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**PROPOSED RESIDENTIAL DEVELOPMENT
MARLAND FOLD
OFF BIRCHFIELD DRIVE
ROCHDALE**

FOR

MR. J. WHEELDON

NOVEMBER 2024

**PHASE 1 GEO-ENVIRONMENTAL DESK
STUDY REPORT**

24143/GEDS

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PHASE 1 GEO-ENVIRONMENTAL DESK STUDY REPORT

MARLAND FOLD, OFF BIRCHFIELD DRIVE, ROCHDALE

1.0 INTRODUCTION

1.1 Instructions

- 1.1.1 We are instructed by Mr J. Wheeldon of Marland Mill Farm to carry out a detailed Phase I desk study at Marland Fold, off Birchfield Drive, Rochdale to examine the geotechnical and geoenvironmental risks associated within the proposed development.

1.2 Objectives

- 1.2.1 This environmental assessment has been carried out in accordance with the principal recommendations of BS10175: 2011 "Investigation of Potentially Contaminated Sites" with regard to the consideration of potential soil and groundwater contamination along with the generation and migration of toxic and explosive ground gases. It is intended that the report will be submitted to the local planning authority as a preliminary risk assessment in support of a planning application. This report has been prepared to document the following: -

- Review of readily available published data which could provide information on the current status, ground conditions and site history.
- Findings of a preliminary contaminated land risk assessment.
- Findings of a preliminary geo-technical risk assessment.

1.3 Sources of Information

- 1.3.1 This report has been prepared using information from the following sources: -

- Groundsure Enviro+Geo Insight report dated 15th October 2024
- Groundsure historic Ordnance Survey maps.
- Environment Agency information.
- Walkover survey of the site conducted 22nd October 2024

1.4 Development Proposals

- 1.4.1 At the time of preparation of this report we have been provided with a Sketch Layout (drawing number 2098-MPD/DGLP-SK01, dated April 2024) which shows the construction of six (6 No.) detached residential properties, with vehicular access, private parking and garden areas.
- 1.4.2 It is acknowledged that the development proposals for this site are likely to be amended as a result of local planning requirements. It is however anticipated that the current proposals will be representative of the final development approval. However, if the final development proposals are radically different from the current proposals, then recommendations made within this report may become inappropriate.

1.5 Limitations of Report

- 1.5.1 This report is a desk study report which has been prepared using readily available information in accordance with the project stage requirements, budget and timescales. The opinions expressed in this report and the comments and recommendations given are based upon the information obtained from the desk assessment and an initial site reconnaissance. At this stage intrusive investigations have yet to be undertaken at site to establish actual ground and groundwater conditions and provide data for assessment of the environmental status of the site.
- 1.5.2 The information, views and conclusions drawn concerning the site are based in part on information supplied to Robert E Fry & Associates Ltd (REFA) by other parties. REFA has proceeded in good faith on the assumption that this information is accurate. REFA accepts no liability for any inaccurate conclusions, assumptions or actions taken resulting from any inaccurate information supplied to REFA from others.
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2.0 THE SITE

2.1 Location

- 2.1.1 The site is irregular in shape and extends to an area of 0.65 hectares, located approximately 2.0km west of Rochdale town centre. The centre of the site is situated at National Grid Reference SD 87905 12126. The location of the site is shown in figure 1.

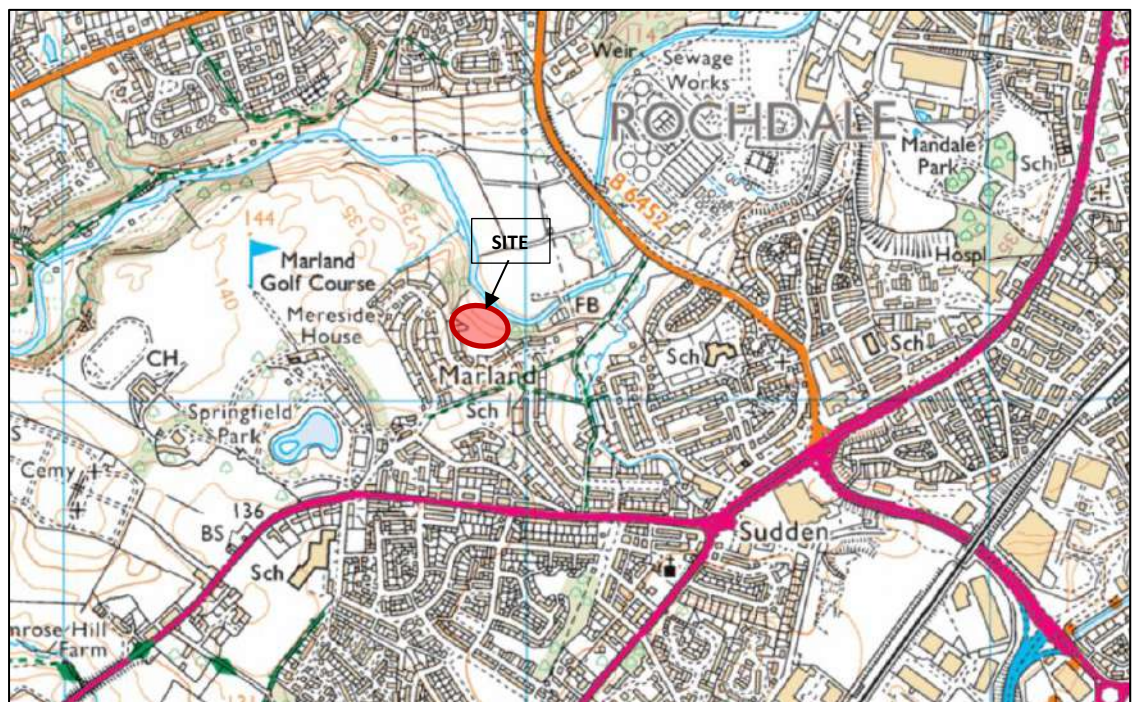


Figure 1 Site Location

2.2 Site Walkover

- 2.2.1 We have undertaken an initial walkover survey of the site to identify any areas which may impact upon the proposed site redevelopment works. These features are identified upon the Walkover Survey and Photo Location Plan which are appended to this report for reference (Drawing: 24143/01 and 24143/02).
- 2.2.2 The site walkover was conducted on the 22nd October 2024 and at the time of the survey the weather conditions were dry and windy. The site, during the walkover survey, contained an access route off Marland Fold which is a public footpath in between residential properties eighty-three (83) and eighty-five (85). The footpath was bound on both sides by wooden fencing. A metal gate at the bottom of the footpath, south of the site, enabled access onto the site. West of the entrance is an electrical substation, surrounded by wooden fencing and metal gates which are padlocked to prevent unauthorised access. Adjacent to the substation are a series of trees, bushes and shrubland. The site is largely boarded by residential gardens, excluding the northern boundary, with numerous properties having a gated access point to the site. Some of the residential properties have hedgerows as opposed to wooden fencing. The northern boundary of the site consists of dense vegetation, including a variety of mature trees and bushes. North west of the site contains a section of well-maintained residential grassland and a bench. The remaining site area is natural grassland across differing elevations, the eastern and western boundaries are of higher elevation than the centre of the site.

2.3 Boundaries

- 2.3.1 The southern, western and eastern boundaries are formed by residential properties along Marland Fold, whilst the northern boundary leads onto an area of dense vegetation.

2.4 Access

- 2.4.1 Access into the site was gained via a footpath off Marland fold in between properties 83 and 85. It is believed that access into the development will remain in a similar configuration, in agreement with the local authority.

2.5 Topography

- 2.5.1 Generally the site has minimal topographical change, with levels slightly dipping towards the northern boundary. However. the topography of the site is not believed to pose a significant risk or constraint to the development.

2.6 Trees

- 2.6.1 Mature hedge rows are noted along most of the site boundaries, with dense vegetation along the northern boundary. It is recommended that an arboricultural report is undertaken for foundation design purposes.

3.0 DESK STUDY

- 3.0.1 As part of our environmental desk studies we have commissioned an Enviro+Geo Insight report by Groundsure which gives details of all recorded environmental and geological features relating to the site and its immediately surrounding area.

We have also obtained copies of all available old Ordnance Survey maps for the area, and these also give historical guidance regarding the former usage of the site area and its immediate vicinity.

3.1 Historical Industrial Sites

- 3.1.1 The Enviro-Insight report has identified fifty (50 No.) records of potentially contaminative past land uses within 500m of the search boundary, of which twenty-one (21 No.) are within 250m of the site. The closest of these records relates to a sewage farm located between 22m and 54m north east. A review of the historical mapping show the sewage farm was lost from the survey by 1987, with the area remaining as a disused parcel of land since. The River Roch acts as a natural barrier between the former sewage farm and the development site and so the potential for any migration of contamination is minimal.
- 3.1.2 The environmental report has identified twenty-seven (27 No.) historical tanks within 500m of the site boundary. The first five records located between 98m east and 148m north east relate to the former sewage works. Subsequent unspecified tanks are located from 206m south west.
- 3.1.3 The environmental report has identified fifteen (15 No.) historical energy features within 500m of the boundary. An electricity substation is noted as having been located within the site in 1983 and is equally displayed on the 1983 – 1988 historical OS maps. PCBs (polychlorinated biphenyls) are a synthetic chemical that was used in a variety of industrial products, including within the components of electricity substations. Use of PCBs were restricted in the UK from 1981 before ultimately becoming banned from 1986. They are generally relatively immobile contaminants but due to the age of the substation within the site, there will be a requirement for PCB testing.
- 3.1.4 There are no historical petrol stations or historical garages within 500m of the development site.

3.2 Environmental Permits & Incidents

- 3.2.1 The environmental report has not identified any licensed industrial activities (Part A (1)) or licensed pollutant releases (Part A(2)/B), within 250m of the site boundary.
- 3.2.2 The environmental report has not identified any licensed discharges to controlled waters or pollution incidents within 250m of the development site boundary, though there are records beyond this point.
- 3.2.3 The report has identified there are records for licensed discharge to controlled waters, pollutant release to surface waters (Red List), list 1 dangerous substances and list 2 dangerous substances within 500m of the search boundary. However, all records are in excess of 250m from the site and therefore are not believed to pose a risk to the development.
- 3.2.4 The groundsure report has recorded six (6 No.) records for pollution incidents (EA/NRW) within 500m of the boundary, with the first two records located 159m north east. These record relates to an incident that occurred in July 2022 but does not record the pollutant. There was no impact to the land or air and only a minor impact to water.

3.3 Landfill Sites

- 3.3.1 The Enviro-Insight report has not identified any active, recent or historical (BGS) landfills within 500m of the site boundary. There is however, one (1 No.) record for historical landfill (LA/mapping records) located 454m south east on the 1962 year of mapping. Due to the distance of this record from the development site, it is not believed to pose a contamination risk.
- 3.3.2 There is one (1 No.) record for a historical landfill (EA/NRW records) located 475m north east which is detailed to have accepted inert and industrial waste from April 1986 to December 1988.
- 3.3.3 The groundsure report has not identified any historical waste sites within 500m of the site boundary. The report has identified three (3 No.) licensed waste sites, however they lie in excess of 429m north east and are therefore at such a distance as to not affect the development of the site.
- 3.3.4 The report has identified two (2 No.) waste exemptions within 500m of the development site. The closest record is situation 251m south east at Marland Mill Farm for the use of waste in construction.

3.4 Current Land Uses

- 3.4.1 The environmental report has identified four (4 No.) records of current potentially contaminative industrial sites within 250m of the site boundary. The records show an electricity substation is situated within the development site and as such, due care is required when undertaking any works within the vicinity of the substation and full service plans are required prior to development. Subsequent records include a pylon (151m east), fencing manufacturer (173m north west) and an electricity substation (226m south).
- 3.4.2 The report has not identified any current or recent petrol stations within 250m of the site boundary, although records do exist beyond this point.
- 3.4.3 The Enviro-Insight report has not identified any National Grid high voltage transmission cables or National Grid high pressure gas transmission pipelines within 500m of the study site.

3.5 Hydrogeology & Hydrology

- 3.5.1 The Enviro-Insight report has identified that the underlying superficial deposits and bedrock are both designated as a Secondary A aquifer. These aquifers contain 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.
- 3.5.2 The groundwater vulnerability map of the site shows the superficial deposits to be of a medium vulnerability with thicknesses between 3m and 10m. The bedrock is considered to be of a medium vulnerability also with a flow mechanism of well connected fractures.
- 3.5.3 The environmental report has not identified any surface water abstraction licenses or groundwater abstraction licenses within 1,300m of the site boundary.
- 3.5.4 The environmental report has confirmed that the site is not located within a source protection zone.

- 3.5.5 The Enviro-Insight report has provided Environment Agency information on the groundwater vulnerability and soil leaching potential within the study site. This information classifies soil types within the site as having a low leaching class potential with a soil vulnerability category of low. These areas provide the greatest protection from pollution. They are likely to be characterised by low leaching with low permeability within the superficial deposits. It is considered that there is a minimal risk of contaminations migrating downwards into the underlying bedrock aquifer.
- 3.5.6 The environmental report has identified the presence of one (1 No.) Water Framework Directive (WFD) surface water body catchments on site. These lead to the protection of inland surface waters and groundwater through river basin-level management planning. The WFD has a water body catchment of the River Roch (Spodden to Irwell), with an operational catchment of the Roch Irk Medlock and management catchment of the River Irwell. The development of the site is not considered to pose a risk to these catchments, but protective measures must be put in place during construction.
- 3.5.7 The report has identified one (1 No.) record for WFD surface water body located 51m north east relating to the River Roch. The River Roch has a moderate ecological status but fails its chemical rating.
- 3.5.8 The Enviro-Insight report has identified one (1 No.) WFD groundwater body on site, relating to the Northern Manchester Carboniferous Aquifers, with a poor overall and chemical rating but a good quantitative rating.
- 3.5.9 There report has identified fifteen (15 No.) water networks (OS Master Map) records within 250m of the site. The closest record is situated 46m north east relating to the River Roch, an inland river not influenced by normal tidal action. The watercourse contains water all year round in normal circumstances.

3.6 Flooding

- 3.6.1 The Ambiantal Risk Analytics surface water Flood Map identifies areas likely to flood as a result of extreme rainfall events. The map shows the highest risk on site is negligible, whilst the highest risk within 50m is 1 in 100 years, greater than 1.0m.
- 3.6.2 Groundwater flooding occurs when the water table rises above the ground surface or within underground structures. The highest risk to groundwater flooding on site and within 50m of the site is classified as moderate.
- 3.6.3 The report identifies the chance of the site from flooding from rivers and/or the sea in any given year, based on cells of 50m is not applicable, whilst within 50m the chance is high (greater than or equal to 1 in 30 chance).
- 3.6.4 The area 29m north east of the site boundary has been designated as Flood Zone 2, whilst 35m north east is within Flood Zone 3. These rating relate to areas of land at risk of flooding, when the presence of flood defences are ignored.

3.7 Environmentally Sensitive Sites

- 3.7.1 The environmental report has identified that the site is not located within special areas of conservation or sites of special scientific interest.
- 3.7.2 The site is located within a SSSI Impact Risk Zone and therefore an initial assessment of the potential risks to the SSSI are needed relating to the development proposals.

The zones around each SSSI reflect particular sensitivities of the features for which could have potentially adverse impacts.

- 3.7.3 The agricultural land classification is used to assess the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. The site is classified as grade 4 which correlates to poor quality agricultural land with severe limitations, restricting the range of crops and/or level of yields.
- 3.7.4 The report has noted two (2 No.) records for deciduous woodland within the site based on the Priority Habitat Inventory. These relate to habitats of principle importance as named under the Natural Environment and Rural Communities Act (2006), Section 41.

3.8 Geology

- 3.8.1 The report has identified an area of made ground located 139m north of the development site. A review of historical mapping shows the area formed filter beds as part of the sewage works. However, despite the made ground deposits being less than 250m from the development site, the presence of the River Roch to the north and changing site levels will act as a natural barrier to the movement of ground gases.
- 3.8.2 A review of BGS mapping shows the superficial deposits across the site are likely to comprise of glaciofluvial sands and gravels. The qualitative classification of estimated rates of vertical movement of groundwater from ground surface through the unsaturated zone within the superficial deposits are considered to have a high to very high permeability with an intergranular flow type.
- 3.8.3 The underlying solid geology predominantly comprises of the Pennine Lower Coal Measures Formation of interbedded mudstone, sandstone and siltstone. The very northern extent of the site is possibly underlain by Riddle Scout Rock of sandstone lithology. The underlying bedrock is considered to have a low to moderate permeability with a fracture flow type.
- 3.8.4 Mapping has highlighted the presence of both an inferred coal seam and a normal inferred fault within the development site. The coal seam will require detailed investigation whilst the fault means any foundations will most likely require a reinforcement.
- 3.8.5 The geological report identifies that the majority of the site is not within a radon affected area as less than 1% of properties are above the action level. The very southern and western extent lie within an area where between 1% and 3% of properties are above the action level. Nevertheless, no radon protective measures are required.

3.9 Ground Workings

- 3.9.1 The geological report has identified nine (9 No) records of surface ground workings within 250m of the site boundary. All records relate to the former sewage works to the north and reference the sewage farm, sewage purification, settling tanks, filter beds and sludge beds.
- 3.9.2 The geological report has not identified any underground workings or historical mineral planning areas within 250m of the site, although records do exist from 400m north east.

3.10 Mining & Ground Stability

3.10.1 The Groundsure report has indicated that the site lies within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report has been obtained (report reference: 51003456814001, dated 15th October 2024). The report notes the Arley Mine outcrops within the site and there is the potential for shallow unrecorded workings. As such, there will be a requirement for further detailed investigations within the site focussing specifically on delineating the depth to bedrock and then depth to the Arley Mine. Permission from the Coal Authority will be required before any investigations can take place, in the form as a permit to work.

3.10.2 The report indicates that there is a 'very low' hazard rating for collapsible deposits and shrink swell clays. Whilst there is a 'low' risk of running sand deposits, a 'moderate' risk for landslides and compressible deposits and a 'negligible' risk for ground dissolution of soluble rocks.

3.11 BGS Boreholes

3.11.1 The report has identified eight (8 No.) BGS borehole records within 250m of the development site. The closest of these records is located 161m north at Roch Mills Treatment Works and has identified made ground overlying loose becoming dense sands and gravels, with weathered mudstone bedrock from 6.4m below ground level.

3.12 Background Soil Chemistry

3.12.1 The Geo-Insight report includes and estimated geometric mean soil concentration for various elements. Assessment of this information suggests that all the determinants are at concentrations below the current tier one assessment criteria.

3.13 Railways and Tunnels

3.13.1 The Groundsure report has not identified any railway infrastructure and projects within 250m of the development site.

3.14 Site History

3.14.1

Table 1: Review of Historical Maps & Aerial Photographs		
Date	Site	Adjoining Land
1851	The site is divided into several parcels of farmland, bound to the north by Marland Wood.	The River Roch is located 51m north east, whilst the wider surrounding area is predominantly farmland. Marland village is located 100m south west, with Marland Mill (corn) located 250m south east.
1890 – 1891	No significant changes.	Marland Hospital (infectious diseases) has been constructed 250m south west. High Birch, a large home surrounded by grounds has been developed 50m south. There has been a change in field boundaries directly north of the River Roch.
1908 – 1910	No significant changes.	Marland Mill is no longer represented on the maps. Area to the north of the river now shows filter beds with sluice, forming a sewage farm. Settling tanks and aqueduct are located 100m north east. Expansion of Marland village with an increase in residential properties.

Table 1: Review of Historical Maps & Aerial Photographs (Cont'd)		
Date	Site	Adjoining Land
1928 – 1930	No significant changes.	Expansion of Marland Hospital. Further expansion and development of the sewage farm to include filter beds, humus tanks and a pumping station.
1938	No significant changes.	No significant changes.
1956 – 1957	No significant changes.	High Brich has been developed into a High Birch School with playing fields. The settling tanks, aqueduct and sluices 100m north east are no longer represented on the maps.
1968	No significant changes.	Sewage Farm labelled as Sewage Purification Works.
1975 - 1978	No significant changes.	Expansion of Marland and Rochdale District with an increase in residential properties and associated infrastructure. Marland Fold and residential estate has been constructed along the western boundary. The sewage works have experienced a decrease in the number of filter beds.
1983 – 1988	Electricity Substation noted within the site.	Extension of Marland Fold with residential properties now along the southern border of the site. Sewage farm is no longer represented on the maps and an area of disused land is noted in its place.
1991 – 1992	No significant changes.	No significant changes.
1999 – 2001	No significant changes.	No significant changes.
2012	No significant changes.	High Birch School has been demolished.
2019	No significant changes.	No significant changes.
2024	The site forms a grassed field surrounded by dense woodland and vegetation.	The site of the former school is undergoing redevelopment to contain residential properties.

3.14.2 Careful appraisal of all available historical information shows the site has remained a parcel of land since the earliest available mapping. An electricity substation was constructed within the site between 1983 and 1988, correlating to the expansion of Marland Fold residential estate to the south, west and east. The wider surrounding area has expanded over the years, with the construction of the hospital, schools and residential developments. A sewage farm was located directly north of the River Roch from around 1908 to 1988. Since the dismantling of the works, the land has remained disused.

4.0 REVIEW OF GEO-ENVIRONMENTAL RISK

4.1 Introduction

4.1.1 This element of the report is aimed at identifying possible risks, if any, arising from substances used or deposited on site or from other sources of land contamination. Both past and current potentially contaminative land uses have been considered.

4.1.2 The risk assessment utilises a source-pathway-receptor methodology for assessing whether a source of contamination could potentially lead to harmful consequences. This requires that there be a pollutant linkage from source to receptor for harm to be caused. The source-pathway-receptor methodology relationship allows an assessment of the environmental risk to be determined based upon the nature of the source, the degree of exposure of the receptor of the source and the sensitivity of the receptor.

Table 2: Statutory Receptors & Pathways	
Target (Receptor)	Potential Source – Pathway Linkage
Site Users / Residents	Inhalation of soil gas, odours or dust. Ingestion of, and skin contact with, contaminated soil. Ingestion of contaminants in vegetables etc. or in soils adhering to vegetable etc.
Construction / Maintenance Workers	Inhalation of soil gas, odours or dust. Ingestion of, and skin contact with contaminated soil.
Plants	Adverse effects on growth caused by presence of contaminants in soil.
Buildings & Structures	Flow of ground gas into buildings. Asphyxiation, toxicity, explosion & fire hazards. Sulphate attack of foundations. Hydrocarbons penetration plastic water supply pipes.
Groundwater	Migration of soluble contaminants into groundwater on/off site. Migration of oils into groundwater on/off site.
Surface water	Migration of soluble contaminants and/or direct run off of contaminants. Migration of oils into groundwater on/off site.

4.1.3 A conceptual model of plausible pollutant linkages has been formulated for the site in accordance with the risk assessment approach applied to contaminated land assessment.

4.2 Potential Sources of Contamination

4.2.1 The desk study information has indicated that the site formed a parcel of greenfield land until the present day, with only the construction of an electricity sub station in the 1980s, which has remained until the present day.

4.2.2 The likelihood of widespread soil contamination is expected to be low, with little to no made ground. However, due to the age of the substation, there is the potential for localised PCB contamination. As such, there is low chance of contamination across the wider site area and any contamination is expected to be concentrated into an area of hotspot area the substation.

4.2.3 Potential sources of contamination could be limited to the following: -

- Naturally occurring elevated concentrations of contaminants within the topsoil and natural strata.
- Potential contaminants associated with possible minor amounts made ground underlying areas of hardstanding and surrounding outbuildings and sheds.

4.3 Pathway for Migration

4.3.1 It is recognised that the migration pathways could change during the development of the site. These pathways are summarised below: -

- Migration of contamination (if present) via the un/saturated zones.
- Migration of contamination (if present) via buried services and foundations.
- Run-off from adjacent site areas.
- Migration of ground gas via soil pores.
- Direct contact with contaminated materials.

- 4.3.2 This list recognises that it is plausible that there are pathways associated with the presence of both on-site and off-site contamination. The above list recognises that the new development may not affect certain migration pathways such as migration in the saturated zone from an offsite source but could create new pathways such as the presence of services and foundations.
- 4.3.3 It is anticipated that, if a potential risk is identified, it can be reduced to an acceptable level by using a combination of mitigation measures during construction and in the building design. Site workers may be exposed to bare ground and existing building fabrics when clearing and redeveloping this site. Precautions should be taken to reduce the risks associated with these pathways including the adoption of personnel protective equipment (PPE), being rigorous in matters of personnel hygiene and adopting safe practices for workers entering enclosed underground cavities. Environmental management practices should be implemented to prevent potential impact associated with dust generation and dispersion and surface water run-off for example.

4.4 Potential Receptors

4.4.1 The principal receptors are considered to be as follows: -

- Humans – future site users.
- Humans – construction and maintenance workers.
- Controlled waters.
- Building structures and services.

4.5 Assessment of Plausible Pollutant Linkages

- 4.5.1 The overall risk associated with future site users is considered to be low.
- 4.5.2 The risk of contamination is considered to be low at this site, though nevertheless site workers should adopt a precautionary approach in respect of potential land contamination. On the basis of the current assessment and recommendations the overall risk to site workers is considered to be low.
- 4.5.3 The overall risk associated with the water environment is considered to be medium. The presence of granular sand deposits with a medium / high permeability overlying a Secondary A aquifer within the superficial deposits and Secondary A aquifer within the bedrock, suggests a medium potential risk to groundwater.
- 4.5.4 Substances that may be involved in chemical attack upon building materials, structures and services may be present in the ground and there is the potential for ground gas to migrate through permeable deposits and accumulate in enclosed spaces. Currently the overall risk associated with this category of hazard is considered to be low. The building's design and the materials used in its construction should be compliant with the prevailing ground conditions in order to mitigate potential harm from chemical attack where identified.
- 4.5.5 Careful assessment of all currently available information has enabled a preliminary conceptual model to be prepared and this is detailed in table 3 overleaf.

Table 3: Preliminary Conceptual Model

Potential Source	Potential Receptor	Possible Pathway	Probability	Consequence	Risk	Mitigation / Investigation
Contaminated Soils	Site personnel during construction	Direct contact of soils	Lw	Mr	Low	Soil sampling during intrusive investigations. Laboratory analysis of samples to determine the topsoil's suitability for reuse and retention. Sampling and testing of any made ground deposits to determine their suitability for retention. PCB testing required around the area of the electricity substation.
		Inhalation or ingestion of soil / dust				
	Future site users	Direct contact of soils	Lw	Mr	Low	
		Inhalation or ingestion of soil / dust				
	Surface water in the vicinity of the site	Leaching of contaminants through drainage system	UI	Md	Low	
	Ground water in aquifer	Leaching of contaminants to ground water	UI	Md	Low	
	Future site users	Vapour migration from soils	UI	Mr	Very Low	
	Proposed buildings and services	Direct contact with contaminated soils	Lw	Mi	Low	
Plants in gardens and soft landscaping	Direct contact	Lw	Mi	Low		
Contaminated ground water	Site personnel during construction	Water entering excavations	Lw	Mi	Low	Sampling of ground water if contamination noted.
	Future site Users	Retained surface water	Lw	Mi	Low	
Toxic and explosive gasses	Proposed buildings and occupiers	Ground gas migration into buildings	Lw	Mr	Low	No requirement for a programme of ground gas monitoring.
Radon Gases	Proposed buildings and occupiers	Ground gas migration into buildings	UI	Md	Low	Site is located in an area where less than 1% of properties are affected by radon gas.
Key: Sv = Severe. Md = Medium. Mi = Mild. Mr = Minor Hi = High. Li = Likely. Lw = Low Likelihood. UI = Unlikely						

4.5.6 In this qualitative risk assessment a low risk implies that remedial action is unlikely to be necessary at the site, although until a full intrusive investigation is conducted, this cannot be positively confirmed. Any investigations should look further into the location of the former pond to decipher any possible softer ground conditions.

5.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

5.1 Details of The Site

5.1.1 The site currently comprises a parcel of greenfield land with an electricity substation dating back to the 1980's.

5.1.2 It is likely that the development of the site will require the following stages: -

- Provision of foundations typically extending to depths of some 0.9m below ground level.
- Construction of drainage.
- Construction of residential properties.
- Preparation of hard standing areas.

5.2 Geotechnical Hazards & Foundation Considerations

5.2.1 Based upon the information available to this desk study the anticipated ground conditions present within this site are outlined in table 4 below: -

Table 4: Anticipated Ground Conditions	
Ground Material	Anticipated Condition
Made Ground	Little to no made ground expected. If made ground is present, it will most likely be laterally discontinuous and concentrated within hotspots.
Superficial Till Deposits	Glaciofluvial sand and gravel deposits
Bedrock	Pennine Lower Coal Measures Formation comprising of interbedded mudstone, siltstone and sandstone.
Groundwater	Natural groundwater is expected to lie at depth within the bedrock.

It will be essential for intrusive ground investigation works to be undertaken to confirm that the anticipated ground conditions are an accurate appraisal of the true ground conditions.

5.2.2 A summary of potential geo-technical hazards is detailed within table 5.

Table 5: Summary of Potential Geotechnical Hazards		
Hazard Category (excluding contamination issues)	Hazard Status	Engineering Considerations
Highly compressible / low bearing capacity soils (soft clays)	Unlikely	• Glaciofluvial deposits of sands and gravels.
Ground subject to or at risk of landslides	Unlikely	• Minimal topographical change across the site.
High ground water table	Unlikely	• Secondary A aquifer in superficial deposits and bedrock. • Expected to lie at depth within the bedrock.
Surface water retention	Unlikely	• High permeability superficial deposits.
Surface water run off	Unlikely	• High permeability superficial deposits.
Mining	Likely	• Arley Mine outcrops within the site and there is a probability of unrecorded shallow workings.
Volume change potential of soils	Unlikely	• Granular superficial deposits
Adverse ground chemistry	Possible	• Minimal levels of made ground deposits expected. However, possible PCB contamination due to the age of the electricity substation. Testing will be required.
Live services	Likely	• Electricity Substation located within the development site.

