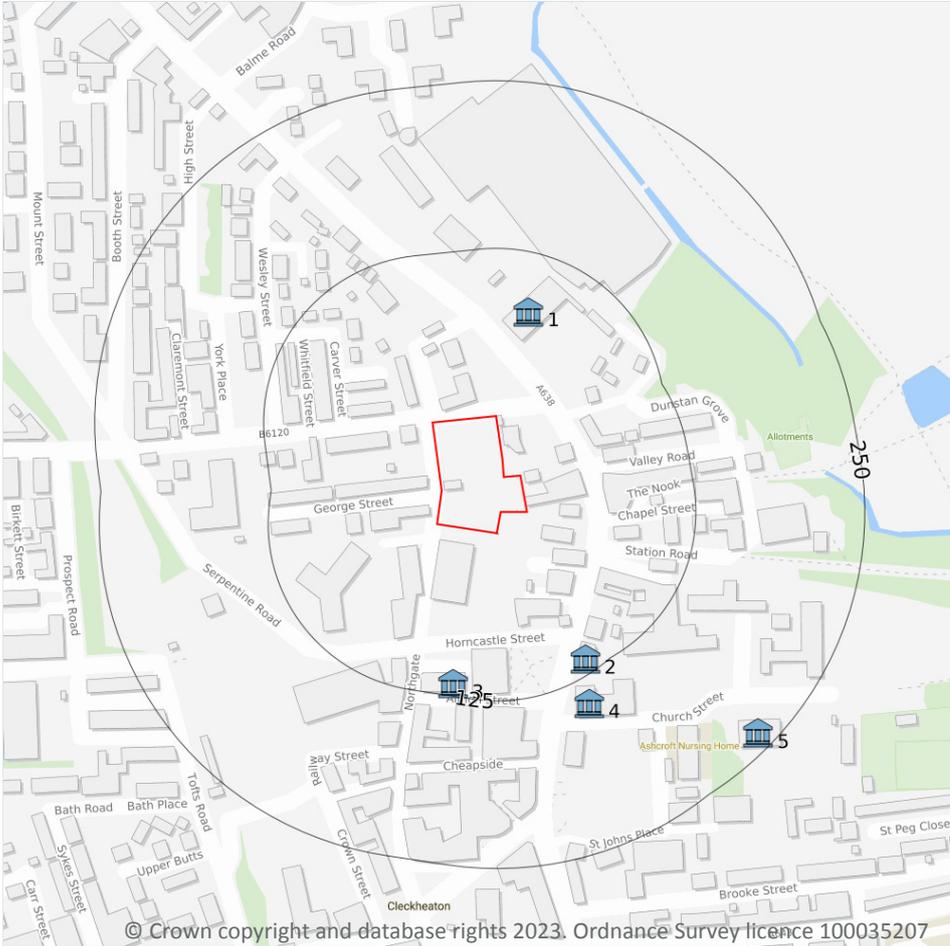
0

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

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



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

5

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 82**

ID	Location	Name	Grade	Reference Number	Listed date
1	81m N	Former Providence Place United Reformed Church, Gate Piers and Gates, Cleckheaton, Kirklees, BD19	II*	1184234	30/04/1982
2	114m SE	Midland Bank, Cleckheaton, Kirklees, BD19	II	1134627	13/01/1984
3	116m S	Old Post office, Cleckheaton, Kirklees, BD19	II	1134626	13/01/1984
4	144m SE	Town Hall, Cleckheaton, Kirklees, BD19	II	1313688	11/06/1980
5	238m SE	Church of St John, Cleckheaton, Kirklees, BD19	II	1134593	13/01/1984



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

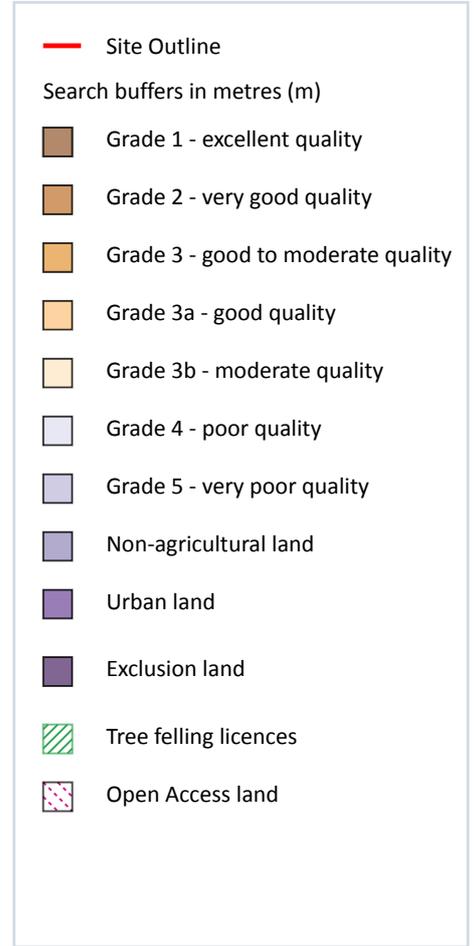
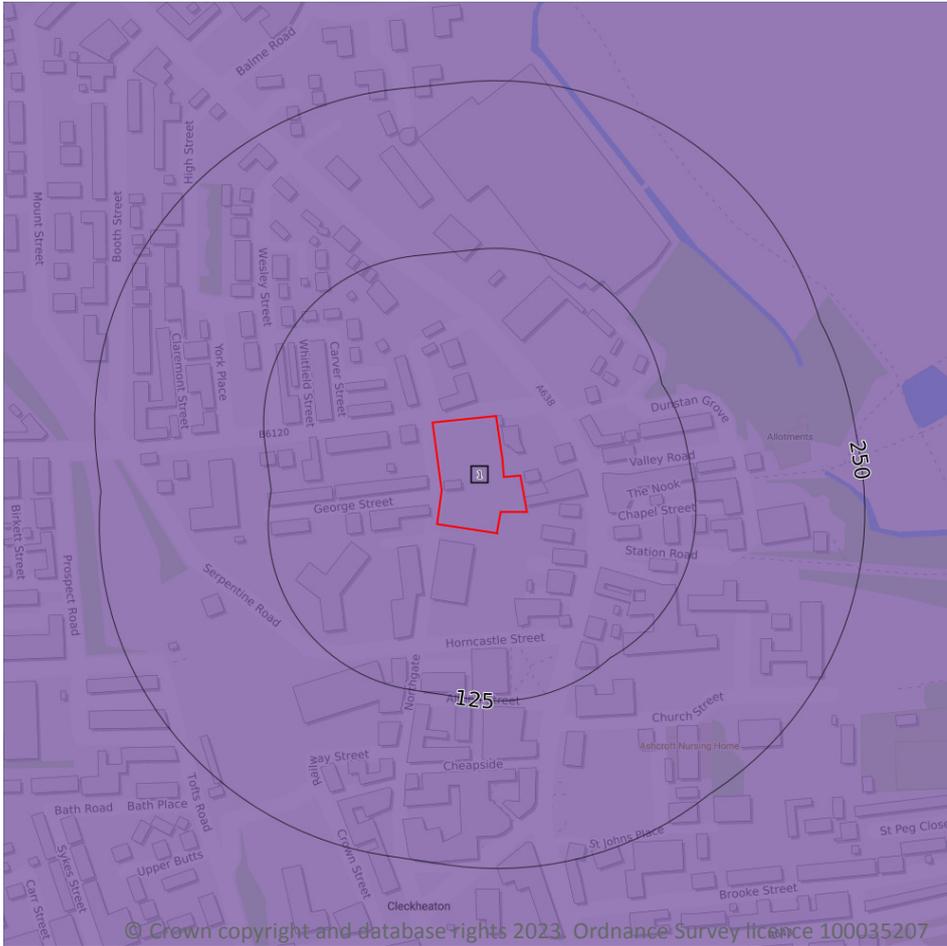
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 85**

ID	Location	Classification	Description
1	On site	Urban	-

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

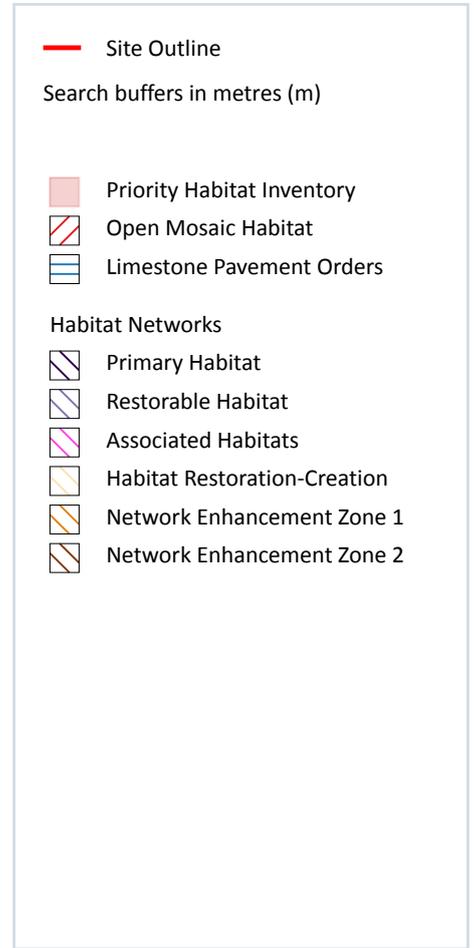
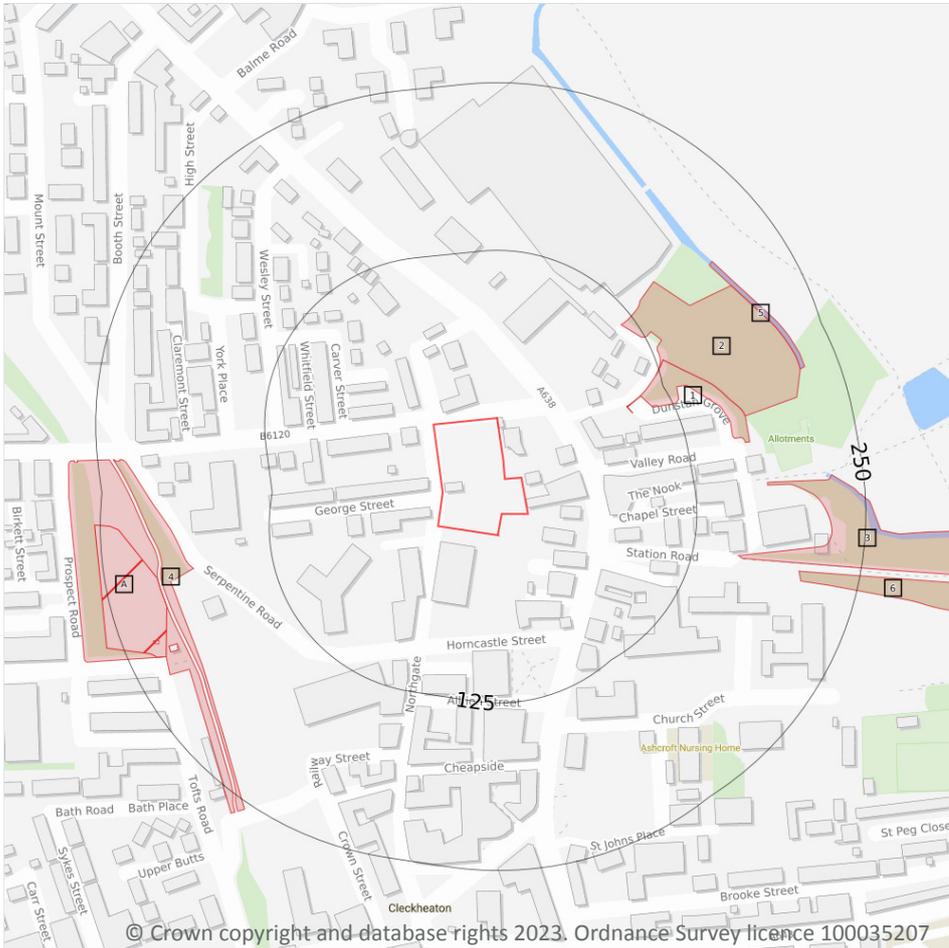
0

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



13.1 Priority Habitat Inventory

Records within 250m

7

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 87**

ID	Location	Main Habitat	Other habitats
1	94m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	115m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	159m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	184m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	194m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	205m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	207m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

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

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1
----------------------------	----------

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.

Features are displayed on the Habitat designations map on **page 87**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
A	209m SW	NLUD Ref: 471800927	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

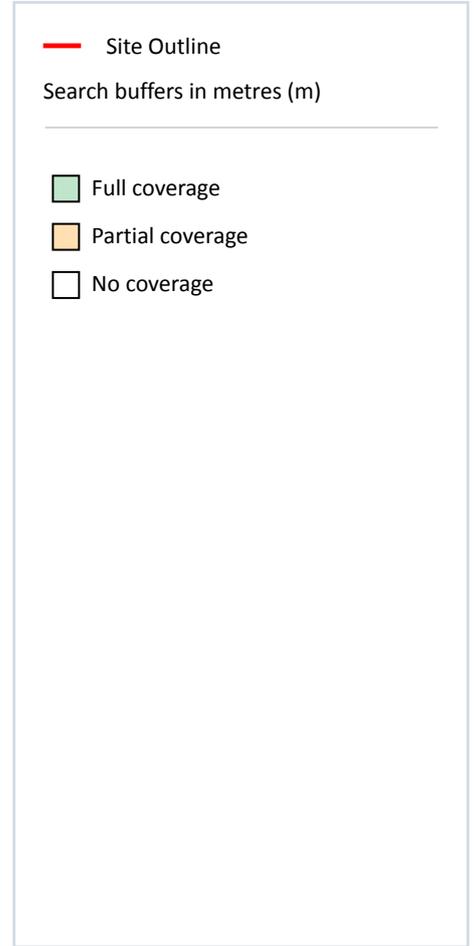
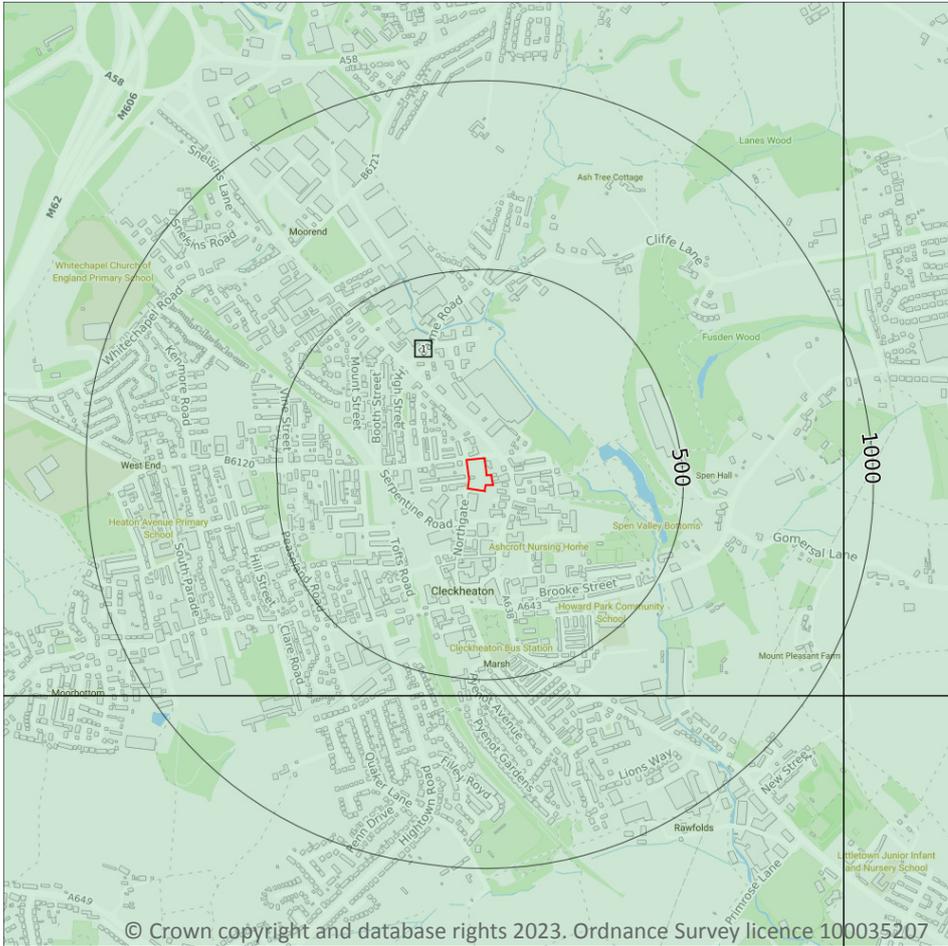
Records within 250m	0
----------------------------	----------

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



14.1 10k Availability

Records within 500m

1

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

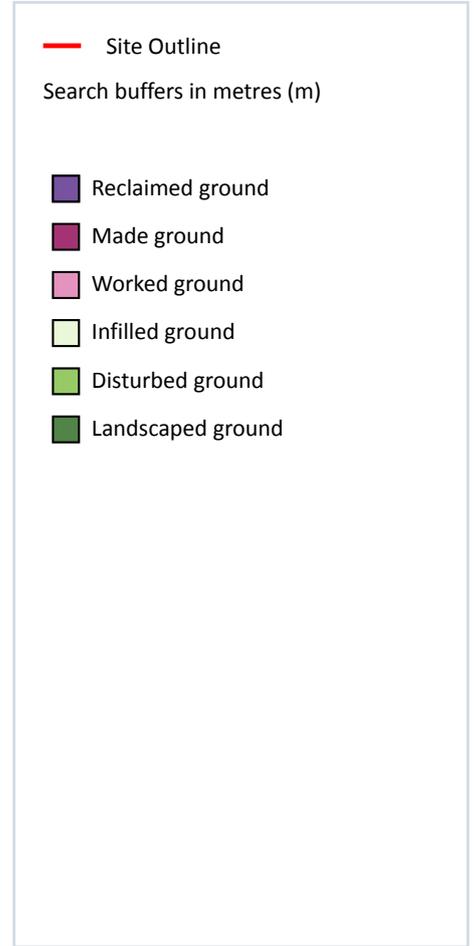
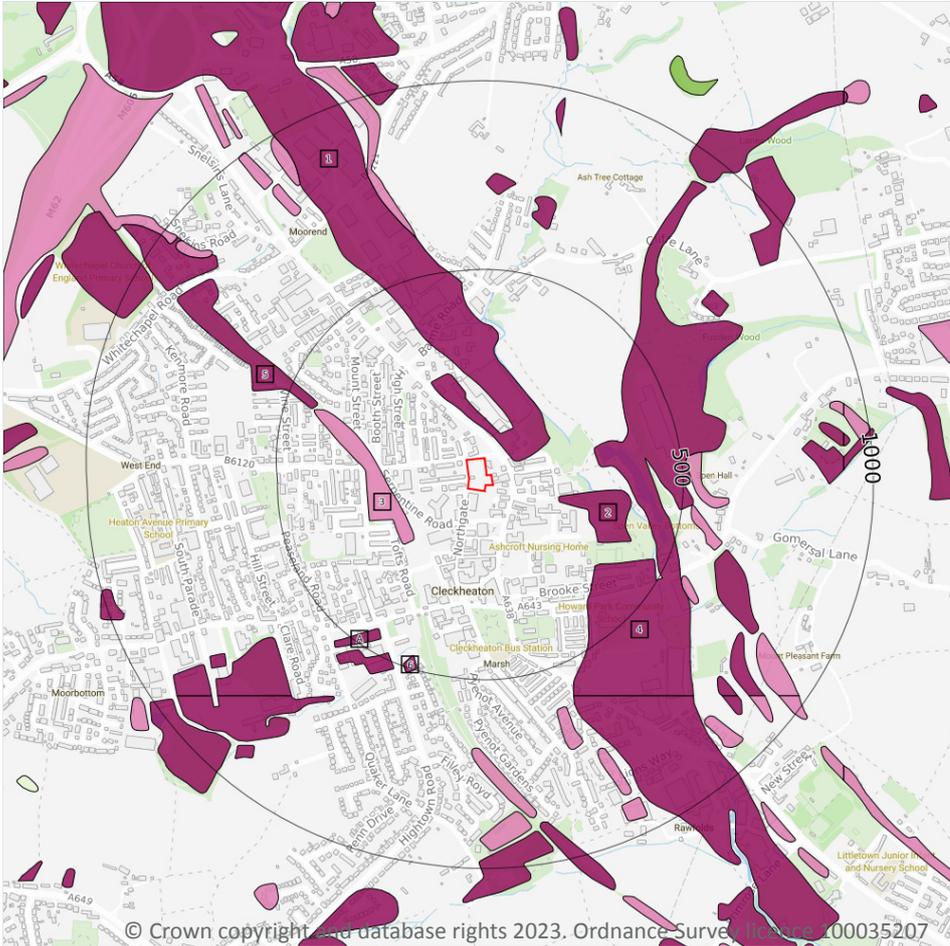
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 90**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE12NE

This data is sourced from the British Geological Survey.