- 5.2.3 It is anticipated that the ground conditions present within this site will consist of topsoil overlying sands with a varying gravel content. As a result, shallow strip foundations may be possible if a safe bearing capacity can be achieved.
- 5.2.4 Whilst the presence of significant thicknesses of made ground is not anticipated to be present within this site, it is nevertheless likely that the properties within this site should be provided with a suspended ground floor construction. This may be of a pre-cast concrete beam and block type arrangement or of a cast in-situ construction, though properties which are affected by the presence of tree roots may specifically require the provision of a sub floor void.

5.3 Drainage

- 5.3.1 The geological information relating to the site suggests that the superficial strata will likely consist of high to very high permeability granular sand deposits. Based upon the currently available information, it is considered that the ground conditions present within the site may be capable of utilising a soakaway system. However, information of ground conditions obtained during an investigation should provide further data of the strata encountered and the likelihood for the use of SUDS.

6.0 PROPOSED GROUND INVESTIGATIONS

6.1 Ground Investigation

- 6.1.1 By undertaking an intrusive ground investigation an assessment of the ground and groundwater profiles may be conducted and the geo-technical and geo-environmental risks associated with this site identified. The investigation will allow a quantitative assessment as to whether any of the potential risks identified in this study are present and are of material concern to the proposed development. The works should be undertaken in accordance with the recommendations laid down in BS 10175: 2011 "Investigation of Potentially Contaminated Sites".

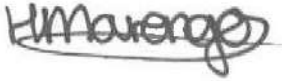
6.2 Proposed Scope of Ground Investigations

- 6.2.1 On the basis of the currently available information regarding the geo-environmental setting of the site and to confirm the assumptions made, an intrusive ground investigation should be conducted. This should be utilised to confirm the geological succession and engineering properties of the sub surface materials. The scope of works for the ground investigation should comprise of the following: -

- Programme of ground investigations to identify the strata sequence and assess engineering properties.
- Sampling of the existing strata for chemical and civil engineering laboratory test purposes.
- Programme of chemical analyses upon representative samples of the strata to determine their suitability for reuse within a residential environment.
- Reinstatement.
- Preparation of factual and interpretative report.

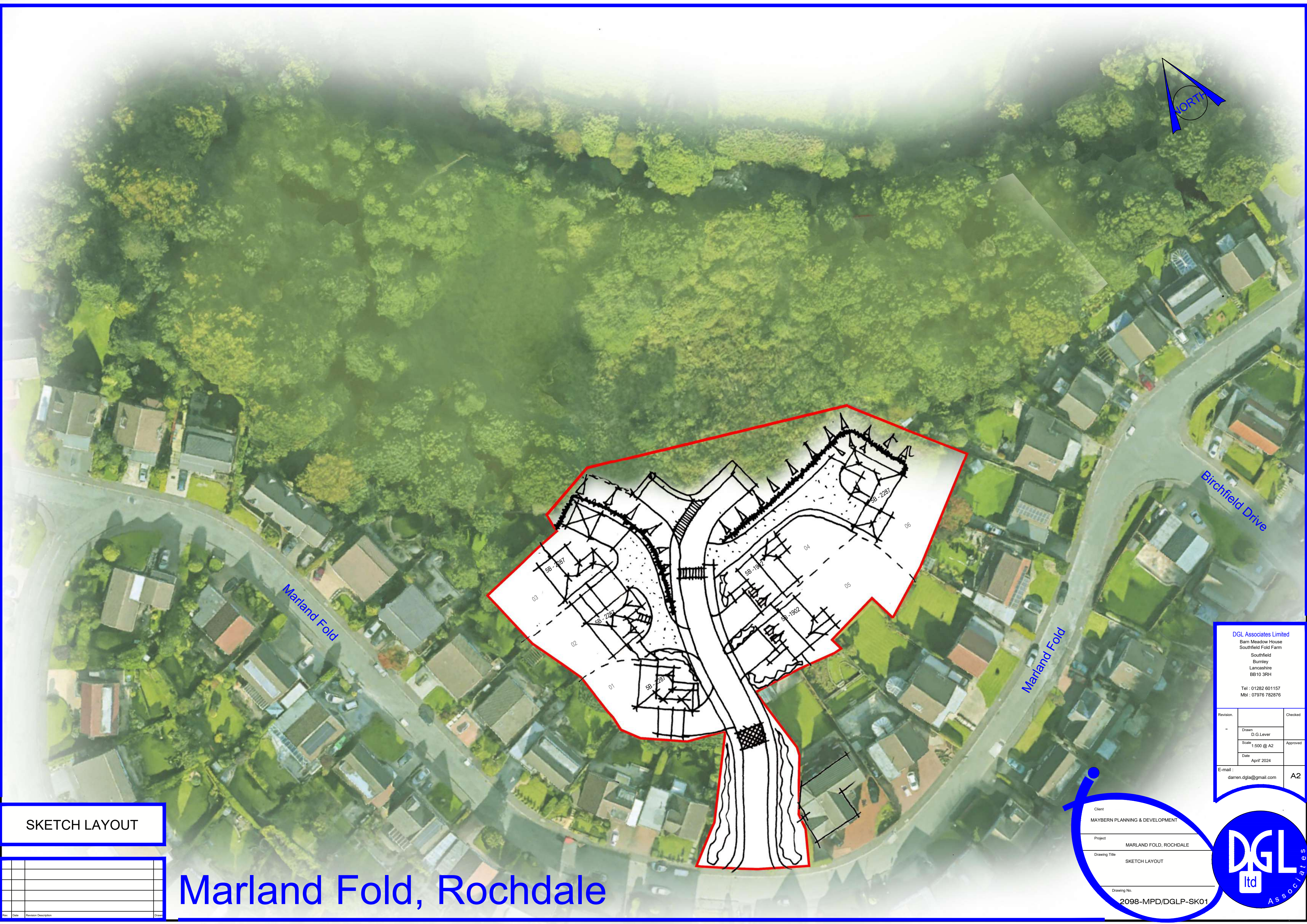
6.2.2 These ground investigation proposals are intended to represent a preliminary assessment only and it is important that where unusual or suspicious ground conditions are identified, the design of the intrusive investigations should be amended to assess these areas.

Signed for and on behalf of
R E FRY & ASSOCIATES LIMITED

A handwritten signature in black ink, appearing to read "H. Marengo", written over a horizontal line.

Hollie Marengo B.Sc. (Hons), MSc, FGS
R E FRY & ASSOCIATES LTD

APPENDIX A



SKETCH LAYOUT

Rev.	Date	Revision Description	Drawn

Marland Fold, Rochdale

DGL Associates Limited
Barn Meadow House
Southfield Fold Farm
Burnley
Lancashire
BB10 3RH

Tel : 01282 601157
Mob : 07976 782876

Revision	Drawn	Checked
-	D.G. Lever	
	Scale: 1:500 @ A2	Approved
	Date: April 2024	
E-mail : darren.dgl@gmail.com		A2

Client
MAYBERN PLANNING & DEVELOPMENT

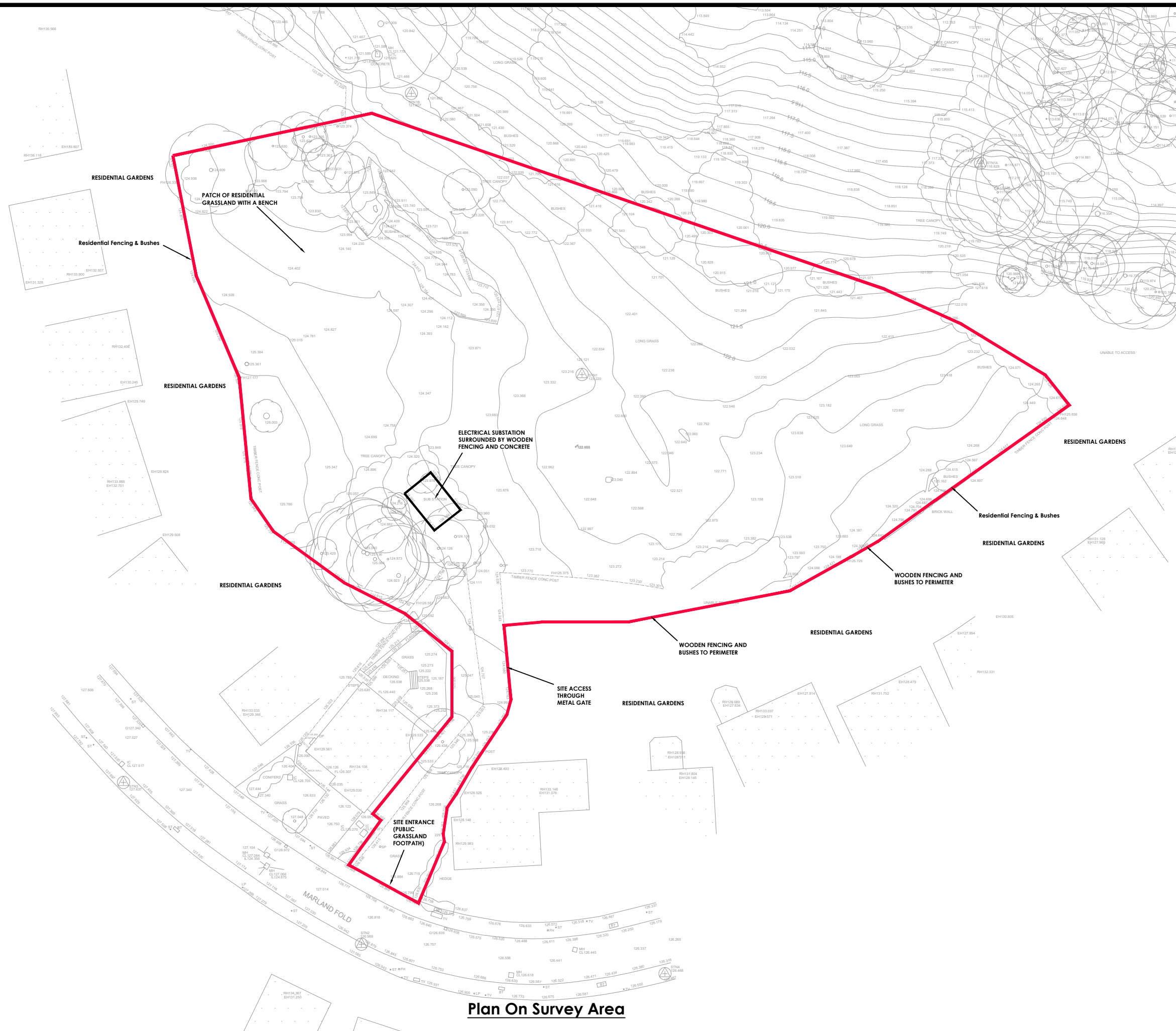
Project
MARLAND FOLD, ROCHDALE

Drawing Title
SKETCH LAYOUT

Drawing No.
2098-MPD/DGLP-SK01



APPENDIX B



Approximate Site Boundary

REFER TO DRAWING 24143/02 FOR SITE PHOTO'S

REV	DESCRIPTION	BY	DATE
X	XX	XX	XX.XX.XX

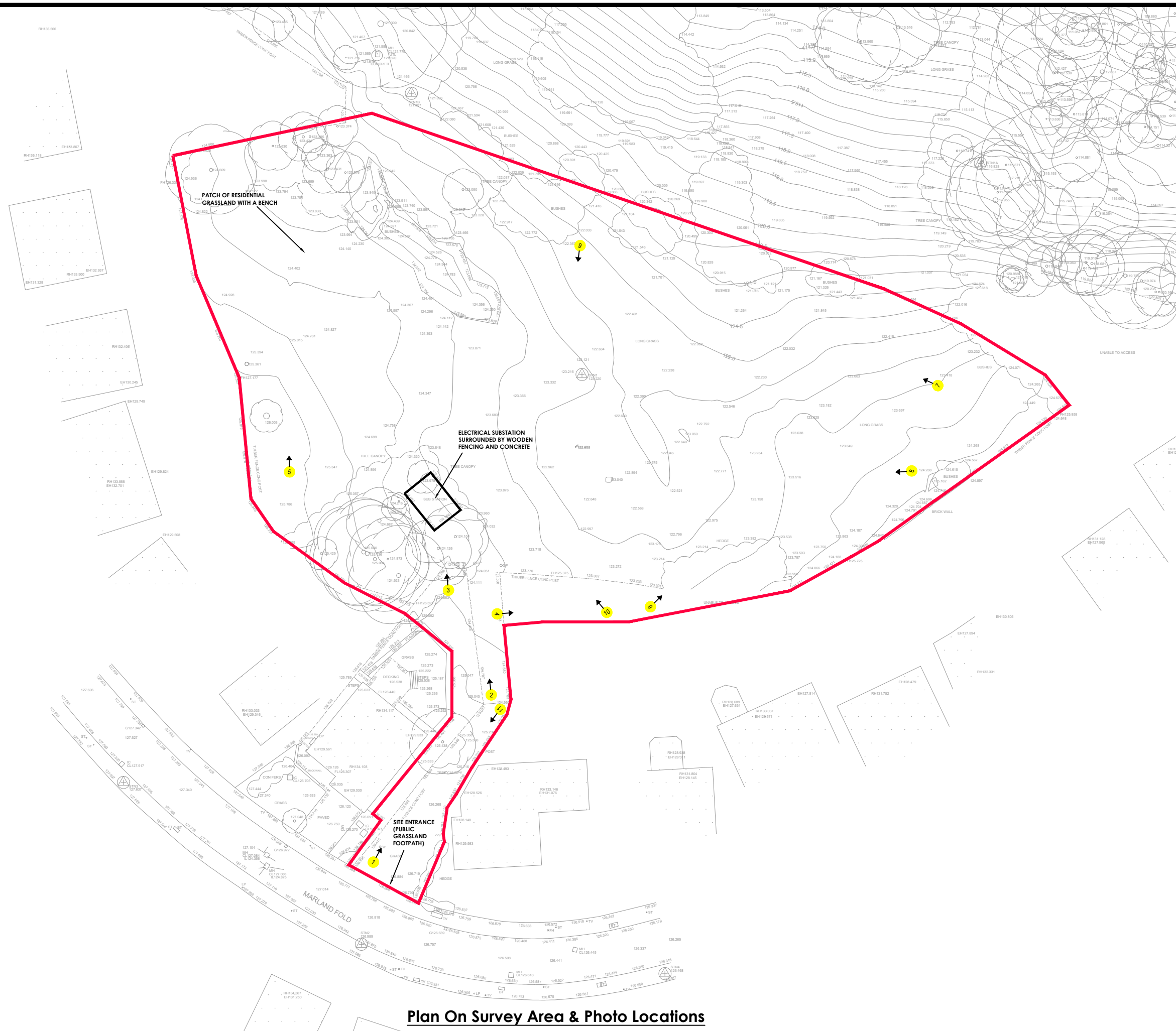
REFA
CONSULTING ENGINEERS
worksafe
designer
SSIP

45 Bridgeman Terrace
Wigan
Lancashire
WN1 1TT
01942 826020
info@refa.co.uk
www.refa.co.uk

Maybern Planning & Development

Marland Fold Rochdale			
Walk Over Survey Plan			
Sheet A3	Scale 1:500	Date 06.11.24	Drawn By PT
Project Number 24143	Drawing Number 24143/01	Checked By	

APPENDIX C



Plan On Survey Area & Photo Locations

Approximate Site Boundary

Approximate Photo Locations

X	XX	XX	XX	XX	XX
REV	DESCRIPTION			BY	DATE
INFORMATION					
REFA CONSULTING ENGINEERS		45 Bridgeman Terrace Wigan Lancashire WN1 1TT 01942 826020 info@refa.co.uk www.refa.co.uk			
Maybern Planning & Development					
Marland Fold Rochdale					
Photo Location Plan					
Sheet	Scale 1:500	Date	Drawn By	Checked By	
A3	06.11.24	PT			
Project Number	24143	Drawing Number	24143/02	Revision	

APPENDIX D

Marland Mill Farm

Order Details

Date: 15/10/2024
Your ref: 24143
Our Ref: GS-3EZ-3BA-44Q-X1K

Site Details

Location: 387905 412126
Area: 0.65 ha
Authority: [Rochdale Metropolitan Borough Council](#) ↗



Summary of findings

[p. 2 >](#) **Aerial image**

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#) **[Insight User Guide](#)** ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	2	19	29	-
17 >	1.2 >	Historical tanks >	0	0	6	21	-
19 >	1.3 >	Historical energy features >	1	0	1	13	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	0	0	0	-
20	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
21 >	2.1 >	Historical industrial land uses >	0	2	27	42	-
24 >	2.2 >	Historical tanks >	0	0	9	26	-
26 >	2.3 >	Historical energy features >	1	0	2	26	-
27	2.4	Historical petrol stations	0	0	0	0	-
27	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
28	3.1	Active or recent landfill	0	0	0	0	-
28	3.2	Historical landfill (BGS records)	0	0	0	0	-
29 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	0	1	-
29 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	1	-
29	3.5	Historical waste sites	0	0	0	0	-
30 >	3.6 >	Licensed waste sites >	0	0	0	3	-
31 >	3.7 >	Waste exemptions >	0	0	0	2	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
32 >	4.1 >	Recent industrial land uses >	1	0	3	-	-
33 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
33	4.3	Electricity cables	0	0	0	0	-
33	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
34	4.7	Regulated explosive sites	0	0	0	0	-
34	4.8	Hazardous substance storage/usage	0	0	0	0	-
34	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	1	-
35 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	1	-
35	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	76	-
47 >	4.14 >	Pollutant release to surface waters (Red List) >	0	0	0	5	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48 >	4.16 >	List 1 Dangerous Substances >	0	0	0	23	-
50 >	4.17 >	List 2 Dangerous Substances >	0	0	0	4	-
50 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	2	4	-
51 >	4.19 >	Pollution inventory substances >	0	0	0	23	-
58 >	4.20 >	Pollution inventory waste transfers >	0	0	0	1	-
59	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
60 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
61 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
62 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
63	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
63	5.5	Groundwater vulnerability- local information	None (within 0m)				
64 >	5.6 >	Groundwater abstractions >	0	0	0	0	9
67 >	5.7 >	Surface water abstractions >	0	0	0	0	2
68	5.8	Potable abstractions	0	0	0	0	0
68	5.9	Source Protection Zones	0	0	0	0	-
68	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	6.1 >	Water Network (OS MasterMap) >	0	2	13	-	-



71 >	6.2 >	Surface water features >	0	2	4	-	-
71 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
71 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
72 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
73 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
74	7.2	Historical Flood Events	0	0	0	-	-
74	7.3	Flood Defences	0	0	0	-	-
74	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
74	7.5	Flood Storage Areas	0	0	0	-	-
75 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
76 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
77 >	8.1 >	Surface water flooding >	1 in 100 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
79 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
80 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	5
81	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
81 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	5
82	10.4	Special Protection Areas (SPA)	0	0	0	0	0
82	10.5	National Nature Reserves (NNR)	0	0	0	0	0
82	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
83 >	10.7 >	Designated Ancient Woodland >	0	0	0	1	2
83	10.8	Biosphere Reserves	0	0	0	0	0
83	10.9	Forest Parks	0	0	0	0	0
83	10.10	Marine Conservation Zones	0	0	0	0	0
84 >	10.11 >	Green Belt >	0	0	0	1	0
84	10.12	Proposed Ramsar sites	0	0	0	0	0



84	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
84	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
85	10.15	Nitrate Sensitive Areas	0	0	0	0	0
85 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	1
86 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
87 >	10.18 >	SSSI Units >	0	0	0	0	5
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
90	11.1	World Heritage Sites	0	0	0	-	-
90	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
90	11.3	National Parks	0	0	0	-	-
90	11.4	Listed Buildings	0	0	0	-	-
91	11.5	Conservation Areas	0	0	0	-	-
91	11.6	Scheduled Ancient Monuments	0	0	0	-	-
91	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
93	12.2	Open Access Land	0	0	0	-	-
93	12.3	Tree Felling Licences	0	0	0	-	-
93	12.4	Environmental Stewardship Schemes	0	0	0	-	-
94	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	13.1 >	Priority Habitat Inventory >	2	2	10	-	-
96	13.2	Habitat Networks	0	0	0	-	-
96	13.3	Open Mosaic Habitat	0	0	0	-	-
96	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	14.1 >	10k Availability >	Identified (within 500m)				
99 >	14.2 >	Artificial and made ground (10k) >	0	0	1	2	-
100 >	14.3 >	Superficial geology (10k) >	1	1	0	1	-

101 >	14.4 >	Landslip (10k) >	0	0	0	1	-
102 >	14.5 >	Bedrock geology (10k) >	3	2	3	6	-
103 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	1	4	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
105 >	15.1 >	50k Availability >	Identified (within 500m)				
106	15.2	Artificial and made ground (50k)	0	0	0	0	-
106	15.3	Artificial ground permeability (50k)	0	0	-	-	-
107 >	15.4 >	Superficial geology (50k) >	1	1	0	1	-
108 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
108 >	15.6 >	Landslip (50k) >	0	0	0	1	-
108	15.7	Landslip permeability (50k)	None (within 50m)				
109 >	15.8 >	Bedrock geology (50k) >	2	1	2	6	-
110 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
110 >	15.10 >	Bedrock faults and other linear features (50k) >	2	0	1	4	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
112 >	16.1 >	BGS Boreholes >	0	0	8	-	-
Page	Section	Natural ground subsidence >					
114 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
115 >	17.2 >	Running sands >	Low (within 50m)				
117 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
119 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
120 >	17.5 >	Landslides >	Moderate (within 50m)				
122 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
124	18.1	BritPits	0	0	0	0	-
125 >	18.2 >	Surface ground workings >	0	2	7	-	-
125 >	18.3 >	Underground workings >	0	0	0	1	2
126	18.4	Underground mining extents	0	0	0	0	-
126	18.5	Historical Mineral Planning Areas	0	0	0	0	-



126	18.6	Non-coal mining	0	0	0	0	0
126	18.7	JPB mining areas	None (within 0m)				
126	18.8	The Coal Authority non-coal mining	0	0	0	0	-
127	18.9	Researched mining	0	0	0	0	-
127	18.10	Mining record office plans	0	0	0	0	-
127	18.11	BGS mine plans	0	0	0	0	-
127 >	18.12 >	Coal mining >	Identified (within 0m)				
128	18.13	Brine areas	None (within 0m)				
128	18.14	Gypsum areas	None (within 0m)				
128	18.15	Tin mining	None (within 0m)				
128	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
129	19.1	Natural cavities	0	0	0	0	-
129	19.2	Mining cavities	0	0	0	0	0
129	19.3	Reported recent incidents	0	0	0	0	-
129	19.4	Historical incidents	0	0	0	0	-
130	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
131 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
133 >	21.1 >	BGS Estimated Background Soil Chemistry >	3	4	-	-	-
133	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
134	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
135	22.1	Underground railways (London)	0	0	0	-	-
135	22.2	Underground railways (Non-London)	0	0	0	-	-
135	22.3	Railway tunnels	0	0	0	-	-
135	22.4	Historical railway and tunnel features	0	0	0	-	-
135	22.5	Royal Mail tunnels	0	0	0	-	-



136	22.6	Historical railways	0	0	0	-	-
136	22.7	Railways	0	0	0	-	-
136	22.8	Crossrail 1	0	0	0	0	-
136	22.9	Crossrail 2	0	0	0	0	-
136	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 07/04/2023

Site Area: 0.65ha



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 15 October 2024

Recent site history - 2019 aerial photograph



Capture Date: 23/05/2019

Site Area: 0.65ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 15 October 2024

Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.65ha



Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.65ha



Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 0.65ha



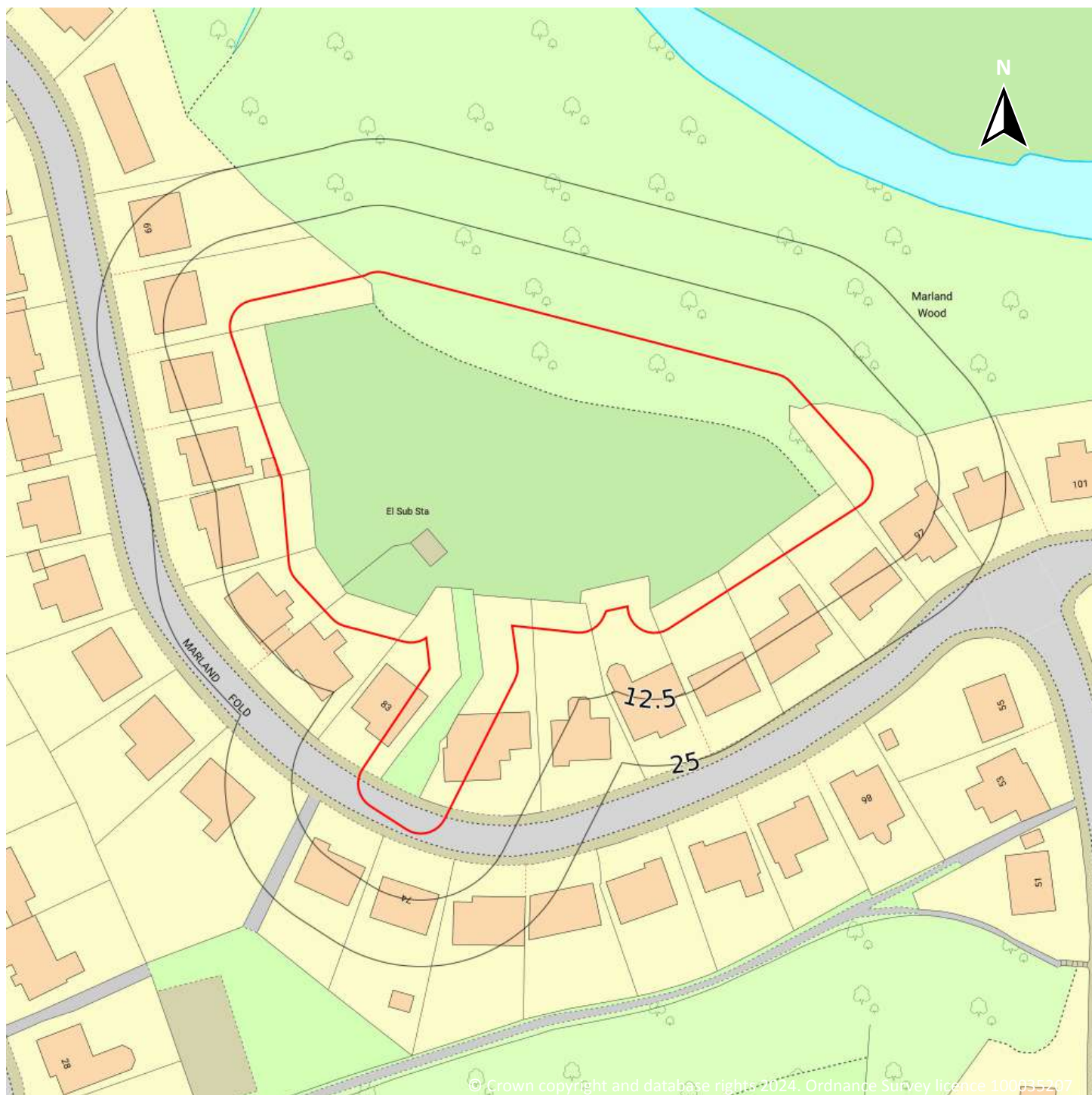
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 15 October 2024

OS MasterMap site plan



Site Area: 0.65ha



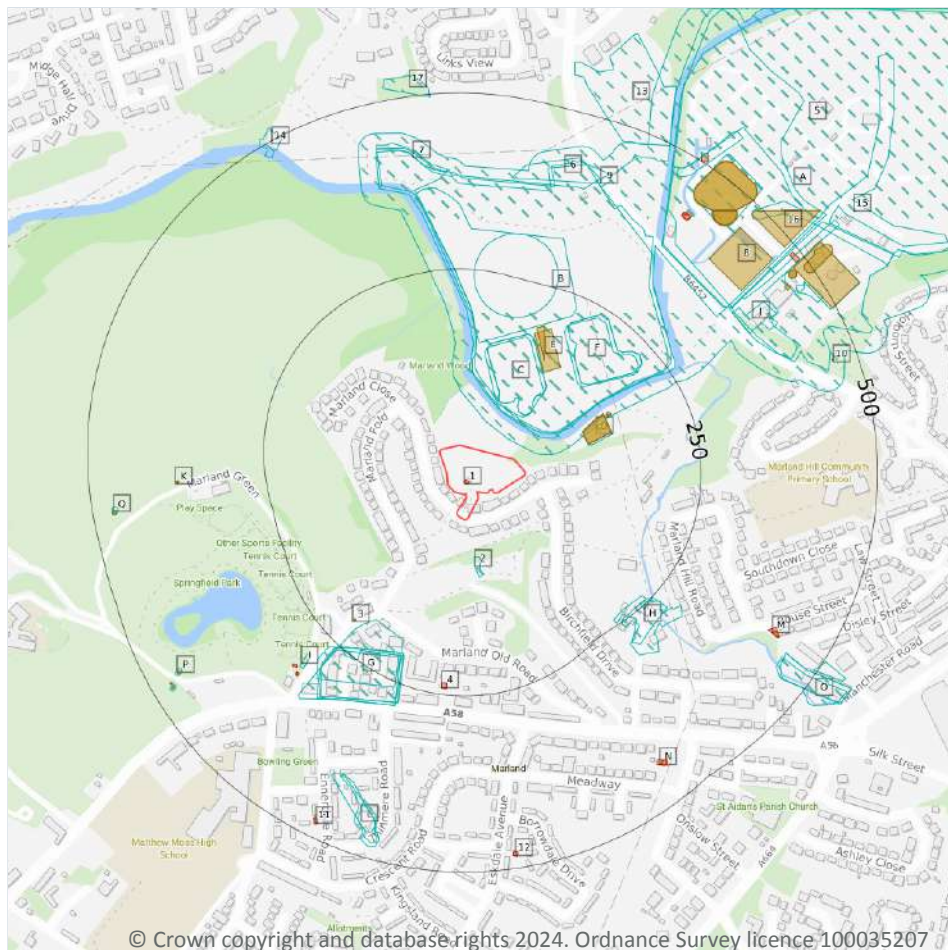
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 15 October 2024