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



14.2 Artificial and made ground (10k)

Records within 500m

8

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 91**

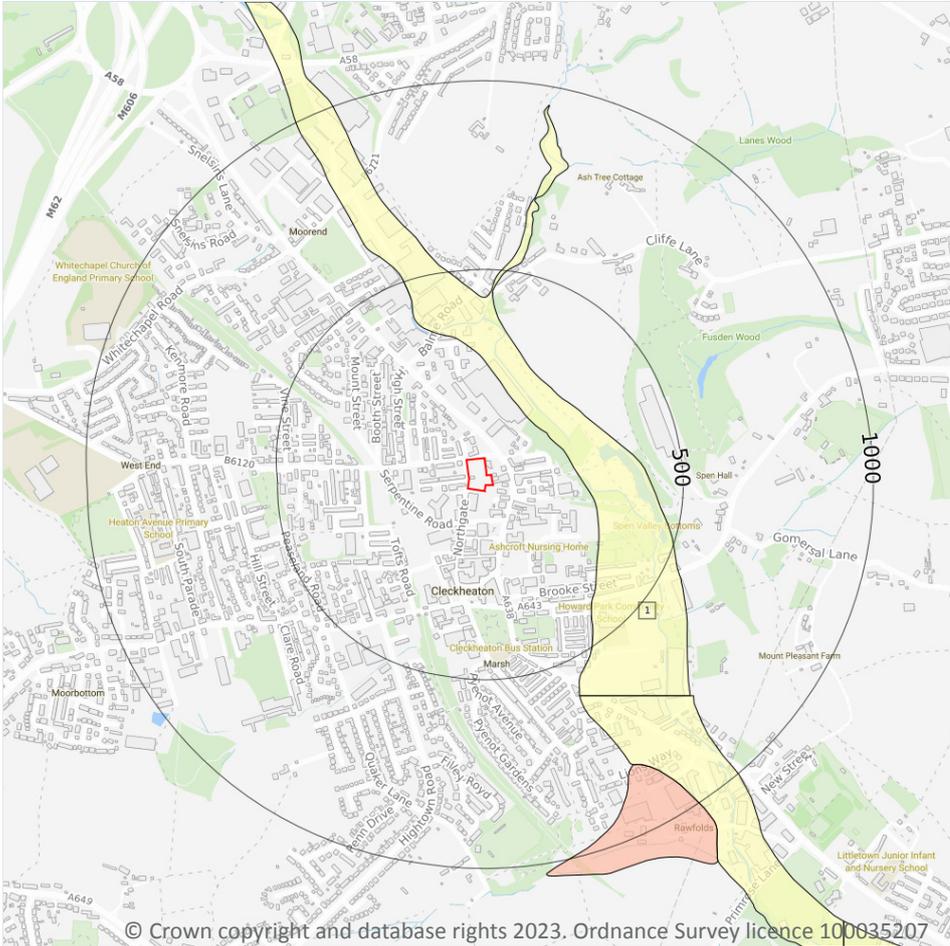
ID	Location	LEX Code	Description	Rock description
1	56m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	176m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	179m SW	WGR-VOID	Worked Ground (Undivided)	Void
4	278m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	419m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	439m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	465m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	483m SW	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

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 93**

ID	Location	LEX Code	Description	Rock description
1	156m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

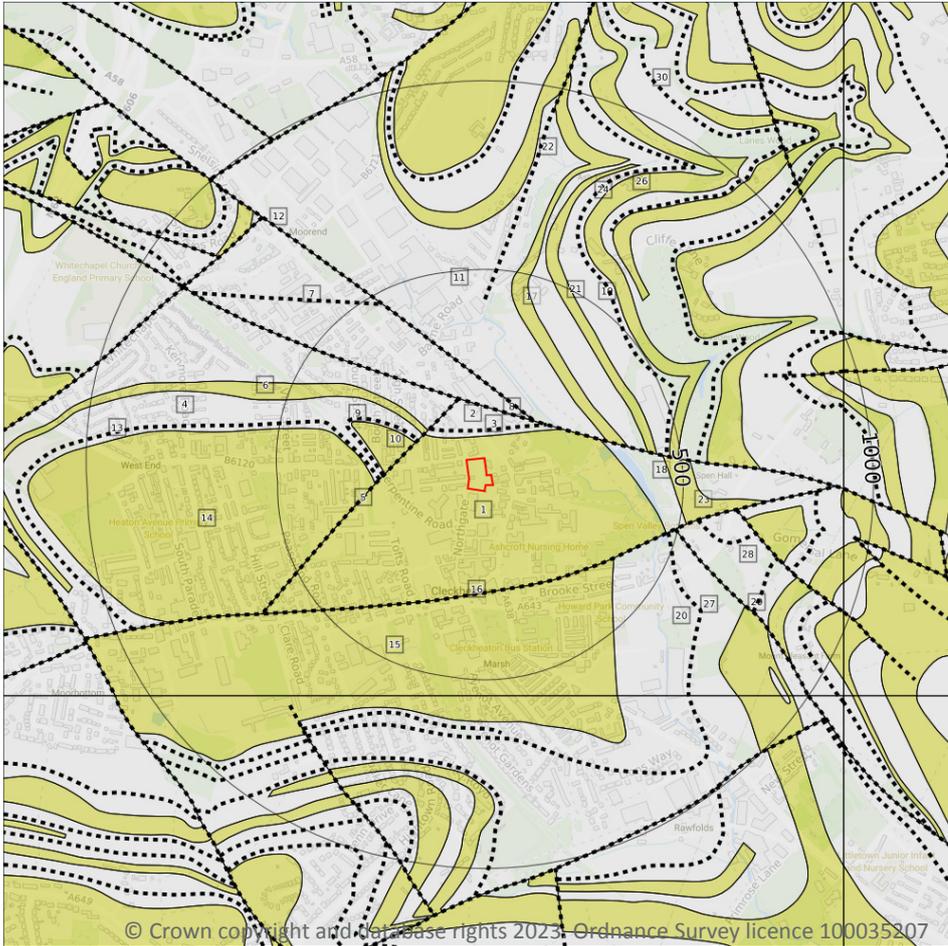
0

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

18

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 95**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsetian Sub-age
2	58m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsetian Sub-age
4	127m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsetian Sub-age



ID	Location	LEX Code	Description	Rock age
6	128m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
7	132m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	142m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
11	159m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
14	244m W	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
15	266m S	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
17	281m NE	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
18	300m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	314m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	372m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	391m NE	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
23	453m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
26	471m E	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
28	493m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
30	493m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And 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

12

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 95**

ID	Location	Category	Description
3	74m N	ROCK	Coal seam, inferred

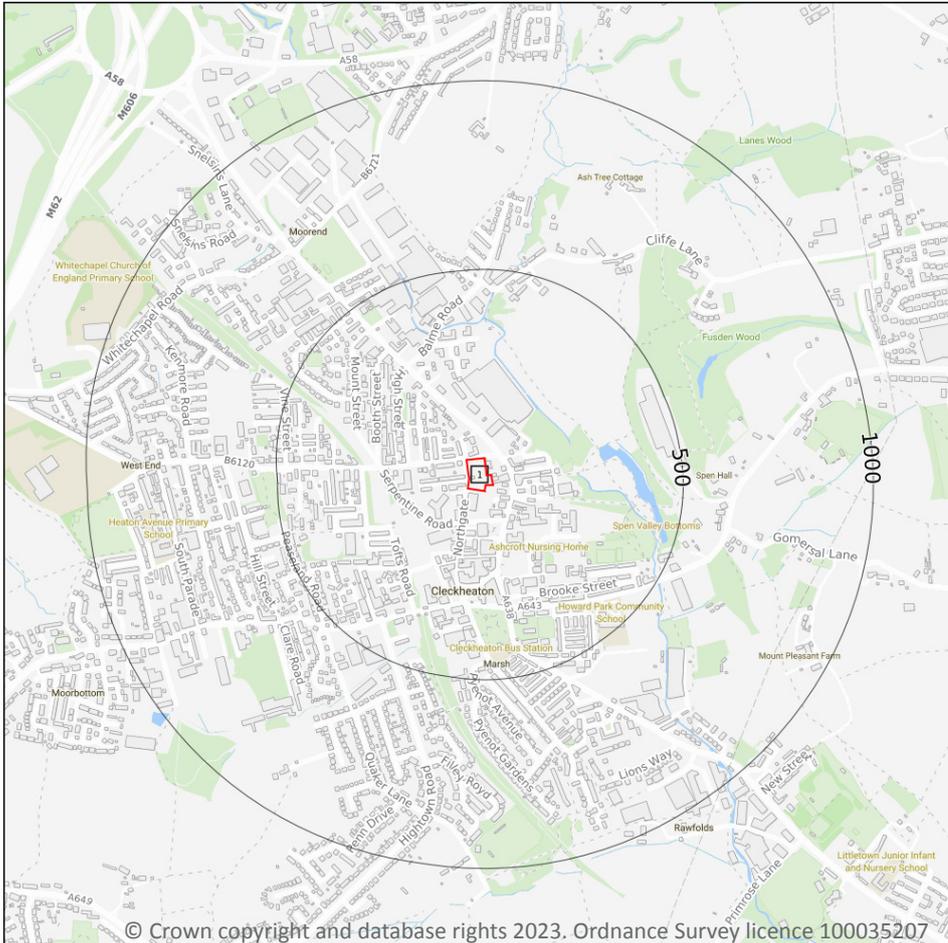


ID	Location	Category	Description
5	127m NW	FAULT	Normal fault, inferred
8	132m N	FAULT	Normal fault, inferred
9	138m NW	ROCK	Coal seam, inferred
12	159m NE	FAULT	Normal fault, inferred
13	233m W	ROCK	Coal seam, inferred
16	266m S	FAULT	Normal fault, inferred
22	410m N	FAULT	Normal fault, inferred
24	462m E	ROCK	Coal seam, inferred
25	468m NW	ROCK	Coal seam, inferred
27	477m E	ROCK	Coal seam, inferred
29	493m 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.

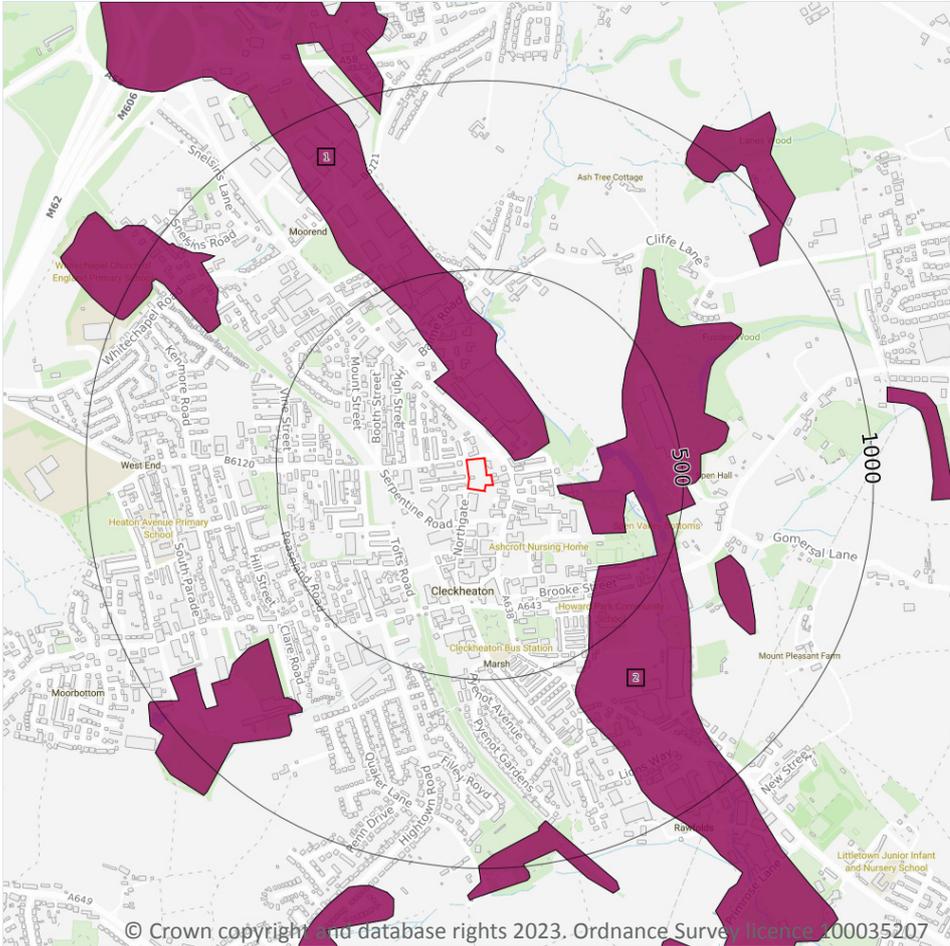
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 98](#)

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

This data is sourced from the British Geological Survey.



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



15.2 Artificial and made ground (50k)

Records within 500m

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 99**

ID	Location	LEX Code	Description	Rock description
1	58m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	168m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

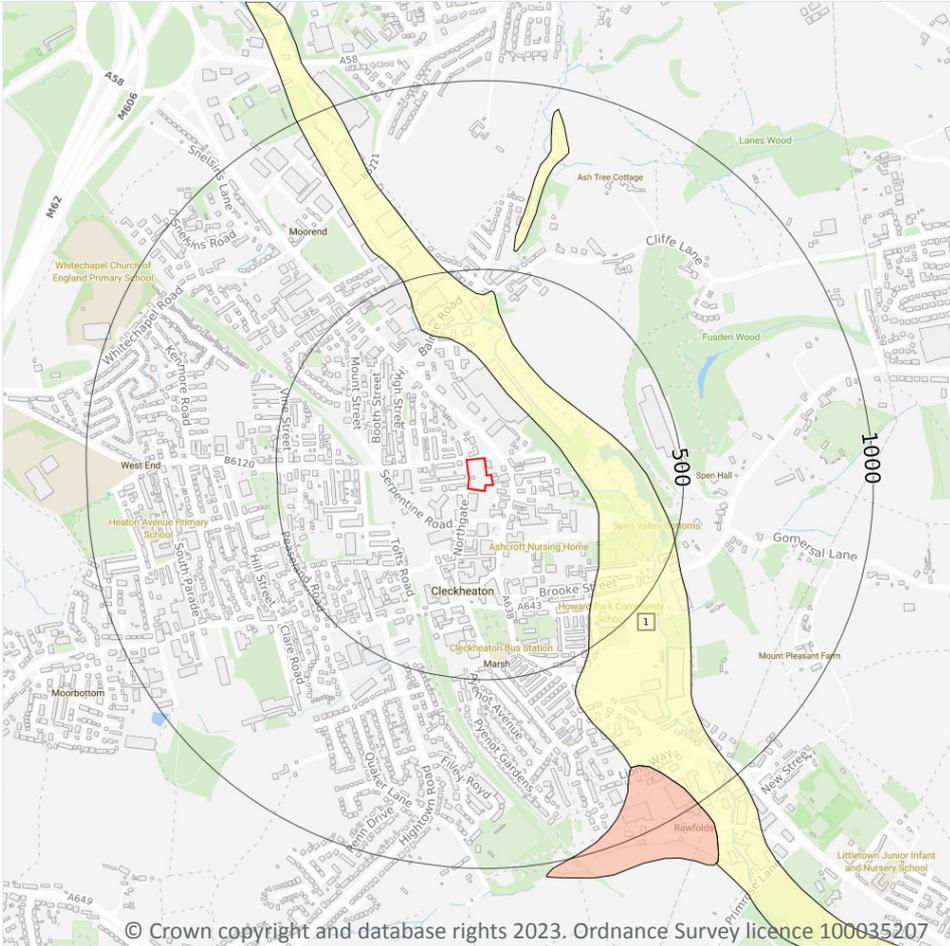
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▨ Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 101**

ID	Location	LEX Code	Description	Rock description
1	163m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

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

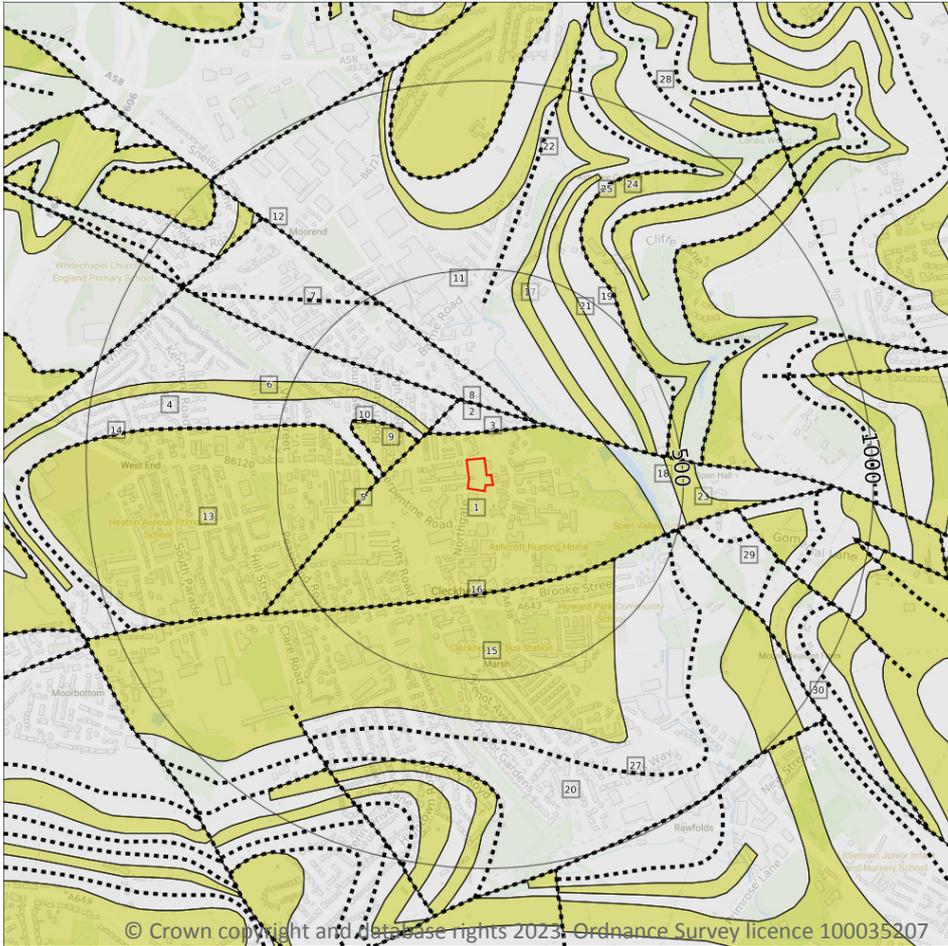
0

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

18

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 103**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
2	69m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	124m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	125m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
7	130m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	135m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
11	157m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	237m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
15	267m S	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
17	280m NE	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
18	304m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	314m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	375m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	390m NE	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
23	454m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
24	464m E	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
28	493m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
29	497m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.



15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
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

12

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.

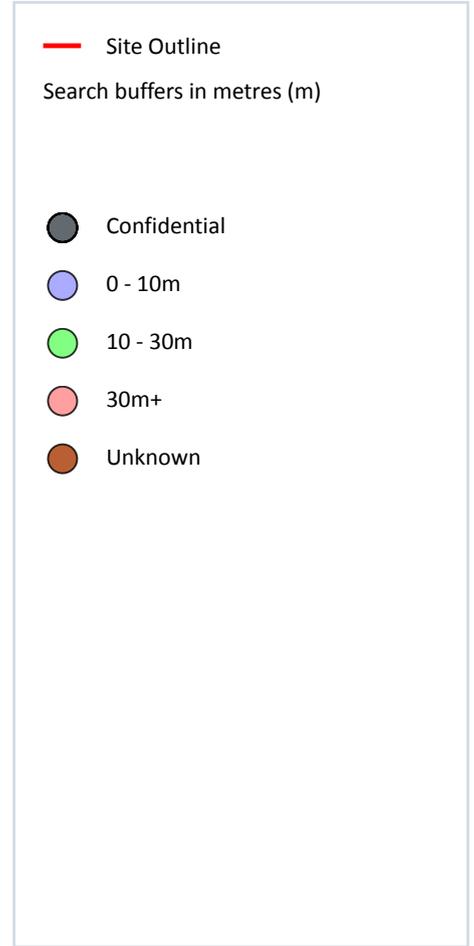
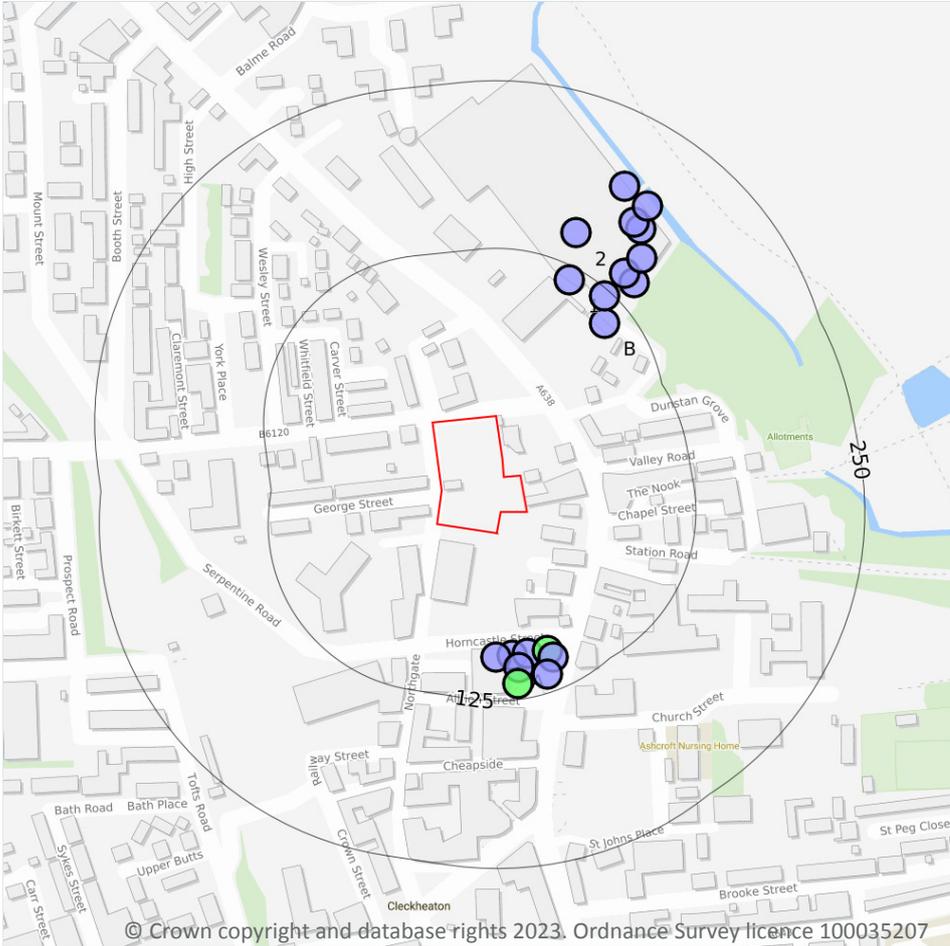
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 103**