1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

1.1 Historical industrial land uses

Records within 500m

50

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

Features are displayed on the Past land use map on [page 15](#) >

ID	Location	Land use	Dates present	Group ID
A	22m NE	Sewage Farm	1928	750624



ID	Location	Land use	Dates present	Group ID
B	47m NE	Sewage Farm	1938	739592
B	51m NE	Sewage Purification Works	1968	704803
A	54m NE	Sewage Farm	1956	800363
2	54m S	Unspecified Ground Workings	1987 - 1992	712791
C	60m NE	Unspecified Tanks	1928 - 1938	758182
C	64m NE	Unspecified Tanks	1968 - 1975	718102
C	64m NE	Unspecified Tanks	1956	778989
D	99m E	Settling Tanks	1908	692829
F	141m NE	Unspecified Tanks	1928 - 1938	726949
F	145m NE	Unspecified Tanks	1956	730744
F	145m NE	Unspecified Tanks	1968 - 1975	788433
B	148m N	Filter Beds	1908	685167
G	188m SW	Infectious Diseases Hospital	1938	781226
B	194m N	Sludge Beds	1975	665942
G	209m S	Infectious Diseases Hospital	1956	790552
G	210m SW	Infectious Diseases Hospital	1890	711625
G	211m S	Hospital	1968 - 1987	763441
G	215m SW	Infectious Diseases Hospital	1908 - 1928	758101
H	236m SE	Dye Works	1890	700539
H	245m SE	Corn Mill	1851	658593
I	288m SW	Smithy	1851	680216
5	363m NE	Sewage Works	1975 - 1992	718190
A	365m NE	Unspecified Works	1968	683063
J	371m NE	Flour Mill	1851	700412
J	371m NE	Unspecified Mills	1890	669978
A	374m NE	Sewage Farm	1890	725208
6	387m N	Unspecified Pit	1890	675388
7	388m N	Unspecified Ground Workings	1890	660713



ID	Location	Land use	Dates present	Group ID
L	400m SW	Unspecified Ground Workings	1928 - 1938	737008
L	401m SW	Unspecified Heap	1908	688397
9	406m NE	Tunnel	1968	705053
L	421m S	Unspecified Ground Workings	1956	782039
A	444m NE	Unspecified Tanks	1987 - 1992	717807
O	447m SE	Unspecified Mill	1908	673625
P	449m SW	Unspecified Tanks	1956	745216
O	449m SE	Unspecified Commercial/Industrial	1968 - 1975	718830
O	449m SE	Unspecified Works	1987 - 1992	757612
P	453m SW	Unspecified Tanks	1928	798782
J	458m NE	Settling Tanks	1908	692828
J	463m NE	Unspecified Heap	1968 - 1975	720893
Q	463m W	Unspecified Tank	1956	769309
A	465m NE	Unspecified Heap	1908	688284
Q	466m W	Unspecified Tank	1928 - 1938	769186
P	467m SW	Unspecified Tanks	1928 - 1956	787436
13	477m NE	Unspecified Disused Tip	1992	706041
14	479m NW	Cotton Mill	1851	654628
15	482m NE	Railway Sidings	1956	705729
O	495m SE	Smithy	1908	680435
17	496m N	Unspecified Pit	1968 - 1992	804939

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

27

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
D	98m E	Settling Tank	1891	82938
D	98m E	Settling Tanks	1910 - 1930	103064
E	130m NE	Humus Tanks	1930	83179
D	141m NE	Unspecified Tank	1930	86926
E	148m NE	Humus Tank	1957 - 1958	102731
3	206m SW	Unspecified Tank	1910 - 1930	105231
K	372m W	Unspecified Tank	1956 - 1990	92299
K	373m W	Unspecified Tank	1992	104119
8	397m NE	Settling Tanks	1978	91360
A	442m NE	Unspecified Tank	1992	104083
A	443m NE	Unspecified Tank	1990	97132
A	443m NE	Unspecified Tank	1978	94051
A	447m NE	Tanks	1990	97987
A	448m NE	Tanks	1993	107025
P	452m SW	Unspecified Tank	1930	86922
J	452m NE	Unspecified Tank	1910 - 1930	103155
10	464m E	Unspecified Tank	1978	86913
J	466m NE	Unspecified Tank	1958	92192
J	467m NE	Unspecified Tank	1964	92889
J	467m NE	Unspecified Tank	1957	93209
Q	467m W	Unspecified Tank	1930	86921
P	470m SW	Unspecified Tank	1956	107938
P	470m SW	Unspecified Tank	1930	86923
P	470m SW	Unspecified Tank	1957	101381
J	478m NE	Settling Tanks	1910 - 1930	93834
16	484m NE	Settling Tanks	1978	91361
J	490m NE	Tanks	1990 - 1992	100256



This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

15

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	On site	Electricity Substation	1983	47926
4	234m S	Electricity Substation	1968 - 1992	51082
I	311m SW	Electricity Substation	1968	47706
I	318m SW	Electricity Substation	1956 - 1957	58546
I	319m SW	Electricity Substation	1992	59224
M	410m SE	Electricity Substation	1992	60143
M	417m SE	Electricity Substation	1968 - 1991	52125
A	418m NE	Electricity Substation	1990	60009
A	419m NE	Electricity Substation	1992	60057
N	435m SE	Electricity Substation	1968 - 1988	60096
N	440m SE	Electricity Substation	1991 - 1992	57387
11	472m SW	Electricity Substation	1968 - 1992	57855
12	475m S	Electricity Substation	1968 - 1992	55585
J	485m NE	Electricity Substation	1990 - 1992	58825
A	500m NE	Electricity Substation	1990 - 1993	53971

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

0

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'.

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

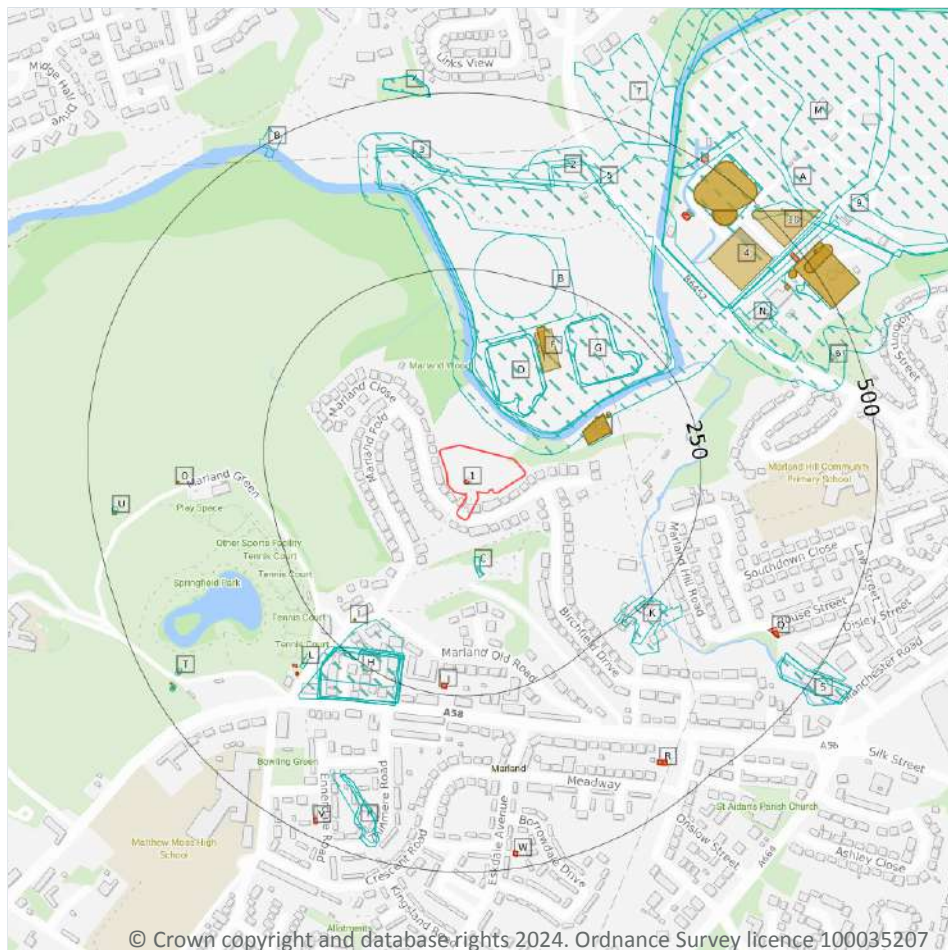
0

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

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



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

2.1 Historical industrial land uses

Records within 500m

71

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 21](#) >

ID	Location	Land Use	Date	Group ID
A	22m NE	Sewage Farm	1928	750624
B	47m NE	Sewage Farm	1938	739592
B	51m NE	Sewage Purification Works	1968	704803



ID	Location	Land Use	Date	Group ID
A	54m NE	Sewage Farm	1956	800363
C	54m S	Unspecified Ground Workings	1992	712791
C	54m S	Unspecified Ground Workings	1987	712791
D	60m NE	Unspecified Tanks	1938	758182
D	60m NE	Unspecified Tanks	1928	758182
D	64m NE	Unspecified Tanks	1975	718102
D	64m NE	Unspecified Tanks	1956	778989
D	64m NE	Unspecified Tanks	1968	718102
E	99m E	Settling Tanks	1908	692829
G	141m NE	Unspecified Tanks	1938	726949
G	141m NE	Unspecified Tanks	1928	726949
G	145m NE	Unspecified Tanks	1975	788433
G	145m NE	Unspecified Tanks	1956	730744
G	145m NE	Unspecified Tanks	1968	788433
B	148m N	Filter Beds	1908	685167
H	188m SW	Infectious Diseases Hospital	1938	781226
B	194m N	Sludge Beds	1975	665942
H	209m S	Infectious Diseases Hospital	1956	790552
H	210m SW	Infectious Diseases Hospital	1890	711625
H	211m S	Hospital	1987	763441
H	211m S	Hospital	1975	763441
H	211m S	Hospital	1968	763441
H	215m SW	Infectious Diseases Hospital	1928	758101
H	217m SW	Infectious Diseases Hospital	1908	758101
K	236m SE	Dye Works	1890	700539
K	245m SE	Corn Mill	1851	658593
L	288m SW	Smithy	1851	680216
M	363m NE	Sewage Works	1992	718190



ID	Location	Land Use	Date	Group ID
M	363m NE	Sewage Works	1987	718190
M	363m NE	Sewage Works	1975	718190
A	365m NE	Unspecified Works	1968	683063
N	371m NE	Flour Mill	1851	700412
N	371m NE	Unspecified Mills	1890	669978
A	374m NE	Sewage Farm	1890	725208
2	387m N	Unspecified Pit	1890	675388
3	388m N	Unspecified Ground Workings	1890	660713
P	400m SW	Unspecified Ground Workings	1938	737008
P	400m SW	Unspecified Ground Workings	1928	737008
P	401m SW	Unspecified Heap	1908	688397
5	406m NE	Tunnel	1968	705053
P	421m S	Unspecified Ground Workings	1956	782039
A	444m NE	Unspecified Tanks	1992	717807
A	444m NE	Unspecified Tanks	1987	717807
S	447m SE	Unspecified Mill	1908	673625
T	449m SW	Unspecified Tanks	1956	745216
S	449m SE	Unspecified Works	1992	757612
S	449m SE	Unspecified Works	1987	757612
S	449m SE	Unspecified Commercial/Industrial	1975	718830
S	449m SE	Unspecified Commercial/Industrial	1968	718830
T	453m SW	Unspecified Tanks	1928	798782
N	458m NE	Settling Tanks	1908	692828
N	463m NE	Unspecified Heap	1975	720893
N	463m NE	Unspecified Heap	1968	720893
U	463m W	Unspecified Tank	1956	769309
A	465m NE	Unspecified Heap	1908	688284
U	466m W	Unspecified Tank	1938	769186



ID	Location	Land Use	Date	Group ID
U	466m W	Unspecified Tank	1928	769186
T	467m SW	Unspecified Tanks	1956	787436
T	470m SW	Unspecified Tanks	1938	787436
T	470m SW	Unspecified Tanks	1928	787436
7	477m NE	Unspecified Disused Tip	1992	706041
8	479m NW	Cotton Mill	1851	654628
9	482m NE	Railway Sidings	1956	705729
S	495m SE	Smithy	1908	680435
X	496m N	Unspecified Pit	1992	804939
X	496m N	Unspecified Pit	1987	804939
X	496m N	Unspecified Pit	1975	804939
X	496m N	Unspecified Pit	1968	804939

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

35

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. 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 21 >](#)

ID	Location	Land Use	Date	Group ID
E	98m E	Settling Tank	1891	82938
E	98m E	Settling Tanks	1910	103064
E	98m E	Settling Tanks	1930	103064
F	130m NE	Humus Tanks	1930	83179
E	141m NE	Unspecified Tank	1930	86926
F	148m NE	Humus Tank	1957	102731
F	148m NE	Humus Tank	1958	102731
I	206m SW	Unspecified Tank	1910	105231



ID	Location	Land Use	Date	Group ID
I	206m SW	Unspecified Tank	1930	105231
O	372m W	Unspecified Tank	1956	92299
O	373m W	Unspecified Tank	1958	92299
O	373m W	Unspecified Tank	1990	92299
O	373m W	Unspecified Tank	1992	104119
4	397m NE	Settling Tanks	1978	91360
A	442m NE	Unspecified Tank	1992	104083
A	443m NE	Unspecified Tank	1990	97132
A	443m NE	Unspecified Tank	1978	94051
A	447m NE	Tanks	1990	97987
A	448m NE	Tanks	1993	107025
T	452m SW	Unspecified Tank	1930	86922
N	452m NE	Unspecified Tank	1910	103155
N	452m NE	Unspecified Tank	1930	103155
6	464m E	Unspecified Tank	1978	86913
N	466m NE	Unspecified Tank	1958	92192
N	467m NE	Unspecified Tank	1957	93209
N	467m NE	Unspecified Tank	1964	92889
U	467m W	Unspecified Tank	1930	86921
T	470m SW	Unspecified Tank	1956	107938
T	470m SW	Unspecified Tank	1930	86923
T	470m SW	Unspecified Tank	1957	101381
N	478m NE	Settling Tanks	1910	93834
N	478m NE	Settling Tanks	1930	93834
10	484m NE	Settling Tanks	1978	91361
N	490m NE	Tanks	1992	100256
N	490m NE	Tanks	1990	100256

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

29

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 21](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Electricity Substation	1983	47926
J	234m S	Electricity Substation	1968	51082
J	235m S	Electricity Substation	1992	51082
L	311m SW	Electricity Substation	1968	47706
L	318m SW	Electricity Substation	1957	58546
L	319m SW	Electricity Substation	1956	58546
L	319m SW	Electricity Substation	1992	59224
Q	410m SE	Electricity Substation	1992	60143
Q	417m SE	Electricity Substation	1978	52125
Q	417m SE	Electricity Substation	1988	52125
Q	417m SE	Electricity Substation	1988	52125
Q	417m SE	Electricity Substation	1991	52125
Q	418m SE	Electricity Substation	1971	52125
Q	418m SE	Electricity Substation	1968	52125
A	418m NE	Electricity Substation	1990	60009
A	419m NE	Electricity Substation	1992	60057
R	435m SE	Electricity Substation	1978	60096
R	435m SE	Electricity Substation	1988	60096
R	436m SE	Electricity Substation	1971	60096
R	436m SE	Electricity Substation	1968	60096
R	440m SE	Electricity Substation	1991	57387
R	440m SE	Electricity Substation	1992	57387
V	472m SW	Electricity Substation	1968	57855



ID	Location	Land Use	Date	Group ID
V	473m SW	Electricity Substation	1992	57855
W	475m S	Electricity Substation	1968	55585
W	475m S	Electricity Substation	1992	55585
N	485m NE	Electricity Substation	1992	58825
N	486m NE	Electricity Substation	1990	58825
A	500m NE	Electricity Substation	1993	53971

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

0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 28 >](#)

ID	Location	Site address	Source	Data type
3	454m SE	Refuse Tip	1962 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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 28 >](#)

ID	Location	Details		
4	475m NE	Site Address: Roch Valley Way, Rochdale Licence Holder Address: -	Waste Licence: Yes Site Reference: D014, RD/LIC/400/85 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/03/1986 Licence Surrender: -	Operator: - Licence Holder: D H Wrigley First Recorded 01/04/1986 Last Recorded: 31/12/1988

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

3.5 Historical waste sites

Records within 500m

0

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

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



3.6 Licensed waste sites

Records within 500m

3

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

Features are displayed on the Waste and landfill map on [page 28 >](#)

ID	Location	Details		
A	429m NE	Site Name: Rochdale Wastewater Treatment Works Site Address: Rochdale Wastewater Treatment Works, Rochdale Valley Way, Rochdale, Lancashire, OL11 4DB Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROC009 EPR reference: EA/EPR/BP3792CF/A001 Operator: United Utilities Water Plc Waste Management licence No: 50521 Annual Tonnage: 27000	Issue Date: 03/01/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
A	429m NE	Site Name: Rochdale Wastewater Treatment Works Site Address: Rochdale Wastewater Treatment Works, Rochdale Valley Way, Rochdale, Lancashire, OL11 4DB Correspondence Address: -	Type of Site: Physico-Chemical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653187 EPR reference: EA/EPR/BP3792CF Operator: United Utilities Water Limited Waste Management licence No: 50521 Annual Tonnage: 27000	Issue Date: 03/01/2008 Effective Date: 03/01/2008 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
A	429m NE	Site Name: Rochdale Wastewater Treatment Works Site Address: Rochdale Wastewater Treatment Works, Rochdale Valley Way, Rochdale, Lancashire, OL11 4DB Correspondence Address: Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Warrington, Cheshire, WA5 3LP	Type of Site: - Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ROC009 EPR reference: - Operator: United Utilities Water Plc Waste Management licence No: 50521 Annual Tonnage: 0	Issue Date: 03/01/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC

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



3.7 Waste exemptions

Records within 500m

2

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.

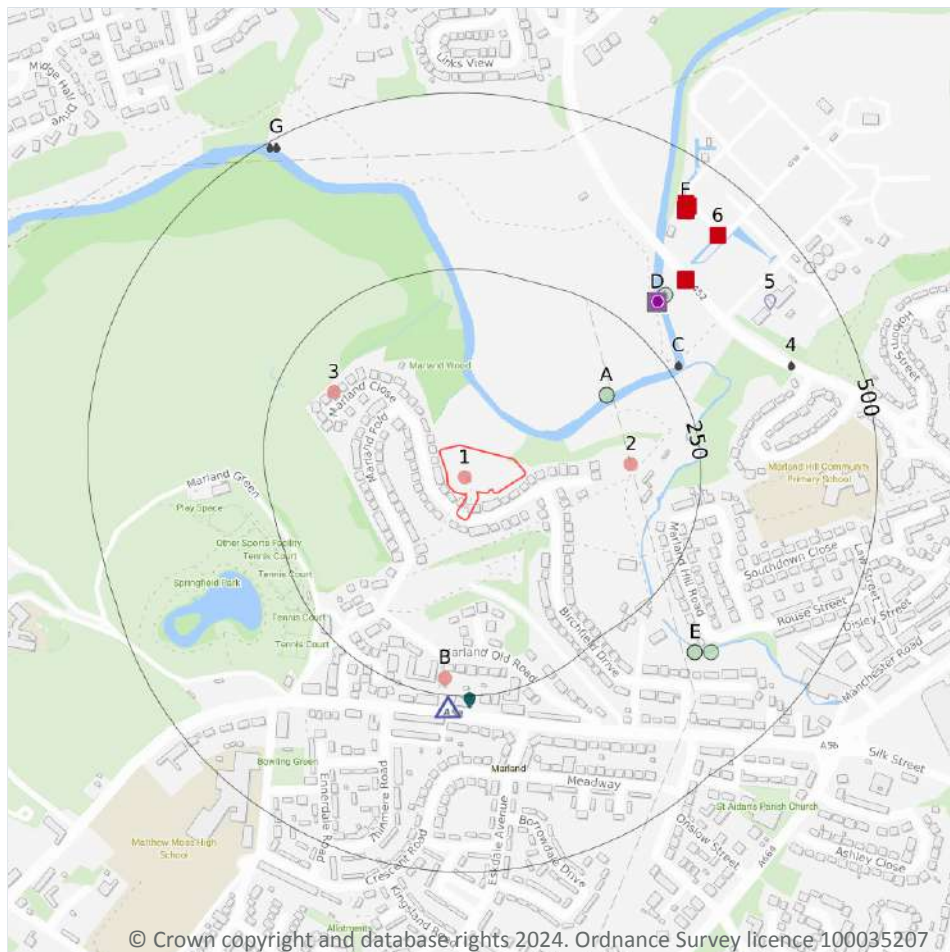
Features are displayed on the Waste and landfill map on [page 28 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
1	251m SE	Marland Mill Farm, Birchfield Drive, Rochdale, OL11 4ny	WEX073697	Using waste exemption	On a farm	Use of waste in construction
2	432m NE	Sewage Works, Roch Valley Way, Rochdale, OL11 4qh	WEX156641	Using waste exemption	Not on a farm	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to surface waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

4

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Greater Manchester, OL11	Electrical Features	Infrastructure and Facilities
2	151m E	Pylon	Greater Manchester, OL11	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	173m NW	Evelong Garden Fencing Ltd T/A Colourfence Bolton	14, Marland Close, Rochdale, Greater Manchester, OL11 4RG	Fences, Gates and Railings	Industrial Products
B	226m S	Electricity Sub Station	Greater Manchester, OL11	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
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Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Company	Address	LPG	Status
B	267m S	TEXACO	Bolton Road, Rochdale, Greater Manchester, OL11 4QX	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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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

1

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 32 >](#)

ID	Location	Details	
5	423m NE	Operator: United Utilities Water PLC Installation Name: Rochdale WwTW EPR/FP3638MU Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: AP3034KS Original Permit Number: FP3638MU	EPR Reference: - Issue Date: 23/07/2010 Effective Date: 23/07/2010 Last date noted as effective: 21/03/2023 Status: Superseded

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

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

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Address	Details	
B	256m S	Anwar and Co Ltd, Marland Filling Station, Bolton Road, Rochdale, Lancashire, OL11 4QX	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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



4.13 Licensed Discharges to controlled waters

Records within 500m

76

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 32 >](#)

ID	Location	Address	Details	
C	265m NE	MARLAND HILL SSO, (SUDDEN VALLEY), GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0157 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 31/12/1994
C	265m NE	ADJ ROCH VALLEY STW, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 01ROC0155 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/05/1993 Revocation Date: 01/01/1995
C	265m NE	MARLAND HILL SSO, (SUDDEN VALLEY), GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0157 Permit Version: 2 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
C	265m NE	SUDDEN VALLEY SEWER, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016981577 Permit Version: 1 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 10/07/1990 Revocation Date: -
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 4 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/10/1989 Revocation Date: 26/09/1990
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 5 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 27/09/1990 Revocation Date: 30/06/1992



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 5 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 27/09/1990 Revocation Date: 30/06/1992
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 21 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 19/03/2010 Effective Date: 19/03/2010 Revocation Date: 29/04/2010
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 19 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 01/01/2009 Revocation Date: 31/12/2009
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 7 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/05/1993 Revocation Date: 31/10/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 4 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/10/1989 Revocation Date: 26/09/1990
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 10 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1994 Revocation Date: 31/03/1995
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 14 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1996 Revocation Date: 07/01/2001



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 12 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1995 Revocation Date: 31/03/1996
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 17 Receiving Water: RIVER ROCH	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 25/05/2004 Effective Date: 25/05/2004 Revocation Date: 31/03/2005
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 21 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 19/03/2010 Effective Date: 19/03/2010 Revocation Date: 29/04/2010
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 22 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 30/04/2010 Effective Date: 30/04/2010 Revocation Date: 31/08/2014
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 23 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/04/2010 Effective Date: 01/09/2014 Revocation Date: 03/09/2014
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 3 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 22/07/1988 Revocation Date: 12/10/1989
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 8 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1993 Revocation Date: 31/03/1994



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 9 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1994 Revocation Date: 31/10/1994
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 15 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/01/2001 Effective Date: 08/01/2001 Revocation Date: 24/05/2004
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 9 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1994 Revocation Date: 31/10/1994
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 2 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/07/1988
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 6 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1992 Revocation Date: 30/04/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 10 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1994 Revocation Date: 31/03/1995



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 13 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1996 Revocation Date: 31/10/1996
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 20 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/01/2010 Revocation Date: 18/03/2010
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 5 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 27/09/1990 Revocation Date: 30/06/1992
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 7 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/05/1993 Revocation Date: 31/10/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 16 Receiving Water: RIVER ROCH	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 08/01/2001 Effective Date: 24/05/2004 Revocation Date: 24/05/2004
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 3 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 22/07/1988 Revocation Date: 12/10/1989
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 11 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1995 Revocation Date: 31/10/1995



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 9 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1994 Revocation Date: 31/10/1994
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 14 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1996 Revocation Date: 07/01/2001
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 6 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1992 Revocation Date: 30/04/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 16 Receiving Water: RIVER ROCH	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 08/01/2001 Effective Date: 24/05/2004 Revocation Date: 24/05/2004
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 7 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/05/1993 Revocation Date: 31/10/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 13 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1996 Revocation Date: 31/10/1996



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 10 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1994 Revocation Date: 31/03/1995
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 11 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1995 Revocation Date: 31/10/1995
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 6 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1992 Revocation Date: 30/04/1993
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 8 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1993 Revocation Date: 31/03/1994
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 20 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/01/2010 Revocation Date: 18/03/2010
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 18 Receiving Water: RIVER ROCH	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/05/2004 Effective Date: 01/04/2005 Revocation Date: 31/12/2008



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 22 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 30/04/2010 Effective Date: 30/04/2010 Revocation Date: 31/08/2014
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 2 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/07/1988
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 12 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1995 Revocation Date: 31/03/1996
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 2 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/07/1988
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 12 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1995 Revocation Date: 31/03/1996
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 8 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1993 Revocation Date: 31/03/1994
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 11 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1995 Revocation Date: 31/10/1995



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 17 Receiving Water: RIVER ROCH	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 25/05/2004 Effective Date: 25/05/2004 Revocation Date: 31/03/2005
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 18 Receiving Water: RIVER ROCH	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/05/2004 Effective Date: 01/04/2005 Revocation Date: 31/12/2008
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 19 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 01/01/2009 Revocation Date: 31/12/2009
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 13 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1996 Revocation Date: 31/10/1996
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 3 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 22/07/1988 Revocation Date: 12/10/1989
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 15 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 08/01/2001 Effective Date: 08/01/2001 Revocation Date: 24/05/2004
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 4 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/10/1989 Revocation Date: 26/09/1990



ID	Location	Address	Details	
D	302m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 14 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1996 Revocation Date: 07/01/2001
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 24 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/09/2014 Effective Date: 04/09/2014 Revocation Date: 29/06/2017
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 25 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/06/2017 Effective Date: 30/06/2017 Revocation Date: 14/10/2018
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 26 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 15/10/2018 Effective Date: 15/10/2018 Revocation Date: 09/12/2021
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 23 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 01/04/2010 Effective Date: 01/09/2014 Revocation Date: 03/09/2014
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 25 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 30/06/2017 Effective Date: 30/06/2017 Revocation Date: 14/10/2018
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 26 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 15/10/2018 Effective Date: 15/10/2018 Revocation Date: 09/12/2021



ID	Location	Address	Details	
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 24 Receiving Water: RIVER ROCH	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 04/09/2014 Effective Date: 04/09/2014 Revocation Date: 29/06/2017
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950041 Permit Version: 27 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 10/12/2021 Effective Date: 10/12/2021 Revocation Date: -
D	316m NE	ROCHDALE WWTW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE, OL11 4QH	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950041 Permit Version: 27 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 10/12/2021 Effective Date: 10/12/2021 Revocation Date: -
4	407m E	SUDDEN VALLEY SEWER, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016982392 Permit Version: 1 Receiving Water: SUDDEN BROOK TRIB R ROACH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/07/1993 Revocation Date: 30/07/1993
G	489m NW	NORDEN/BAMFORD OUTFALL SEWER, SSO, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0159 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
G	489m NW	NORDEN/BAMFORD OUTFALL SEWER, SSO, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0159 Permit Version: 2 Receiving Water: -	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
G	494m NW	CHADWICK HALL LANE W39, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0087 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 13/05/1993 Revocation Date: 01/01/1995

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Address	Details	
D	302m NE	UNITED UTILITIES WATER PLC, ROCHDALE STW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE	Permit Number: 016950041 Permit Version: 17 Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 25/05/2004
D	302m NE	UNITED UTILITIES WATER PLC, ROCHDALE STW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE	Permit Number: 016950041 Permit Version: 15 Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 08/01/2001
D	302m NE	UNITED UTILITIES WATER PLC, ROCHDALE STW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE	Permit Number: 016950041 Permit Version: 18 Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 01/04/2005
D	302m NE	UNITED UTILITIES WATER PLC, ROCHDALE STW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE	Permit Number: 016950041 Permit Version: 19 Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 01/01/2009
D	302m NE	UNITED UTILITIES WATER PLC, ROCHDALE STW, ROCH VALLEY WAY, ROCHDALE, LANCASHIRE	Permit Number: 016950041 Permit Version: 20 Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Discharge Type: Sewage Disposal Works - water company	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Catchment: - Approval Date: 01/01/2010