ID	Location	Category	Description
3	69m N	ROCK	Coal seam, inferred
5	124m NW	FAULT	Fault, inferred
8	130m N	FAULT	Fault, inferred
10	135m NW	ROCK	Coal seam, inferred
12	157m NE	FAULT	Fault, inferred
14	237m W	ROCK	Coal seam, inferred
16	267m S	FAULT	Fault, inferred
22	411m N	FAULT	Fault, inferred
25	464m E	ROCK	Coal seam, inferred
26	469m NW	ROCK	Coal seam, inferred
27	478m E	ROCK	Coal seam, inferred
30	497m E	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

19

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

Features are displayed on the Boreholes map on **page 106**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	92m S	419067 425451	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON TP2	1.2	N	18525828
A	92m S	419078 425453	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON R1A	2.5	N	18525829

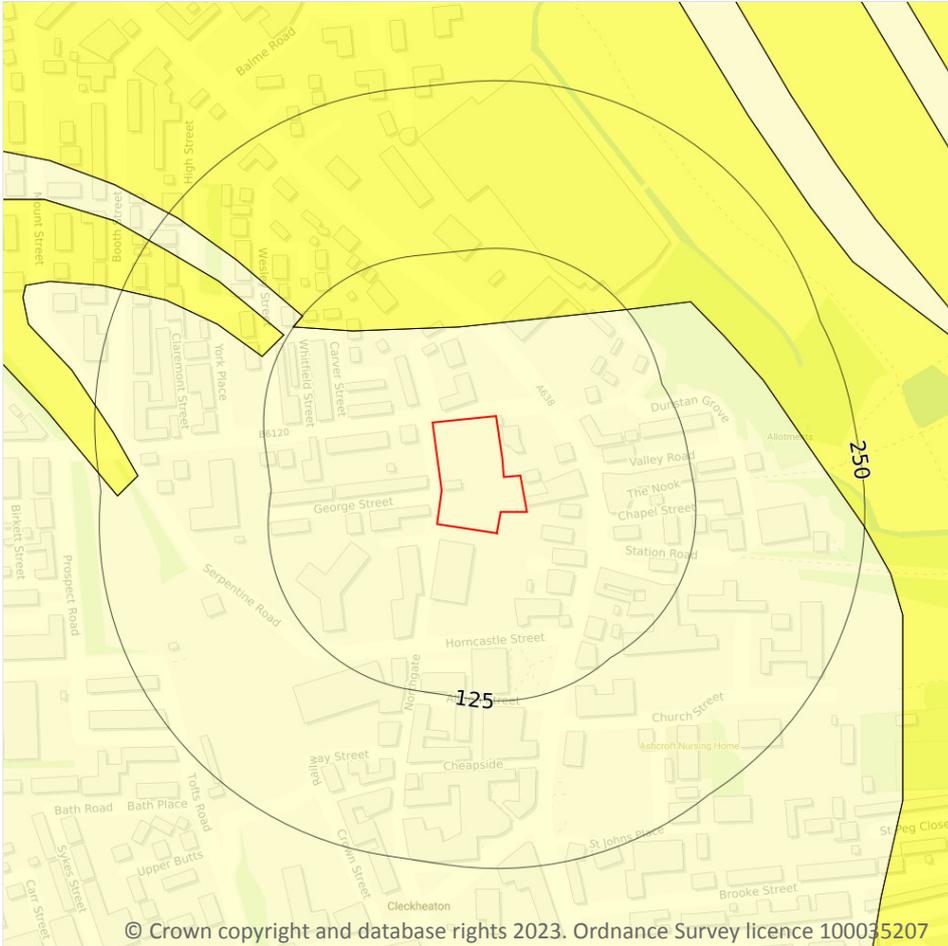


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	92m S	419055 425450	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON TP1	1.2	N	18525827
A	95m SE	419093 425455	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON R1B	30.0	N	18525830
A	101m SE	419097 425450	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON 3	3.1	N	18525825
A	102m S	419072 425442	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON 2	4.0	N	18525826
B	106m NE	419135 425699	CENTRAL MILLS CLECKHEATON TP8	2.8	N	19208167
A	112m S	419093 425437	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON 1	5.0	N	18525824
A	113m S	419071 425430	RETAIL DEVELOPMENT, BRADFORD RD, CLECKHEATON R2	30.0	N	18525831
1	115m NE	419109 425731	CENTRAL MILLS CLECKHEATON 1	7.0	N	19208133
B	120m NE	419135 425719	CENTRAL MILLS CLECKHEATON TP7	3.0	N	19208166
B	142m NE	419157 425729	CENTRAL MILLS CLECKHEATON TP6	2.0	N	19208164
B	143m NE	419150 425736	CENTRAL MILLS CLECKHEATON 3	9.0	N	19208140
2	149m NE	419114 425766	CENTRAL MILLS CLECKHEATON TP2	3.3	N	19208147
B	160m NE	419163 425747	CENTRAL MILLS CLECKHEATON TP4	3.0	N	19208154
B	176m NE	419162 425769	CENTRAL MILLS CLECKHEATON TP3	3.0	N	19208149
B	177m NE	419157 425774	CENTRAL MILLS CLECKHEATON 2	9.5	N	19208136
B	192m NE	419167 425786	CENTRAL MILLS CLECKHEATON TP5	2.4	N	19208161
B	196m NE	419150 425801	CENTRAL MILLS CLECKHEATON TP1	3.0	N	19208143

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

1

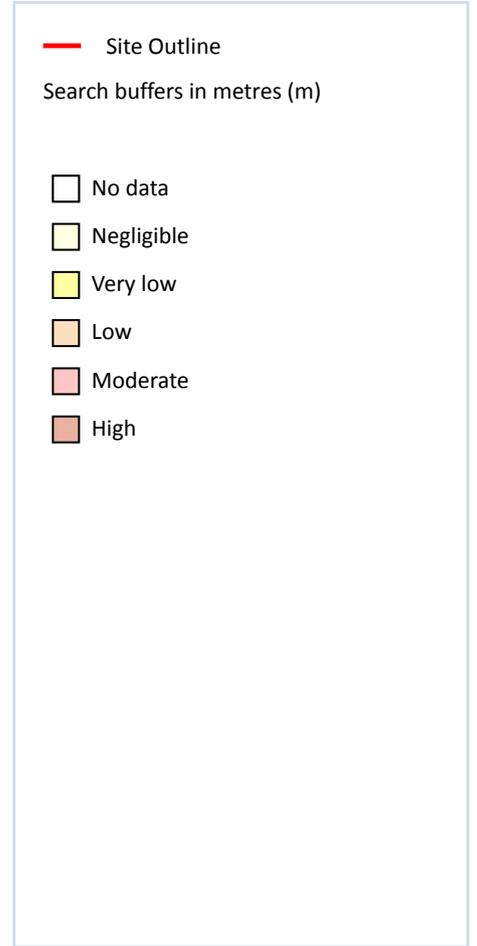
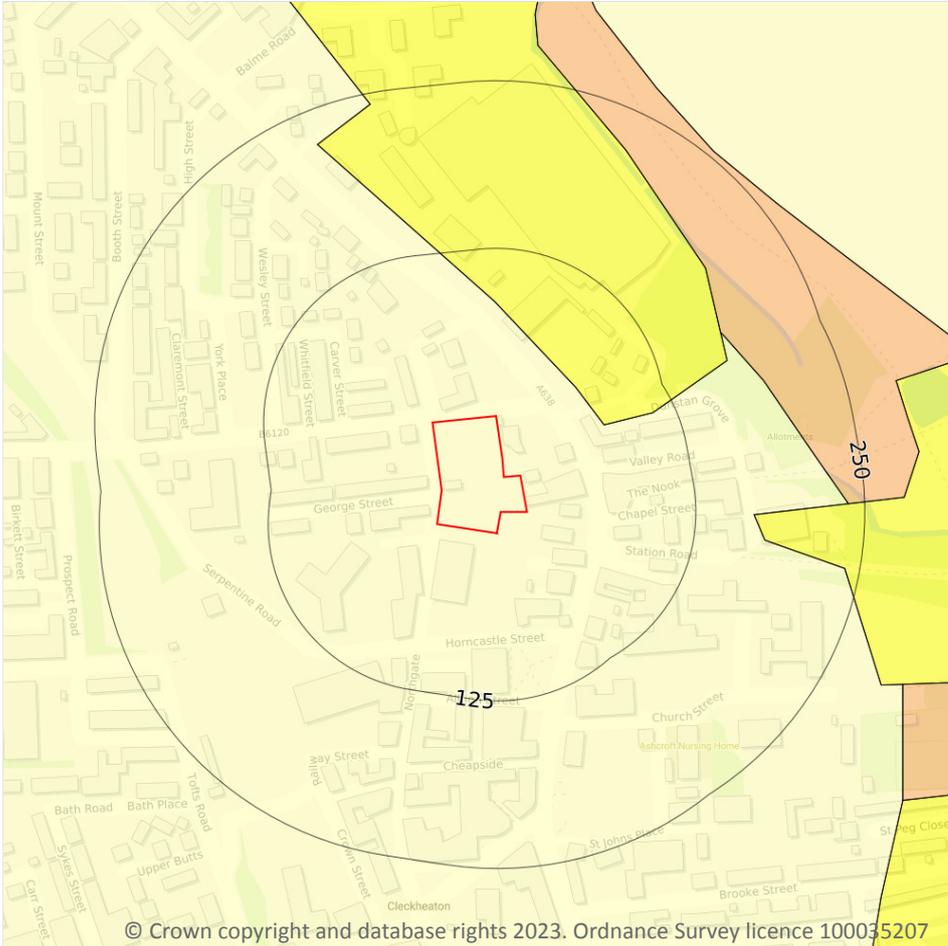
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 108**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

1

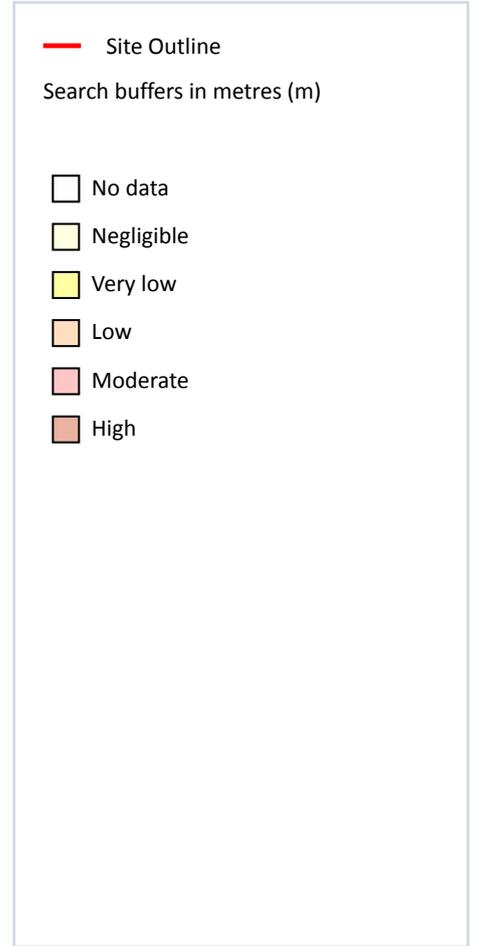
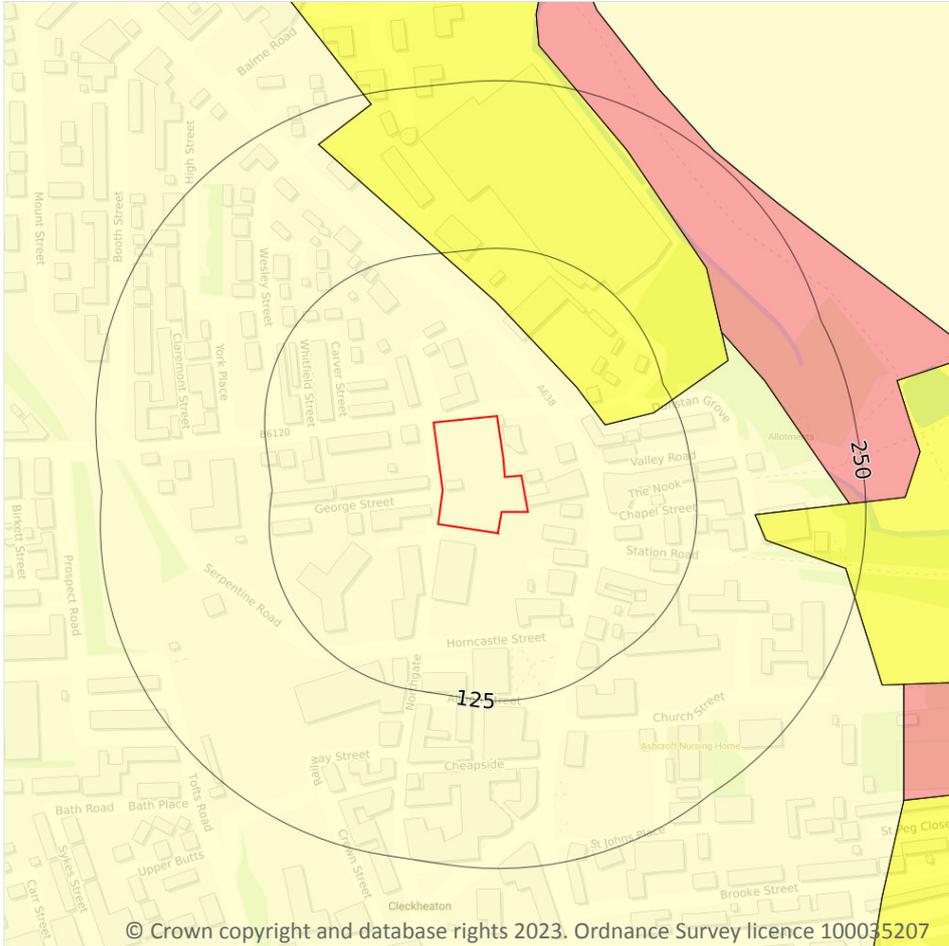
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 109**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

1

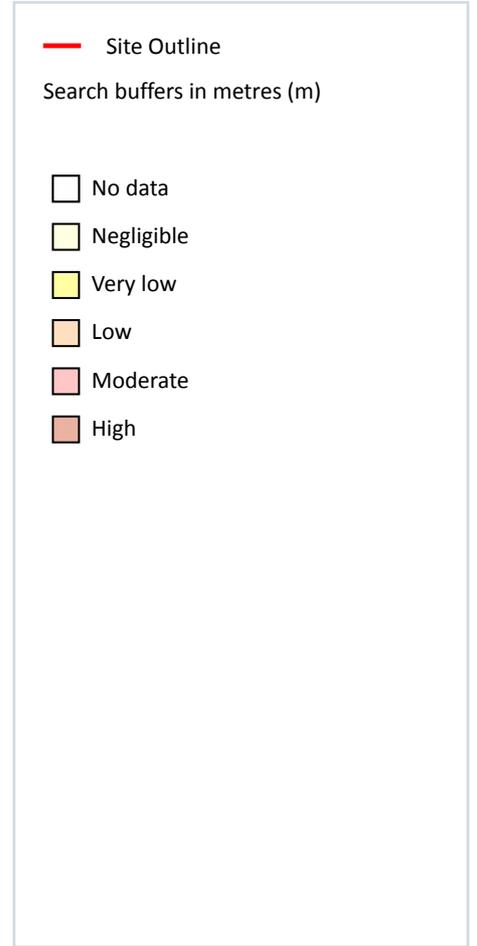
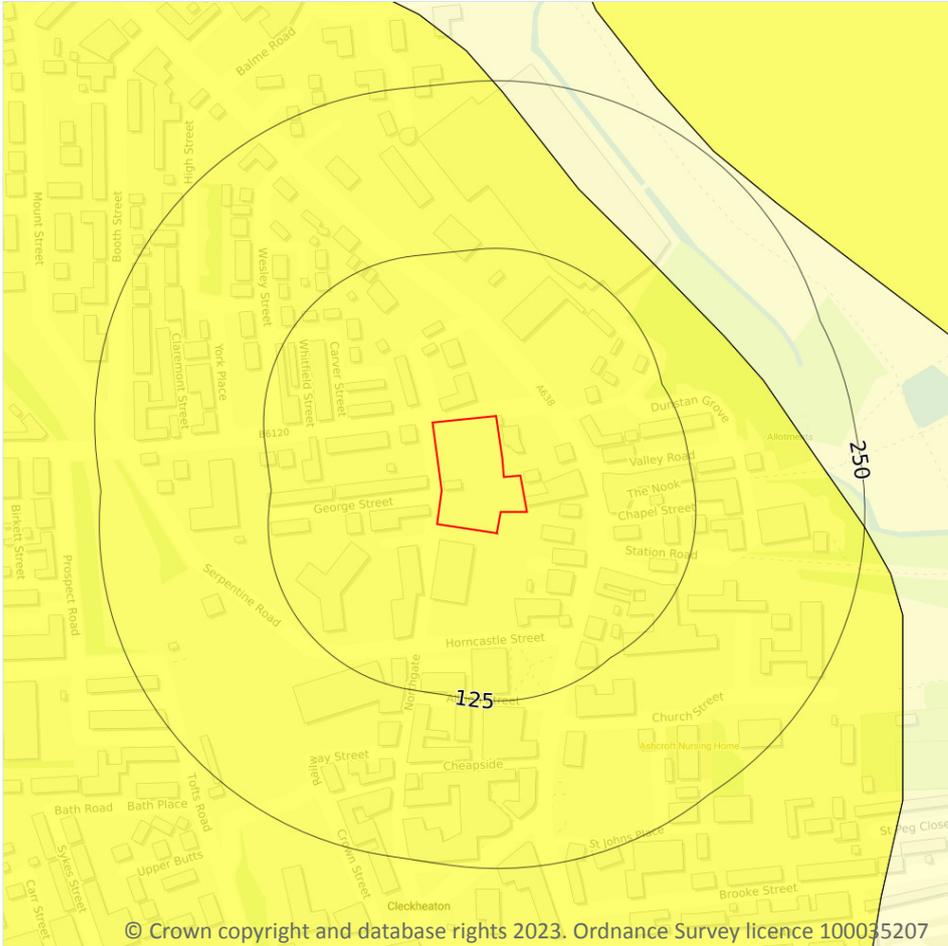
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 110**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

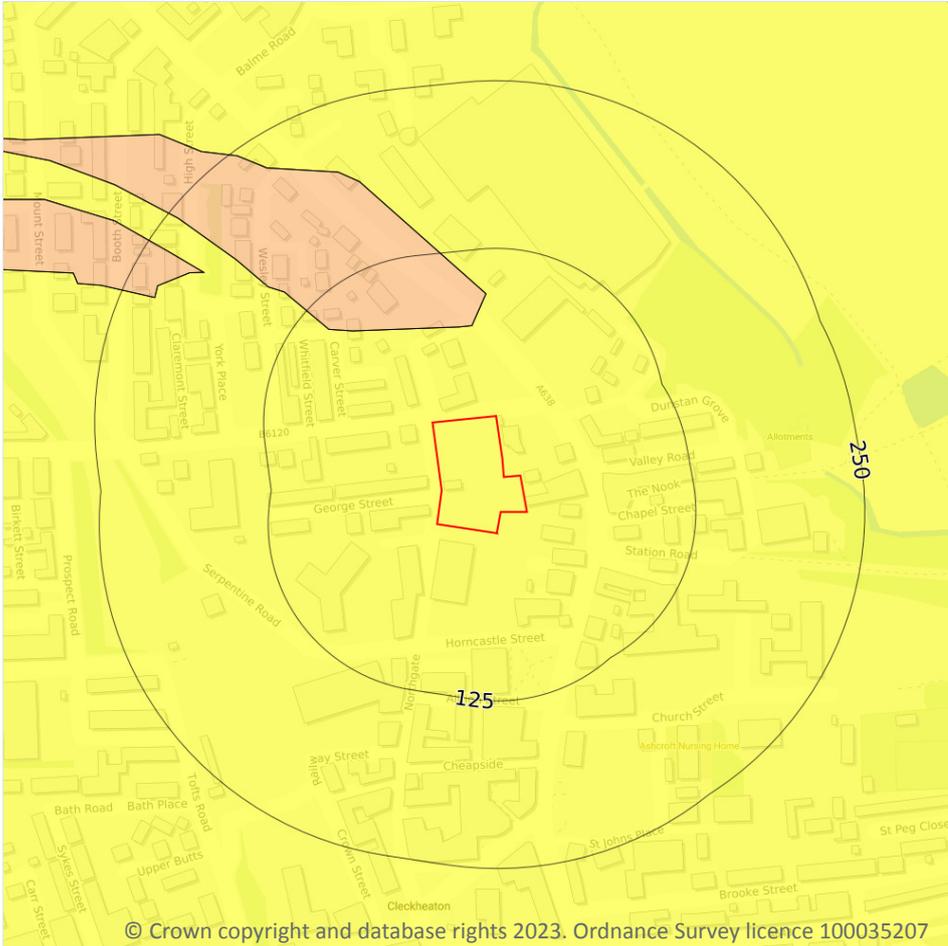
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 111**