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

23

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.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
D	302m NE	Rochdale Stw	Active	-	-
D	302m NE	Pw Greenhalgh Co Ltd	Active	-	-
D	302m NE	Pw Greenhalgh Co Ltd	Not Active	River Roch, Manchester Ship Canal	Mercury (other), Pentachlorophenol
D	302m NE	Pw Greenhalgh Co Ltd	Active	River Roch, Manchester Ship Canal	Mercury (other), Pentachlorophenol
D	302m NE	Rochdale Stw	Not Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium, Pentachlorophenol
D	351m NE	Processed Light Alloy Ltd	Active	-	-
D	351m NE	Townhead Chromium Plating	Not Active	-	-
D	351m NE	Osram Ltd Duke Mill	Not Active	-	-
D	351m NE	Robert Riley (was Radcliffe Springs & Pressings)	Not Active	River Roch, Manchester Ship Canal	Cadmium
D	351m NE	Osram Ltd Duke Mill	Not Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium
D	351m NE	Townhead Chromium Plating	Not Active	River Roch, Manchester Ship Canal	Cadmium



ID	Location	Name	Status	Receiving Water	Authorised Substances
F	429m NE	Sonoco Industrial Products, Rochdale	Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium
F	429m NE	Osram Ltd	Active	River Roch, Manchester Ship Canal	Mercury (other), Cadmium
F	429m NE	E S Coatings	Active	River Roch, Manchester Ship Canal	Cadmium
F	429m NE	Jackdaw Polymers	Not Active	River Roch, Manchester Ship Canal	Cadmium
F	429m NE	Alexander Drew & Sons Ltd. Stotts Mill, Rochdale	Active	River Roch, Manchester Ship Canal	Mercury (other), Pentachlorophenol
F	429m NE	Alexander Drew & Sons Ltd. Stotts Mill, Rochdale	Active	River Roch, Manchester Ship Canal	Mercury (other), Pentachlorophenol
F	429m NE	United Springs (formerly Robert Riley)	Active	River Roch, Manchester Ship Canal	Cadmium
F	429m NE	Jackdaw Polymers	Not Active	River Roch, Manchester Ship Canal	Cadmium
F	429m NE	Processed Light Alloy Ltd	Active	River Roch, Manchester Ship Canal	Cadmium
6	429m NE	Radcliffe Springs & Pressings	Active	River Roch, Manchester Ship Canal	Cadmium
F	436m NE	Jackdaw Polymers	Active	-	-
F	437m NE	British Millerain Co Ltd, Melloroid Wks, Rochdale	Active	River Roch, Manchester Ship Canal	Pentachlorophenol

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



4.17 List 2 Dangerous Substances

Records within 500m

4

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

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
D	302m NE	British Millerrain Co Ltd	Active	-	Pentachlorophenol - ARCHIVE (List 1)
D	302m NE	P W Greenhalgh & Co Ltd.	Active	-	Pentachlorophenol - ARCHIVE (List 1)
D	302m NE	Rochdale Wwtw (north West Water Ltd)	Active	River Roch	Iron, pH
D	302m NE	Rochdale Wwtw (north West Water Ltd)	Not Active	River Roch	Benzene, Toluene, Xylene

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

6

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 32 >](#)

ID	Location	Details	
A	159m NE	Incident Date: 22/07/2002 Incident Identification: 93362 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)
A	159m NE	Incident Date: 22/07/2002 Incident Identification: 93362 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)
D	318m NE	Incident Date: 26/02/2003 Incident Identification: 139405 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
E	349m SE	Incident Date: 27/11/2010 Incident Identification: 841222 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 1 (Major) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	349m SE	Incident Date: 27/11/2010 Incident Identification: 841222 Pollutant: Oils and Fuel Pollutant Description: Other Oil or Fuel	Water Impact: Category 1 (Major) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	364m SE	Incident Date: 15/07/2002 Incident Identification: 91734 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	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

23

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.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID: D, Location: 302m NE, Permit: 016950041
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: ROCHDALE -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Brominated diphenylethers - penta-, octa- and deca-BDE	0.1kg	Below Reporting Threshold
Air	Methane	10000kg	Below Reporting Threshold
Controlled Waters	Benzo(b)fluoranthene	1kg	Below Reporting Threshold



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(k)fluoranthene	1kg	Below Reporting Threshold
Controlled Waters	Octylphenols and octylphenol ethoxylates	1kg	Below Reporting Threshold
Air	Chloroform (Trichloromethane)	100kg	Below Reporting Threshold
Controlled Waters	Carbon tetrachloride (Tetrachloromethane)	1kg	Below Reporting Threshold
Controlled Waters	Chloroform (Trichloromethane)	5kg	Below Reporting Threshold
Air	Carbon dioxide	10000000kg	Below Reporting Threshold
Controlled Waters	Cyanides - as CN	50kg	Below Reporting Threshold
Controlled Waters	Dichloromethane (DCM) (Methylene chloride)	10kg	Below Reporting Threshold
Controlled Waters	Organotin compounds - as Sn	5kg	Below Reporting Threshold
Controlled Waters	Phenols - total as C	20kg	Below Reporting Threshold
Controlled Waters	Aldrin	0.0005kg	Below Reporting Threshold
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	0.0001kg	Below Reporting Threshold
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as ITEQ	0.0001kg	Below Reporting Threshold
Air	Ammonia	1000kg	Below Reporting Threshold
Controlled Waters	Chromium	20kg	Below Reporting Threshold

ID: D, Location: 302m NE, Permit: 016950041
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: ROCHDALE -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chlorides - as Cl	2000000kg	2460000kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	153000kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	144000kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	7090kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluorides - as F	2000kg	7000kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	3330kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Zinc	100kg	628kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nonylphenols and nonylphenol ethoxylates	1kg	78.9kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nickel	20kg	74.3kg
Controlled Waters	Copper	20kg	74.3kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Di(2-ethylhexyl)phthalate (DEHP)	0.1kg	57.1kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Lead	20kg	33.7kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Arsenic	5kg	13.5kg



ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cadmium	1kg	3.5kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Asbestos	0.1kg	2.48kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Diuron	0.05kg	2.04kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Indeno(1,2,3-cd)pyrene	1kg	1.41kg



ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Anthracene	0.1kg	1.19kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(a)pyrene	1kg	1.09kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Mercury	0.1kg	0.81kg

ID: D, Location: 302m NE, Permit: 016950041
Operator: UNITED UTILITIES WATER PLC
Activity: -
Address: ROCHDALE -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(g,h,i)perylene	0.1kg	0.39kg



ID: D, Location: 302m NE, Permit: 016950041
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: ROCHDALE -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluoranthene	0.1kg	0.25kg

ID: D, Location: 302m NE, Permit: 016950041
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: ROCHDALE -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	0.0212kg

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

4.20 Pollution inventory waste transfers

Records within 500m	1
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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.

Features are displayed on the Current industrial land use map on [page 32 >](#)

ID: D, Location: 302m NE, Permit: 016950041
 Operator: UNITED UTILITIES WATER PLC
 Activity: -
 Address: ROCHDALE -
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	19920.08 2	Absolute Value	19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05	No
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12 (eg evaporation, drying, calcination, etc.)	891.94	Absolute Value	19 02 06	sludges from physico/chemical treatment other than those mentioned in 19 02 05	No
D1	Deposit into or onto land (eg landfill, etc.)	328.42	Absolute Value	19 08 02	waste from desanding	No
D1	Deposit into or onto land (eg landfill, etc.)	159.4	Absolute Value	19 08 01	screenings	No

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

4.21 Pollution inventory radioactive waste

Records within 500m

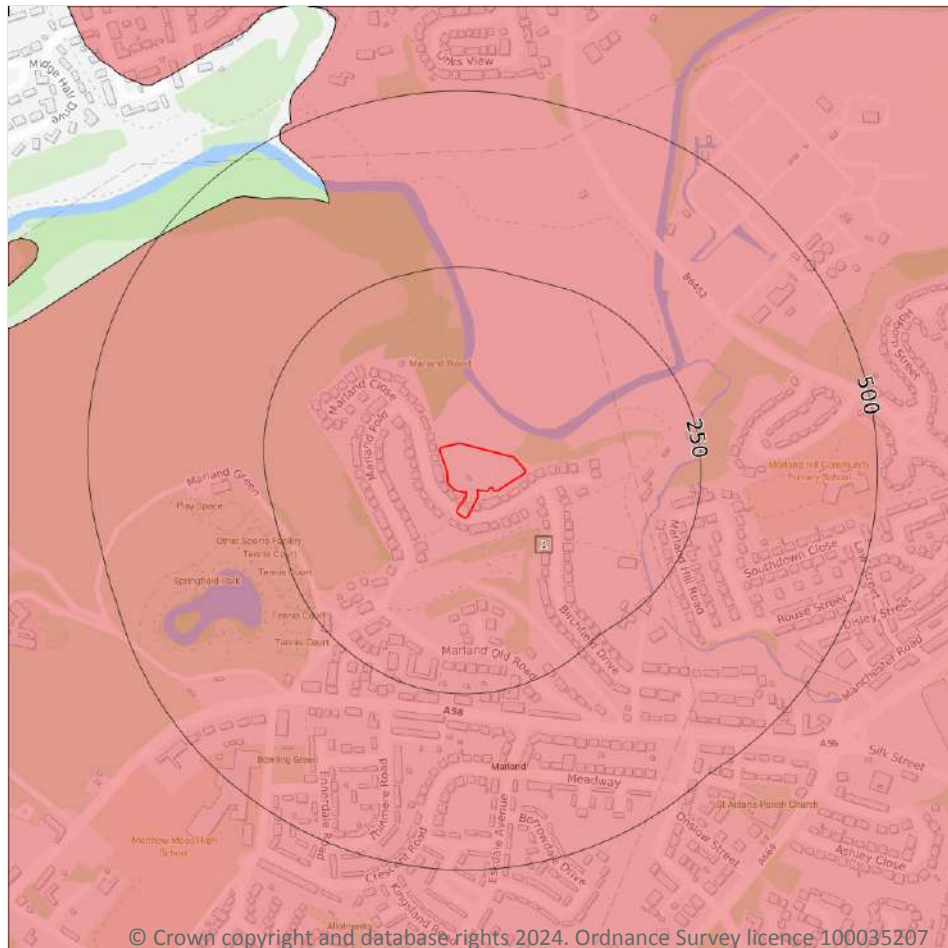
0

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

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



5 Hydrogeology - Superficial aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

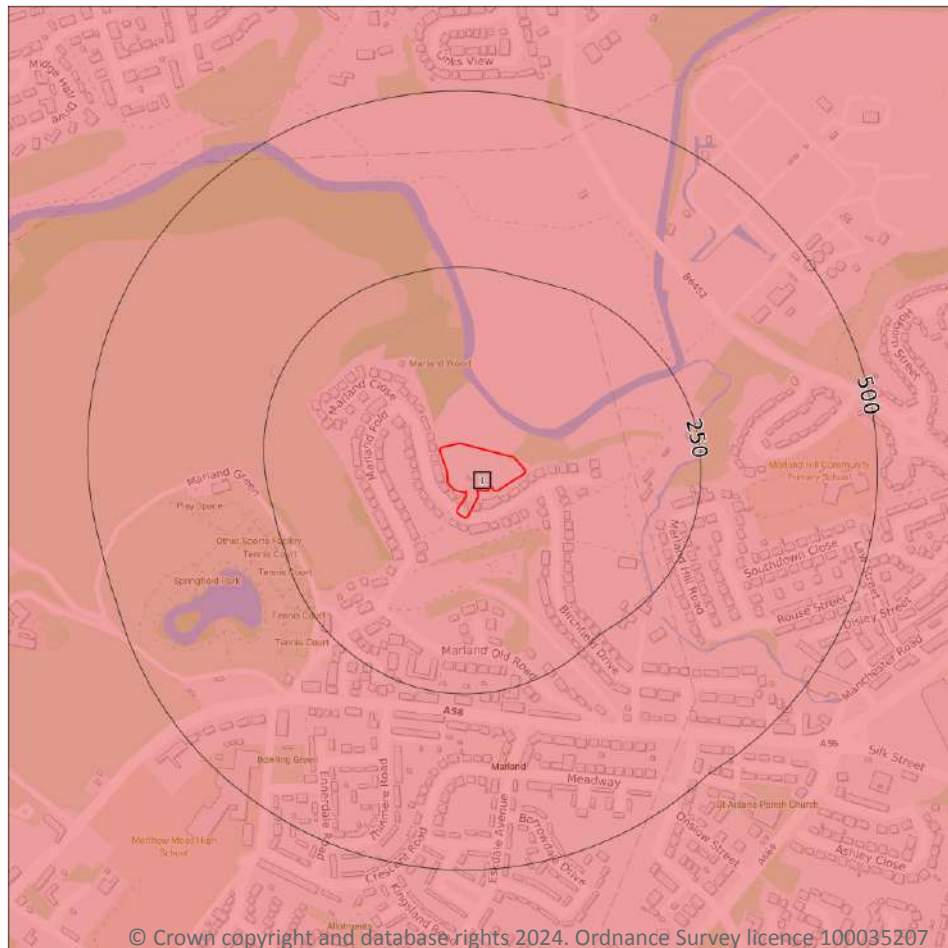
Features are displayed on the Hydrogeology map on [page 60](#) >

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.



Bedrock aquifer



- Site Outline**
- Search buffers in metres (m)**
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

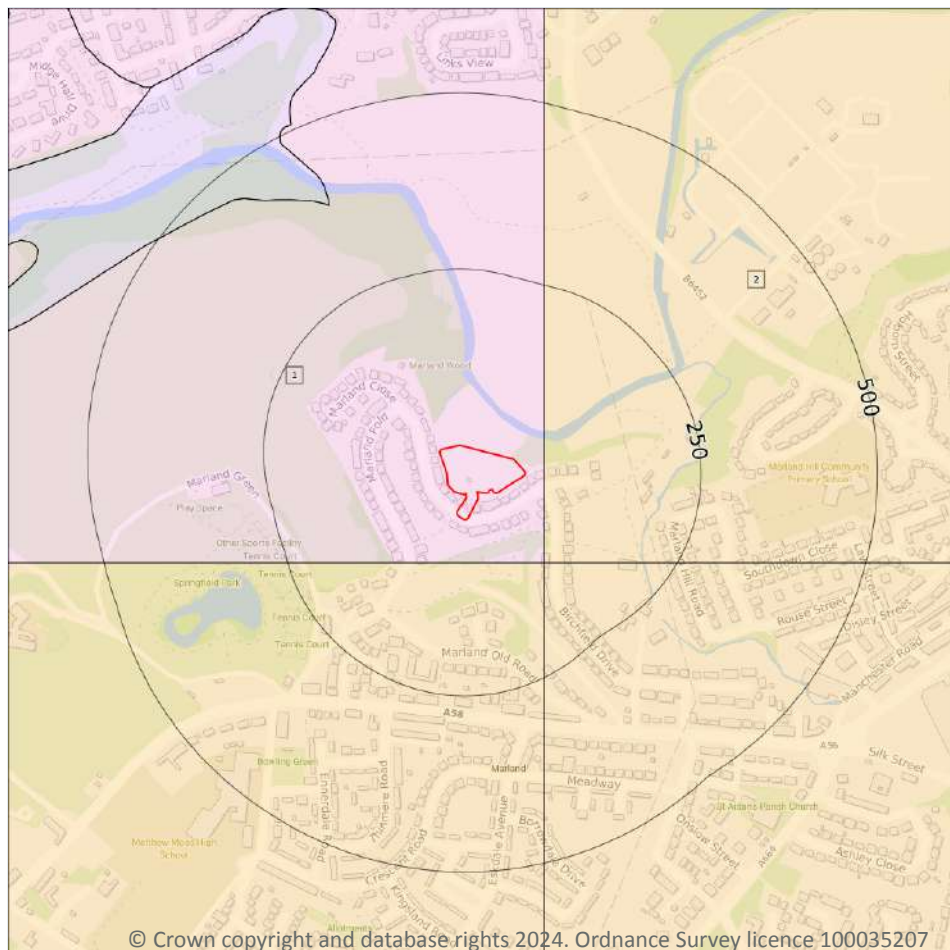
Features are displayed on the Bedrock aquifer map on [page 61](#) >

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



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on [page 62](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	27m E	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

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

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

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

5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

9

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 64](#) >

ID	Location	Details	
-	1454m W	Status: Historical Licence No: 2569002037 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD" Data Type: Point Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1993 Version End Date: -
-	1454m W	Status: Historical Licence No: 2569002037 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD" Data Type: Point Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1993 Version End Date: -
-	1454m W	Status: Historical Licence No: 2569002037 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD Data Type: Point Name: K.SHAW & COMPANY LTD. Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/2002 Version End Date: -
-	1454m W	Status: Historical Licence No: 2569002037 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD Data Type: Point Name: K.SHAW & COMPANY LTD. Easting: 386500 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/10/2002 Version End Date: -



ID	Location	Details	
-	1544m NE	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE" Data Type: Point Name: ALEXANDER DREW & SONS LTD Easting: 388700 Northing: 413500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 02/05/2000 Version End Date: -
-	1544m NE	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE Data Type: Point Name: ALEXANDER DREW LTD. Easting: 388700 Northing: 413500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2003 Version End Date: -
-	1544m NE	Status: Historical Licence No: 2569002050 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES SPOTLAND ROCHDALE Data Type: Point Name: ALEXANDER DREW LTD Easting: 388700 Northing: 413500	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2100 Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2003 Version End Date: -
-	1784m NW	Status: Active Licence No: 2569002140 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT ROCHDALE GOLF COURSE AT NORDEN, ROCHDALE Data Type: Point Name: ROCHDALE GOLF CLUB LTD Easting: 386800 Northing: 413600	Annual Volume (m ³): 7272 Max Daily Volume (m ³): 120 Original Application No: 0962 Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/11/1997 Version End Date: -



ID	Location	Details	
-	1784m NW	Status: Historical Licence No: 2569002140 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT ROCHDALE GOLF COURSE AT NORDEN, ROCHDALE" Data Type: Point Name: ROCHDALE GOLF CLUB LTD Easting: 386800 Northing: 413600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/11/1997 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	2
-----------------------------	----------

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 64 >](#)

ID	Location	Details	
-	1379m SW	Status: Historical Licence No: 2569002270 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEYWOOD Data Type: Line Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386620 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 17/06/1999 Version End Date: -
-	1379m SW	Status: Historical Licence No: 2569002270 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEYWOOD Data Type: Line Name: ROE ACRE DYEING & FELTING CO LTD Easting: 386620 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 17/06/1999 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

0

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

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

5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

15

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 69](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
2	46m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch



ID	Location	Type of water feature	Ground level	Permanence	Name
B	46m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	95m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
5	153m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	174m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	187m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Sudden Brook
D	188m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	188m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
D	197m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	205m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	206m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	223m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	231m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	233m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
7	238m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	6
----------------------------	----------

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 69 >](#)

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 69 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Spodden to Irwell)	GB112069064600	Roch Irk Medlock	Irwell

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 69 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	51m NE	River	Roch (Spodden to Irwell)	GB112069064600 ↗	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.

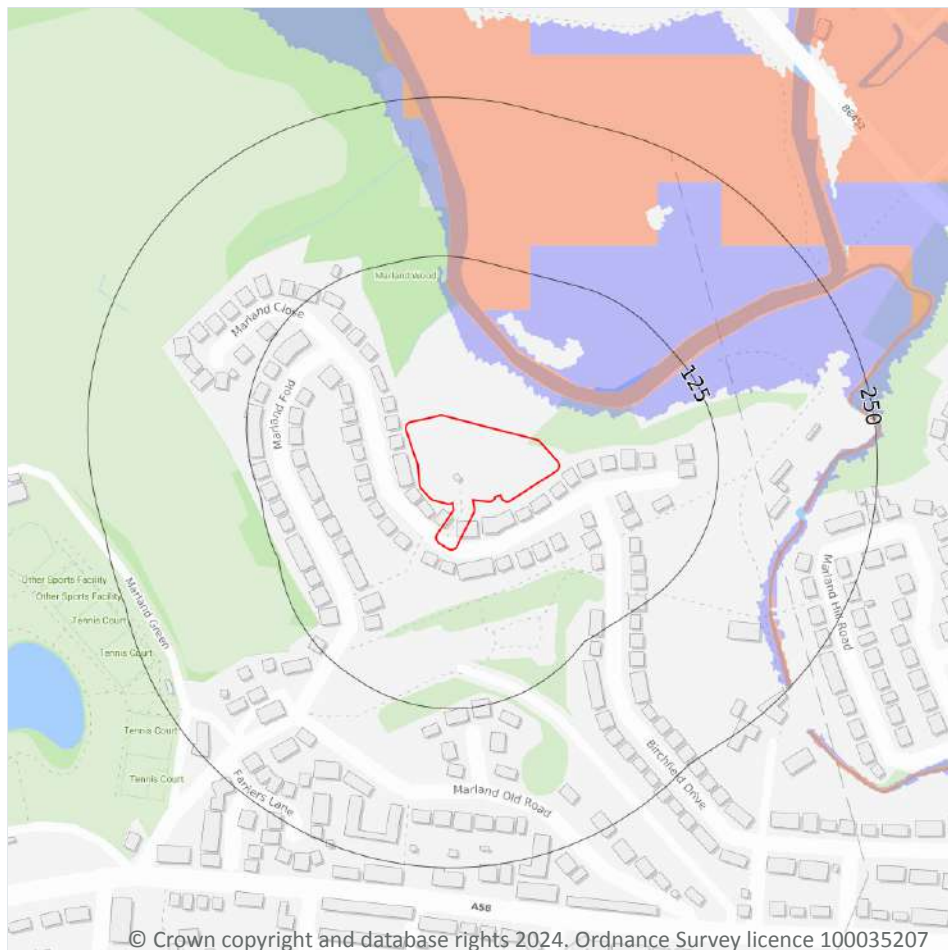
Features are displayed on the Hydrology map on [page 69 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	Poor	Poor	Good	2019

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



7 River and coastal flooding



-  Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
-  High
-  Medium
-  Low
-  Very Low
-  Historical Flood Events
-  Areas Used for Flood Storage
-  Areas Benefiting from Flood Defences
-  Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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

Features are displayed on the River and coastal flooding map on [page 73 >](#)

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

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

7.2 Historical Flood Events

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

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

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

7.3 Flood Defences

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

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

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

7.4 Areas Benefiting from Flood Defences

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

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

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

7.5 Flood Storage Areas

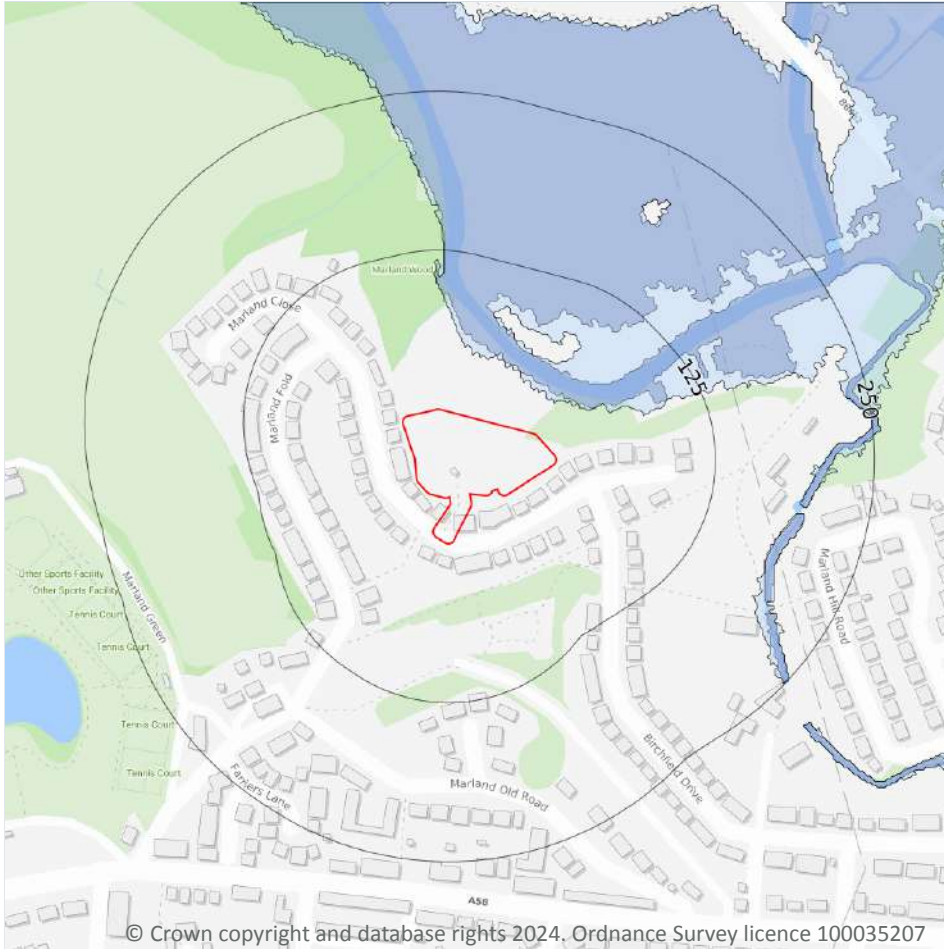
Records within 250m	0
----------------------------	----------

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

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



River and coastal flooding - Flood Zones



— Site Outline
Search buffers in metres (m)

□ Flood zone 2

■ Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 73 >](#)

Location	Type
29m NE	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

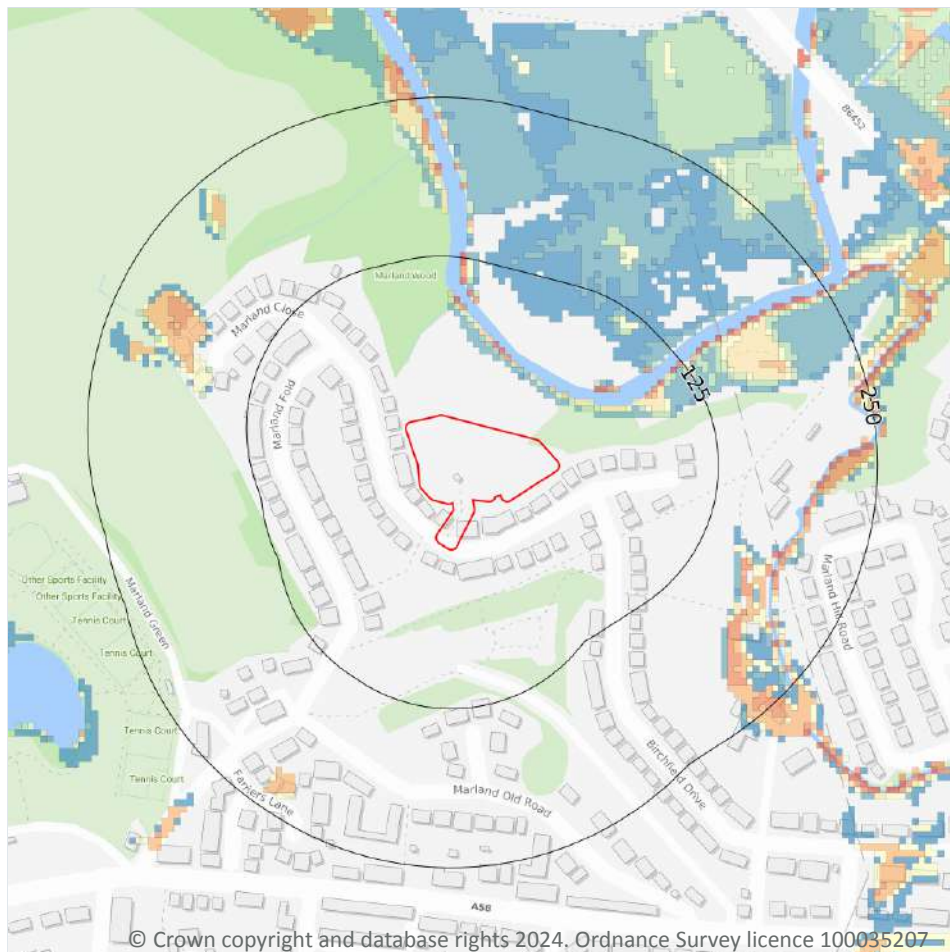
Features are displayed on the River and coastal flooding map on [page 73](#) >

Location	Type
35m NE	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 100 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on [page 77 >](#)

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 Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

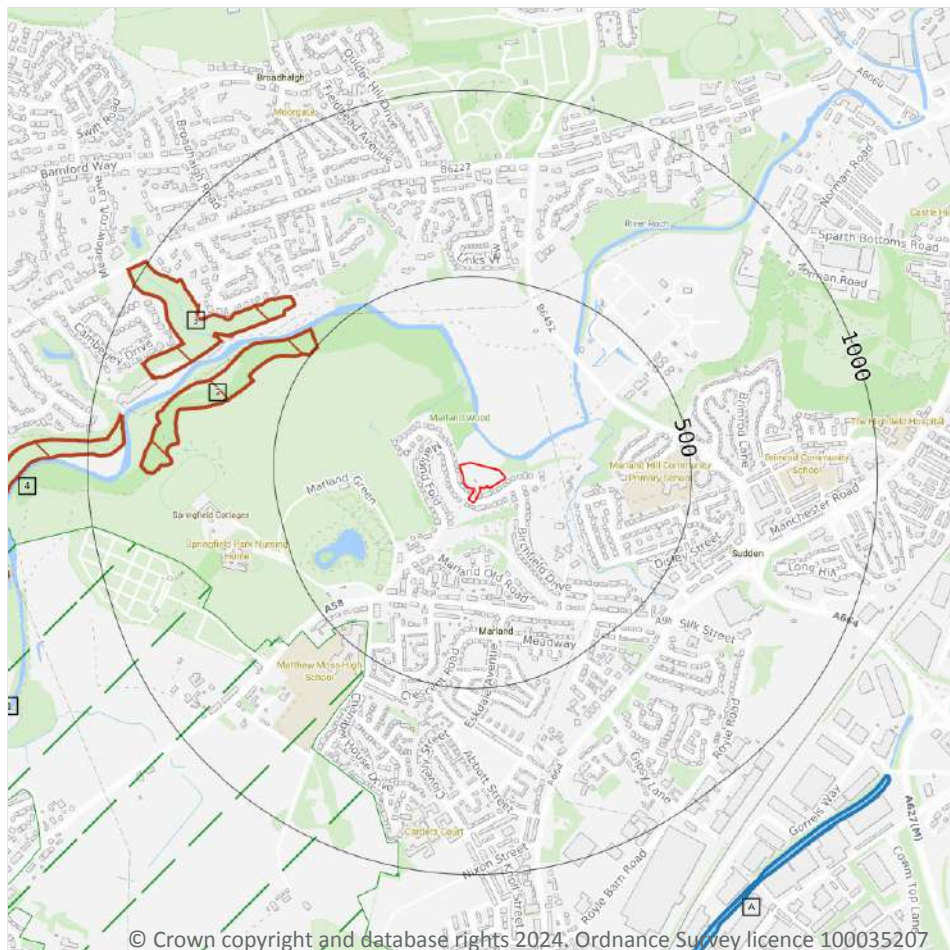
Moderate

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 79 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

5

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.

Features are displayed on the Environmental designations map on [page 80](#) >

ID	Location	Name	Data source
A	1257m SE	Rochdale Canal	Natural England



ID	Location	Name	Data source
B	1355m SE	Rochdale Canal	Natural England
-	1477m E	Rochdale Canal	Natural England
-	1610m S	Rochdale Canal	Natural England
-	1712m E	Rochdale Canal	Natural England

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	5
-----------------------------	----------

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.

Features are displayed on the Environmental designations map on [page 80](#) >

ID	Location	Name	Features of interest	Habitat description	Data source
A	1257m SE	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
B	1355m SE	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
-	1477m E	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England



ID	Location	Name	Features of interest	Habitat description	Data source
-	1610m S	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
-	1712m E	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

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 80 >](#)

ID	Location	Name	Woodland Type
2	498m NW	Springfield Wood	Ancient & Semi-Natural Woodland
3	619m NW	River Rock Wood (2)	Ancient & Semi-Natural Woodland
4	904m W	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 80](#) >

ID	Location	Name	Local Authority name
1	426m SW	Merseyside and Greater Manchester	Rochdale

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

1

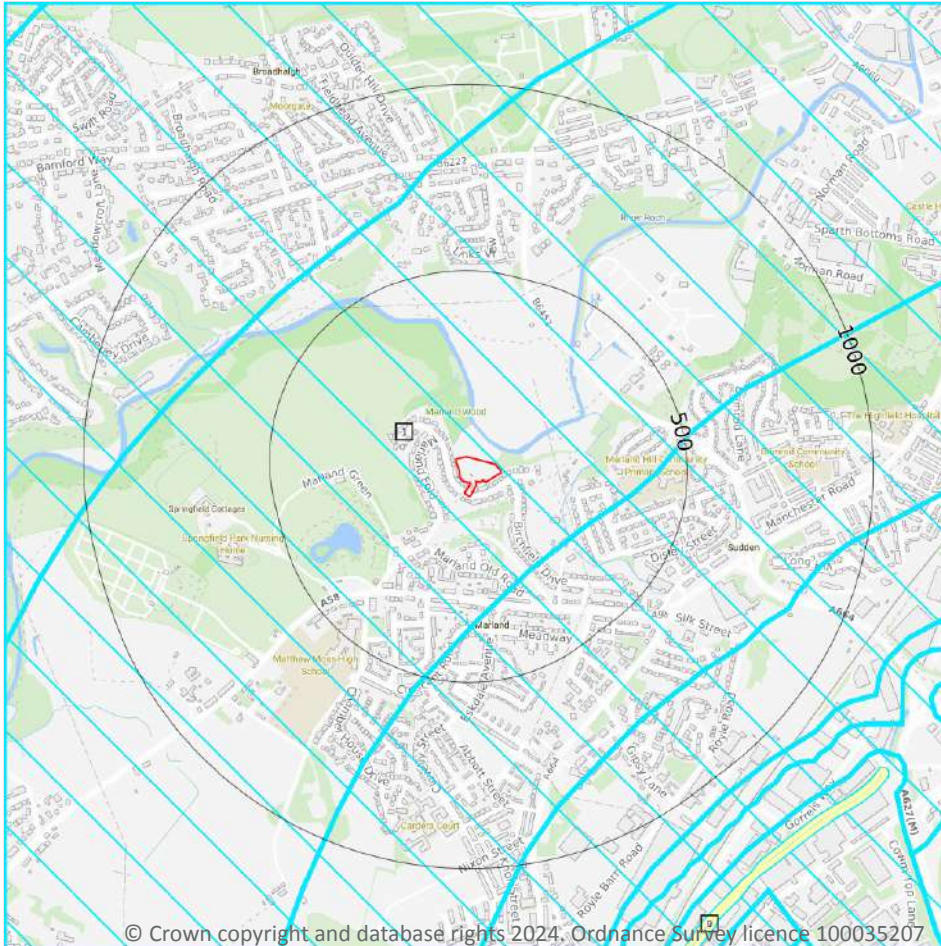
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1559m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 86 >](#)

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	5
-----------------------------	----------

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.

Features are displayed on the SSSI Impact Zones and Units map on [page 86 >](#)

ID: 9
 Location: 1257m SE
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010



ID: A
Location: 1355m SE
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: -
Location: 1477m E
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: -
Location: 1610m S
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

ID: -
Location: 1712m E
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:



Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

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

0

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.



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

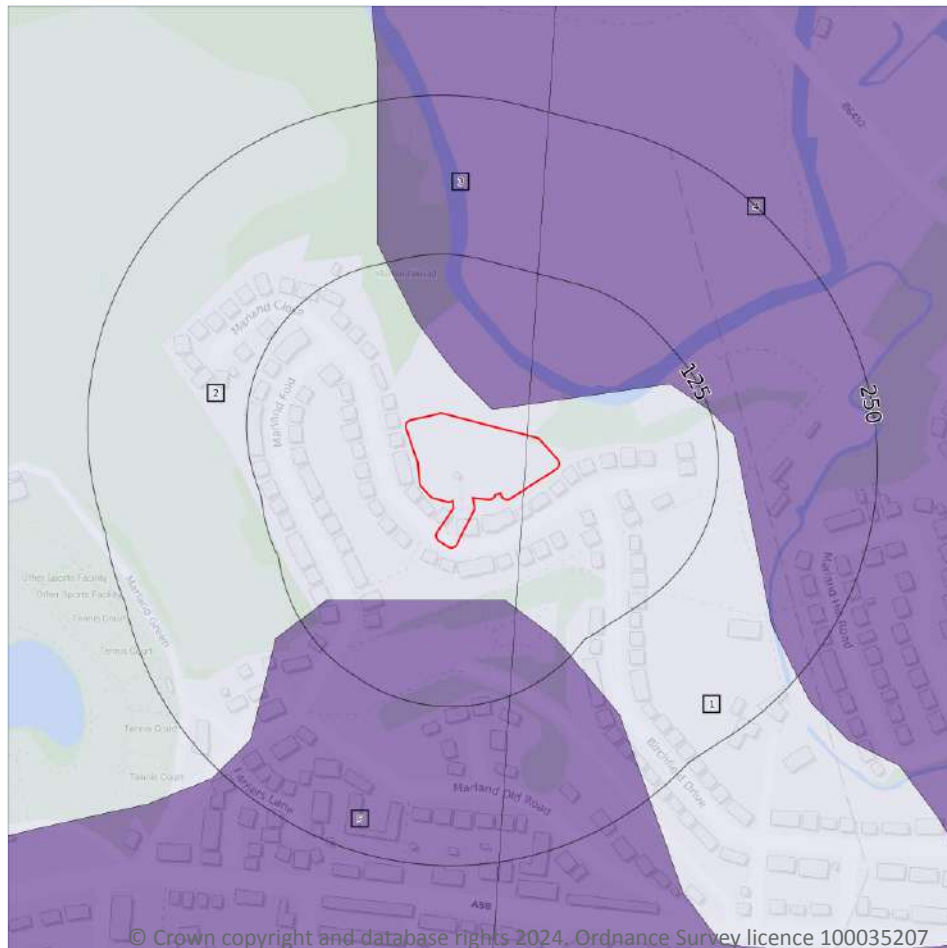
0

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

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



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

5

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

Features are displayed on the Agricultural designations map on [page 92](#) >

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



ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
3	13m N	Urban	Non-agricultural/no quality assigned
4	24m NE	Urban	Non-agricultural/no quality assigned
5	41m S	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

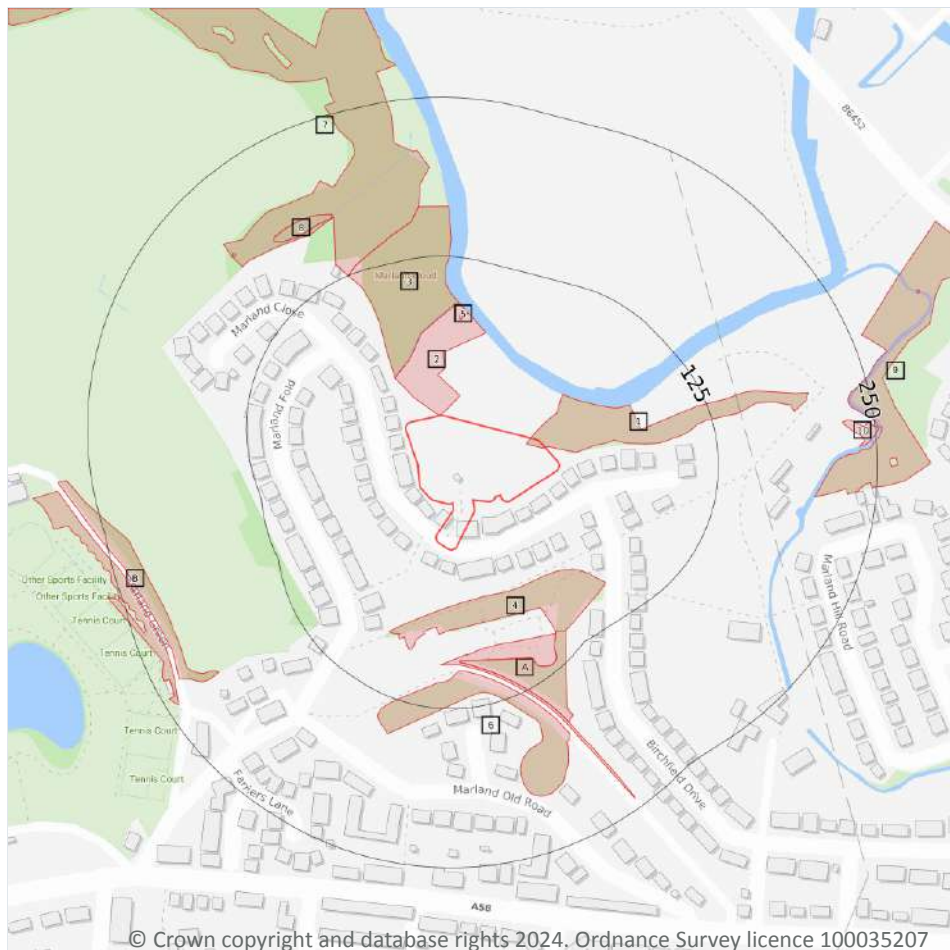
0

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

This data is sourced from Natural England.



13 Habitat designations



- Site Outline
- Search buffers in metres (m)
- Priority Habitat Inventory
- Open Mosaic Habitat
- Limestone Pavement Orders
- Habitat Networks
- Primary Habitat
- Restorable Habitat
- Associated Habitats
- Habitat Restoration-Creation
- Network Enhancement Zone 1
- Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

14

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

Features are displayed on the Habitat designations map on [page 95 >](#)

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	37m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	42m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	77m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	82m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	88m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	96m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	125m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	170m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	201m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	202m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	225m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	229m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs



which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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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 98](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81SE

This data is sourced from the British Geological Survey.



Contact us with any questions at:

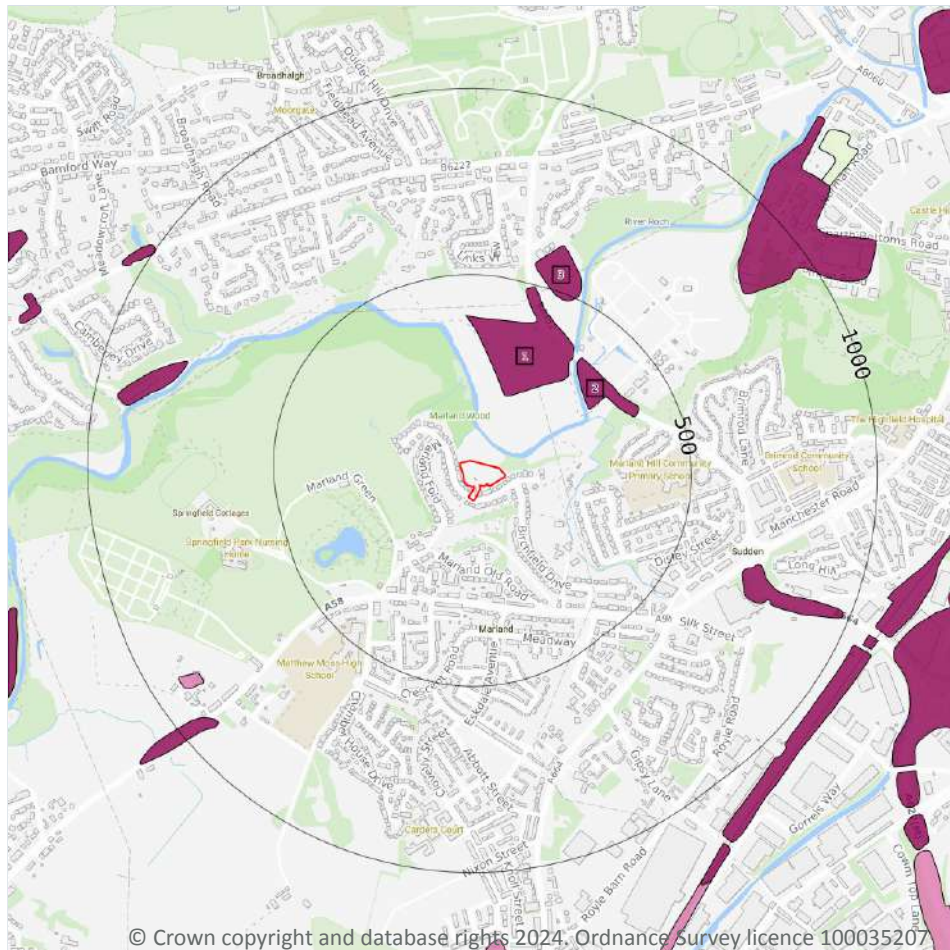
info@groundsure.com ↗

01273 257 755

Date: 15 October 2024

98

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



— Site Outline
Search buffers in metres (m)

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

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14.2 Artificial and made ground (10k)

Records within 500m

3

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.

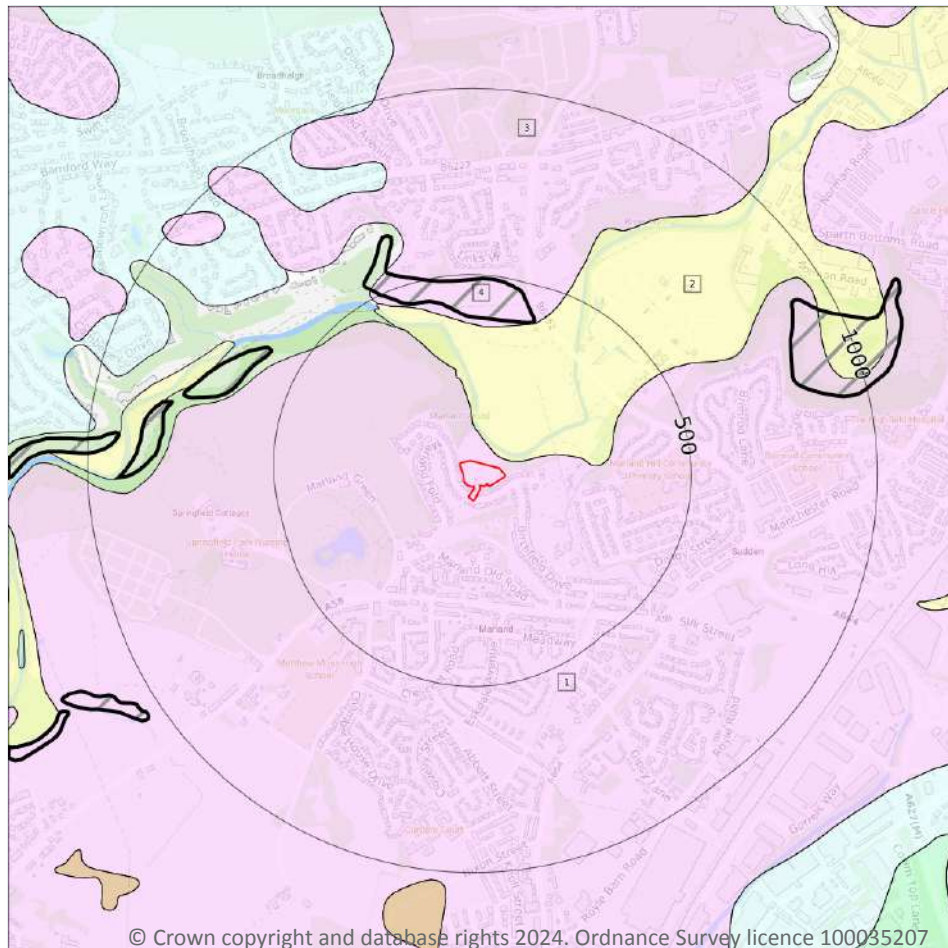
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 99](#) >

ID	Location	LEX Code	Description	Rock description
1	193m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	287m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	484m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

3

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 100](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	27m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	362m N	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

1

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

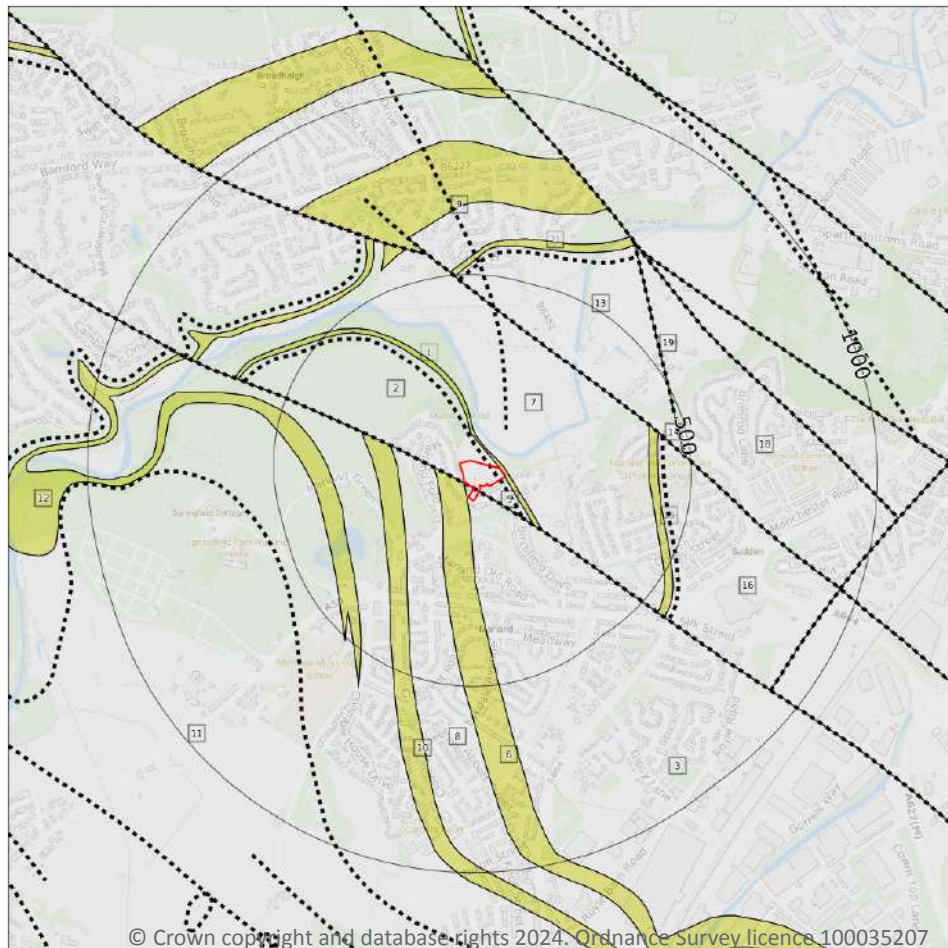
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 100](#) >

ID	Location	LEX Code	Description	Rock description
4	384m N	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

14

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 102 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	RSC-SDST	Riddle Scout Rock - Sandstone	Langsettian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
6	3m SW	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
7	9m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
8	68m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	167m W	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
11	224m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	335m W	RSC-SDST	Riddle Scout Rock - Sandstone	Langsettian Sub-age
13	337m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
15	388m E	RSC-SDST	Riddle Scout Rock - Sandstone	Langsettian Sub-age
16	412m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
18	481m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	496m N	RSC-SDST	Riddle Scout Rock - 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

7

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 102](#) >

ID	Location	Category	Description
4	On site	ROCK	Coal seam, inferred
5	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	98m NE	LANDFORM	Buried channel or valley margin
14	337m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	426m E	ROCK	Coal seam, inferred



ID	Location	Category	Description
19	481m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
20	487m N	ROCK	Coal seam, 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 105](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_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

0

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.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

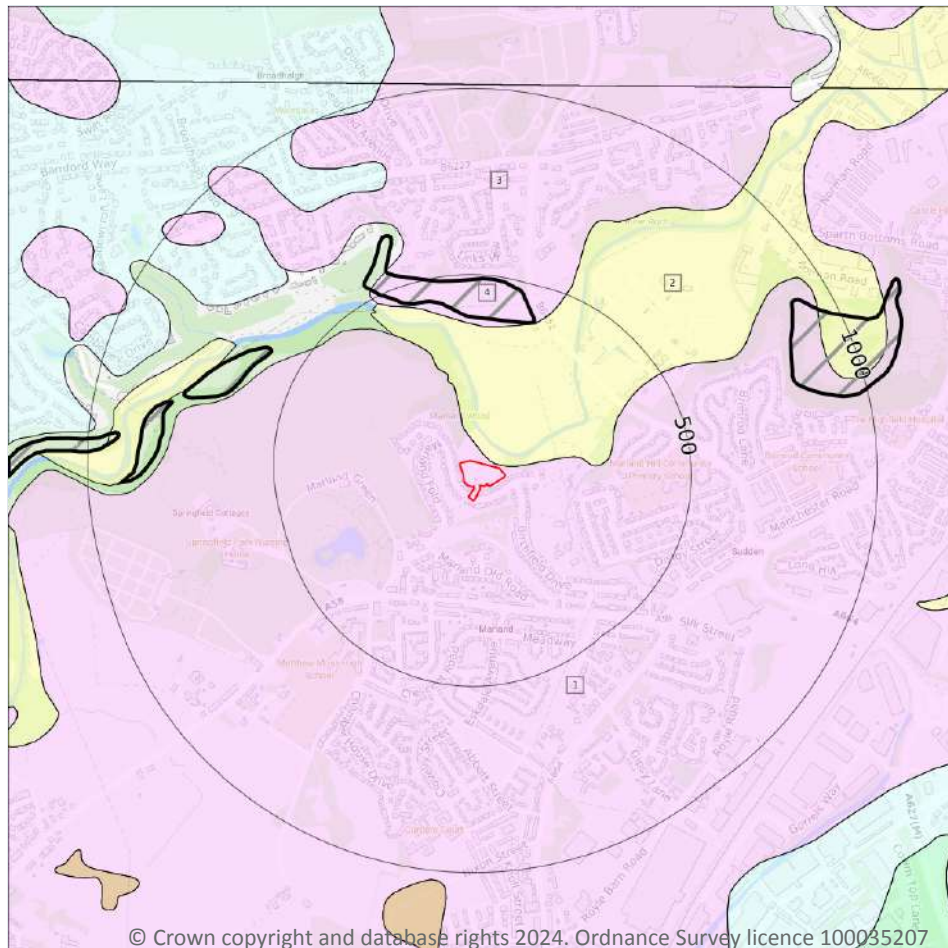
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

3

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 107](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	9m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	362m N	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m

2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High
9m NE	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 107](#) >

ID	Location	LEX Code	Description	Rock description
4	384m N	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

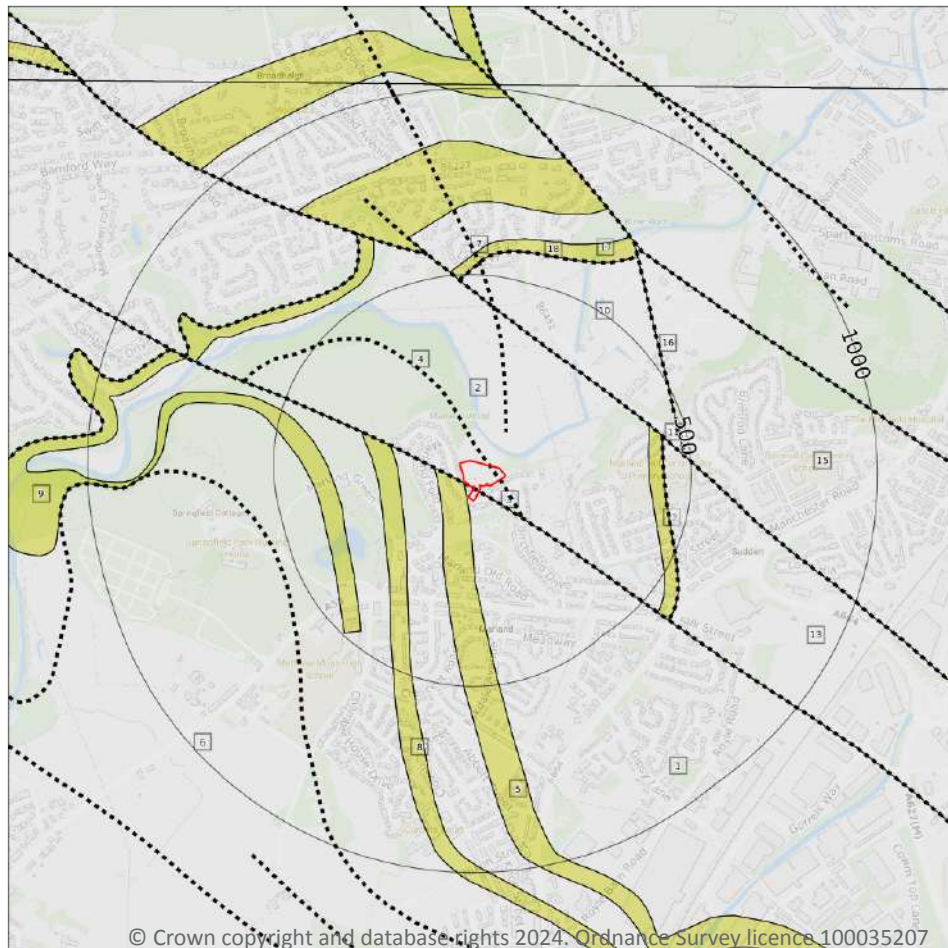
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

11

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 109 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	2m SW	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
6	68m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	167m W	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
9	335m W	RSC-SDST	RIDDLE SCOUT ROCK - SANDSTONE	WESTPHALIAN
10	337m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	387m E	RSC-SDST	RIDDLE SCOUT ROCK - SANDSTONE	WESTPHALIAN
13	426m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	481m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	486m N	RSC-SDST	RIDDLE SCOUT ROCK - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
2m SW	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	7
----------------------------	----------

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 109](#) >



ID	Location	Category	Description
3	On site	FAULT	Fault, inferred
4	On site	ROCK	Coal seam, inferred
7	98m NE	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
11	337m NE	FAULT	Fault, inferred
14	426m E	ROCK	Coal seam, inferred
16	481m E	FAULT	Fault, inferred
18	486m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

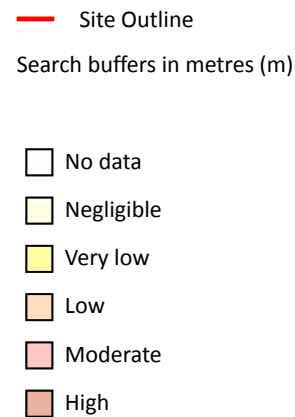
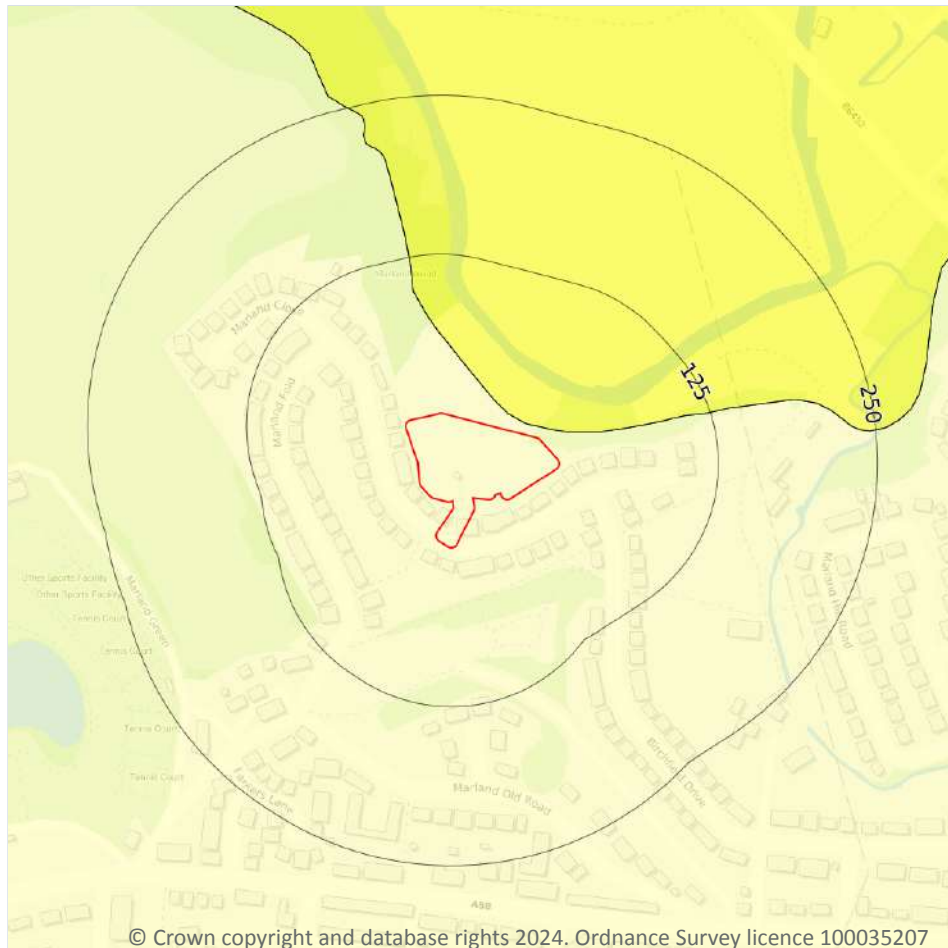


ID	Location	Grid reference	Name	Length	Confidential	Web link
3	191m N	387965 412342	ROCH MILLS TREATMENT WORKS BH2	20.12	N	29922 ↗
4	221m NE	388023 412358	ROCH MILLS TREATMENT WORKS BH3	18.59	N	29923 ↗
5	225m N	387888 412392	ROCH MILLS TREATMENT WORKS BH6	6.4	N	29926 ↗
6	241m N	387980 412390	ROCH MILLS SEWAGE WORKS SITE B 2/1	12.49	N	15625695 ↗
7	249m NE	388168 412283	ROCH MILLS TREATMENT WRKS BH37	9.75	N	29957 ↗
8	249m N	387947 412407	ROCH MILLS TREATMENT WORKS BH7	15.24	N	29927 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

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

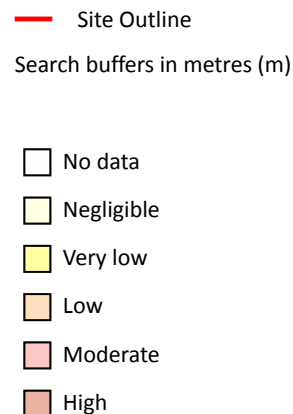
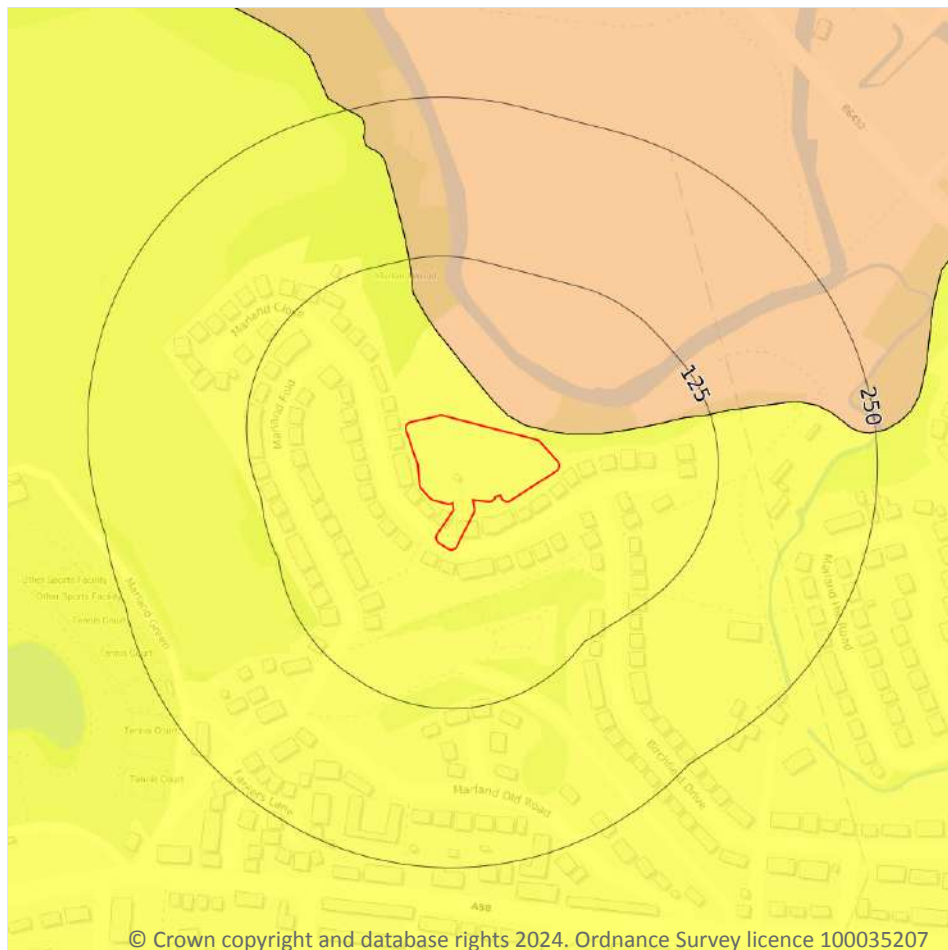
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 114](#) >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
9m NE	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 115 >](#)

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

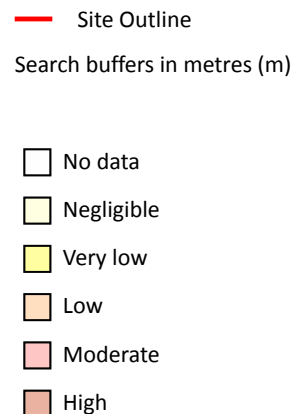
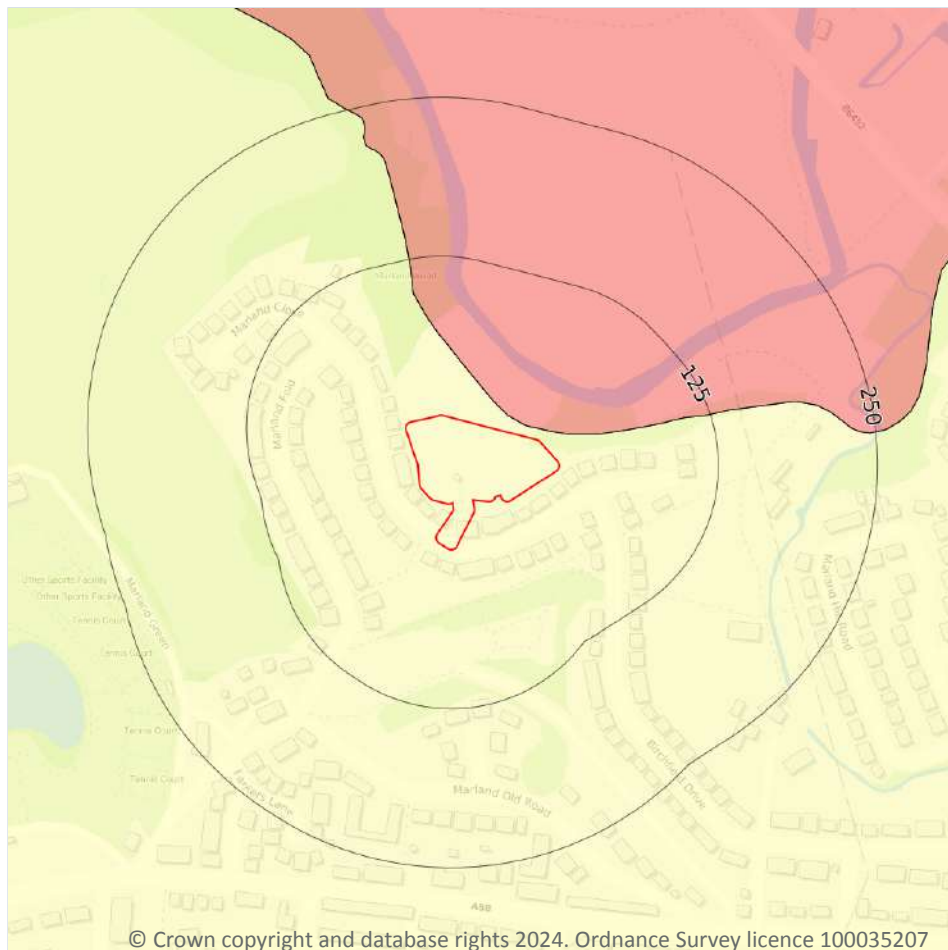


Location	Hazard rating	Details
9m NE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 117 >](#)

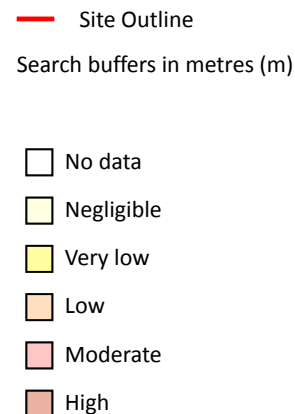
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
9m NE	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

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

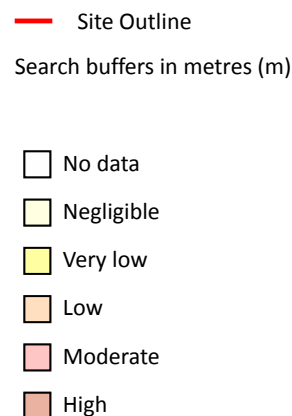
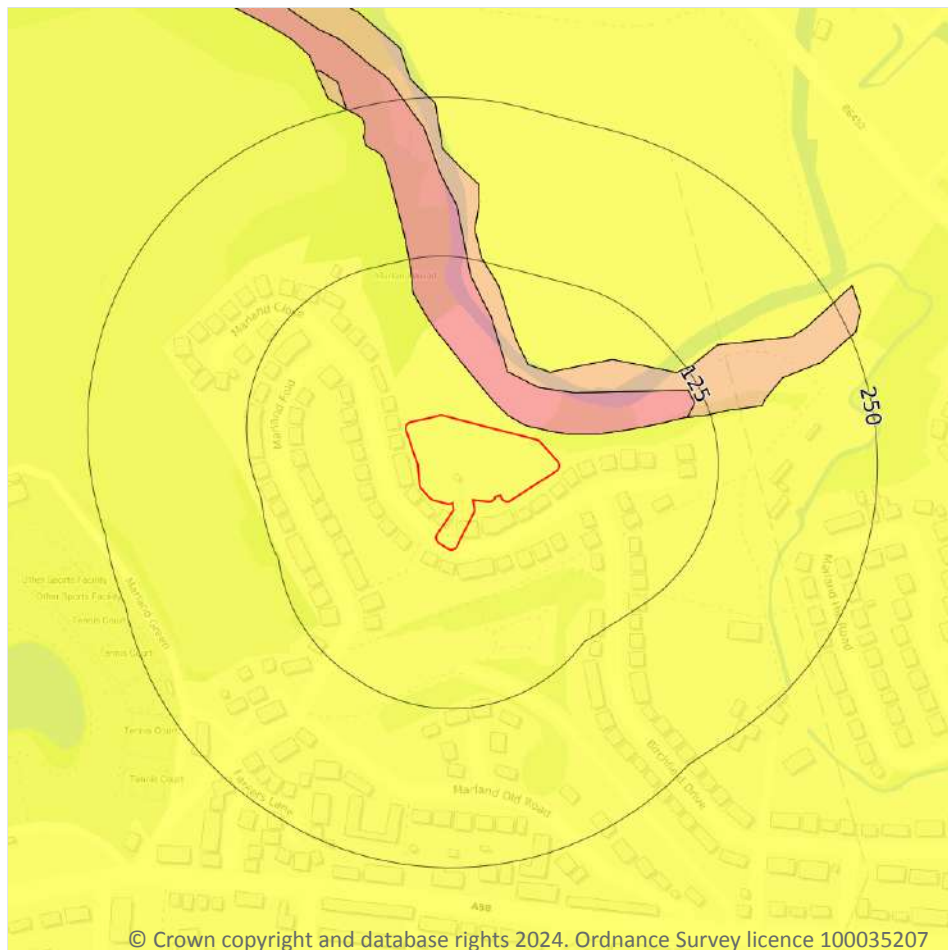
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 119 >](#)

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
9m NE	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



17.5 Landslides

Records within 50m

3

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 120](#) >

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

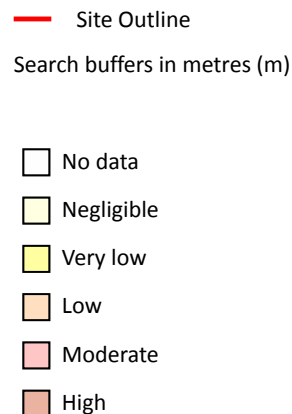
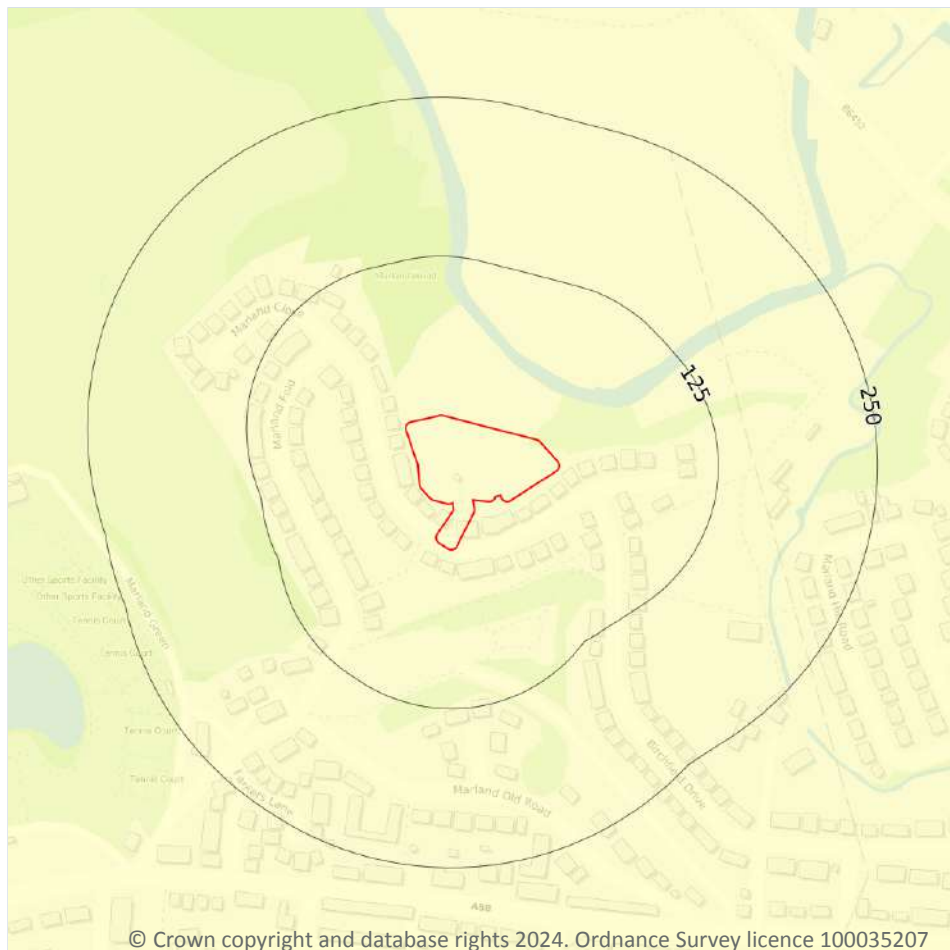


Location	Hazard rating	Details
9m NE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
40m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 122 >](#)

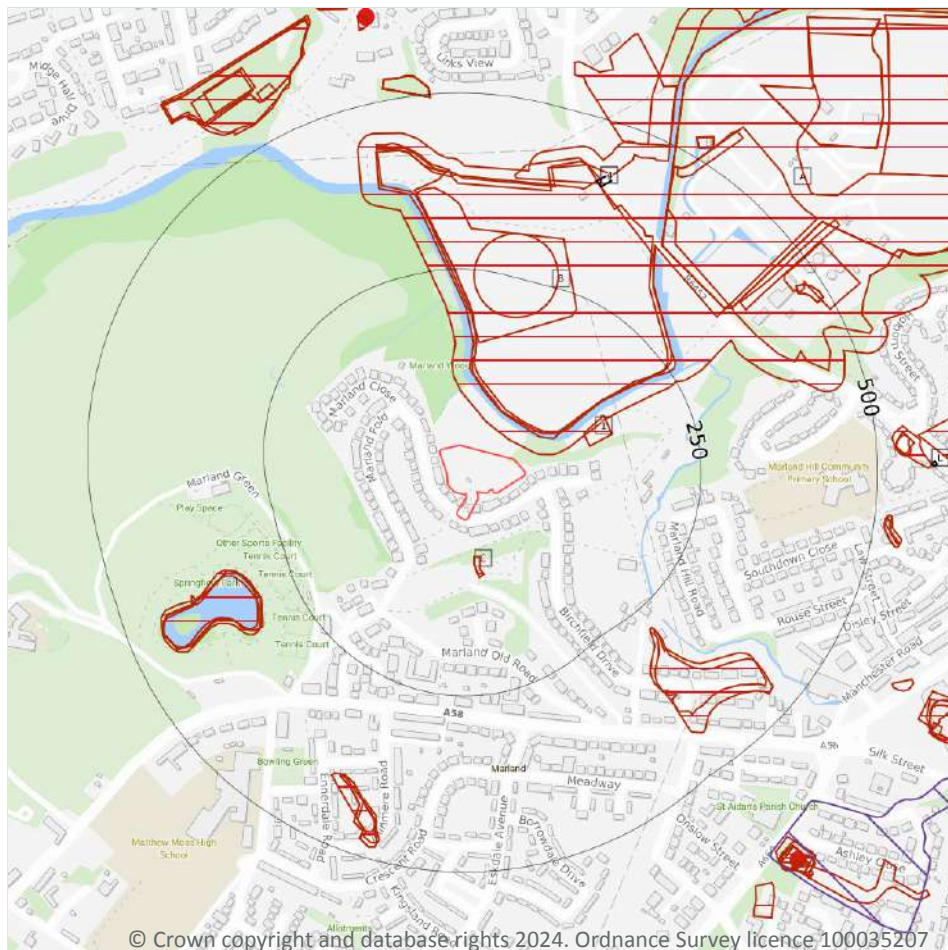
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

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.

18.2 Surface ground workings

Records within 250m

9

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on [page 124 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	22m NE	Sewage Farm	1928	1:10560
B	47m NE	Sewage Farm	1938	1:10560
B	51m NE	Sewage Purification Works	1968	1:10560
A	54m NE	Sewage Farm	1956	1:10560
C	54m S	Unspecified Ground Workings	1992	1:10000
C	54m S	Unspecified Ground Workings	1987	1:10000
1	99m E	Settling Tanks	1908	1:10560
B	148m N	Filter Beds	1908	1:10560
B	194m N	Sludge Beds	1975	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

3

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

Features are displayed on the Mining and ground workings map on [page 124 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
4	406m NE	Tunnel	1968	1:10560
L	578m E	Unspecified Shaft	1890	1:10560
-	890m NW	Unspecified Old Shaft	1890	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the



Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.



18.13 Brine areas

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

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

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

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

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



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

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

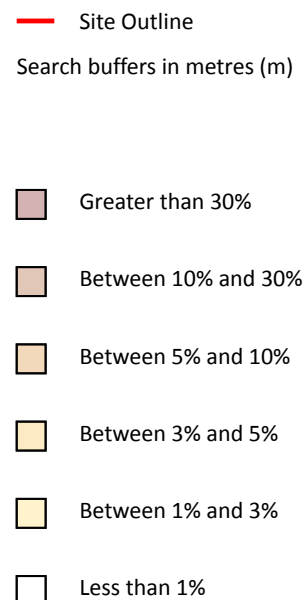
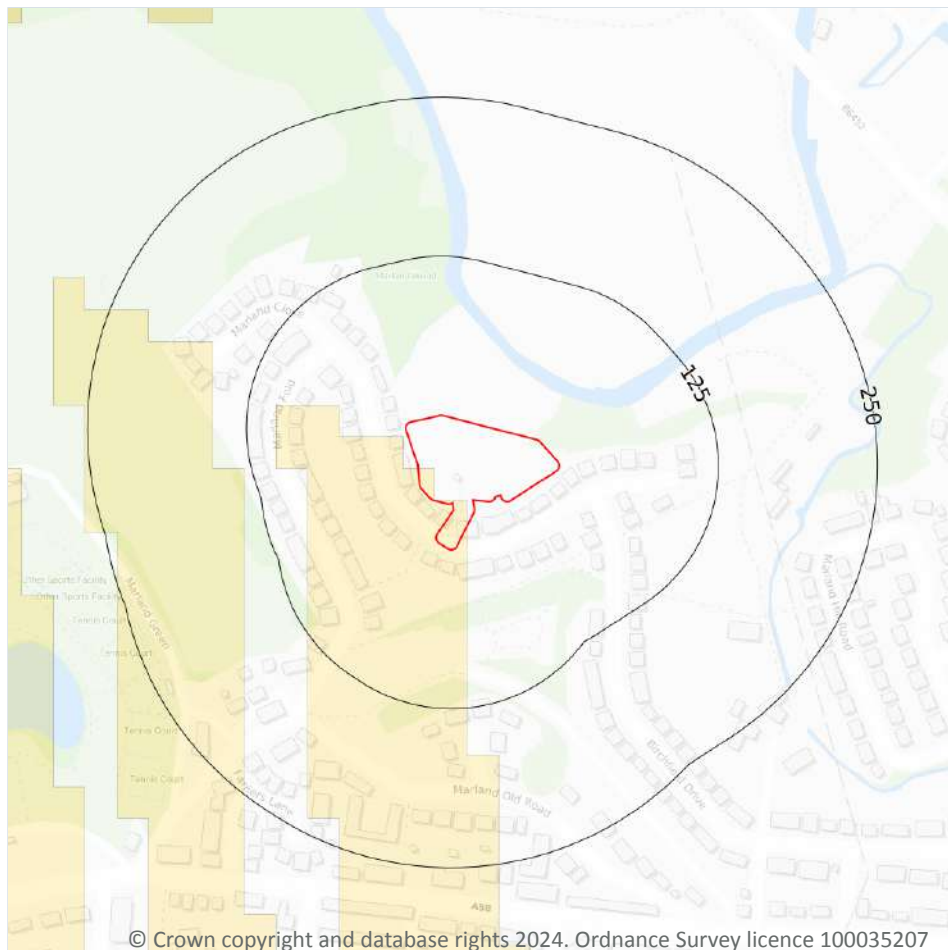
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

2

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 131](#) >

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



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

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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

7

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	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
27m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m E	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
27m E	15 - 25 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m**0**

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m**0**

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m**0**

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



APPENDIX E

These Ordnance Survey maps are not printed to scale and have been reduced to A4 size

A3 1/10,000 plans are available upon request

Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



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

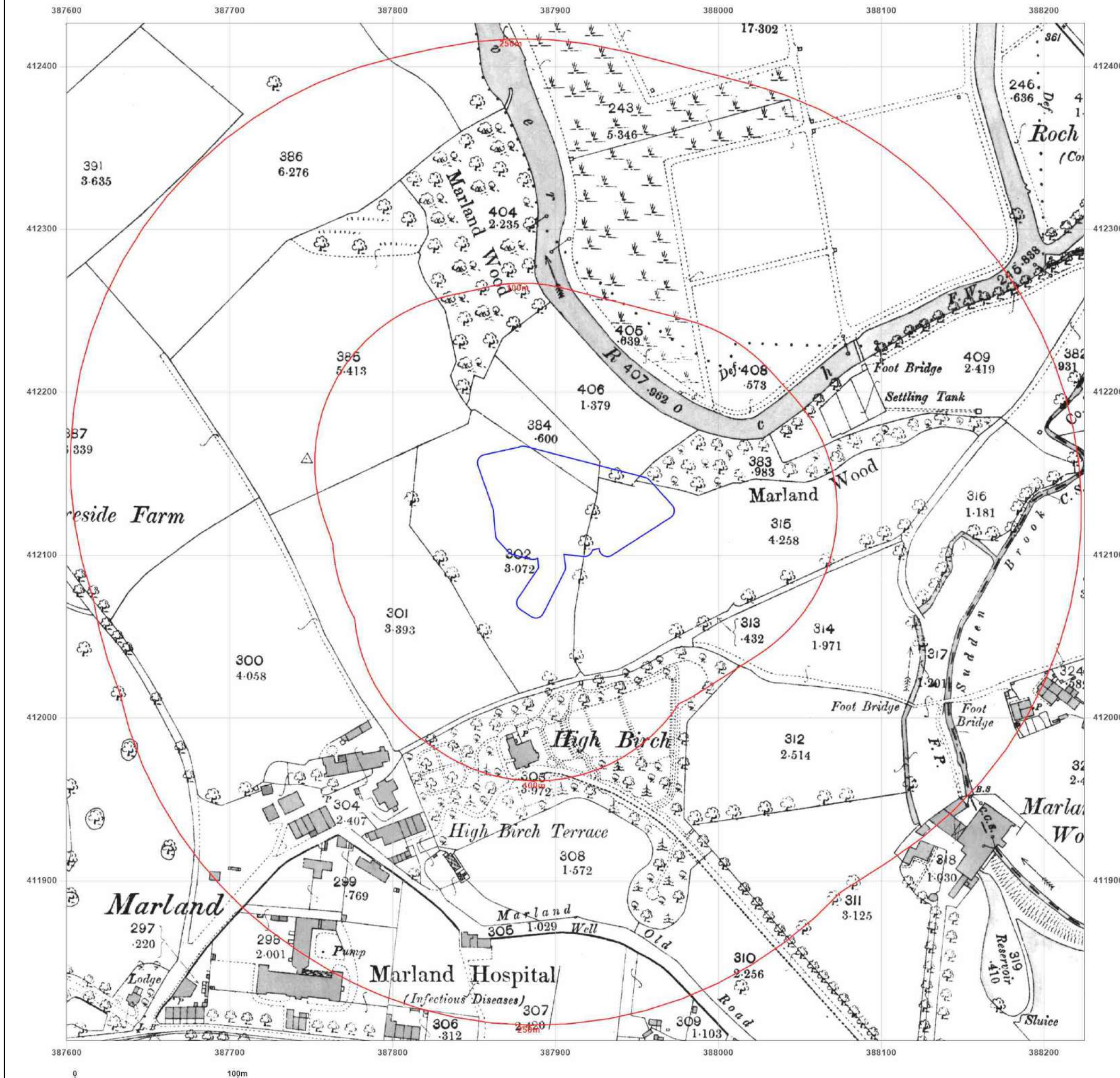


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

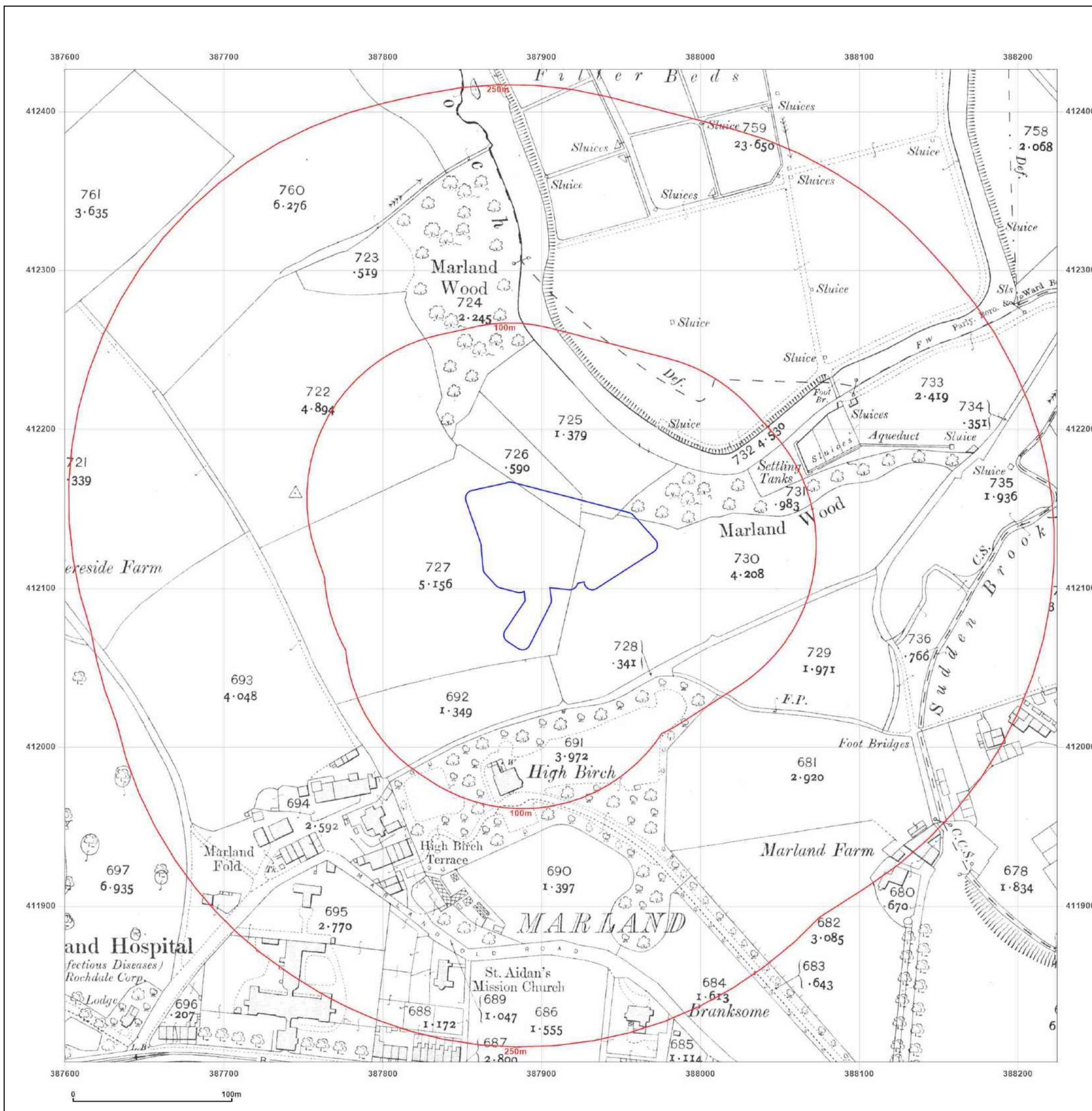


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
Revised 1930
Edition N/A
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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1956-1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
 Revised 1957
 Edition N/A
 Copyright N/A
 Levelled 1928

Surveyed 1957
 Revised 1957
 Edition N/A
 Copyright N/A
 Levelled 1928

Surveyed 1956
 Revised 1956
 Edition N/A
 Copyright N/A
 Levelled 1928

Surveyed 1956
 Revised 1956
 Edition N/A
 Copyright N/A
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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1957-1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1928

Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

Surveyed 1956
Revised 1956
Edition 1957
Copyright N/A
Levelled 1928

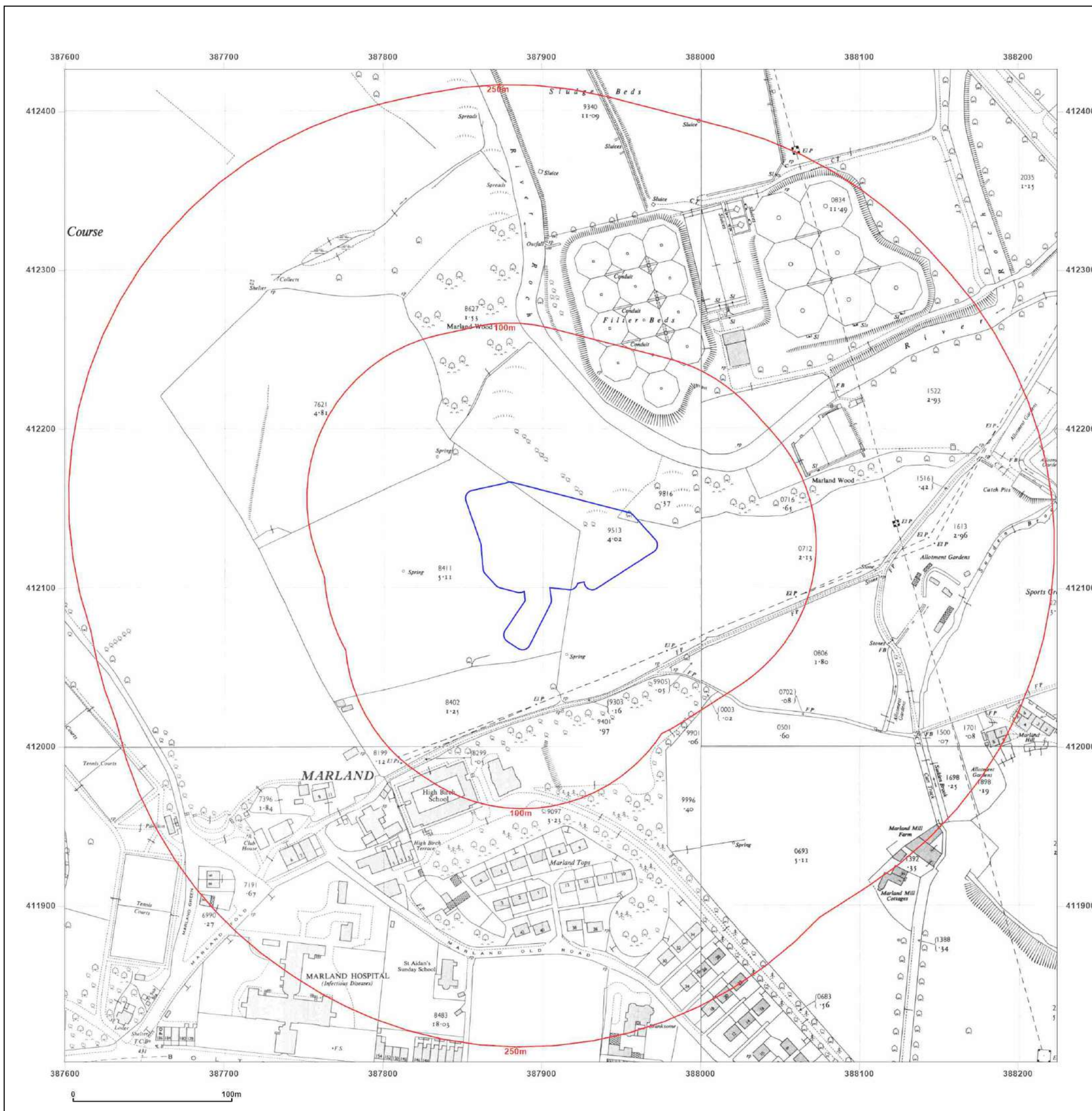


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1963-1964

Scale: 1:1,250

Printed at: 1:2,000



	Surveyed 1957 Revised 1964 Edition N/A Copyright 1964 Levelled 1956
Surveyed 1956 Revised 1962 Edition N/A Copyright 1963 Levelled 1956	Surveyed 1962 Revised 1962 Edition N/A Copyright 1963 Levelled 1956



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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1968

Scale: 1:1,250

Printed at: 1:2,000



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Levelled 1962

Surveyed 1956
Revised 1967
Edition N/A
Copyright 1968
Levelled 1962



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Site Details:

Marland Mill Farm

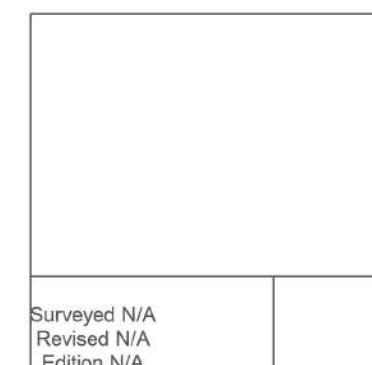
Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1968-1971

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1956
Revised 1971
Edition N/A
Copyright 1971
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Site Details:

Marland Mill Farm

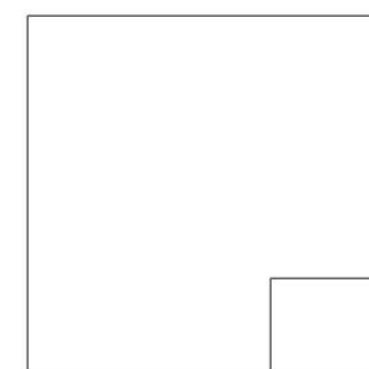
Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000



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

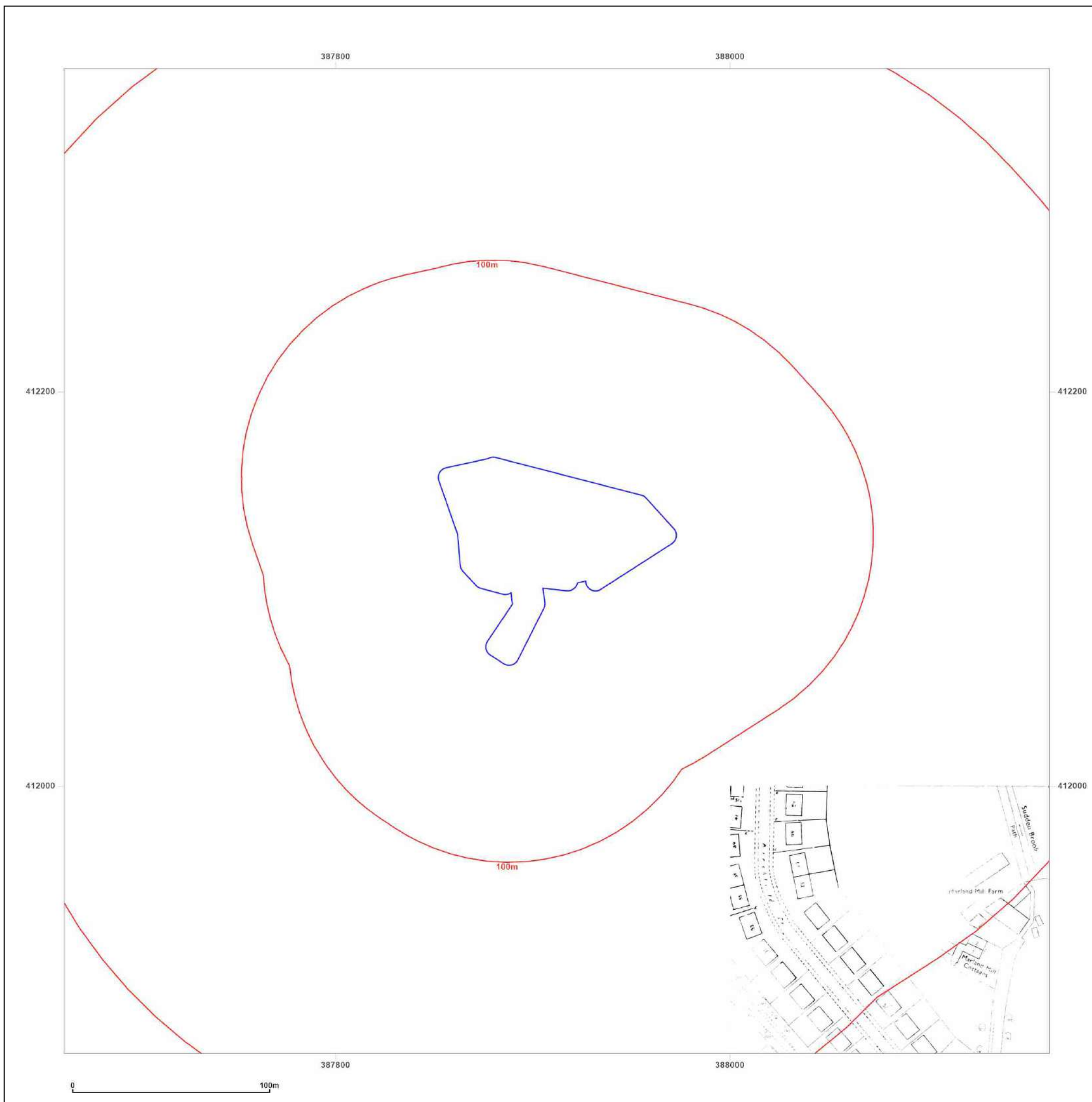


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Site Details:

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Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

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

Surveyed N/A
Revised N/A
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Site Details:

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Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1975-1978

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1975
Edition N/A
Copyright 1976
Levelled 1928

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1956

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1975
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1962



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Site Details:

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Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1983-1988

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1983
Levelled 1962

Surveyed 1950
Revised 1988
Edition N/A
Copyright 1988
Levelled 1950

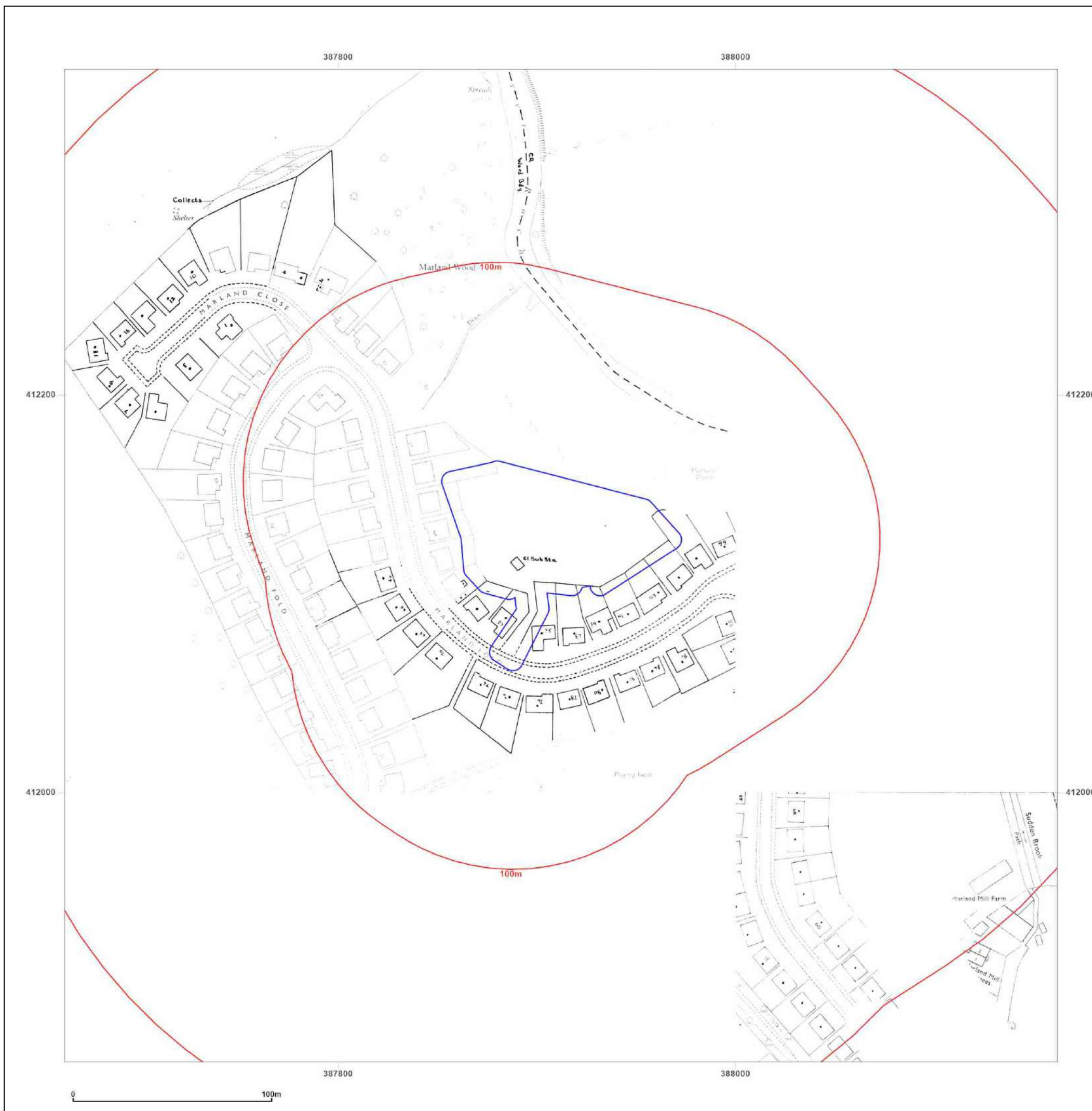


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



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

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

Surveyed 1956
Revised 1991
Edition N/A
Copyright 1991
Levelled 1956



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Site Details:

Marland Mill Farm

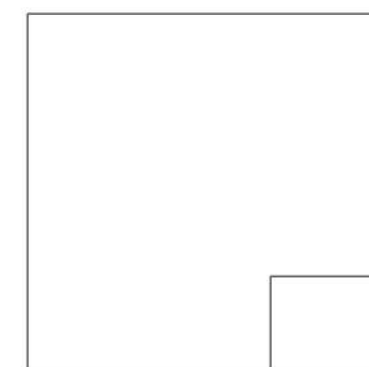
Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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

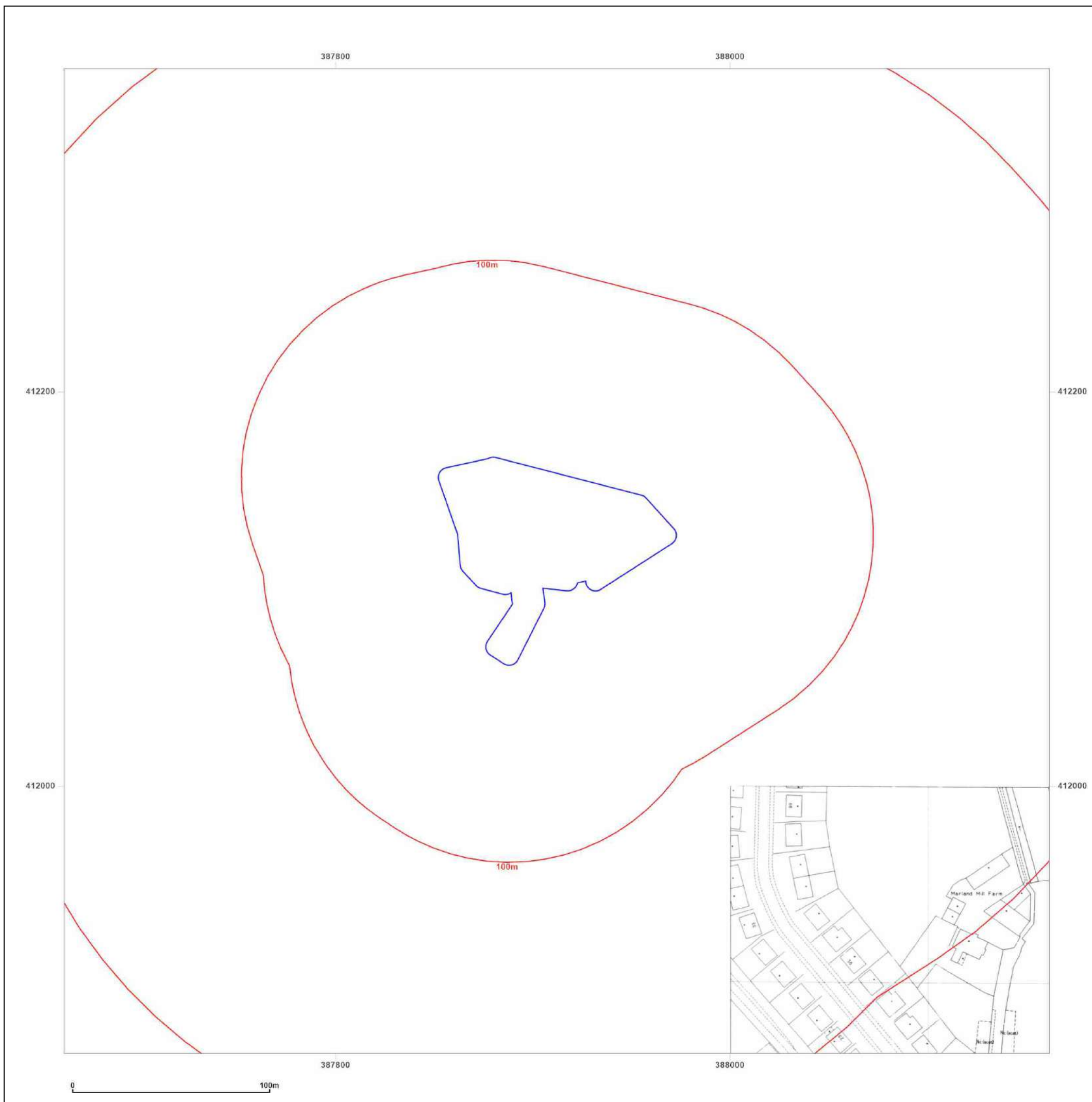


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1851
Copyright N/A
Levelled N/A

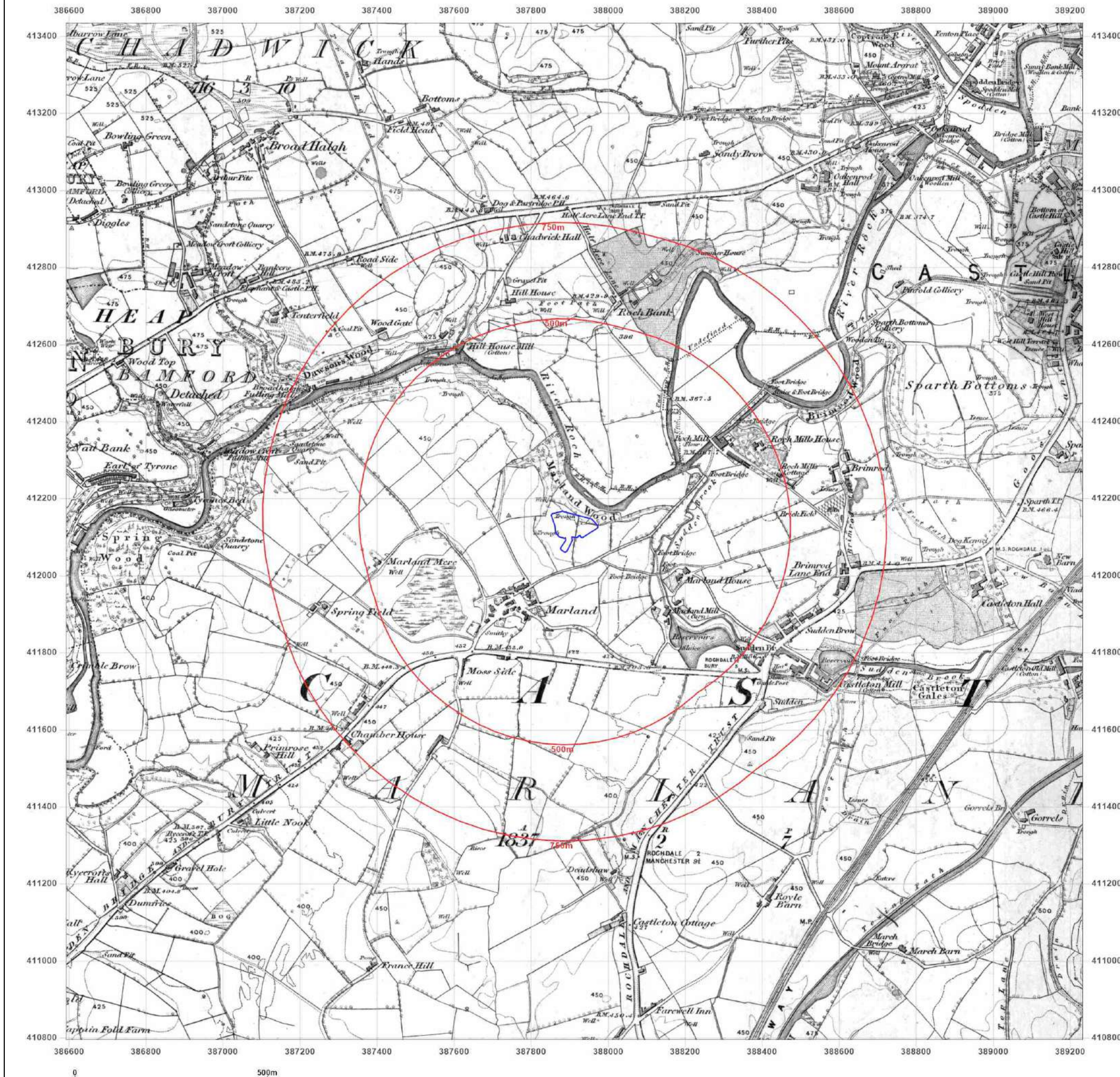


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1890

Scale: 1:10,560

Printed at: 1:10,560



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

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

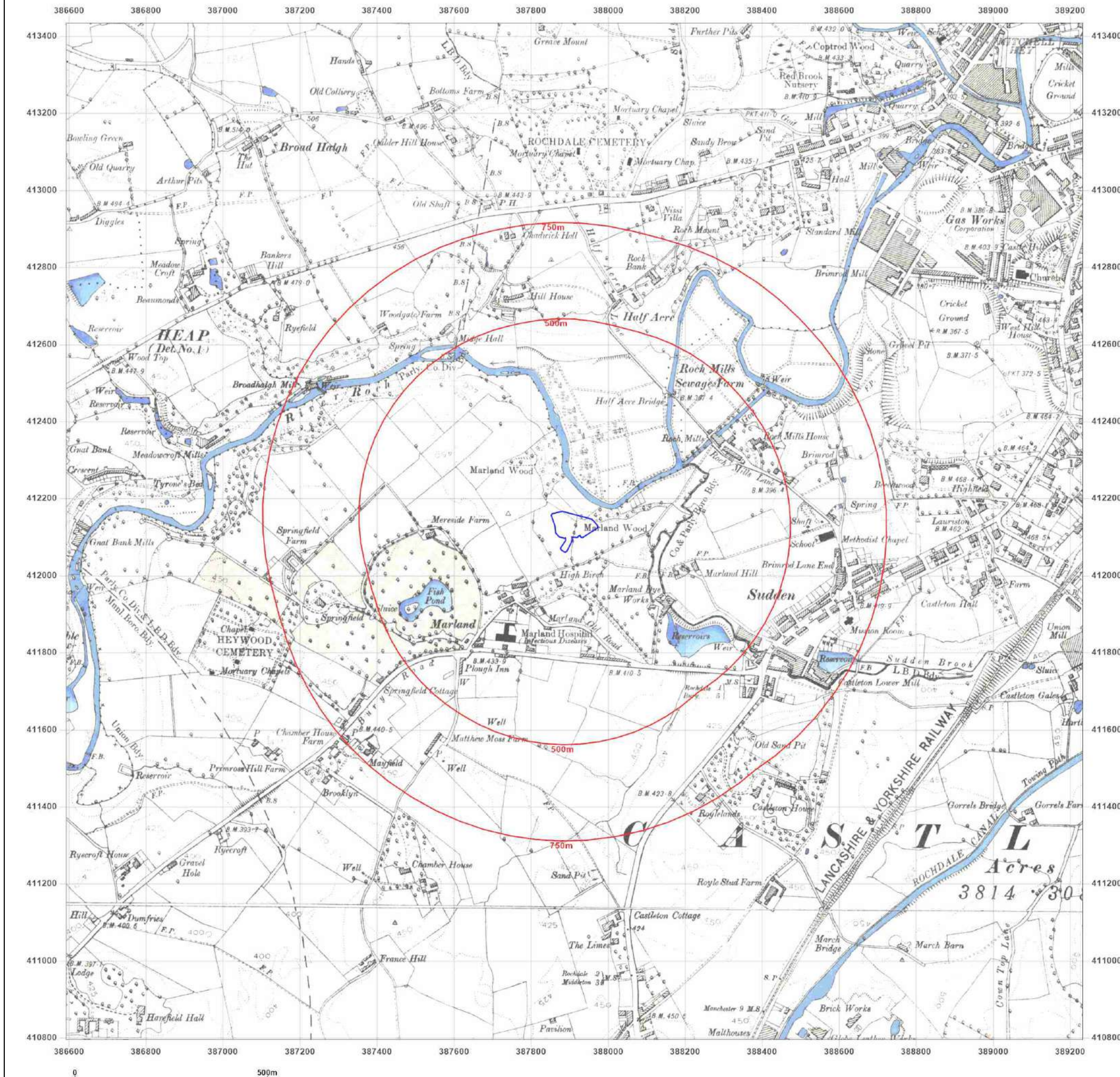


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1908
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

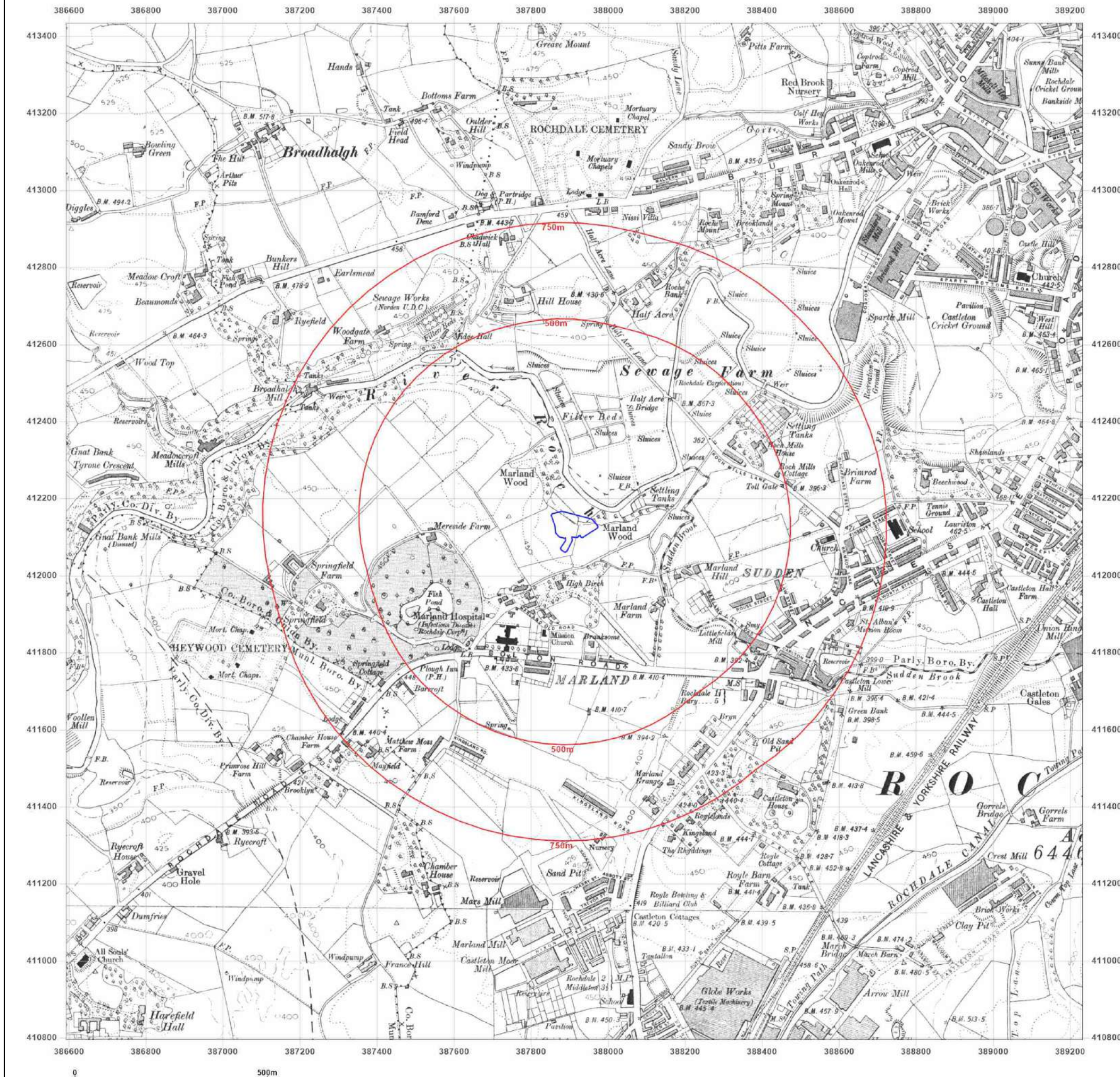


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1928

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
 Revised 1928
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1848
 Revised 1928
 Edition N/A
 Copyright N/A
 Levelled N/A

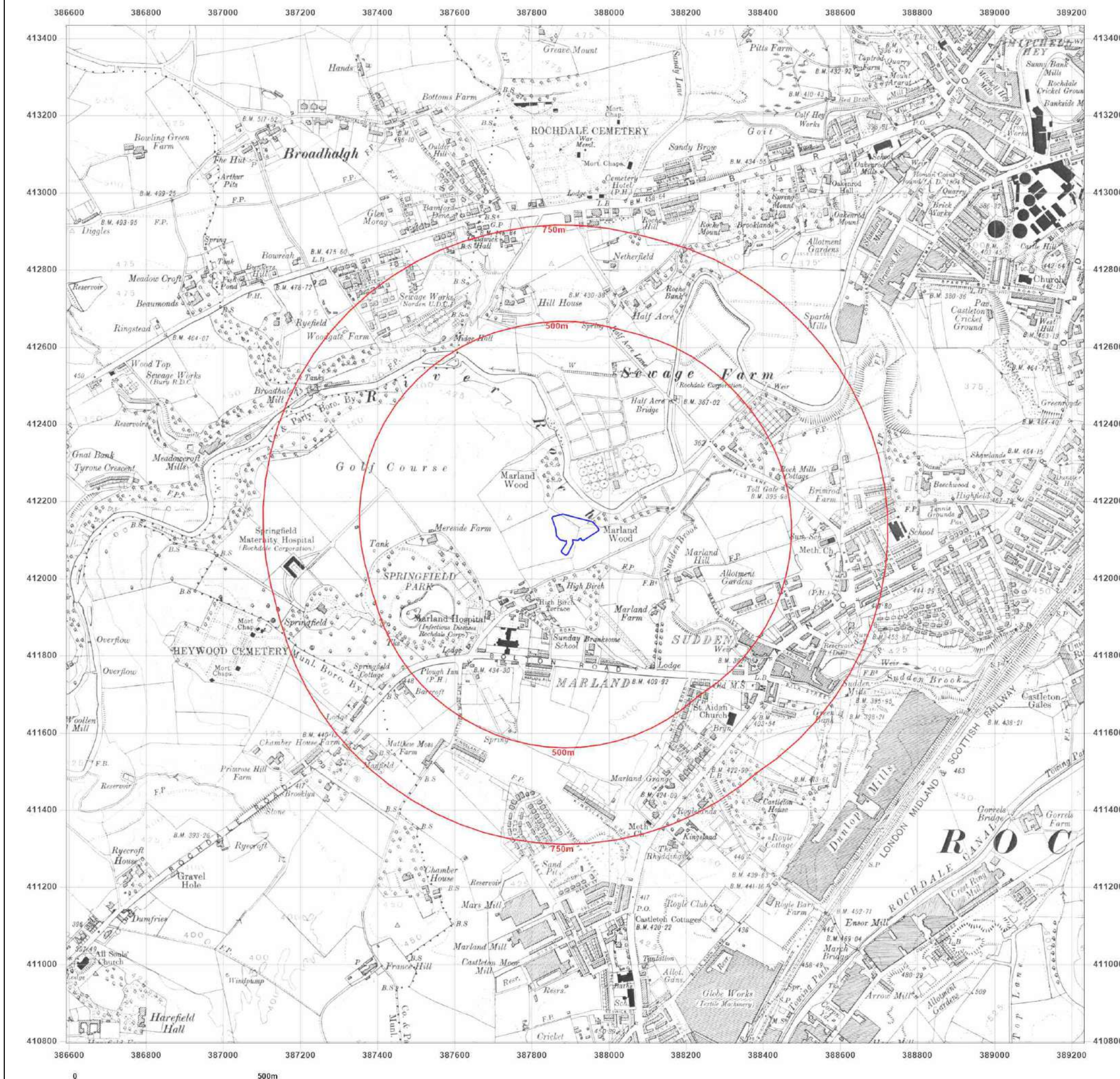


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

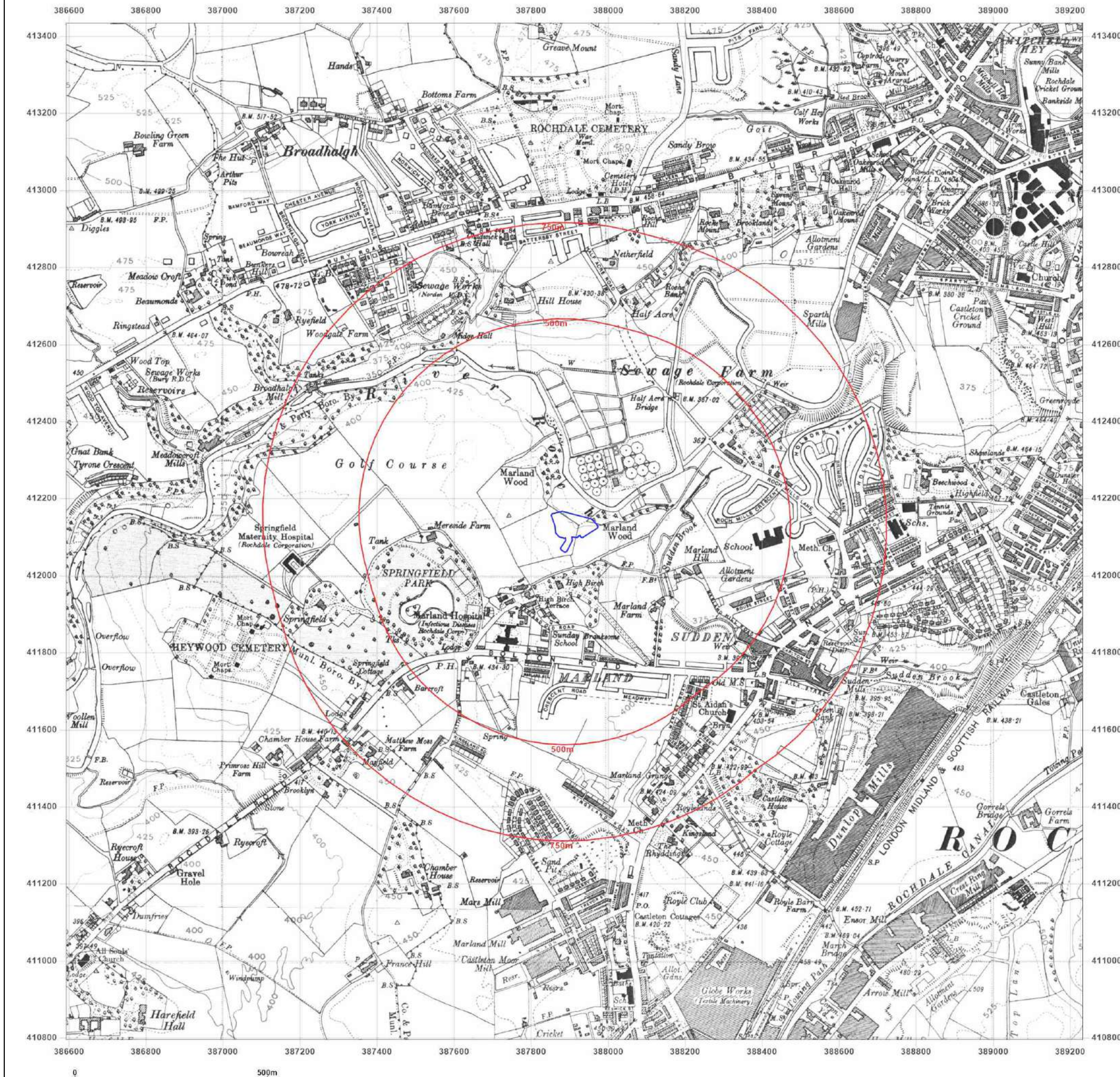


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1955
Edition 1956
Copyright N/A
Levelled N/A

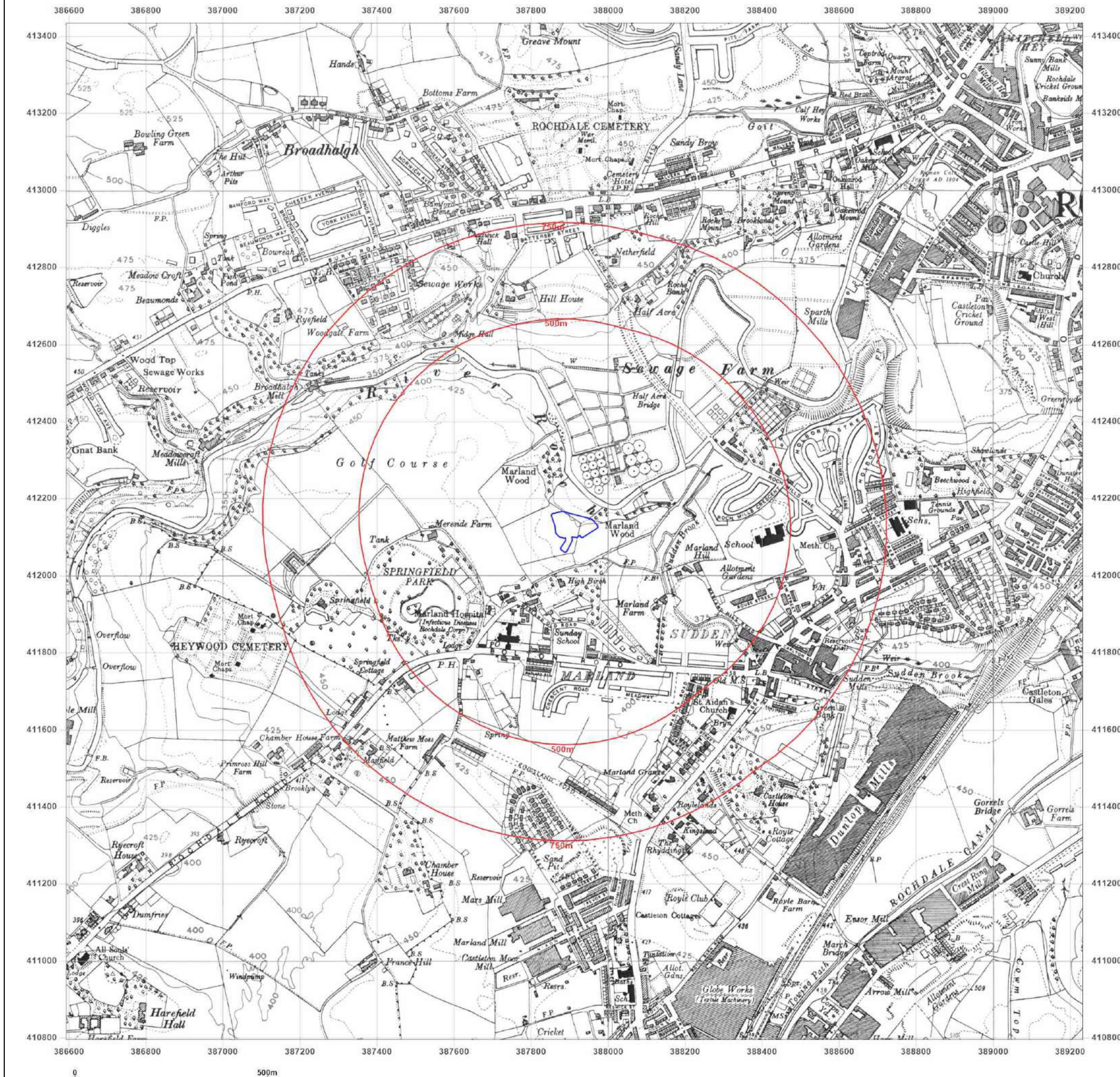


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: Provisional

Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



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

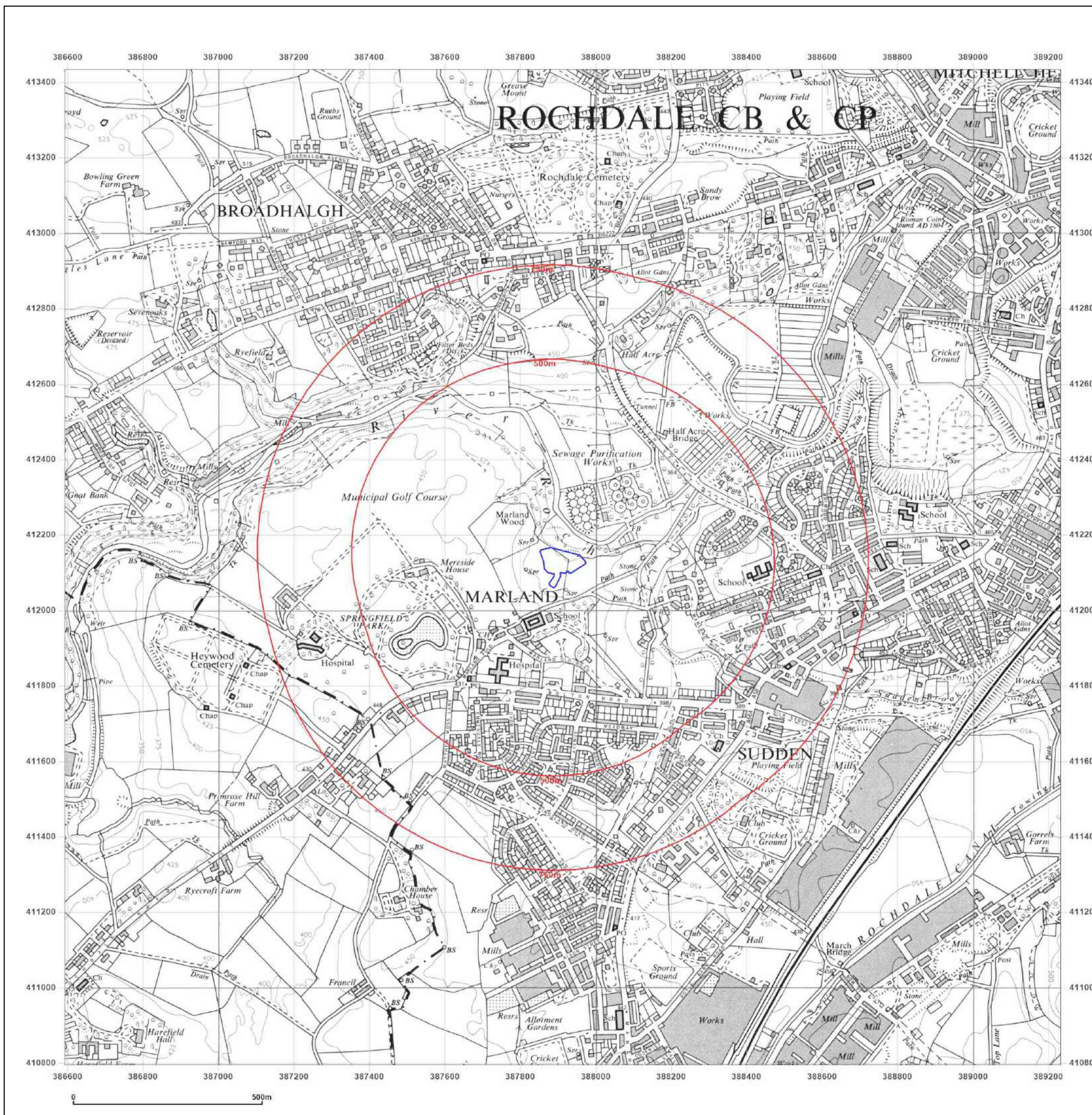


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1975

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1975
Edition N/A
Copyright N/A
Levelled N/A

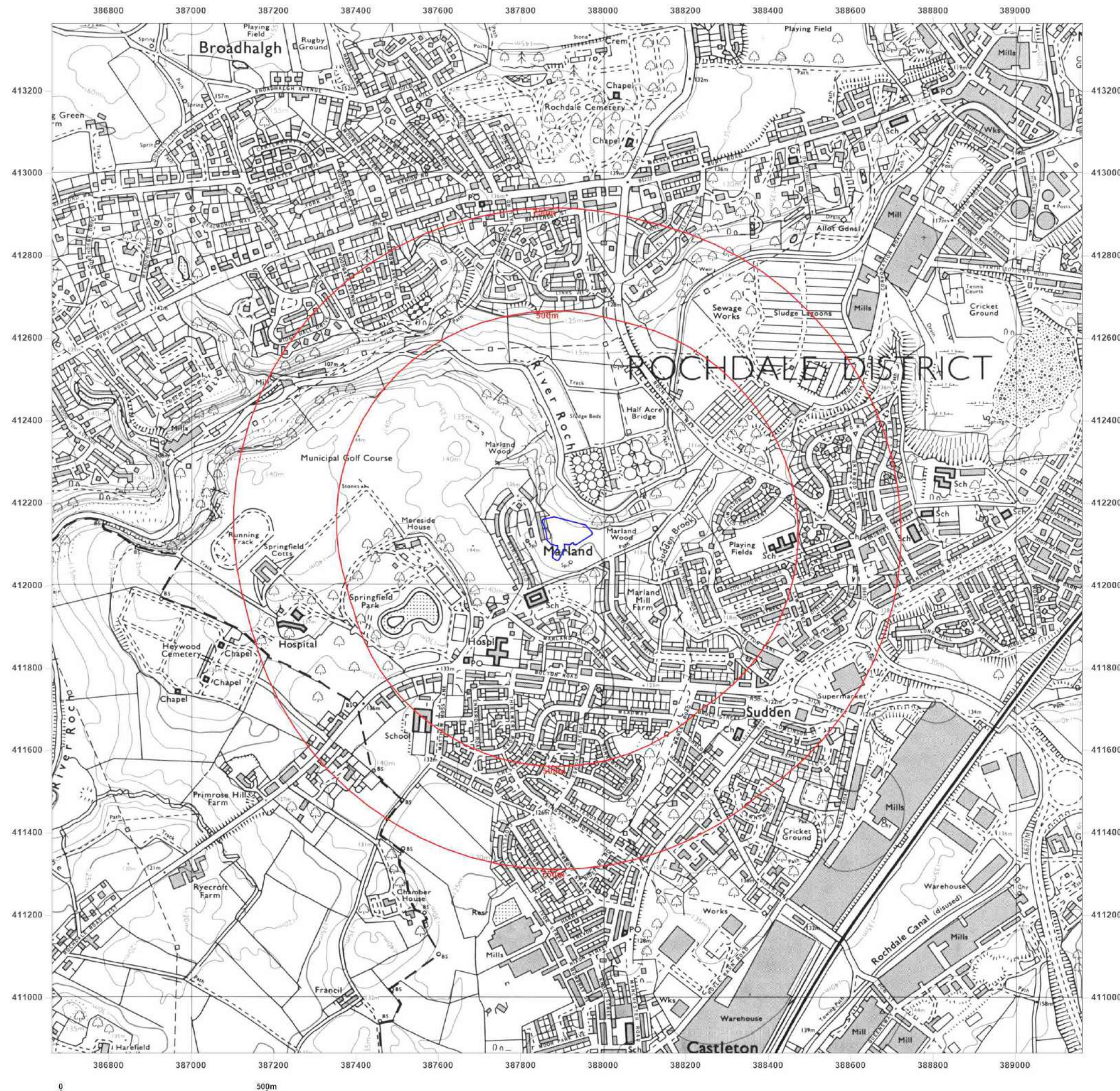


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Site Details:

Marland Mill Farm

Client Ref: 24143

Report Ref: GS-6QI-GH7-PST-FV4

Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

Printed at: 1:10,000

N

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

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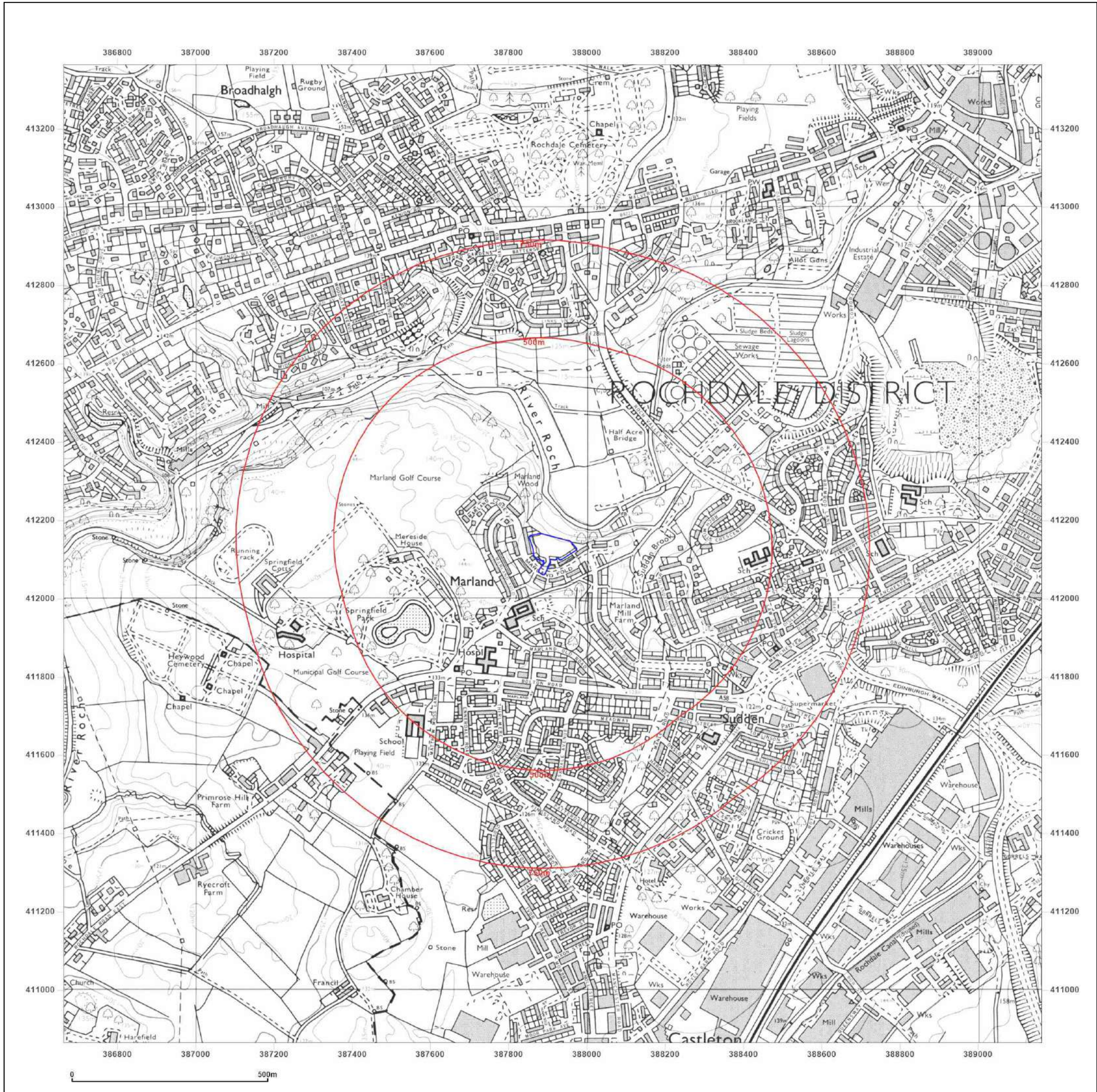
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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1984
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A

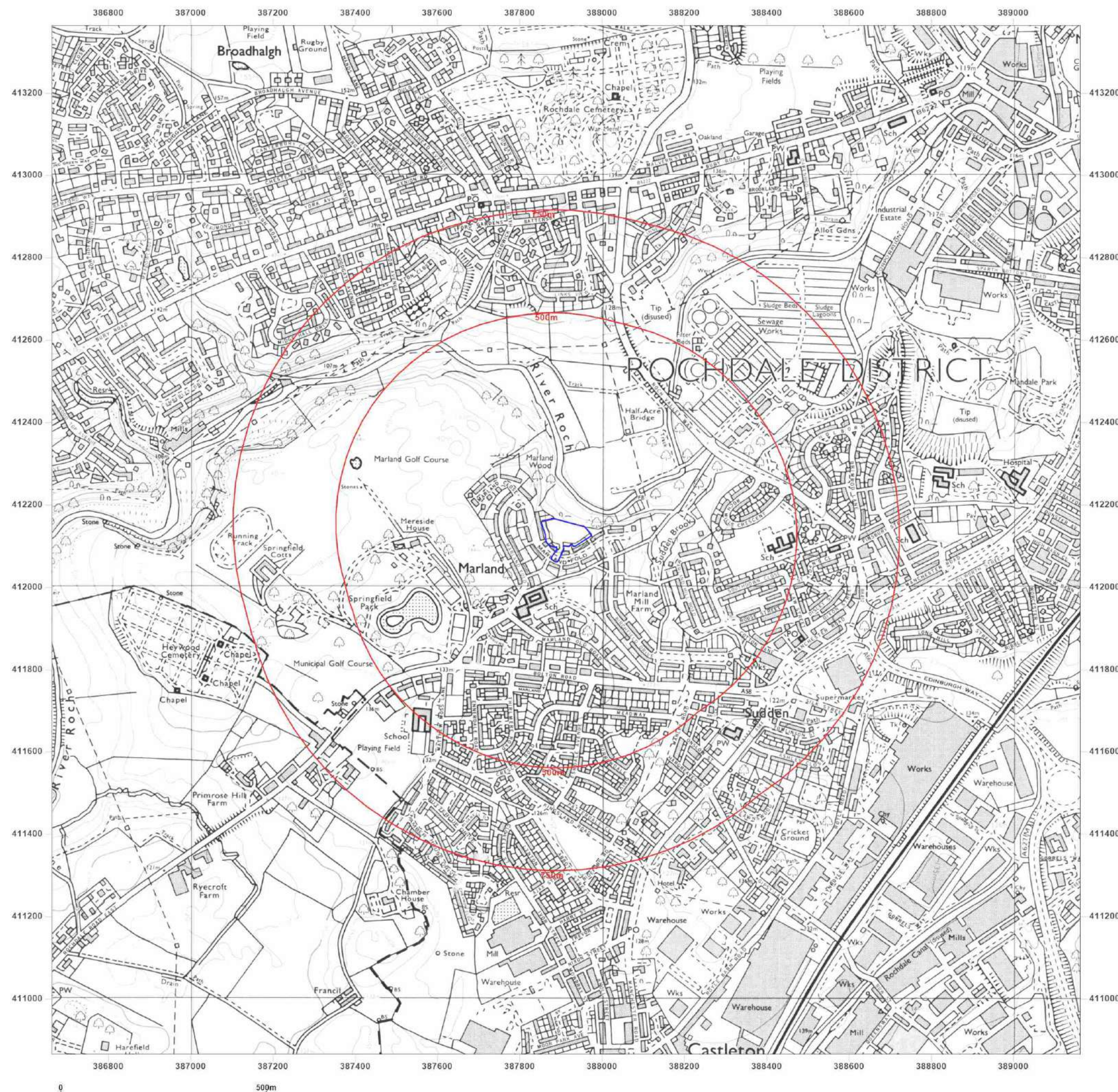


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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001



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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010



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Site Details:

Marland Mill Farm

Client Ref: 24143
Report Ref: GS-6QI-GH7-PST-FV4
Grid Ref: 387912, 412114

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



2024



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APPENDIX F



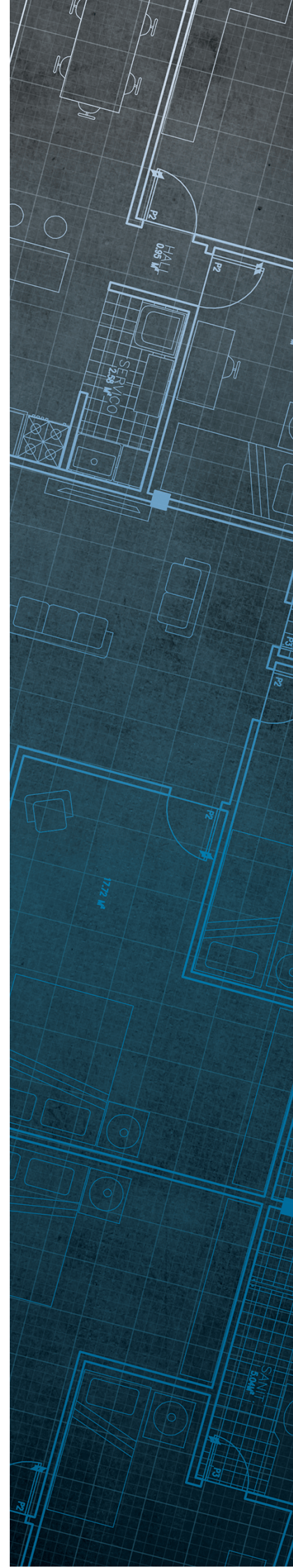
The Coal
Authority

Consultants Coal Mining Report

Marland Mill Farm
Greater Manchester

Date of enquiry: 15 October 2024
Date enquiry received: 15 October 2024
Issue date: 15 October 2024

Our reference: 51003456814001
Your reference: GS-3RU-FV6-HJC-89R



Consultants

Coal Mining Report

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

Client name

GROUNDSURE LIMITED

Enquiry address

Marland Mill Farm
Greater Manchester

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

16820		
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Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
ARLEY	Coal	Yes	Within	N/A	327

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

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

Future development

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

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

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

Payment to owners of former copyhold land

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

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