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

1

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

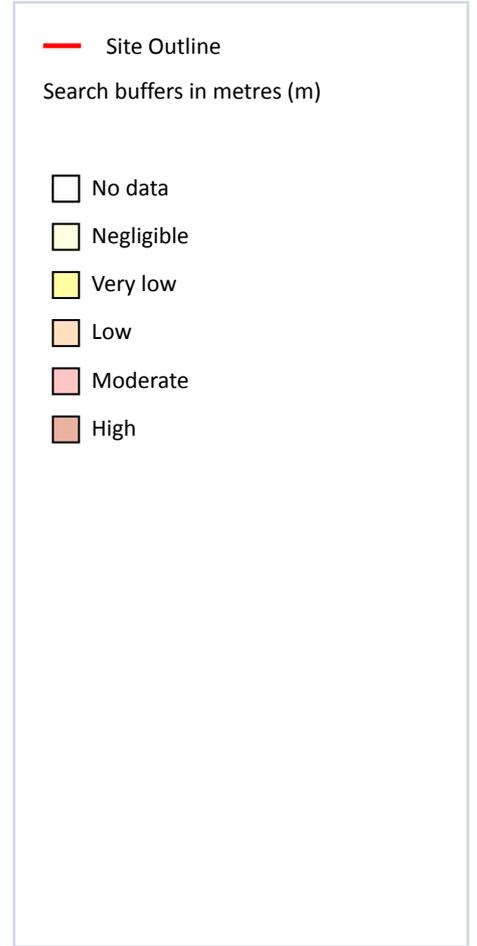
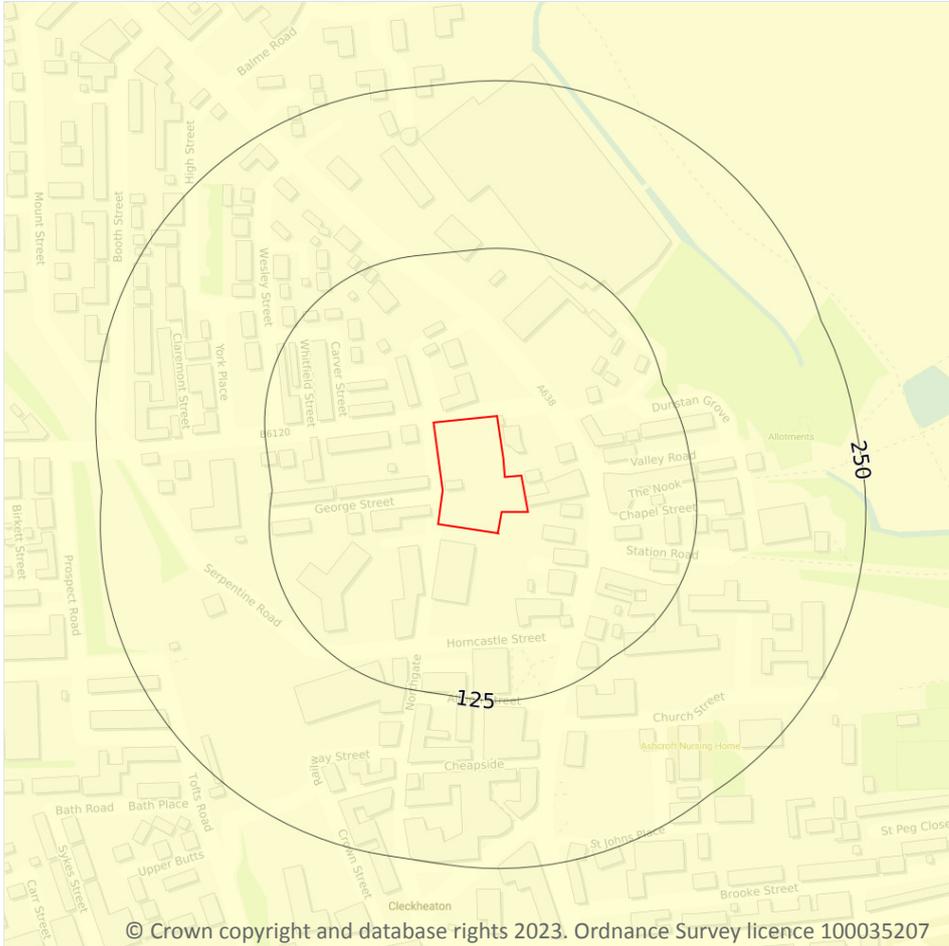
Features are displayed on the Natural ground subsidence - Landslides map on **page 112**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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.

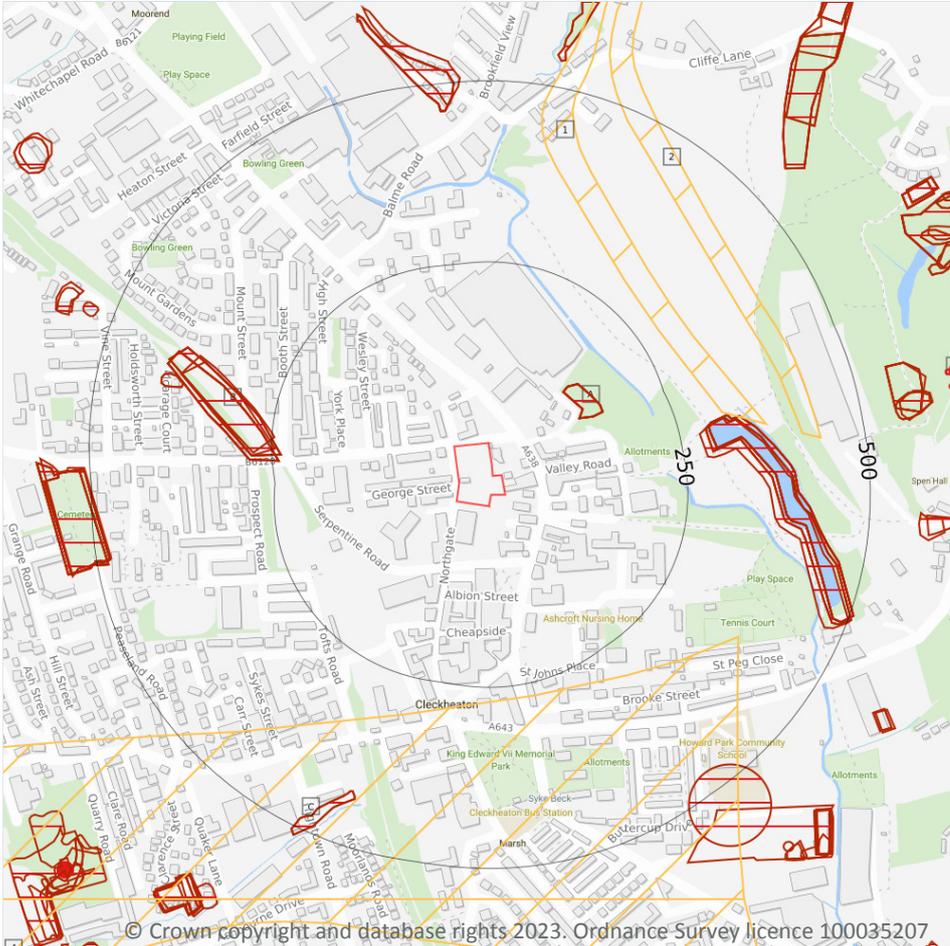
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 113**

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, ground workings and natural cavities



18.1 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.

18.2 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

13

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, ground workings and natural cavities map on **page 115**

ID	Location	Land Use	Year of mapping	Mapping scale
A	124m NE	Unspecified Heap	1990	1:10000
A	124m NE	Unspecified Heap	1983	1:10000
A	124m NE	Unspecified Heap	1974	1:10000
A	124m NE	Unspecified Heap	1967	1:10560
B	238m W	Cuttings	1990	1:10000
B	238m W	Cuttings	1983	1:10000
B	238m W	Cuttings	1974	1:10000
B	241m W	Cuttings	1948	1:10560
B	241m W	Cuttings	1938	1:10560
B	241m W	Cuttings	1905	1:10560
B	241m W	Cuttings	1892	1:10560
B	246m W	Cuttings	1967	1:10560
B	247m W	Cuttings	1955	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

8

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 115**

ID	Location	Land Use	Year of mapping	Mapping scale
O	625m E	Unspecified Old Shafts	1948	1:10560
O	625m E	Unspecified Old Shafts	1932	1:10560
O	626m E	Unspecified Old Shafts	1948	1:10560
O	626m E	Unspecified Old Shafts	1932	1:10560
O	631m E	Unspecified Old Shafts	1951	1:10560
O	631m E	Unspecified Old Shafts	1951	1:10560
-	643m N	Colliery	1892	1:10560
-	662m S	Colliery	1892	1:10560

This is data is sourced from Ordnance Survey/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

10

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 115**



ID	Location	Name	Commodity	Class	Likelihood
C	267m S	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
1	280m NE	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	390m NE	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	542m S	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	871m E	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	917m E	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	919m NW	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	922m E	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	934m SE	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
-	937m E	Leeds/Bradford area	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.



18.7 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.

18.8 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.

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

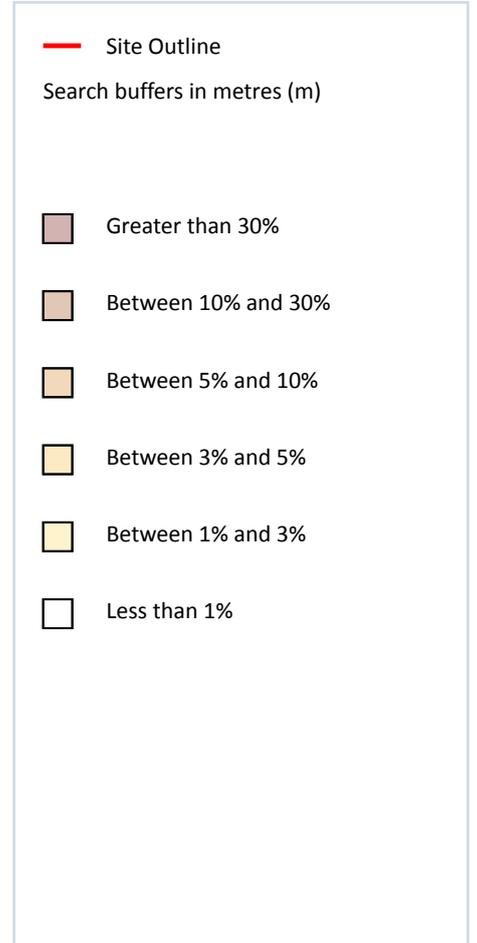
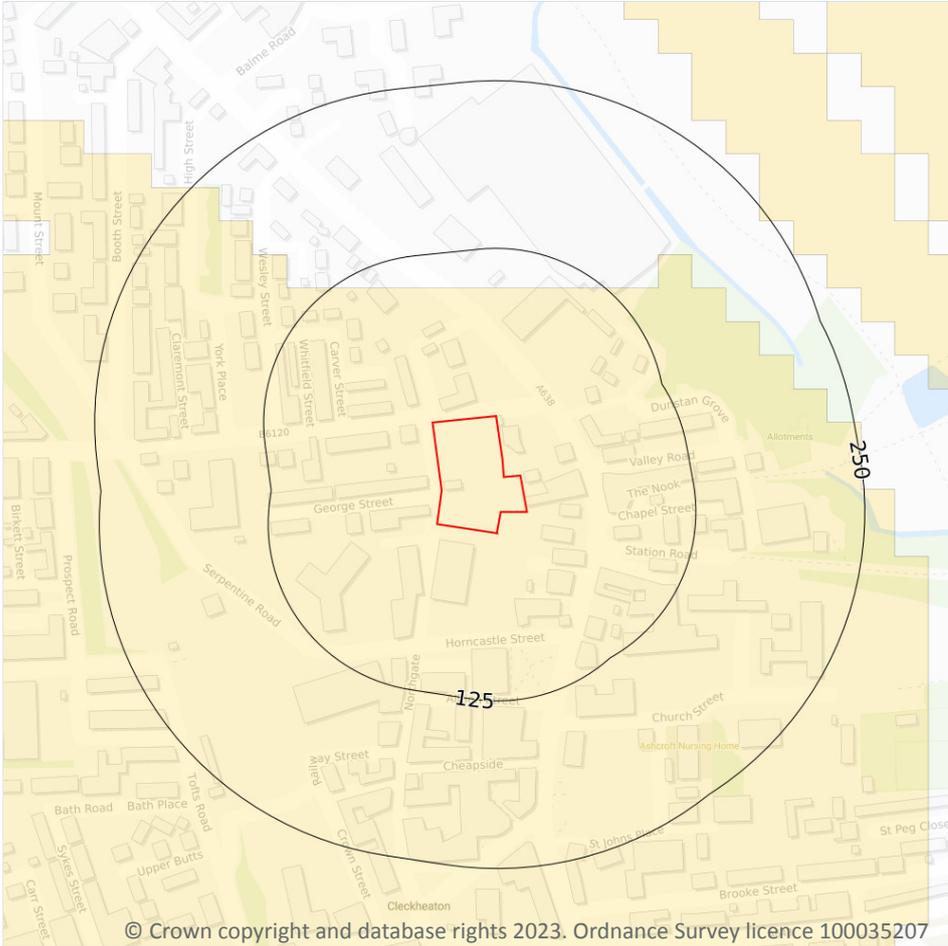
18.13 Clay mining

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 Radon



19.1 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 121**

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



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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	35 - 45 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
8m NW	35 - 45 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
42m S	35 - 45 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

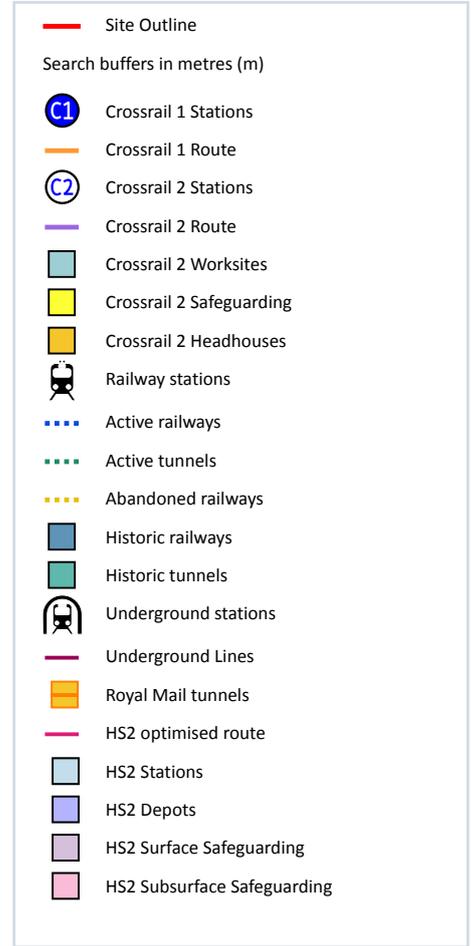
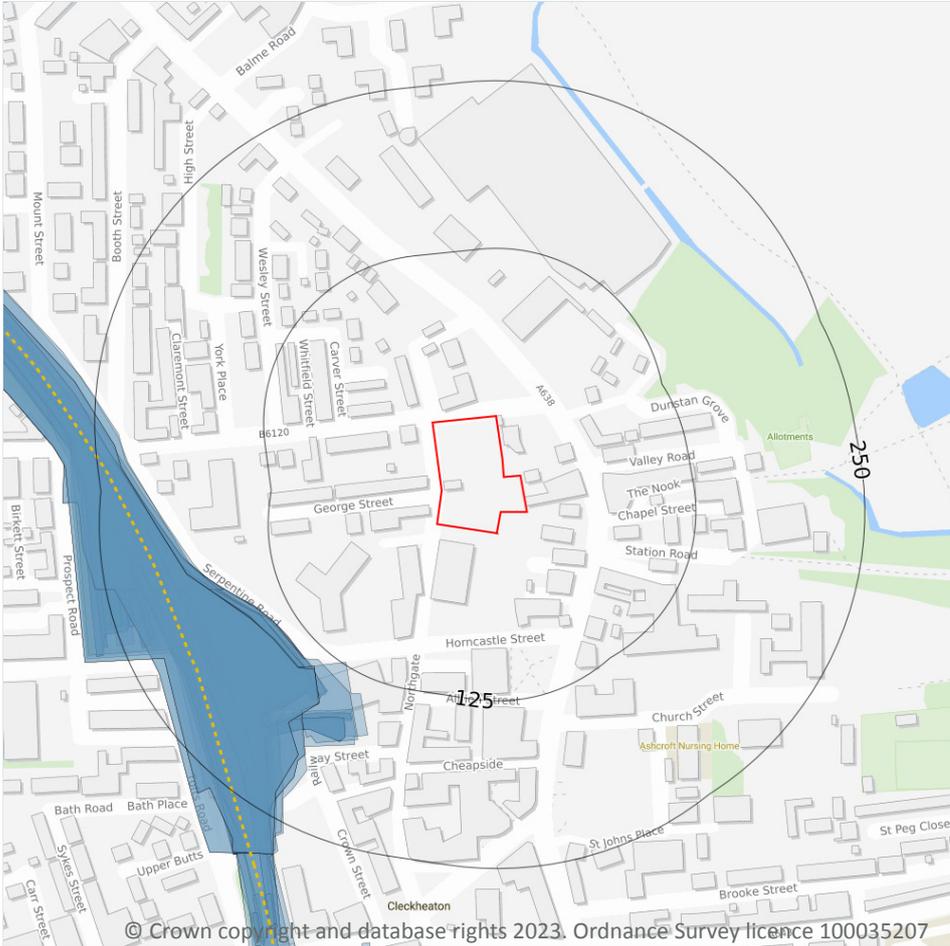
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m	0
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Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	28
----------------------------	-----------

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
123m SW	Railway Sidings	1967	10560
134m SW	Railway Sidings	1955	10560
139m SW	Railway Sidings	1968	2500
139m SW	Railway Sidings	1957	2500
139m SW	Railway Sidings	1957	1250
140m SW	Railway Sidings	1892	10560
140m SW	Railway Sidings	1905	10560
141m SW	Railway Sidings	1948	10560
141m SW	Railway Sidings	1938	10560
142m SW	Railway Sidings	1948	10560
144m SW	Railway Sidings	1907	2500
144m SW	Railway Sidings	1894	2500
144m SW	Railway Sidings	1922	2500
144m SW	Railway Sidings	1933	2500
144m SW	Railway Sidings	1938	2500
166m SW	Railway Sidings	1957	1250
166m SW	Railway Sidings	1966	1250



Location	Land Use	Year of mapping	Mapping scale
190m SW	Railway Sidings	1971	1250
202m W	Railway Sidings	1994	1250
204m SW	Railway Sidings	1971	1250
204m SW	Railway Sidings	1948	10560
205m W	Railway Sidings	1957	1250
205m W	Railway Sidings	1966	1250
224m SW	Railway Sidings	1957	1250
224m SW	Railway Sidings	1971	1250
233m W	Railway Sidings	1957	1250
233m W	Railway Sidings	1971	1250
241m W	Railway Sidings	1957	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 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.

21.6 Historical railways

Records within 250m	1
----------------------------	----------

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

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

Location	Description
206m SW	Abandoned

This data is sourced from OpenStreetMap.



21.7 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.

21.8 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.

21.9 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.

21.10 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: <https://www.groundsure.com/terms-and-conditions-april-2023/>.



APPENDIX 3
COAL AUTHORITY REPORT



The Coal
Authority

CON29M

coal mining report

87 NORTHGATE, CLECKHEATON, KIRKLEES, BD19 3LX



Known or potential coal mining risks

Future underground coal mining

Page 4



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **G23144**
Our reference: **51003349624001**
Date: **14 April 2023**

Client name:
GEOINVESTIGATE

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk

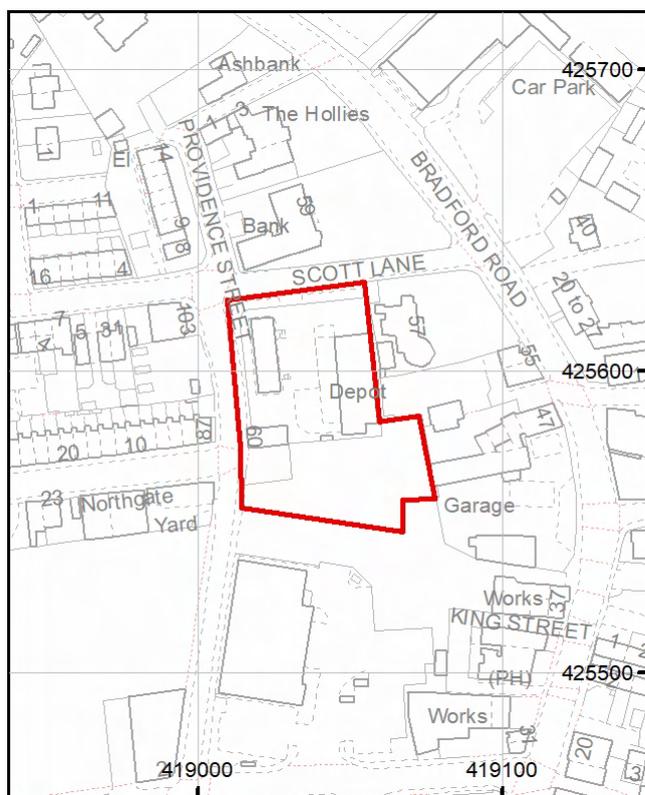


The Law
Society

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Professional opinion



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 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.

If you are looking to develop, or undertake works, within a coal mining development high risk area your Local Authority planning department may require a Coal Mining Risk Assessment to be undertaken by a qualified mining geologist or engineer. Should you require any additional information then please contact the Coal Authority on **0345 762 6848** or email cmra@coal.gov.uk.



Site investigations

The following site investigation(s) took place in the location area:

A site investigation was carried out in April 2019 by Geoinvestigate Ltd, Unit 3A Ellerbeck Way, Stokesley, Middlesbrough, TS9 7AE.

Additional information regarding these investigations may be available from the company or companies listed above.

Detailed findings

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1 Past underground coal mining

The property is not within a surface area that could be affected by any past recorded underground coal mining.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

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.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 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.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **0800 288 4242**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

mine gas - reports of alleged mine gas emissions received by the Coal Authority within 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

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings