



Project Title

## **Geo-Environmental Phase 1 Desk Study**

At

**Three Development Sites,  
Whitworth Road,  
Rochdale  
OL12**

For

**Cornerstone Place Ltd**

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## **CONTENTS**

|                                                                                   |           |
|-----------------------------------------------------------------------------------|-----------|
| <b>Executive Summary.....</b>                                                     | <b>3</b>  |
| <b>1.0 Introduction.....</b>                                                      | <b>6</b>  |
| 1.1 Background .....                                                              | 6         |
| 1.2 Objectives.....                                                               | 6         |
| 1.3 Limitations.....                                                              | 6         |
| <b>2.0 Development Description and Location .....</b>                             | <b>7</b>  |
| 2.1 Site Location.....                                                            | 7         |
| 2.2 Existing Site Description and Walk Over .....                                 | 7         |
| 2.3 Site Photographs .....                                                        | 8         |
| 2.4 Topography .....                                                              | 9         |
| 2.5 Development Proposals .....                                                   | 9         |
| <b>3.0 Site History .....</b>                                                     | <b>10</b> |
| 3.1 Summary of Site History.....                                                  | 10        |
| <b>4.0 Geo-Environmental Setting .....</b>                                        | <b>11</b> |
| 4.1 Geology .....                                                                 | 11        |
| 4.2 Local Geotechnical Data.....                                                  | 11        |
| 4.3 Hydrology .....                                                               | 11        |
| 4.4 Hydrogeology .....                                                            | 12        |
| 4.5 Ground Stability .....                                                        | 13        |
| 4.6 Coal Mining.....                                                              | 13        |
| 4.7 Waste Management Facilities.....                                              | 13        |
| 4.8 Sensitive Land Use.....                                                       | 14        |
| 4.9 Infilled Land.....                                                            | 14        |
| 4.10 Ecology .....                                                                | 14        |
| 4.11 Unexploded Ordnance (UXO) Risk .....                                         | 14        |
| <b>5.0 Preliminary Conceptual Site Model.....</b>                                 | <b>15</b> |
| 5.1 Introduction .....                                                            | 15        |
| 5.2 Potential Contamination Sources .....                                         | 15        |
| 5.3 Potential Pathways.....                                                       | 16        |
| 5.4 Pollution Receptor .....                                                      | 16        |
| 5.5 Potential Contaminant Linkage and need for further ground investigation ..... | 17        |
| <b>6.0 Recommendations .....</b>                                                  | <b>18</b> |
| 6.1 Recommendations Further Investigation to Support Proposed Development .....   | 18        |
| <b>7.0 References.....</b>                                                        | <b>19</b> |
| <b>Appendix A: Architects Drawings</b>                                            |           |
| <b>Appendix B: Groundsure Report</b>                                              |           |
| <b>Appendix C: Coal Report</b>                                                    |           |

## Executive Summary

|                              |                                                                                                                                                                                                                                                                                                             |                                                                                                                        |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Site Address</b>          | Land Off Whitworth Road, Rochdale                                                                                                                                                                                                                                                                           |                                                                                                                        |
| <b>Grid Reference</b>        | 389790, 414327                                                                                                                                                                                                                                                                                              |                                                                                                                        |
| <b>Site Area</b>             | Approx 0.10 Hectares                                                                                                                                                                                                                                                                                        |                                                                                                                        |
| <b>Current Site Use</b>      | The three adjacent development sites currently classed unmade and used for garages, parking and a disused children's play area.                                                                                                                                                                             |                                                                                                                        |
| <b>Proposed Development</b>  | The proposal is for the overall construction of 14 residential apartment units on the three sites.                                                                                                                                                                                                          |                                                                                                                        |
| <b>Environmental Setting</b> | <i>Drift Geology</i>                                                                                                                                                                                                                                                                                        | Glacial Till.                                                                                                          |
|                              | <i>Bedrock Geology</i>                                                                                                                                                                                                                                                                                      | Old Lawrence Rock, comprising sandstone.                                                                               |
|                              | <i>Fault</i>                                                                                                                                                                                                                                                                                                | No faults in area.                                                                                                     |
|                              | <i>Hydrogeology</i>                                                                                                                                                                                                                                                                                         | Secondary Aquifer – Undifferentiated within drift deposits, underlain by a Secondary A Aquifer within Bedrock Geology. |
|                              | <i>Hydrology</i>                                                                                                                                                                                                                                                                                            | No watercourses identified in close proximity.                                                                         |
|                              | <i>Flood Risk</i>                                                                                                                                                                                                                                                                                           | The site is not within an area prone to flooding.                                                                      |
|                              | <i>Ecology</i>                                                                                                                                                                                                                                                                                              | N/A                                                                                                                    |
|                              | <i>Compressible Ground and Subsidence Hazards</i>                                                                                                                                                                                                                                                           | No hazard identified in data searches.                                                                                 |
| <b>Site History</b>          | Historical mapping indicates that residential properties were located across all three sites from 1858. By 1982 these are all been demolished and replaced with a children's play area in Block (site) A, garages in Block (site) B and car parking in Block (site) C. These are still present to this day. |                                                                                                                        |
| <b>Utility Locations</b>     | A review of the statutory service plans has identified that all three sites are surround by existing services, as would be expected for a residential led area. There does not appear to be any onsite services, though other unidentified services could also exist.                                       |                                                                                                                        |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landfill Sites &amp; Ground Gases</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The Groundsure report has identified 5 active or recent landfills and 4 historic landfill within 500m of the site. The closest being 178m to the east.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Local Borehole Data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | A review of the BGS Borehole database has located four records within 250m of the site. These are located 207m to the SW and indicate sandy clay over mudstone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Invasive Plant Species</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No invasive plant species were identified during the site review. Though it is suggested that a full Ecology Report is undertaken.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Radon</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unaffected – No special precaution required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Coal Mining / Land Stability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <p>The site is not within or close to an area that may be affected by coal mining.</p> <ul style="list-style-type: none"> <li><i>No previous coal mine working.</i></li> <li><i>Coal in reserve at depth but no working currently planned.</i></li> <li><i>Located in area of boulder clay, over sandstones, over coal measures.</i></li> <li><i>No mine entries are identified within 20m of the site;</i></li> <li><i>No ground gas emissions.</i></li> </ul> <p>According to the Coal Authority Interactive Map the site is within a 'Coal Mining Reporting Area'.</p> <p>The site is deemed to be at <b>Low Risk</b> in terms of the potential presence of shallow mine workings that have the potential to cause ground instability. It is not considered that any further assessment is required.</p> |
| <b>Geotechnical Risk</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>Based on the desk study information, the following geotechnical assessment has been made:</p> <ul style="list-style-type: none"> <li>The site is very flat and so there is unlikely to have needed any major earthworks to form the original site. There has also been little historic development at the site.</li> <li>Basement from previous buildings that have been previously demolished may still exist and need grubbing out. Investigation required.</li> <li>An intrusive investigation will be required to assess the ground conditions and undertake in-situ geotechnical testing to determine the foundation solutions.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## **Contaminated Land Risk Assessment**

### **Human Health**

The three sites have been used as a children's play area, historic garages and car parking for the last 40 years or so. This plus the unknown historic made ground represent potential sources of heavy metal, polycyclic aromatic hydrocarbon (PAH), petroleum hydrocarbon, asbestos, and ground gas. Considering the potential for direct contact during development works, these potential sources of soil and groundwater contamination represent a low to medium risk to construction workers and end users. An intrusive ground investigation to identify, and assess for the presence of these contaminants is required to facilitate further risk assessment, and determine appropriate remediation and / or mitigation measures.

### **Controlled Waters**

The history of the site may include Made Ground, if present, represent potential sources of mobile hydrocarbon contamination. Low permeability Glacial Till reduces that potential for the migration of mobile contaminants, if present. Considering the presence of a Secondary A Aquifer, a moderate risk to controlled waters is identified. Intrusive investigation with chemical analysis of soil and groundwater samples is recommended to assess the presence of mobile contaminants and facilitate further risk assessment.

### **Ground Gas**

Made Ground and the historic uses in the area associated with historical groundworks represent a potential source of hazardous ground gases. Carbon dioxide and methane are associated with asphyxiation and explosive risks. Installation of monitoring wells during intrusive ground investigation is recommended to assess for the presence of ground gases and facilitate further risk assessment.

## **Recommendations**

A detailed Phase II intrusive Geo-Environmental Ground Investigation should be undertaken to confirm the findings of the initial conceptual site model and assess the Geo-Environmental site conditions.

A pre-demolition asbestos survey will be required to the current garages on Site B.

An intrusive investigation to determine the presence of coal workings and assess the risk of ground stability issues is not deemed to be required.

## **1.0 Introduction**

### **1.1 Background**

1.1.1 Paul Graveney Consulting Ltd (PGC) have been commissioned by Cornerstone Place Ltd to produce a Geo-Environmental Phase 1 Desk Top Study and Preliminary Risk Assessment for the proposed residential development at a site known as Whitworth Road, Rochdale.

1.1.2 This report assesses the existing information for the sites and presents a conceptual site model identifying preliminary levels of risk associated with potential and known contamination. This report also recommends where further intrusive investigation works would provide improved certainty on the extent and associated levels of risk from contamination at the site and the potential requirement for any remedial action.

### **1.2 Objectives**

1.2.1 The primary objective of the desk study is to assess whether the sites have the potential to be affected by contamination.

1.2.2 This study includes a review of the available geological, historical and environmental information in order to establish the likely ground conditions at the site. The review is based on the following information:

- To assess historical activities, referring to past Ordnance Survey maps at the site with respect to their potential impact on the site environment;
- To characterise the environmental setting of the site, identify migration pathways and vulnerable receptors for contamination originating at the site, focusing on potential soil and groundwater liabilities;
- To assess historical and current surrounding land use, referring to past Ordnance Survey maps, in relation to known or potential off-site contamination issues that may impact the subject property;
- Prepare a conceptual site model identifying the potential risk to human health and controlled water by virtue of known and potential contamination at the site.

### **1.3 Limitations**

1.3.1 The summary report and the assessment within are based on the information available at the time of production. The study area (the 'Sites') are limited to the areas of interest as shown in Appendix 1. Paul Graveney Consulting Ltd have used their best professional endeavours in collating and interpreting this information but can take no responsibility for information for which they were not aware, or inaccuracies of information obtained.

## 2.0 Development Description and Location

### 2.1 Site Location

The site is referenced in Figure 1, and a site location map is provided in Appendix A.

| Item                       | Brief Description                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------|
| Project name               | Whitworth Road                                                                                |
| Site address and location  | Whitworth Road, Sykes, Rochdale, OL12.                                                        |
| Council Area               | Rochdale Borough Council                                                                      |
| Approximate Grid Reference | OS: 389790, 414327                                                                            |
| General Locality           | The site is located some 1km to the north of Rochdale Town Centre on land off Whitworth Road. |

**Figure 1: Site Referencing Information**

### 2.2 Existing Site Description and Walk Over

- 2.2.1 The three development sites (Red Line Boundaries) are irregular in plan shapes and are situated within a largely residential area. A site visit was undertaken on Tuesday 8<sup>th</sup> February 2022. A summary of the three sites is identified below:

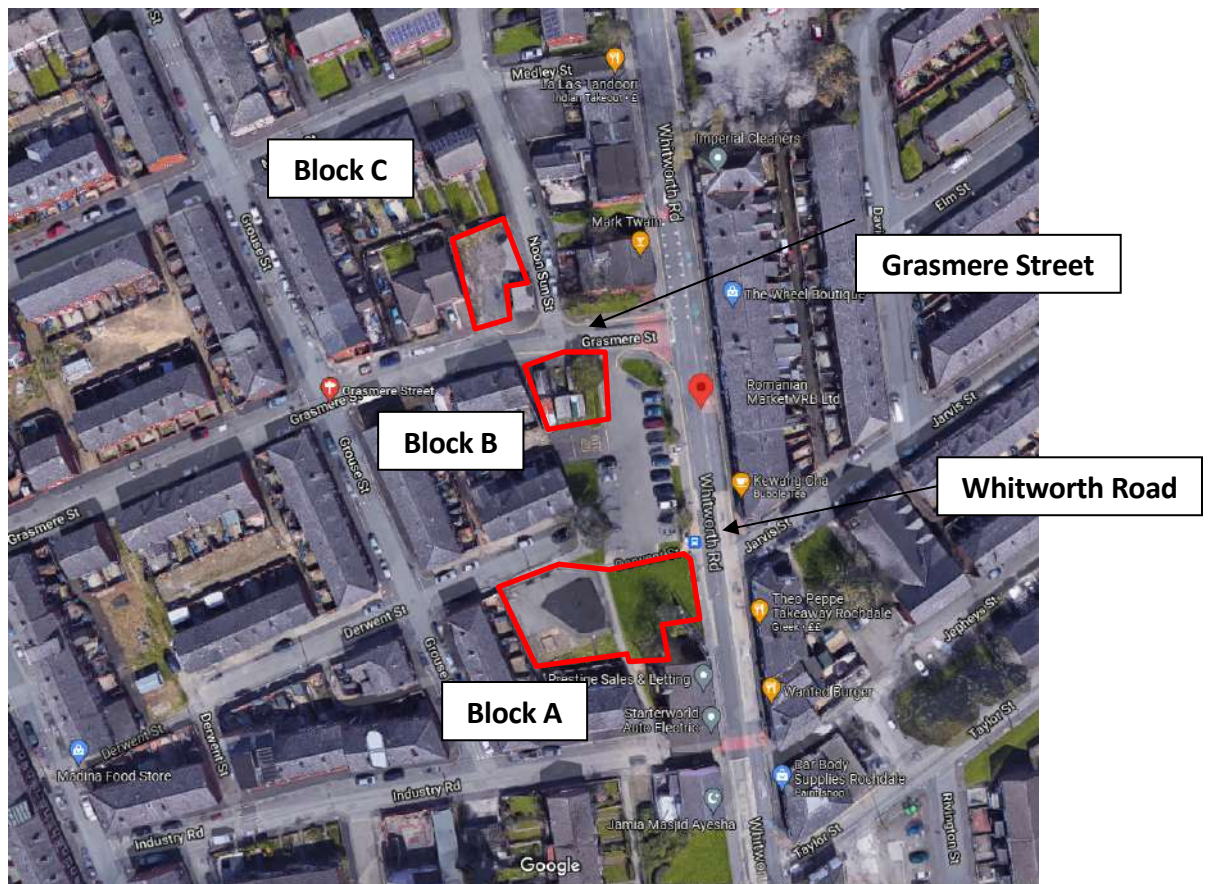
Block A – Currently encompasses a tarmac former children’s play area on the western side with surrounding metal hand railings. Site bounds the rear yards of terraced properties to the south and west. Eastern area is grassed with a nominal fall down to Whitworth Road to the east. A medium sized tree was identified along the southern edge. A footpath passes between the two areas.

Block B – Currently encompasses a number of derelict garages. Identified to be in a poor condition and evidence of asbestos sheeting identified. Some fly tipping to the sides of the garages. A medium sized tree in poor condition is located in the NE corner.

Block C – Currently tarmac surfaced, with peripheral grassed areas. Used as car parking and evidence of fly tipping. Site immediately adjacent a sub-station.

- 2.2.2 Figure 2 identifies the overall site location details. Further details of the existing layout can be seen on the Red Line Plans in Appendix A.

Access to Block A will be from Derwent Street, Whilst access to Blocks B & C will be off Grasmere Street.



**Figure 2: Site Location Plan**

### 2.3 Site Photographs



**Block A – Former Play Ground to West**



**Block A – Open Grassed Area to the East**



**Block B – Existing Garages from the South**



**Block B – Existing Garages from the North**



**Block C – Un-made Land from the South**



**Block C – Sub Station with Site Beyond**

## **2.4 Topography**

- 2.4.1 All three sites are relatively flat and range in level from 155m AOD at Block A to the south up to 157m AOD at Block C at the north.

## **2.5 Development Proposals**

- 2.5.1 As discussed in the earlier sections, this report has been prepared to support a planning application for the construction of three residential blocks of flats, totaling 14 units, with associated gardens and landscaping.
- 2.5.2 The outline Site Master Plan as indicated in Appendix A provides details of the proposed development intent.

### 3.0 Site History

#### 3.1 Summary of Site History

The desk study findings based on a review of Historical Ordnance Survey Maps are shown below.

| Map Date | On The Site                                                                                                                                                                               | In The Vicinity Of The Site                                                                         |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| 1851     | A number of residential properties were located on all three sites. Western area of Block A undeveloped.                                                                                  | The surrounding area is generally agricultural land with Whitworth Road to the east.                |
| 1891     | Further residential properties at Block C.                                                                                                                                                | Large areas are now being developed for residential properties to all sides.                        |
| 1910     | No significant changes across all three sites.                                                                                                                                            | Full area now developed for residential properties. Grasmere Street and Derwent Street constructed. |
| 1930     | No significant changes across all three sites.                                                                                                                                            | No significant changes in the local area.                                                           |
| 1959     | Block A remains unchanged. Residential properties in Block B have been demolished and replaced with garages. Residential properties on the northern side of Block C have been demolished. | No significant changes in the local area.                                                           |
| 1982     | All properties across all three sites shown to be demolished and classed as unmade. Car Park shown next to Block B and an Electricity sub station shown adjacent Block C.                 | A number of residential properties in the area have also been demolished.                           |
| 2003     | Block A identified as a children's playground. Other sites remain unchanged.                                                                                                              | No significant changes in the local area.                                                           |

**Figure 3: Summary of Site History**

## **4.0 Geo-Environmental Setting**

### **4.1 Geology**

#### Superficial Geology (Drift)

The superficial geology at the site is noted as encompassing Till, which would comprise generally clays and silts.

#### Solid Geology

The solid geology/bedrock at the site is identified as the Old Lawrence Rock, comprising sandstone.

#### Faults

There are no records of any fault lines in the vicinity of the site, however, that is not to say none exist.

#### Radon

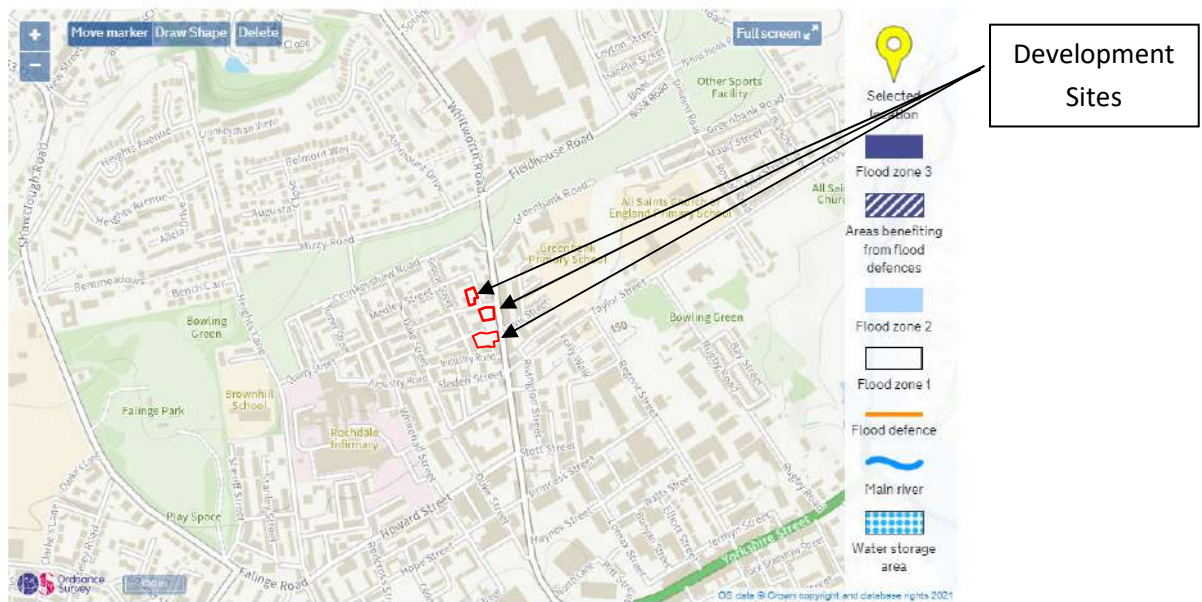
According to the Health Protection Agency (HPA) Radon atlas of England and Wales (2007), the property is not in Radon Affected Area, with less than 1% of properties above the Action Level. As such, radon protection measures are not considered necessary.

### **4.2 Local Geotechnical Data**

- 4.2.1 Reviewing the British Geological Society (BGS) website, 4 boreholes have been identified within 250m of the site to the south west. In summary these indicate a sandy clay to 2.0-2.7mbgl, underlain by weathered Mudstone.

### **4.3 Hydrology**

- 4.3.1 According to the Environment Agency indicative flood maps, the site is located in Low Risk Flood Zone 1, as shown in Figure 4. There are no identified watercourses in close proximity to the development site.



**Figure 4: EA Indicative Flood Maps**

## 4.4 Hydrogeology

### Groundwater Vulnerability

- 4.4.1 The superficial deposits of the site have been classified as a Secondary Undifferentiated Aquifer. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.
- 4.4.2 The bedrock deposits have been classified as a Secondary A Aquifer. These are layers of rock or drift deposits 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.

### Source Protection Zone

- 4.4.3 There are no Environment Agency-defined Source Protection Zones within 500m of the site.

### Groundwater Abstraction

- 4.4.4 There is 1 historic and 1 active licensed groundwater abstractions within 500m of the site, with both located 432m to the north of the site.

## 4.5 Ground Stability

4.5.1 Detailed below is the potential risk from a variety of ground stability sources.

| Hazard                                        | Risk       |
|-----------------------------------------------|------------|
| Natural Ground Subsidence - Shrink Swell Clay | Very Low   |
| Landslides                                    | Very Low   |
| Ground Dissolution Soluble Rocks              | Negligible |
| Compressible Deposits                         | Negligible |
| Collapsible Deposits                          | Very Low   |

**Figure 5: Ground Stability Summary**

## 4.6 Coal Mining

- 4.6.1 A Coal Mining Search Report has been procured and reviewed. Although there is the potential for coal to exist below the site, is not situated within the boundary of a former coal mining site. There are no workings planned to remove this coal.
- 4.6.2 The site is not within 200m the boundary of a currently operating opencast mining site, nor does the property lie within 800m of the boundary of an opencast site for which the Coal Authority is determining whether to grant a license to remove coal by opencast methods, or where a license has been granted.
- 4.6.3 The Coal Authority has no knowledge of any mine entries within the site or within 20m of the boundary of the site. Records may be incomplete. Consequently, there may exist in the local area, mine entries of which the Coal Authority has no knowledge.
- 4.6.4 The property is not located in the vicinity of the recorded worked coalfield, and there are no coal related mine gas emissions relevant to the property. The Coal Authority has no record of any damage notice or coal mining related subsidence claims in relation to the property for the past 14 years.
- 4.6.5 The Coal Authority's conclusion is it is unlikely that coal will be worked in the foreseeable future and the site can be treated as no coal mining risk.

## 4.7 Waste Management Facilities

- 4.7.1 There is one identified waste treatment, transfer or disposal sites within 500m of the study site. There are 17 identified Environment Agency licensed waste sites within 500m of the site, with the closest located 178m to the east. There are also 12 historic landfill sites within 500m of the site, with the closest located 172m to the east.

#### **4.8 Sensitive Land Use**

##### Nitrate Vulnerable Zone

- 4.8.1 The site is not located within a Nitrate Sensitive Area (which is described as an area where sensitive waters exist that may be at risk of becoming polluted by nitrates).

##### Industrial Land Use

- 4.8.2 There are 89 known historical industrial land uses within 250m of the site. The majority relate to the historic mills and are predominantly to the east and west of the site, which is situated at a lower ground level. In addition to this there are 4 current, potentially contaminative land uses within 250m of the site. These all relate to electrical features such as pylons, the closes of which is a sub station located adjacent Block C.
- 4.8.3 There are no records of historic Integrated Pollution Control (IPC) Authorisations and no records of Dangerous Substances Inventories within 500m of the site. However, there are 5 records of Licensed Discharge consents within 500m of the site boundary; the closest of these is 264m to the north west and relates to sewage overflow.

#### **4.9 Infilled Land**

- 4.9.1 There are 2 records of potentially infilled land within 250m of the site, and 3 further records within 500m of the site.

#### **4.10 Ecology**

- 4.10.1 The three sites primarily encompass areas of hardstanding areas and so have limited ecology.
- 4.10.2 The site is within 500-2000m of two Sites of Special Scientific Interest (SSSI), one of a Local Nature Reserve and three of a designated Ancient Woodland. Refer to site-specific Ecological report for full details.

#### **4.11 Unexploded Ordnance (UXO) Risk**

- 4.11.1 Available information indicates that the site is located in a 'Low' bomb risk area.

## 5.0 Preliminary Conceptual Site Model

### 5.1 Introduction

5.1.1 In line with the requirements of CLR-11 guidance, a preliminary conceptual site model is presented. The conceptual site model represents a development and refinement of the conceptual models relating to the site. The conceptual model takes consideration of information within the historic records and the findings of this preliminary investigation. The conceptual model has been developed to assess potential contamination sources, receptors and potential contaminant linkages identified at the site.

### 5.2 Potential Contamination Sources

5.2.1 This desk top study indicates that the three blocks have historically encompassed residential terraced properties which were fully demolished prior to 1982. Since then Block A has been a children's play area and unmade land. Block B has encompassed derelict garages and Block C hard paved for parking. In light of these findings, all three sites have the potential for various levels of contamination, but not limited to PAH, hydrocarbon and asbestos. Historic basements for the former properties are likely to be filled with made ground.

5.2.2 There are limited historical industrial land uses in the vicinity of the site and so the risk from these sources can be considered to be low. All of these factors must be considered in light of the site being at a higher level to all of its surroundings.

| Potential Source                          | Associated Potential Contaminants |                                                         | Likelihood of Presence<br>(Known/Likely/Possible /Unlikely) |
|-------------------------------------------|-----------------------------------|---------------------------------------------------------|-------------------------------------------------------------|
|                                           | Type                              | Name                                                    |                                                             |
| Made Ground to form current ground levels | Heavy Metals                      | Cadmium, Lead, Zinc, Nickel, Copper, Chromium, Mercury, | Likely                                                      |
| Made Ground to form current ground levels | Ground Gas                        | Carbon Dioxide and Methane                              | Likely                                                      |
| Car Park Surfaces                         | Organics                          | Oil/fuel hydrocarbons                                   | Likely                                                      |
| Derelict Garages                          | Asbestos                          |                                                         | Known                                                       |
| Nearby historical Industrial Uses         | Organics                          |                                                         | Possible                                                    |

**Figure 6: Summary of Identified Contamination Sources**

### 5.3 Potential Pathways

5.3.1 The potential exposure pathways to the identified receptors are detailed in Figures 7 and 8

| Exposure Pathway                                                                         | Present  |
|------------------------------------------------------------------------------------------|----------|
| Ingestion of soil and dust                                                               | Possible |
| Ingestion of home grown vegetables and soil attached to vegetables                       | Unlikely |
| Dermal contact with soil and dust                                                        | Possible |
| Inhalation of outdoor dust                                                               | Possible |
| Inhalation of outdoor air from soil volatilisation, ground volatilisation and ground gas | Possible |
| Inhalation of asbestos fibres                                                            | Possible |

**Figure 7: Exposure Pathways to Human Health**

| Exposure Pathway                                                                                                                          | Present  |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Leaching of contaminants in soils by infiltrating rainfall and migration, or direct migration of dissolved contaminants into groundwater. | Possible |

**Figure 8: Exposure Pathways to Controlled Waters**

### 5.4 Pollution Receptor

5.4.1 Potential key receptors that may be at risk from contamination within the soils beneath the site include the following:

- Groundwater;
- Future residents and contractors;
- Construction Workers;

## 5.5 Potential Contaminant Linkage and need for further ground investigation

Figure 9 details the potential contaminant linkages, taking into account each of the contamination sources, pathways and receptors identified, and provides an indication of the risk level and potential need for further investigation.

| Contamination Source                             | Pathway                   | Receptors         |           |                      | Likelihood of contaminant source being present | Risk Level to Potential Receptors | Need for Investigation                                           |
|--------------------------------------------------|---------------------------|-------------------|-----------|----------------------|------------------------------------------------|-----------------------------------|------------------------------------------------------------------|
|                                                  |                           | Controlled Waters | End users | Construction workers |                                                |                                   |                                                                  |
| Metals/ metalloids and inorganics in <b>SOIL</b> | Direct Ingestion          |                   | ✓         | ✓                    | Unlikely                                       | Low                               | Yes                                                              |
|                                                  | Dermal Contact            |                   | ✓         | ✓                    | Unlikely                                       | Low                               |                                                                  |
|                                                  | Inhalation                |                   | ✓         | ✓                    | Unlikely                                       | Low                               |                                                                  |
|                                                  | Leaching/ direct movement | ✓                 |           |                      | Unlikely                                       | Low                               |                                                                  |
| Asbestos containing material in <b>SOIL</b>      | Inhalation                |                   | ✓         | ✓                    | Likely                                         | Medium                            | screening test will be needed if identified during investigation |
| Organics in <b>SOIL</b> (hydrocarbons)           | Direct Ingestion          |                   | ✓         | ✓                    | Possible/Likely                                | Low                               | Yes                                                              |
|                                                  | Dermal Contact            |                   | ✓         | ✓                    | Possible/Likely                                | Moderate                          |                                                                  |
|                                                  | Inhalation                |                   | ✓         | ✓                    | Possible/Likely                                | Low                               |                                                                  |
|                                                  | Leaching/ direct movement | ✓                 | ✓         | ✓                    | Possible/Likely                                | Moderate                          |                                                                  |
| <b>GROUND GAS</b> (Carbon Dioxide and Methane)   | Direct Ingestion          |                   |           |                      | n/a                                            | n/a                               | Yes                                                              |
|                                                  | Dermal Contact            |                   |           |                      | n/a                                            | n/a                               |                                                                  |
|                                                  | Inhalation                |                   | ✓         | ✓                    | Possible/Likely                                | Moderate                          |                                                                  |
|                                                  | Leaching/ direct movement |                   | ✓         |                      | Possible/Likely                                | Moderate                          |                                                                  |

**Figure 9: Table 6 Summary of Potential Contaminant Linkages**

**NB:** The potential significant linkages listed above are based on the available data during the desk the features noted during the site walkover. Therefore, the linkages identified are tentative and subjected to the following uncertainties - Actual presence of significant contamination in soil, significant ground gas and depth of controlled water.

## **6.0 Recommendations**

### **6.1 Recommendations Further Investigation to Support Proposed Development**

6.1.1 The following outline Phase 2 Site Investigation proposals are based on the Geo-Environmental Phase 1 Desk Study interpretation within this assessment the proposed development intent. The objective is to identify the geotechnical and environmental status of the site to enable an economic foundation design to be achieved, and to address the source - pathway - receptor model such that any identified linkages can be broken at development stage.

6.1.2 The following site investigation works are proposed:

- One days of window sampling (circa 4-5m deep) to provide understanding on ground conditions, receipt of samples for contamination testing (exact number to be agreed to suit final development intent) and future gas monitoring.
- One day's trial pitting to understand extent of existing foundation depths & size and additional high-level sampling across the site.
- Sampling from window samples and trial pits for appropriate chemical and geotechnical testing in line with the standard suite of tests. But at a minimum to include metals, pH and Sulphates, TPH's and PAH's and asbestos.
- Installation of three monitoring wells (one for each site) for ground water and gas (plus ongoing testing over a minimum of 6 weeks).

6.2.3 The Phase 2 works will include a fully documented factual report along with an interpretive report giving recommendations on:

- Foundation design parameters and types.
- Recommendations on ground slabs.
- Ground classification for land fill. (WAC testing).
- Reviewing of Environmental findings to define if a remediation strategy is required to ensure the source - receptor linkage is broken.
- Gas Protection recommendations.
- Ground Water protection measures.

6.2.4 Note that further desk study work will be required to identify any on site services or easements, any Rights of Way across the site, Party Wall issues and any Highways Issues or adjoining Planning Consents which might impact on this site. These items are outside the scope of this Desk Study.

## **7.0 References**

Groundsure Report – Ref: CMAPS-CM-1015727-62315-280122EDRGEO

Coal Mining Search Report

DEFRA and Environment Agency (2004). Model Procedures for the Management of Contaminated Land, R&D Publication CLR11.

British Standards Institution, BS10175:2011 Investigation of potentially Contaminated Sites

British Standards Institution, BS EN 1997-2: Part 2 Ground Investigation and Testing

## **Appendix A – Architects Drawings**

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|           |          |     |                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |                                     |         |          |           |                     |                                   |          |        |                    |                             |
|-----------|----------|-----|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|----------|-----------|---------------------|-----------------------------------|----------|--------|--------------------|-----------------------------|
| Revision: | Date:    | By: | Remarks:                                            | <div><div><div>TRIANGLE ARCHITECTS</div><div>Tel: 0161 272 3500<br/>E-mail: <a href="mailto:studio@trianglearchitects.co.uk">studio@trianglearchitects.co.uk</a><br/>Web: <a href="http://www.trianglearchitects.co.uk">www.trianglearchitects.co.uk</a><br/>Twitter: @TriangleArch</div><div>Raven House,<br/>113 Fairfield Street,<br/>Manchester,<br/>M12 6EL</div></div></div> | Drawing Purpose:                    |         |          | Revision: | Scale @A3: 1 : 1250 | Client:                           |          |        |                    |                             |
| P01       | 23.06.21 | JS  | Issued for client comment.                          |                                                                                                                                                                                                                                                                                                                                                                                    | INFORMATION                         |         |          | P03       | Date: June 2021     | Cornerstone Place                 |          |        |                    |                             |
| P02       | 07.09.21 | JH  | Smaller site included within the red line boundary. |                                                                                                                                                                                                                                                                                                                                                                                    | Project:                            | Origin: | Vol/Sys: | Level:    | Type:               | Role:                             | Drw No.: | Drawn: | JS                 | Project No. / Project Name: |
| P03       | 27.10.21 | JS  | Amended to suit latest scheme for 3 sites.          |                                                                                                                                                                                                                                                                                                                                                                                    | WHI - TRI - ZZ - ZZ - DR - A - 2000 |         |          | Checked:  | AJD                 | 21-032 / Whitworth Road, Rochdale |          |        |                    |                             |
|           |          |     |                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |                                     |         |          |           |                     |                                   |          |        |                    | Drawing Name:               |
|           |          |     |                                                     |                                                                                                                                                                                                                                                                                                                                                                                    |                                     |         |          |           |                     |                                   |          |        | Site Location Plan |                             |



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Site Plan Legend

- Soft landscaping (details TBC by landscaping proposal)
- Hard landscaping (details TBC by landscaping proposal)
- Screening planting (details TBC by landscaping proposal)
- SP = Lampost / telegraph pole / signpost
- LP =
- Existing tree replaced / removed
- New tree planting
- Existing tree retained

Tree Schedule

- T1 Existing tree removed
- T2 Existing tree retained
- T3 Existing tree replaced by new tree
- T4 Existing tree replaced by new tree
- T5 Existing tree removed
- T6 New tree
- T7 New tree
- T8 New tree

Total trees removed: 2no.  
Total trees replaced: 2no.  
Total trees planted: 5no.

P01 20.01.22 JS Issued for client comment.  
Rev Date By Remarks

|                                     |            |                    |        |          |       |          |          |
|-------------------------------------|------------|--------------------|--------|----------|-------|----------|----------|
| Client:                             |            | Cornerstone Place  |        |          |       |          |          |
| Project No. / Project Name:         |            |                    |        |          |       |          |          |
| 21-032 / Whitworth Road, Rochdale   |            |                    |        |          |       |          |          |
| Drawing Name:                       |            | Proposed Site Plan |        |          |       |          |          |
| Drawing Purpose:                    |            | PLANNING           |        |          |       |          |          |
| Project:                            | Origin:    | Vol/Sys:           | Level: | Type:    | Role: | Drg No.: | Revision |
| WHI - TRI - ZZ - ZZ - DR - A - 3010 |            |                    |        |          |       |          | P01      |
| Status                              | Scale @ A1 | Drawn              | Check  | Date     |       |          |          |
| As indicated                        |            | JS                 | AJD    | 11/22/21 |       |          |          |



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## **Appendix B – Groundsure Report**

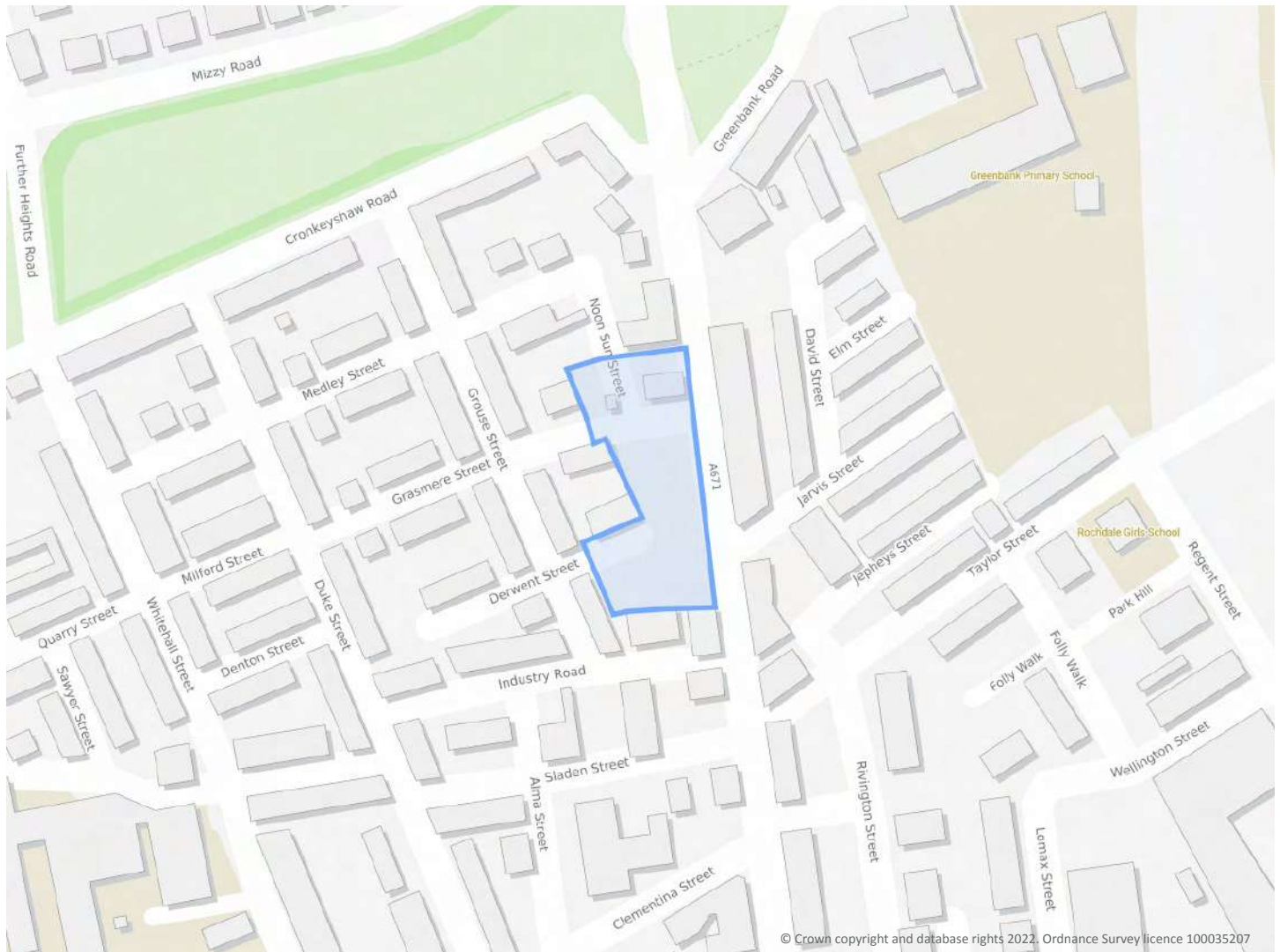
Derwent Street, Rochdale, OL12 0RP

## Order Details

**Date:** 28/01/2022  
**Your ref:** 62315  
**Our Ref:** CMAPS-CM-1015727-62315-280122EDRGEO  
**Client:** CENTREMAPS

## Site Details

**Location:** 389749 414321  
**Area:** 0.37 ha  
**Authority:** [Rochdale Metropolitan Borough Council](#)



**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.13

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Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

## Summary of findings

| Page               | Section             | Past land use                                        | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|--------------------|---------------------|------------------------------------------------------|---------|-------|---------|----------|-----------|
| <a href="#">14</a> | <a href="#">1.1</a> | <a href="#">Historical industrial land uses</a>      | 0       | 0     | 71      | 66       | -         |
| <a href="#">20</a> | <a href="#">1.2</a> | <a href="#">Historical tanks</a>                     | 0       | 0     | 2       | 16       | -         |
| <a href="#">21</a> | <a href="#">1.3</a> | <a href="#">Historical energy features</a>           | 1       | 0     | 4       | 14       | -         |
| 22                 | 1.4                 | Historical petrol stations                           | 0       | 0     | 0       | 0        | -         |
| <a href="#">22</a> | <a href="#">1.5</a> | <a href="#">Historical garages</a>                   | 0       | 0     | 4       | 4        | -         |
| 23                 | 1.6                 | Historical military land                             | 0       | 0     | 0       | 0        | -         |
| Page               | Section             | Past land use - un-grouped                           | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">24</a> | <a href="#">2.1</a> | <a href="#">Historical industrial land uses</a>      | 0       | 0     | 89      | 89       | -         |
| <a href="#">31</a> | <a href="#">2.2</a> | <a href="#">Historical tanks</a>                     | 0       | 0     | 3       | 21       | -         |
| <a href="#">32</a> | <a href="#">2.3</a> | <a href="#">Historical energy features</a>           | 3       | 0     | 10      | 35       | -         |
| 34                 | 2.4                 | Historical petrol stations                           | 0       | 0     | 0       | 0        | -         |
| <a href="#">34</a> | <a href="#">2.5</a> | <a href="#">Historical garages</a>                   | 0       | 0     | 6       | 13       | -         |
| Page               | Section             | Waste and landfill                                   | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">36</a> | <a href="#">3.1</a> | <a href="#">Active or recent landfill</a>            | 0       | 0     | 0       | 1        | -         |
| 37                 | 3.2                 | Historical landfill (BGS records)                    | 0       | 0     | 0       | 0        | -         |
| 37                 | 3.3                 | Historical landfill (LA/mapping records)             | 0       | 0     | 0       | 0        | -         |
| <a href="#">37</a> | <a href="#">3.4</a> | <a href="#">Historical landfill (EA/NRW records)</a> | 0       | 0     | 2       | 2        | -         |
| <a href="#">38</a> | <a href="#">3.5</a> | <a href="#">Historical waste sites</a>               | 0       | 0     | 5       | 7        | -         |
| <a href="#">40</a> | <a href="#">3.6</a> | <a href="#">Licensed waste sites</a>                 | 0       | 0     | 8       | 15       | -         |
| <a href="#">48</a> | <a href="#">3.7</a> | <a href="#">Waste exemptions</a>                     | 0       | 0     | 9       | 31       | -         |
| Page               | Section             | Current industrial land use                          | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">52</a> | <a href="#">4.1</a> | <a href="#">Recent industrial land uses</a>          | 1       | 3     | 22      | -        | -         |
| <a href="#">54</a> | <a href="#">4.2</a> | <a href="#">Current or recent petrol stations</a>    | 0       | 0     | 1       | 0        | -         |
| 55                 | 4.3                 | Electricity cables                                   | 0       | 0     | 0       | 0        | -         |
| 55                 | 4.4                 | Gas pipelines                                        | 0       | 0     | 0       | 0        | -         |
| 55                 | 4.5                 | Sites determined as Contaminated Land                | 0       | 0     | 0       | 0        | -         |



| 55        | 4.6         | Control of Major Accident Hazards (COMAH)              | 0                        | 0     | 0       | 0        | -         |
|-----------|-------------|--------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 55        | 4.7         | Regulated explosive sites                              | 0                        | 0     | 0       | 0        | -         |
| 56        | 4.8         | Hazardous substance storage/usage                      | 0                        | 0     | 0       | 0        | -         |
| 56        | 4.9         | Historical licensed industrial activities (IPC)        | 0                        | 0     | 0       | 0        | -         |
| 56        | 4.10        | Licensed industrial activities (Part A(1))             | 0                        | 0     | 0       | 0        | -         |
| <b>56</b> | <b>4.11</b> | <b><u>Licensed pollutant release (Part A(2)/B)</u></b> | 0                        | 1     | 1       | 2        | -         |
| 57        | 4.12        | Radioactive Substance Authorisations                   | 0                        | 0     | 0       | 0        | -         |
| <b>57</b> | <b>4.13</b> | <b><u>Licensed Discharges to controlled waters</u></b> | 0                        | 0     | 0       | 5        | -         |
| 58        | 4.14        | Pollutant release to surface waters (Red List)         | 0                        | 0     | 0       | 0        | -         |
| <b>58</b> | <b>4.15</b> | <b><u>Pollutant release to public sewer</u></b>        | 0                        | 0     | 0       | 1        | -         |
| <b>59</b> | <b>4.16</b> | <b><u>List 1 Dangerous Substances</u></b>              | 0                        | 0     | 0       | 1        | -         |
| 59        | 4.17        | List 2 Dangerous Substances                            | 0                        | 0     | 0       | 0        | -         |
| <b>59</b> | <b>4.18</b> | <b><u>Pollution Incidents (EA/NRW)</u></b>             | 0                        | 0     | 1       | 0        | -         |
| 60        | 4.19        | Pollution inventory substances                         | 0                        | 0     | 0       | 0        | -         |
| 60        | 4.20        | Pollution inventory waste transfers                    | 0                        | 0     | 0       | 0        | -         |
| 60        | 4.21        | Pollution inventory radioactive waste                  | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrogeology                                           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>61</b> | <b>5.1</b>  | <b><u>Superficial aquifer</u></b>                      | Identified (within 500m) |       |         |          |           |
| <b>63</b> | <b>5.2</b>  | <b><u>Bedrock aquifer</u></b>                          | Identified (within 500m) |       |         |          |           |
| <b>65</b> | <b>5.3</b>  | <b><u>Groundwater vulnerability</u></b>                | Identified (within 50m)  |       |         |          |           |
| 66        | 5.4         | Groundwater vulnerability- soluble rock risk           | None (within 0m)         |       |         |          |           |
| 66        | 5.5         | Groundwater vulnerability- local information           | None (within 0m)         |       |         |          |           |
| <b>67</b> | <b>5.6</b>  | <b><u>Groundwater abstractions</u></b>                 | 0                        | 0     | 0       | 0        | 3         |
| <b>68</b> | <b>5.7</b>  | <b><u>Surface water abstractions</u></b>               | 0                        | 0     | 0       | 2        | 17        |
| <b>73</b> | <b>5.8</b>  | <b><u>Potable abstractions</u></b>                     | 0                        | 0     | 0       | 0        | 9         |
| 76        | 5.9         | Source Protection Zones                                | 0                        | 0     | 0       | 0        | -         |
| 76        | 5.10        | Source Protection Zones (confined aquifer)             | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrology                                              | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 77        | 6.1         | Water Network (OS MasterMap)                           | 0                        | 0     | 0       | -        | -         |



| 77        | 6.2          | Surface water features                                    | 0                                      | 0     | 0       | -        | -         |
|-----------|--------------|-----------------------------------------------------------|----------------------------------------|-------|---------|----------|-----------|
| <b>78</b> | <b>6.3</b>   | <b><u>WFD Surface water body catchments</u></b>           | 1                                      | -     | -       | -        | -         |
| <b>78</b> | <b>6.4</b>   | <b><u>WFD Surface water bodies</u></b>                    | 0                                      | 0     | 0       | -        | -         |
| <b>79</b> | <b>6.5</b>   | <b><u>WFD Groundwater bodies</u></b>                      | 1                                      | -     | -       | -        | -         |
| Page      | Section      | River and coastal flooding                                | On site                                | 0-50m | 50-250m | 250-500m | 500-2000m |
| 80        | 7.1          | Risk of flooding from rivers and the sea                  | None (within 50m)                      |       |         |          |           |
| 80        | 7.2          | Historical Flood Events                                   | 0                                      | 0     | 0       | -        | -         |
| 80        | 7.3          | Flood Defences                                            | 0                                      | 0     | 0       | -        | -         |
| 81        | 7.4          | Areas Benefiting from Flood Defences                      | 0                                      | 0     | 0       | -        | -         |
| 81        | 7.5          | Flood Storage Areas                                       | 0                                      | 0     | 0       | -        | -         |
| 82        | 7.6          | Flood Zone 2                                              | None (within 50m)                      |       |         |          |           |
| 82        | 7.7          | Flood Zone 3                                              | None (within 50m)                      |       |         |          |           |
| Page      | Section      | Surface water flooding                                    |                                        |       |         |          |           |
| <b>83</b> | <b>8.1</b>   | <b><u>Surface water flooding</u></b>                      | 1 in 30 year, 0.1m - 0.3m (within 50m) |       |         |          |           |
| Page      | Section      | Groundwater flooding                                      |                                        |       |         |          |           |
| <b>85</b> | <b>9.1</b>   | <b><u>Groundwater flooding</u></b>                        | Low (within 50m)                       |       |         |          |           |
| Page      | Section      | Environmental designations                                | On site                                | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>86</b> | <b>10.1</b>  | <b><u>Sites of Special Scientific Interest (SSSI)</u></b> | 0                                      | 0     | 0       | 0        | 2         |
| 87        | 10.2         | Conserved wetland sites (Ramsar sites)                    | 0                                      | 0     | 0       | 0        | 0         |
| <b>87</b> | <b>10.3</b>  | <b><u>Special Areas of Conservation (SAC)</u></b>         | 0                                      | 0     | 0       | 0        | 2         |
| 88        | 10.4         | Special Protection Areas (SPA)                            | 0                                      | 0     | 0       | 0        | 0         |
| 88        | 10.5         | National Nature Reserves (NNR)                            | 0                                      | 0     | 0       | 0        | 0         |
| <b>88</b> | <b>10.6</b>  | <b><u>Local Nature Reserves (LNR)</u></b>                 | 0                                      | 0     | 0       | 0        | 1         |
| <b>88</b> | <b>10.7</b>  | <b><u>Designated Ancient Woodland</u></b>                 | 0                                      | 0     | 0       | 0        | 3         |
| 89        | 10.8         | Biosphere Reserves                                        | 0                                      | 0     | 0       | 0        | 0         |
| 89        | 10.9         | Forest Parks                                              | 0                                      | 0     | 0       | 0        | 0         |
| 89        | 10.10        | Marine Conservation Zones                                 | 0                                      | 0     | 0       | 0        | 0         |
| <b>89</b> | <b>10.11</b> | <b><u>Green Belt</u></b>                                  | 0                                      | 0     | 0       | 0        | 4         |
| 90        | 10.12        | Proposed Ramsar sites                                     | 0                                      | 0     | 0       | 0        | 0         |



| 90         | 10.13               | Possible Special Areas of Conservation (pSAC)  | 0                        | 0     | 0       | 0        | 0         |
|------------|---------------------|------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 90         | 10.14               | Potential Special Protection Areas (pSPA)      | 0                        | 0     | 0       | 0        | 0         |
| 91         | 10.15               | Nitrate Sensitive Areas                        | 0                        | 0     | 0       | 0        | 0         |
| 91         | 10.16               | Nitrate Vulnerable Zones                       | 0                        | 0     | 0       | 0        | 0         |
| <b>92</b>  | <b><u>10.17</u></b> | <b><u>SSSI Impact Risk Zones</u></b>           | 1                        | -     | -       | -        | -         |
| <b>93</b>  | <b><u>10.18</u></b> | <b><u>SSSI Units</u></b>                       | 0                        | 0     | 0       | 0        | 2         |
| Page       | Section             | Visual and cultural designations               | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 95         | 11.1                | World Heritage Sites                           | 0                        | 0     | 0       | -        | -         |
| 95         | 11.2                | Area of Outstanding Natural Beauty             | 0                        | 0     | 0       | -        | -         |
| 95         | 11.3                | National Parks                                 | 0                        | 0     | 0       | -        | -         |
| 95         | 11.4                | Listed Buildings                               | 0                        | 0     | 0       | -        | -         |
| 96         | 11.5                | Conservation Areas                             | 0                        | 0     | 0       | -        | -         |
| 96         | 11.6                | Scheduled Ancient Monuments                    | 0                        | 0     | 0       | -        | -         |
| 96         | 11.7                | Registered Parks and Gardens                   | 0                        | 0     | 0       | -        | -         |
| Page       | Section             | Agricultural designations                      | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>97</b>  | <b><u>12.1</u></b>  | <b><u>Agricultural Land Classification</u></b> | Urban (within 250m)      |       |         |          |           |
| 98         | 12.2                | Open Access Land                               | 0                        | 0     | 0       | -        | -         |
| 98         | 12.3                | Tree Felling Licences                          | 0                        | 0     | 0       | -        | -         |
| 98         | 12.4                | Environmental Stewardship Schemes              | 0                        | 0     | 0       | -        | -         |
| 98         | 12.5                | Countryside Stewardship Schemes                | 0                        | 0     | 0       | -        | -         |
| Page       | Section             | Habitat designations                           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>99</b>  | <b><u>13.1</u></b>  | <b><u>Priority Habitat Inventory</u></b>       | 0                        | 0     | 1       | -        | -         |
| 100        | 13.2                | Habitat Networks                               | 0                        | 0     | 0       | -        | -         |
| 100        | 13.3                | Open Mosaic Habitat                            | 0                        | 0     | 0       | -        | -         |
| 100        | 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 |
| <b>101</b> | <b><u>14.1</u></b>  | <b><u>10k Availability</u></b>                 | Identified (within 500m) |       |         |          |           |
| <b>102</b> | <b><u>14.2</u></b>  | <b><u>Artificial and made ground (10k)</u></b> | 0                        | 0     | 4       | 3        | -         |
| <b>104</b> | <b><u>14.3</u></b>  | <b><u>Superficial geology (10k)</u></b>        | 1                        | 0     | 1       | 0        | -         |



| 105        | 14.4         | Landslip (10k)                                               | 0                        | 0     | 0       | 0        | -         |
|------------|--------------|--------------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <b>106</b> | <b>14.5</b>  | <b><u>Bedrock geology (10k)</u></b>                          | 1                        | 0     | 4       | 3        | -         |
| <b>107</b> | <b>14.6</b>  | <b><u>Bedrock faults and other linear features (10k)</u></b> | 0                        | 0     | 0       | 2        | -         |
| Page       | Section      | Geology 1:50,000 scale                                       | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>108</b> | <b>15.1</b>  | <b><u>50k Availability</u></b>                               | Identified (within 500m) |       |         |          |           |
| <b>109</b> | <b>15.2</b>  | <b><u>Artificial and made ground (50k)</u></b>               | 0                        | 0     | 0       | 1        | -         |
| 110        | 15.3         | Artificial ground permeability (50k)                         | 0                        | 0     | -       | -        | -         |
| <b>111</b> | <b>15.4</b>  | <b><u>Superficial geology (50k)</u></b>                      | 1                        | 0     | 0       | 0        | -         |
| <b>112</b> | <b>15.5</b>  | <b><u>Superficial permeability (50k)</u></b>                 | Identified (within 50m)  |       |         |          |           |
| 112        | 15.6         | Landslip (50k)                                               | 0                        | 0     | 0       | 0        | -         |
| 112        | 15.7         | Landslip permeability (50k)                                  | None (within 50m)        |       |         |          |           |
| <b>113</b> | <b>15.8</b>  | <b><u>Bedrock geology (50k)</u></b>                          | 1                        | 0     | 2       | 2        | -         |
| <b>114</b> | <b>15.9</b>  | <b><u>Bedrock permeability (50k)</u></b>                     | Identified (within 50m)  |       |         |          |           |
| <b>114</b> | <b>15.10</b> | <b><u>Bedrock faults and other linear features (50k)</u></b> | 0                        | 0     | 0       | 1        | -         |
| Page       | Section      | Boreholes                                                    | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>115</b> | <b>16.1</b>  | <b><u>BGS Boreholes</u></b>                                  | 0                        | 0     | 4       | -        | -         |
| Page       | Section      | Natural ground subsidence                                    |                          |       |         |          |           |
| <b>117</b> | <b>17.1</b>  | <b><u>Shrink swell clays</u></b>                             | Very low (within 50m)    |       |         |          |           |
| <b>118</b> | <b>17.2</b>  | <b><u>Running sands</u></b>                                  | Very low (within 50m)    |       |         |          |           |
| <b>119</b> | <b>17.3</b>  | <b><u>Compressible deposits</u></b>                          | Negligible (within 50m)  |       |         |          |           |
| <b>120</b> | <b>17.4</b>  | <b><u>Collapsible deposits</u></b>                           | Very low (within 50m)    |       |         |          |           |
| <b>121</b> | <b>17.5</b>  | <b><u>Landslides</u></b>                                     | Very low (within 50m)    |       |         |          |           |
| <b>122</b> | <b>17.6</b>  | <b><u>Ground dissolution of soluble rocks</u></b>            | Negligible (within 50m)  |       |         |          |           |
| Page       | Section      | Mining, ground workings and natural cavities                 | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 124        | 18.1         | Natural cavities                                             | 0                        | 0     | 0       | 0        | -         |
| <b>125</b> | <b>18.2</b>  | <b><u>BritPits</u></b>                                       | 0                        | 0     | 1       | 0        | -         |
| <b>125</b> | <b>18.3</b>  | <b><u>Surface ground workings</u></b>                        | 0                        | 0     | 31      | -        | -         |
| <b>126</b> | <b>18.4</b>  | <b><u>Underground workings</u></b>                           | 0                        | 0     | 3       | 0        | 0         |
| <b>127</b> | <b>18.5</b>  | <b><u>Historical Mineral Planning Areas</u></b>              | 0                        | 0     | 1       | 1        | -         |



| 127        | 18.6        | Non-coal mining                                       | 0                        | 0     | 0       | 0        | 0         |
|------------|-------------|-------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 127        | 18.7        | Mining cavities                                       | 0                        | 0     | 0       | 0        | 0         |
| 128        | 18.8        | JPB mining areas                                      | None (within 0m)         |       |         |          |           |
| <b>128</b> | <b>18.9</b> | <b><u>Coal mining</u></b>                             | Identified (within 0m)   |       |         |          |           |
| 128        | 18.10       | Brine areas                                           | None (within 0m)         |       |         |          |           |
| 128        | 18.11       | Gypsum areas                                          | None (within 0m)         |       |         |          |           |
| 128        | 18.12       | Tin mining                                            | None (within 0m)         |       |         |          |           |
| 129        | 18.13       | Clay mining                                           | None (within 0m)         |       |         |          |           |
| Page       | Section     | Radon                                                 |                          |       |         |          |           |
| <b>130</b> | <b>19.1</b> | <b><u>Radon</u></b>                                   | Less than 1% (within 0m) |       |         |          |           |
| Page       | Section     | Soil chemistry                                        | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>131</b> | <b>20.1</b> | <b><u>BGS Estimated Background Soil Chemistry</u></b> | 1                        | 0     | -       | -        | -         |
| 131        | 20.2        | BGS Estimated Urban Soil Chemistry                    | 0                        | 0     | -       | -        | -         |
| 131        | 20.3        | BGS Measured Urban Soil Chemistry                     | 0                        | 0     | -       | -        | -         |
| Page       | Section     | Railway infrastructure and projects                   | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 132        | 21.1        | Underground railways (London)                         | 0                        | 0     | 0       | -        | -         |
| 132        | 21.2        | Underground railways (Non-London)                     | 0                        | 0     | 0       | -        | -         |
| 133        | 21.3        | Railway tunnels                                       | 0                        | 0     | 0       | -        | -         |
| <b>133</b> | <b>21.4</b> | <b><u>Historical railway and tunnel features</u></b>  | 0                        | 0     | 31      | -        | -         |
| 134        | 21.5        | Royal Mail tunnels                                    | 0                        | 0     | 0       | -        | -         |
| <b>134</b> | <b>21.6</b> | <b><u>Historical railways</u></b>                     | 0                        | 0     | 1       | -        | -         |
| 135        | 21.7        | Railways                                              | 0                        | 0     | 0       | -        | -         |
| 135        | 21.8        | Crossrail 1                                           | 0                        | 0     | 0       | 0        | -         |
| 135        | 21.9        | Crossrail 2                                           | 0                        | 0     | 0       | 0        | -         |
| 135        | 21.10       | HS2                                                   | 0                        | 0     | 0       | 0        | -         |

## Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.37ha



## Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.37ha



## Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.37ha



## Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.37ha



## Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 0.37ha



## OS MasterMap site plan



Site Area: 0.37ha



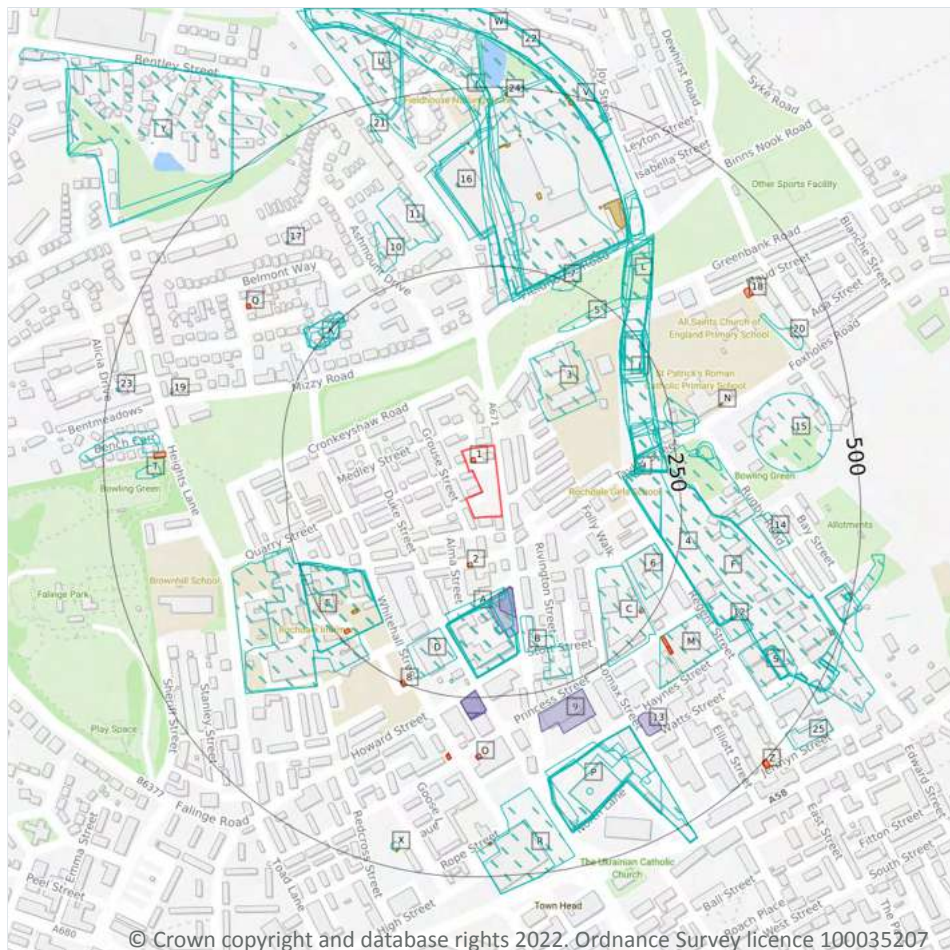
Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

Date: 28 January 2022

## 1 Past land use



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

### 1.1 Historical industrial land uses

Records within 500m

137

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use    | Dates present | Group ID |
|----|----------|-------------|---------------|----------|
| 3  | 82m NE   | Cotton Mill | 1851          | 644265   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| A  | 99m S    | Rope Walk                         | 1851          | 641256   |
| A  | 104m S   | Unspecified Commercial/Industrial | 1968          | 757307   |
| A  | 104m S   | Unspecified Mills                 | 1949          | 789838   |
| A  | 105m S   | Shed                              | 1851          | 659581   |
| A  | 114m S   | Unspecified Commercial/Industrial | 1975 - 1987   | 706201   |
| A  | 116m S   | Unspecified Mills                 | 1992          | 746909   |
| A  | 120m S   | Unspecified Mills                 | 1938          | 706053   |
| A  | 120m S   | Unspecified Commercial/Industrial | 1891 - 1928   | 753030   |
| B  | 142m S   | Clay Pit                          | 1851          | 676030   |
| C  | 151m SE  | Corporation Depot                 | 1891          | 685836   |
| D  | 160m S   | Ambulance Station                 | 1992          | 676098   |
| E  | 169m SW  | Infirmary                         | 1975          | 724787   |
| E  | 171m SW  | Infirmary And Dispensary          | 1908 - 1938   | 706331   |
| F  | 173m E   | Railway Sidings                   | 1949 - 1954   | 778967   |
| 4  | 173m E   | Railway Sidings                   | 1891          | 693892   |
| F  | 173m E   | Railway Sidings                   | 1938 - 1968   | 751485   |
| E  | 173m SW  | Infirmary                         | 1987 - 1992   | 707060   |
| E  | 174m SW  | Infirmary                         | 1949          | 701004   |
| E  | 174m SW  | Infirmary                         | 1968          | 745287   |
| G  | 177m E   | Railway Sidings                   | 1928          | 720342   |
| G  | 177m E   | Railway Sidings                   | 1908          | 780765   |
| 5  | 182m NE  | Unspecified Ground Workings       | 1890          | 648008   |
| 6  | 183m E   | Unspecified Depot                 | 1992          | 668799   |
| H  | 184m E   | Railway Building                  | 1938          | 697081   |
| H  | 185m E   | Railway Building                  | 1949          | 745574   |
| I  | 187m E   | Railway Sidings                   | 1938          | 759617   |
| I  | 187m E   | Railway Sidings                   | 1928          | 783719   |
| I  | 187m E   | Railway Sidings                   | 1908          | 788701   |



| ID | Location | Land use                 | Dates present | Group ID |
|----|----------|--------------------------|---------------|----------|
| H  | 188m E   | Railway Building         | 1908          | 730672   |
| H  | 188m E   | Railway Building         | 1928          | 782360   |
| H  | 190m E   | Cuttings                 | 1975 - 1992   | 777653   |
| H  | 190m E   | Cuttings                 | 1949          | 769318   |
| H  | 191m E   | Cuttings                 | 1968          | 781396   |
| H  | 192m E   | Cuttings                 | 1908 - 1928   | 705232   |
| H  | 192m E   | Cuttings                 | 1938          | 742252   |
| H  | 192m E   | Cuttings                 | 1890          | 769145   |
| E  | 192m SW  | Infirmary And Dispensary | 1891          | 709310   |
| B  | 195m S   | Woollen Mill             | 1851          | 670985   |
| J  | 197m N   | Railway Sidings          | 1938          | 780013   |
| I  | 199m NE  | Cuttings                 | 1928          | 719883   |
| I  | 199m NE  | Cuttings                 | 1908          | 723341   |
| I  | 200m NE  | Cuttings                 | 1938          | 713738   |
| J  | 202m N   | Unspecified Mills        | 1908 - 1928   | 719844   |
| J  | 202m N   | Railway Sidings          | 1908 - 1928   | 779004   |
| I  | 203m NE  | Cuttings                 | 1890          | 752861   |
| J  | 205m NE  | Cuttings                 | 1949          | 729630   |
| J  | 206m N   | Unspecified Mills        | 1938          | 752841   |
| J  | 210m N   | Unspecified Mills        | 1949          | 703055   |
| J  | 210m N   | Railway Sidings          | 1949          | 768614   |
| I  | 211m NE  | Cuttings                 | 1992          | 741704   |
| I  | 211m NE  | Cuttings                 | 1987          | 751513   |
| I  | 211m NE  | Cuttings                 | 1975          | 754989   |
| J  | 212m N   | Industrial Estate        | 1987 - 1992   | 772940   |
| H  | 213m E   | Unspecified Heap         | 1890          | 650726   |
| J  | 214m N   | Unspecified Mills        | 1968 - 1975   | 727995   |
| J  | 220m N   | Cotton Mill              | 1851          | 644268   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| J  | 221m N   | Unspecified Mills                 | 1890          | 763963   |
| D  | 227m S   | Pump                              | 1851          | 675568   |
| 7  | 232m N   | Refuse Heap                       | 1890          | 677861   |
| K  | 235m NW  | Unspecified Heap                  | 1968          | 739910   |
| H  | 235m E   | Unspecified Works                 | 1967 - 1976   | 752956   |
| K  | 235m NW  | Unspecified Heap                  | 1908 - 1928   | 777652   |
| K  | 236m NW  | Unspecified Old Shaft             | 1928          | 651797   |
| H  | 240m E   | Unspecified Ground Workings       | 1908          | 648009   |
| K  | 240m NW  | Unspecified Heaps                 | 1938          | 679636   |
| E  | 240m SW  | Industrial House                  | 1851          | 676228   |
| H  | 241m E   | Unspecified Pit                   | 1890          | 690676   |
| K  | 243m NW  | Unspecified Ground Workings       | 1949          | 648012   |
| K  | 245m NW  | Unspecified Disused Shaft         | 1968          | 664287   |
| K  | 247m NW  | Unspecified Old Shaft             | 1890          | 651798   |
| H  | 268m E   | Unspecified Ground Workings       | 1908          | 648007   |
| 10 | 272m NW  | Unspecified Heap                  | 1968          | 650724   |
| L  | 272m NE  | Cuttings                          | 1938          | 785694   |
| L  | 272m NE  | Cuttings                          | 1908 - 1928   | 791147   |
| M  | 277m SE  | Unspecified Mill                  | 1976          | 657138   |
| H  | 279m E   | Unspecified Pit                   | 1928 - 1938   | 732181   |
| 11 | 289m N   | Nursery                           | 1968          | 679932   |
| F  | 305m E   | Unspecified Pit                   | 1938          | 690673   |
| L  | 309m NE  | Cuttings                          | 1890          | 720428   |
| 12 | 312m SE  | Unspecified Works                 | 1976          | 678975   |
| J  | 316m N   | Gasometer                         | 1851          | 655098   |
| P  | 339m S   | Cotton Mills                      | 1851          | 659337   |
| P  | 342m SE  | Unspecified Commercial/Industrial | 1891          | 764450   |
| P  | 342m SE  | Unspecified Mills                 | 1938          | 736780   |

| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| P  | 343m SE  | Unspecified Mills                 | 1949          | 774364   |
| L  | 344m NE  | Cuttings                          | 1908 - 1928   | 774562   |
| P  | 345m SE  | Unspecified Mills                 | 1908 - 1928   | 783932   |
| P  | 345m SE  | Unspecified Mill                  | 1975          | 657139   |
| L  | 347m NE  | Cuttings                          | 1890          | 728765   |
| L  | 348m NE  | Cuttings                          | 1938          | 733018   |
| 14 | 349m E   | Cuttings                          | 1908          | 642612   |
| L  | 351m NE  | Unspecified Pit                   | 1975 - 1992   | 789169   |
| P  | 353m S   | Unspecified Commercial/Industrial | 1968          | 764683   |
| P  | 358m SE  | Pump                              | 1851          | 675569   |
| 15 | 360m E   | Unspecified Holes                 | 1890          | 641025   |
| 16 | 364m N   | Pump                              | 1851          | 675542   |
| P  | 369m S   | Unspecified Commercial/Industrial | 1987 - 1992   | 716726   |
| 17 | 378m NW  | Pump                              | 1851          | 675571   |
| R  | 380m S   | Unspecified Works                 | 1975 - 1987   | 695987   |
| S  | 381m SE  | Unspecified Works                 | 1976          | 678976   |
| P  | 398m S   | Chimney                           | 1968 - 1975   | 744807   |
| S  | 408m SE  | Railway Building                  | 1954 - 1967   | 707061   |
| S  | 408m SE  | Railway Building                  | 1938          | 738135   |
| S  | 412m SE  | Railway Building                  | 1908 - 1928   | 772682   |
| 19 | 412m W   | Pump                              | 1851          | 675570   |
| 20 | 412m NE  | Unspecified Pit                   | 1928          | 690672   |
| T  | 420m W   | Unspecified Heap                  | 1928          | 650725   |
| T  | 421m W   | Unspecified Heap                  | 1968 - 1975   | 726248   |
| T  | 423m W   | Unspecified Pit                   | 1949          | 690698   |
| R  | 424m S   | Unspecified Works                 | 1992          | 724497   |
| U  | 425m N   | Refuse Heap                       | 1908 - 1928   | 741081   |
| 21 | 444m N   | Police Station                    | 1890          | 680435   |

| ID | Location | Land use                    | Dates present | Group ID |
|----|----------|-----------------------------|---------------|----------|
| 22 | 450m N   | Cuttings                    | 1908 - 1938   | 751838   |
| V  | 453m N   | Cuttings                    | 1890          | 782893   |
| T  | 454m W   | Pump                        | 1851          | 675576   |
| W  | 459m N   | Cuttings                    | 1987 - 1992   | 746506   |
| W  | 461m N   | Cuttings                    | 1975          | 766243   |
| S  | 464m E   | Unspecified Works           | 1967          | 678974   |
| X  | 464m S   | Chimney                     | 1968          | 684526   |
| S  | 465m E   | Unspecified Depot           | 1976          | 668801   |
| S  | 465m SE  | Railway Building            | 1954 - 1967   | 735115   |
| S  | 466m SE  | Railway Building            | 1908 - 1938   | 694963   |
| U  | 471m N   | Unspecified Ground Workings | 1975          | 648010   |
| U  | 474m N   | Refuse Heap                 | 1938          | 742377   |
| S  | 484m SE  | Railway Buildings           | 1938          | 751928   |
| 23 | 485m W   | Pump                        | 1851          | 675575   |
| S  | 486m SE  | Railway Buildings           | 1908 - 1928   | 714019   |
| S  | 486m SE  | Railway Buildings           | 1954          | 744858   |
| S  | 487m SE  | Unspecified Depot           | 1976          | 668803   |
| S  | 488m E   | Unspecified Tank            | 1928 - 1938   | 700358   |
| S  | 491m E   | Unspecified Tank            | 1954          | 779309   |
| S  | 494m E   | Refuse Heap                 | 1928 - 1938   | 730677   |
| Y  | 495m NW  | Brick Works                 | 1909 - 1928   | 771809   |
| Y  | 496m NW  | Unspecified Works           | 1968 - 1975   | 773531   |
| Y  | 497m NW  | Brick Works                 | 1938          | 716306   |
| 25 | 498m SE  | Unspecified Works           | 1976          | 678972   |

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.2 Historical tanks

### Records within 500m

**18**

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| E  | 206m SW  | Tanks            | 1996          | 92338    |
| E  | 207m SW  | Tanks            | 1982 - 1988   | 94504    |
| N  | 320m E   | Unspecified Tank | 1910          | 94837    |
| N  | 320m E   | Unspecified Tank | 1930          | 95792    |
| N  | 320m E   | Unspecified Tank | 1939          | 99848    |
| J  | 349m N   | Unspecified Tank | 1974          | 84196    |
| L  | 351m NE  | Filter Tanks     | 1910 - 1939   | 90105    |
| L  | 361m NE  | Filter Tanks     | 1930          | 88260    |
| J  | 407m N   | Unspecified Tank | 1930 - 1939   | 99004    |
| J  | 415m N   | Unspecified Tank | 1930          | 100369   |
| J  | 416m N   | Unspecified Tank | 1939          | 91285    |
| J  | 421m N   | Unspecified Tank | 1910          | 84184    |
| J  | 432m N   | Unspecified Tank | 1930 - 1939   | 97578    |
| X  | 472m S   | Unspecified Tank | 1972          | 84182    |
| V  | 486m N   | Unspecified Tank | 1890          | 84194    |
| 24 | 487m N   | Tanks            | 1930 - 1939   | 96459    |
| V  | 494m N   | Unspecified Tank | 1939          | 84191    |
| S  | 495m E   | Unspecified Tank | 1976          | 84181    |

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

#### Records within 500m

**19**

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

Features are displayed on the Past land use map on **page 14**

| ID       | Location       | Land use                      | Dates present      | Group ID     |
|----------|----------------|-------------------------------|--------------------|--------------|
| <b>1</b> | <b>On site</b> | <b>Electricity Substation</b> | <b>1982 - 1996</b> | <b>56064</b> |
| 2        | 62m S          | Electricity Substation        | 1982 - 1996        | 57572        |
| C        | 231m SE        | Electricity Substation        | 1982 - 1996        | 49316        |
| E        | 233m SW        | Electricity Substation        | 1982 - 1996        | 59270        |
| 8        | 246m SW        | Electricity Substation        | 1982               | 45432        |
| M        | 278m SE        | Electricity Substation        | 1987               | 52256        |
| M        | 279m SE        | Electricity Substation        | 1996               | 50531        |
| M        | 294m SE        | Electricity Substation        | 1976               | 55298        |
| O        | 328m S         | Electricity Substation        | 1972 - 1995        | 47023        |
| O        | 329m S         | Electricity Substation        | 1988               | 58663        |
| O        | 331m S         | Electricity Substation        | 1985 - 1995        | 52063        |
| Q        | 355m NW        | Electricity Substation        | 1989               | 54235        |
| Q        | 356m NW        | Electricity Substation        | 1984 - 1998        | 56955        |
| 18       | 409m NE        | Electricity Substation        | 1987 - 1998        | 54132        |
| T        | 412m W         | Electricity Substation        | 1968 - 1992        | 47552        |
| R        | 452m S         | Electricity Substation        | 1988 - 1995        | 49782        |
| S        | 483m E         | Electricity Substation        | 1987 - 1996        | 48646        |
| Z        | 499m SE        | Electricity Substation        | 1983 - 1996        | 58298        |
| Z        | 499m SE        | Electricity Substation        | 1975 - 1989        | 49947        |

*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

8

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| A  | 98m S    | Garage   | 1988 - 1996   | 18167    |
| A  | 100m S   | Garage   | 1982          | 14943    |
| D  | 240m S   | Garage   | 1958 - 1959   | 17343    |
| D  | 240m S   | Garage   | 1982 - 1995   | 18975    |
| 9  | 265m SE  | Garage   | 1982 - 1985   | 19290    |
| D  | 271m S   | Garage   | 1959          | 17012    |
| D  | 271m S   | Garage   | 1959 - 1985   | 19479    |
| 13 | 337m SE  | Garage   | 1985 - 1995   | 17319    |

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.6 Historical military land

Records within 500m

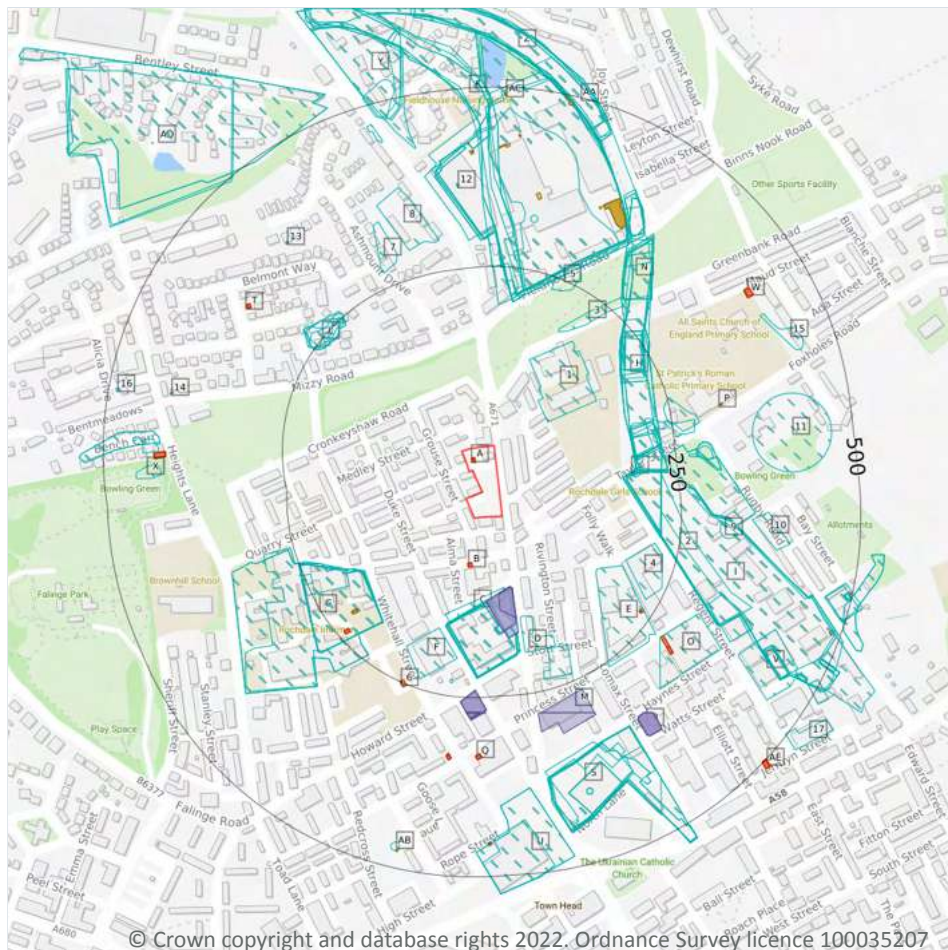
0

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

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



## 2 Past land use - un-grouped



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

### 2.1 Historical industrial land uses

Records within 500m

178

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

| ID | Location | Land Use          | Date | Group ID |
|----|----------|-------------------|------|----------|
| 1  | 82m NE   | Cotton Mill       | 1851 | 644265   |
| C  | 99m S    | Rope Walk         | 1851 | 641256   |
| C  | 104m S   | Unspecified Mills | 1949 | 789838   |

| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| C  | 104m S   | Unspecified Commercial/Industrial | 1968 | 757307   |
| C  | 105m S   | Shed                              | 1851 | 659581   |
| C  | 114m S   | Unspecified Commercial/Industrial | 1987 | 706201   |
| C  | 114m S   | Unspecified Commercial/Industrial | 1975 | 706201   |
| C  | 116m S   | Unspecified Mills                 | 1992 | 746909   |
| C  | 120m S   | Unspecified Mills                 | 1938 | 706053   |
| C  | 120m S   | Unspecified Commercial/Industrial | 1928 | 753030   |
| C  | 120m S   | Unspecified Commercial/Industrial | 1908 | 753030   |
| C  | 120m S   | Unspecified Commercial/Industrial | 1891 | 753030   |
| D  | 142m S   | Clay Pit                          | 1851 | 676030   |
| E  | 151m SE  | Corporation Depot                 | 1891 | 685836   |
| F  | 160m S   | Ambulance Station                 | 1992 | 676098   |
| G  | 169m SW  | Infirmary                         | 1975 | 724787   |
| G  | 171m SW  | Infirmary And Dispensary          | 1938 | 706331   |
| G  | 171m SW  | Infirmary And Dispensary          | 1928 | 706331   |
| G  | 171m SW  | Infirmary And Dispensary          | 1908 | 706331   |
| H  | 173m E   | Railway Sidings                   | 1949 | 778967   |
| 2  | 173m E   | Railway Sidings                   | 1891 | 693892   |
| I  | 173m E   | Railway Sidings                   | 1938 | 751485   |
| G  | 173m SW  | Infirmary                         | 1992 | 707060   |
| G  | 173m SW  | Infirmary                         | 1987 | 707060   |
| G  | 174m SW  | Infirmary                         | 1949 | 701004   |
| G  | 174m SW  | Infirmary                         | 1968 | 745287   |
| I  | 177m E   | Railway Sidings                   | 1928 | 720342   |
| I  | 177m E   | Railway Sidings                   | 1908 | 780765   |
| H  | 177m E   | Railway Sidings                   | 1968 | 751485   |
| 3  | 182m NE  | Unspecified Ground Workings       | 1890 | 648008   |
| 4  | 183m E   | Unspecified Depot                 | 1992 | 668799   |



| ID | Location | Land Use                 | Date | Group ID |
|----|----------|--------------------------|------|----------|
| J  | 184m E   | Railway Building         | 1938 | 697081   |
| J  | 185m E   | Railway Building         | 1949 | 745574   |
| H  | 187m E   | Railway Sidings          | 1938 | 759617   |
| H  | 187m E   | Railway Sidings          | 1928 | 783719   |
| H  | 187m E   | Railway Sidings          | 1908 | 788701   |
| J  | 188m E   | Railway Building         | 1928 | 782360   |
| J  | 188m E   | Railway Building         | 1908 | 730672   |
| J  | 190m E   | Cuttings                 | 1992 | 777653   |
| J  | 190m E   | Cuttings                 | 1987 | 777653   |
| J  | 190m E   | Cuttings                 | 1975 | 777653   |
| J  | 190m E   | Cuttings                 | 1949 | 769318   |
| J  | 191m E   | Cuttings                 | 1968 | 781396   |
| J  | 192m E   | Cuttings                 | 1928 | 705232   |
| J  | 192m E   | Cuttings                 | 1908 | 705232   |
| J  | 192m E   | Cuttings                 | 1938 | 742252   |
| J  | 192m E   | Cuttings                 | 1890 | 769145   |
| G  | 192m SW  | Infirmary And Dispensary | 1891 | 709310   |
| D  | 195m S   | Woollen Mill             | 1851 | 670985   |
| K  | 197m N   | Railway Sidings          | 1938 | 780013   |
| H  | 199m NE  | Cuttings                 | 1928 | 719883   |
| H  | 199m NE  | Cuttings                 | 1908 | 723341   |
| H  | 200m NE  | Cuttings                 | 1938 | 713738   |
| K  | 202m N   | Unspecified Mills        | 1928 | 719844   |
| K  | 202m N   | Railway Sidings          | 1928 | 779004   |
| K  | 202m N   | Railway Sidings          | 1908 | 779004   |
| K  | 202m N   | Unspecified Mills        | 1908 | 719844   |
| H  | 203m NE  | Cuttings                 | 1890 | 752861   |
| K  | 205m NE  | Cuttings                 | 1949 | 729630   |



| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| K  | 206m N   | Unspecified Mills           | 1938 | 752841   |
| K  | 210m N   | Unspecified Mills           | 1949 | 703055   |
| K  | 210m N   | Railway Sidings             | 1949 | 768614   |
| H  | 211m NE  | Cuttings                    | 1992 | 741704   |
| H  | 211m NE  | Cuttings                    | 1987 | 751513   |
| H  | 211m NE  | Cuttings                    | 1975 | 754989   |
| K  | 212m N   | Industrial Estate           | 1992 | 772940   |
| J  | 213m E   | Unspecified Heap            | 1890 | 650726   |
| K  | 214m N   | Industrial Estate           | 1987 | 772940   |
| K  | 214m N   | Unspecified Mills           | 1975 | 727995   |
| K  | 214m N   | Unspecified Mills           | 1968 | 727995   |
| K  | 220m N   | Cotton Mill                 | 1851 | 644268   |
| K  | 221m N   | Unspecified Mills           | 1890 | 763963   |
| I  | 222m E   | Railway Sidings             | 1967 | 751485   |
| I  | 222m E   | Railway Sidings             | 1954 | 778967   |
| F  | 227m S   | Pump                        | 1851 | 675568   |
| 5  | 232m N   | Refuse Heap                 | 1890 | 677861   |
| L  | 235m NW  | Unspecified Heap            | 1968 | 739910   |
| J  | 235m E   | Unspecified Works           | 1976 | 752956   |
| J  | 235m E   | Unspecified Works           | 1967 | 752956   |
| L  | 235m NW  | Unspecified Heap            | 1928 | 777652   |
| L  | 235m NW  | Unspecified Heap            | 1908 | 777652   |
| L  | 236m NW  | Unspecified Old Shaft       | 1928 | 651797   |
| J  | 240m E   | Unspecified Ground Workings | 1908 | 648009   |
| L  | 240m NW  | Unspecified Heaps           | 1938 | 679636   |
| G  | 240m SW  | Industrial House            | 1851 | 676228   |
| J  | 241m E   | Unspecified Pit             | 1890 | 690676   |
| L  | 243m NW  | Unspecified Ground Workings | 1949 | 648012   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| L  | 245m NW  | Unspecified Disused Shaft         | 1968 | 664287   |
| L  | 247m NW  | Unspecified Old Shaft             | 1890 | 651798   |
| J  | 268m E   | Unspecified Ground Workings       | 1908 | 648007   |
| 7  | 272m NW  | Unspecified Heap                  | 1968 | 650724   |
| N  | 272m NE  | Cuttings                          | 1938 | 785694   |
| N  | 272m NE  | Cuttings                          | 1928 | 791147   |
| N  | 272m NE  | Cuttings                          | 1908 | 791147   |
| O  | 277m SE  | Unspecified Mill                  | 1976 | 657138   |
| J  | 279m E   | Unspecified Pit                   | 1938 | 732181   |
| J  | 280m E   | Unspecified Pit                   | 1928 | 732181   |
| 8  | 289m N   | Nursery                           | 1968 | 679932   |
| 9  | 305m E   | Unspecified Pit                   | 1938 | 690673   |
| N  | 309m NE  | Cuttings                          | 1890 | 720428   |
| I  | 312m SE  | Unspecified Works                 | 1976 | 678975   |
| K  | 316m N   | Gasometer                         | 1851 | 655098   |
| S  | 339m S   | Cotton Mills                      | 1851 | 659337   |
| S  | 342m SE  | Unspecified Mills                 | 1938 | 736780   |
| S  | 342m SE  | Unspecified Commercial/Industrial | 1891 | 764450   |
| S  | 343m SE  | Unspecified Mills                 | 1949 | 774364   |
| N  | 344m NE  | Cuttings                          | 1928 | 774562   |
| N  | 344m NE  | Cuttings                          | 1908 | 774562   |
| S  | 345m SE  | Unspecified Mills                 | 1928 | 783932   |
| S  | 345m SE  | Unspecified Mills                 | 1908 | 783932   |
| S  | 345m SE  | Unspecified Mill                  | 1975 | 657139   |
| N  | 347m NE  | Cuttings                          | 1890 | 728765   |
| N  | 348m NE  | Cuttings                          | 1938 | 733018   |
| 10 | 349m E   | Cuttings                          | 1908 | 642612   |
| N  | 351m NE  | Unspecified Pit                   | 1992 | 789169   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| N  | 351m NE  | Unspecified Pit                   | 1987 | 789169   |
| N  | 351m NE  | Unspecified Pit                   | 1975 | 789169   |
| S  | 353m S   | Unspecified Commercial/Industrial | 1968 | 764683   |
| S  | 358m SE  | Pump                              | 1851 | 675569   |
| 11 | 360m E   | Unspecified Holes                 | 1890 | 641025   |
| 12 | 364m N   | Pump                              | 1851 | 675542   |
| S  | 369m S   | Unspecified Commercial/Industrial | 1992 | 716726   |
| S  | 369m S   | Unspecified Commercial/Industrial | 1987 | 716726   |
| 13 | 378m NW  | Pump                              | 1851 | 675571   |
| U  | 380m S   | Unspecified Works                 | 1987 | 695987   |
| U  | 380m S   | Unspecified Works                 | 1975 | 695987   |
| V  | 381m SE  | Unspecified Works                 | 1976 | 678976   |
| S  | 398m S   | Chimney                           | 1975 | 744807   |
| S  | 398m S   | Chimney                           | 1968 | 744807   |
| V  | 408m SE  | Railway Building                  | 1967 | 707061   |
| V  | 408m SE  | Railway Building                  | 1954 | 707061   |
| V  | 408m SE  | Railway Building                  | 1938 | 738135   |
| V  | 412m SE  | Railway Building                  | 1928 | 772682   |
| V  | 412m SE  | Railway Building                  | 1908 | 772682   |
| 14 | 412m W   | Pump                              | 1851 | 675570   |
| 15 | 412m NE  | Unspecified Pit                   | 1928 | 690672   |
| X  | 420m W   | Unspecified Heap                  | 1928 | 650725   |
| X  | 421m W   | Unspecified Heap                  | 1975 | 726248   |
| X  | 421m W   | Unspecified Heap                  | 1968 | 726248   |
| X  | 423m W   | Unspecified Pit                   | 1949 | 690698   |
| U  | 424m S   | Unspecified Works                 | 1992 | 724497   |
| Y  | 425m N   | Refuse Heap                       | 1928 | 741081   |
| Y  | 444m N   | Police Station                    | 1890 | 680435   |



| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| Z  | 450m N   | Cuttings                    | 1928 | 751838   |
| Z  | 450m N   | Cuttings                    | 1908 | 751838   |
| AA | 453m N   | Cuttings                    | 1890 | 782893   |
| X  | 454m W   | Pump                        | 1851 | 675576   |
| Z  | 455m N   | Cuttings                    | 1938 | 751838   |
| Z  | 459m N   | Cuttings                    | 1992 | 746506   |
| Z  | 461m N   | Cuttings                    | 1987 | 746506   |
| Z  | 461m N   | Cuttings                    | 1975 | 766243   |
| V  | 464m E   | Unspecified Works           | 1967 | 678974   |
| AB | 464m S   | Chimney                     | 1968 | 684526   |
| V  | 465m E   | Unspecified Depot           | 1976 | 668801   |
| V  | 465m SE  | Railway Building            | 1967 | 735115   |
| V  | 465m SE  | Railway Building            | 1954 | 735115   |
| V  | 466m SE  | Railway Building            | 1938 | 694963   |
| V  | 468m SE  | Railway Building            | 1928 | 694963   |
| V  | 468m SE  | Railway Building            | 1908 | 694963   |
| Y  | 471m N   | Unspecified Ground Workings | 1975 | 648010   |
| Y  | 474m N   | Refuse Heap                 | 1938 | 742377   |
| Y  | 476m N   | Refuse Heap                 | 1908 | 741081   |
| V  | 484m SE  | Railway Buildings           | 1938 | 751928   |
| 16 | 485m W   | Pump                        | 1851 | 675575   |
| V  | 486m SE  | Railway Buildings           | 1928 | 714019   |
| V  | 486m SE  | Railway Buildings           | 1908 | 714019   |
| V  | 486m SE  | Railway Buildings           | 1954 | 744858   |
| V  | 487m SE  | Unspecified Depot           | 1976 | 668803   |
| V  | 488m E   | Unspecified Tank            | 1938 | 700358   |
| V  | 488m E   | Unspecified Tank            | 1928 | 700358   |
| V  | 491m E   | Unspecified Tank            | 1954 | 779309   |



| ID | Location | Land Use          | Date | Group ID |
|----|----------|-------------------|------|----------|
| V  | 494m E   | Refuse Heap       | 1938 | 730677   |
| V  | 494m E   | Refuse Heap       | 1928 | 730677   |
| AD | 495m NW  | Brick Works       | 1928 | 771809   |
| AD | 496m NW  | Unspecified Works | 1975 | 773531   |
| AD | 496m NW  | Unspecified Works | 1968 | 773531   |
| AD | 497m NW  | Brick Works       | 1938 | 716306   |
| 17 | 498m SE  | Unspecified Works | 1976 | 678972   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

### Records within 500m

**24**

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

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

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| G  | 206m SW  | Tanks            | 1996 | 92338    |
| G  | 207m SW  | Tanks            | 1982 | 94504    |
| G  | 207m SW  | Tanks            | 1988 | 94504    |
| P  | 320m E   | Unspecified Tank | 1910 | 94837    |
| P  | 320m E   | Unspecified Tank | 1930 | 95792    |
| P  | 320m E   | Unspecified Tank | 1939 | 99848    |
| K  | 349m N   | Unspecified Tank | 1974 | 84196    |
| N  | 351m NE  | Filter Tanks     | 1910 | 90105    |
| N  | 351m NE  | Filter Tanks     | 1930 | 90105    |
| N  | 351m NE  | Filter Tanks     | 1939 | 90105    |
| N  | 361m NE  | Filter Tanks     | 1930 | 88260    |
| K  | 407m N   | Unspecified Tank | 1930 | 99004    |
| K  | 407m N   | Unspecified Tank | 1939 | 99004    |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| K  | 415m N   | Unspecified Tank | 1930 | 100369   |
| K  | 416m N   | Unspecified Tank | 1939 | 91285    |
| K  | 421m N   | Unspecified Tank | 1910 | 84184    |
| K  | 432m N   | Unspecified Tank | 1930 | 97578    |
| K  | 432m N   | Unspecified Tank | 1939 | 97578    |
| AB | 472m S   | Unspecified Tank | 1972 | 84182    |
| AA | 486m N   | Unspecified Tank | 1890 | 84194    |
| AC | 487m N   | Tanks            | 1930 | 96459    |
| AC | 487m N   | Tanks            | 1939 | 96459    |
| AA | 494m N   | Unspecified Tank | 1939 | 84191    |
| V  | 495m E   | Unspecified Tank | 1976 | 84181    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

### Records within 500m

**48**

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

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

| ID       | Location       | Land Use                      | Date        | Group ID     |
|----------|----------------|-------------------------------|-------------|--------------|
| <b>A</b> | <b>On site</b> | <b>Electricity Substation</b> | <b>1996</b> | <b>56064</b> |
| <b>A</b> | <b>On site</b> | <b>Electricity Substation</b> | <b>1982</b> | <b>56064</b> |
| <b>A</b> | <b>On site</b> | <b>Electricity Substation</b> | <b>1988</b> | <b>56064</b> |
| B        | 62m S          | Electricity Substation        | 1996        | 57572        |
| B        | 62m S          | Electricity Substation        | 1988        | 57572        |
| B        | 62m S          | Electricity Substation        | 1982        | 57572        |
| E        | 231m SE        | Electricity Substation        | 1988        | 49316        |
| E        | 232m SE        | Electricity Substation        | 1996        | 49316        |
| E        | 232m SE        | Electricity Substation        | 1982        | 49316        |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| G  | 233m SW  | Electricity Substation | 1988 | 59270    |
| G  | 233m SW  | Electricity Substation | 1996 | 59270    |
| G  | 233m SW  | Electricity Substation | 1982 | 59270    |
| 6  | 246m SW  | Electricity Substation | 1982 | 45432    |
| O  | 278m SE  | Electricity Substation | 1987 | 52256    |
| O  | 279m SE  | Electricity Substation | 1996 | 50531    |
| O  | 294m SE  | Electricity Substation | 1976 | 55298    |
| Q  | 328m S   | Electricity Substation | 1985 | 47023    |
| Q  | 328m S   | Electricity Substation | 1972 | 47023    |
| Q  | 329m S   | Electricity Substation | 1988 | 58663    |
| Q  | 329m S   | Electricity Substation | 1988 | 47023    |
| Q  | 329m S   | Electricity Substation | 1995 | 47023    |
| Q  | 329m S   | Electricity Substation | 1995 | 47023    |
| Q  | 331m S   | Electricity Substation | 1985 | 52063    |
| Q  | 332m S   | Electricity Substation | 1995 | 52063    |
| Q  | 332m S   | Electricity Substation | 1995 | 52063    |
| T  | 355m NW  | Electricity Substation | 1989 | 54235    |
| T  | 356m NW  | Electricity Substation | 1998 | 56955    |
| T  | 356m NW  | Electricity Substation | 1984 | 56955    |
| T  | 356m NW  | Electricity Substation | 1988 | 56955    |
| W  | 409m NE  | Electricity Substation | 1987 | 54132    |
| W  | 409m NE  | Electricity Substation | 1988 | 54132    |
| W  | 410m NE  | Electricity Substation | 1998 | 54132    |
| X  | 412m W   | Electricity Substation | 1990 | 47552    |
| X  | 412m W   | Electricity Substation | 1968 | 47552    |
| X  | 413m W   | Electricity Substation | 1992 | 47552    |
| X  | 413m W   | Electricity Substation | 1979 | 47552    |
| X  | 413m W   | Electricity Substation | 1988 | 47552    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| U  | 452m S   | Electricity Substation | 1995 | 49782    |
| U  | 452m S   | Electricity Substation | 1995 | 49782    |
| U  | 452m S   | Electricity Substation | 1988 | 49782    |
| V  | 483m E   | Electricity Substation | 1987 | 48646    |
| V  | 484m E   | Electricity Substation | 1996 | 48646    |
| AE | 499m SE  | Electricity Substation | 1996 | 58298    |
| AE | 499m SE  | Electricity Substation | 1993 | 58298    |
| AE | 499m SE  | Electricity Substation | 1975 | 49947    |
| AE | 499m SE  | Electricity Substation | 1989 | 49947    |
| AE | 499m SE  | Electricity Substation | 1984 | 58298    |
| AE | 499m SE  | Electricity Substation | 1983 | 58298    |

*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**

**19**

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

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

| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| C  | 98m S    | Garage   | 1996 | 18167    |
| C  | 99m S    | Garage   | 1988 | 18167    |

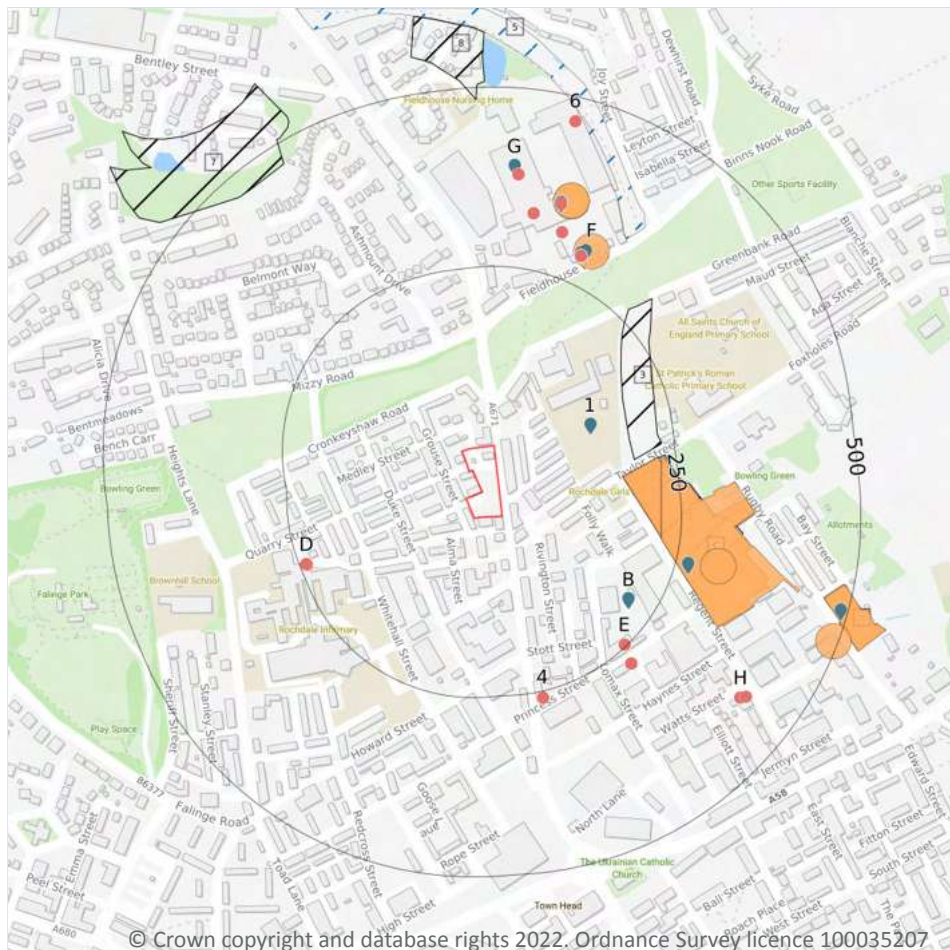


| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| C  | 100m S   | Garage   | 1982 | 14943    |
| F  | 240m S   | Garage   | 1982 | 18975    |
| F  | 240m S   | Garage   | 1958 | 17343    |
| F  | 240m S   | Garage   | 1959 | 17343    |
| M  | 265m SE  | Garage   | 1982 | 19290    |
| F  | 271m S   | Garage   | 1995 | 18975    |
| F  | 271m S   | Garage   | 1995 | 18975    |
| F  | 271m S   | Garage   | 1988 | 18975    |
| F  | 271m S   | Garage   | 1959 | 17012    |
| F  | 271m S   | Garage   | 1959 | 19479    |
| F  | 271m S   | Garage   | 1985 | 19479    |
| F  | 271m S   | Garage   | 1972 | 19479    |
| M  | 279m S   | Garage   | 1985 | 19290    |
| R  | 337m SE  | Garage   | 1995 | 17319    |
| R  | 337m SE  | Garage   | 1995 | 17319    |
| R  | 338m SE  | Garage   | 1988 | 17319    |
| R  | 338m SE  | Garage   | 1985 | 17319    |

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



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

### 3.1 Active or recent landfill

#### Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 36**

| ID | Location | Details                                                                                  |                                                                                                                                                                                        |
|----|----------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5  | 342m NE  | Operator: Rochdale M B C<br>Site Address: Fieldhouse Road, Rochdale,<br>Lancashire, OL12 | WML Number: 53951<br>EPR Reference: RMB001<br>Landfill type: A05: Landfill taking Non-Biodegradable Wastes<br>Status: Closure<br>IPPC Reference: -<br>EPR Number: EA/EPR/LP3791CR/A001 |

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



### 3.2 Historical landfill (BGS records)

Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

4

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

Features are displayed on the Waste and landfill map on **page 36**

| ID | Location | Details                                                                                                                                                                      |                                                                                                                                                                                                  |                                                                                                                                        |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 2  | 178m E   | Site Address: Carrex Metals Limited, Regent Street, Rochdale, Greater Manchester<br>Licence Holder Address: -                                                                | Waste Licence: -<br>Site Reference: D085<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: -                               | Operator: -<br>Licence Holder: -<br>First Recorded -<br>Last Recorded: -                                                               |
| 3  | 187m E   | Site Address: Disused Railway cutting between, Taylor Street and Greenbank Road, Rochdale<br>Licence Holder Address: Rochdale MBC, Telegraph House, Baillie Street, Rochdale | Waste Licence: Yes<br>Site Reference: D086, RD/LIC/504/88<br>Waste Type: Inert<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 20/04/1988<br>Licence Surrender: - | Operator: -<br>Licence Holder: Rochdale Borough Planning and Estates Officer<br>First Recorded 30/04/1988<br>Last Recorded: 31/10/1988 |

| ID | Location | Details                                                                                                                                              |                                                                                                                                                                                                           |                                                                                                                        |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| 7  | 468m NW  | Site Address: Land Opposite Oxford Mill, Bentley Street, Rochdale<br>Licence Holder Address: Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale | Waste Licence: Yes<br>Site Reference: RD/LIC/343/84, D008<br>Waste Type: Inert<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 22/07/1984<br>Licence Surrender: 22/05/1990 | Operator: -<br>Licence Holder: J Bright and Brothers Limited<br>First Recorded 01/08/1984<br>Last Recorded: 30/04/1990 |
| 8  | 483m N   | Site Address: Fieldhouse Mills, Fieldhouse Road, Rochdale, Greater Manchester<br>Licence Holder Address: PO Box 26, Rochdale                         | Waste Licence: Yes<br>Site Reference: RD/LIC/144/78,D001<br>Waste Type: Industrial<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 05/10/1978<br>Licence Surrender: -      | Operator: -<br>Licence Holder: J Bright and Brothers Limited<br>First Recorded -<br>Last Recorded: -                   |

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

### 3.5 Historical waste sites

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>12</b> |
|----------------------------|-----------|

Waste site records derived from Local Authority planning records and high detail historical mapping. Features are displayed on the Waste and landfill map on **page 36**

| ID | Location | Address           | Further Details                                                                                                                            | Date |
|----|----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|
| A  | 172m E   | Site Address: N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1988 |
| A  | 173m E   | Site Address: N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1996 |
| A  | 173m E   | Site Address: N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1981 |



| ID | Location | Address                                                                                                           | Further Details                                                                                                                                                                                                                                                                                                                                                                                                           | Date |
|----|----------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| C  | 221m E   | Site Address: N/A                                                                                                 | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                | 1996 |
| C  | 221m E   | Site Address: N/A                                                                                                 | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                | 1987 |
| F  | 278m NE  | Site Address: Fieldhouse Industrial Estate, Units D13/14, Fieldhouse Road, ROCHDALE, Greater Manchester, OL12 0AD | Type of Site: Waste Transfer (COU)<br>Planning application reference: D29405<br>Description: Comprises change of use from industrial into storage, sorting & transfer of waste chemicals. An application (ref: D29405) for Detailed Planning permission was submitted to Rochdale B.C. on 10th May 1993.<br>Data source: Historic Planning Application<br>Data Type: Point                                                | -    |
| C  | 284m E   | Site Address: Taylor Street, ROCHDALE, Greater Manchester, OL12 0                                                 | Type of Site: Waste Transfer Station<br>Planning application reference: D29276<br>Description: Scheme includes perimeter screen fencing & concrete hardstanding with reduction of level of part of site. Portable messroom included. An application (ref: D29276) for Detailed Planning permission was submitted to Rochdale B.C. on 15th January 1993.<br>Data source: Historic Planning Application<br>Data Type: Point | -    |
| F  | 332m N   | Site Address: Fieldhouse Ind Estate, Unit E1, Fieldhouse Road, ROCHDALE, Greater Manchester, OL12 0AA             | Type of Site: Waste Transfer Station (Conversion)<br>Planning application reference: 05/D45304<br>Description: Scheme comprises of conversion to waste transfer station. An application (ref: 05/D45304) for detailed planning permission was granted by Rochdale B.C. Planning decision obtained<br>Data source: Historic Planning Application<br>Data Type: Point                                                       | -    |



| ID | Location | Address                                                                                                        | Further Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date       |
|----|----------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| F  | 333m N   | Site Address: D12 & D15, Fieldhouse Industrial Estate, Fieldhouse Road, ROCHDALE, Greater Manchester, OL12 0AA | Type of Site: Waste Transfer Station<br>Planning application reference: 08/D51369<br>Description: Scheme comprises change of use from storage/office to waste transfer station to extend operation. An application (ref: 08/D51369) for detailed planning permission was granted by Rochdale B.C. Planning decision obtained<br>Data source: Historic Planning Application<br>Data Type: Point                                                                                               | 01/07/2009 |
| I  | 461m E   | Site Address: N/A                                                                                              | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                   | 1987       |
| I  | 462m E   | Site Address: N/A                                                                                              | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                   | 1996       |
| I  | 468m E   | Site Address: Topline House, 1, Lawton Street, ROCHDALE, Greater Manchester, OL12 0LQ                          | Type of Site: Recycling Unit (Conversion)<br>Planning application reference: 11/D54898<br>Description: Scheme comprises change of use to non ferrous & ferrous metal reclaimers & processors, including construction of 1500mm high external storage area for waste tank. An application (ref: 11/D54898) for detailed planning permission was granted by Rochdale B. C. A detailed planning application has been granted.<br>Data source: Historic Planning Application<br>Data Type: Point | 07/04/2012 |

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

### 3.6 Licensed waste sites

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>23</b> |
|----------------------------|-----------|

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

Features are displayed on the Waste and landfill map on **page 36**

| ID | Location | Details                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                   |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 136m E   | Site Name: Regent Street Transfer Station<br>Site Address: Regent Street, Rochdale, Lancashire, OL12 0HQ<br>Correspondence Address: Lancashire House, 24, Winckley Square, Preston, Lancashire, PR1 3JJ                                          | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: LA001<br>EPR reference: -<br>Operator: S I T A ( Lancashire ) Ltd<br>Waste Management licence No: 53747<br>Annual Tonnage: 6250        | Issue Date: 24/12/1991<br>Effective Date: 29/09/2001<br>Modified: 28/09/2001<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified    |
| B  | 211m SE  | Site Name: Princess Street Depot<br>Site Address: Highways And Maintenance Unit, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: Highways And Maintenance Unit, Princess Street Depot, Rochdale, Lancashire, OL12 0HA | Type of Site: Transfer Station taking Non-Biodegradable Wastes<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MC001<br>EPR reference: -<br>Operator: Alfred Mc Alpine Construction Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999              | Issue Date: 31/07/2002<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                        |
| B  | 211m SE  | Site Name: Princess Street Depot<br>Site Address: Princess Street Depot, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: -                                                                                            | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: BAL081<br>EPR reference: EA/EPR/FP3298VC/T001<br>Operator: Balfour Beatty Workplace Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999 | Issue Date: 31/07/2002<br>Effective Date: 31/12/2009<br>Modified: 31/01/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |

| ID | Location | Details                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                   |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 211m SE  | Site Name: Princess Street Depot<br>Site Address: Highways And Maintenance Unit, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: Highways And Maintenance Unit, Princess Street Depot, Rochdale, Lancashire, OL12 0HA | Type of Site: Transfer Station taking Non-Biodegradable Wastes<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MC001<br>EPR reference: -<br>Operator: Alfred Mc Alpine Government Services Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999               | Issue Date: 31/07/2002<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                        |
| B  | 211m SE  | Site Name: Rochdale Depot<br>Site Address: Rochdale Depot, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: -                                                                                                          | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: BAL161<br>EPR reference: EA/EPR/AB3006UT/T001<br>Operator: Balfour Beatty Living Places Limited<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999 | Issue Date: 31/07/2002<br>Effective Date: 11/12/2013<br>Modified: 31/01/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |
| B  | 211m SE  | Site Name: Princess Street Depot<br>Site Address: Highways And Maintenance Unit, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: -                                                                                    | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MC001<br>EPR reference: -<br>Operator: Alfred Mc Alpine Government Services Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 0                     | Issue Date: 31/07/2002<br>Effective Date: -<br>Modified: 31/01/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified             |

| ID | Location | Details                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                   |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 211m SE  | Site Name: Princess Street Depot<br>Site Address: Highways And Maintenance Unit, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: Mr Nigel Dyer, Highways And Maintenance Unit, Princess Street Depot, Rochdale, Lancashire, OL12 0HA | Type of Site: Transfer Station taking Non-Biodegradable Wastes<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MC001<br>EPR reference: -<br>Operator: Alfred Mc Alpine Construction Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999                   | Issue Date: 31/07/2002<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                        |
| B  | 211m SE  | Site Name: Rochdale Depot<br>Site Address: Rochdale Depot, Princess Street, Rochdale, Lancashire, OL12 0HA<br>Correspondence Address: -                                                                                                                         | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: BAL161<br>EPR reference: EA/EPR/AB3006UT/T001<br>Operator: Balfour Beatty Living Places Ltd<br>Waste Management licence No: 50089<br>Annual Tonnage: 24999  | Issue Date: 31/07/2002<br>Effective Date: 11/12/2013<br>Modified: 31/01/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |
| C  | 267m E   | Site Name: Regent Street Transfer Station L<br>Site Address: Land/premises At, Regent Street, Rochdale, Lancashire, OL12 0HQ<br>Correspondence Address: -                                                                                                       | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CAS003<br>EPR reference: EA/EPR/TP3496CG/T003<br>Operator: P Casey Enviro Ltd<br>Waste Management licence No: 53747<br>Annual Tonnage: 6250 | Issue Date: 24/12/1991<br>Effective Date: 22/04/2004<br>Modified: 28/09/2001<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred |



| ID | Location | Details                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                    |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C  | 267m E   | Site Name: Regent Street Transfer Station L<br>Site Address: Land/premises At, Regent Street, Rochdale, Lancashire, OL12 0HQ<br>Correspondence Address: -                                                                                                          | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: CAS003<br>EPR reference: EA/EPR/TP3496CG/T003<br>Operator: P Casey Enviro Ltd<br>Waste Management licence No: 53747<br>Annual Tonnage: 6250 | Issue Date: 24/12/1991<br>Effective Date: 22/04/2004<br>Modified: 28/09/2001<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred                  |
| F  | 292m NE  | Site Name: Fieldhouse Industrial Estate Hazardous Waste<br>Site Address: Units D13 & D14, Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: Bridge House, Ashley Road, Hale, Altrincham, Cheshire, WA14 2UT | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: AST003<br>EPR reference: -<br>Operator: Astec Chemical Waste Services Limited<br>Waste Management licence No: 50379<br>Annual Tonnage: 0                    | Issue Date: 14/07/2005<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                                         |
| F  | 292m NE  | Site Name: Fieldhouse Industrial Estate Hazardous Waste<br>Site Address: Units D13 & D14, Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: Regency Chambers, 5, Jubilee Way, Bury, Lancashire, BL9 0JW     | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: AST003<br>EPR reference: -<br>Operator: Astec Chemical Waste Services Limited<br>Waste Management licence No: 50379<br>Annual Tonnage: 50000                | Issue Date: 14/07/2005<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                                         |
| F  | 292m NE  | Site Name: Fieldhouse Industrial Estate<br>Site Address: Units 12d, 13d, 14d & 15d, Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: -                                                                     | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: AUG007<br>EPR reference: EA/EPR/BP3694SU/S003<br>Operator: Augean Treatment Ltd<br>Waste Management licence No: 50379<br>Annual Tonnage: 0                  | Issue Date: 14/07/2005<br>Effective Date: 26/09/2008<br>Modified: 19/06/2009<br>Surrendered Date: Jan 5 2016 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |



| ID | Location | Details                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                |                                                                                                                                                                |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 298m NE  | Site Name: Astec Chemical Waste Services Ltd<br>Site Address: Fieldhouse Ind Est, Unit D13/1, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: -                                                        | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ACW001<br>EPR reference: EA/EPR/GP3396CV/A001<br>Operator: Astec Chemical Waste Services Ltd<br>Waste Management licence No: 53721<br>Annual Tonnage: 417   | Issue Date: 20/07/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired                    |
| F  | 349m N   | Site Name: Astec Chemical Waste Services Ltd<br>Site Address: Fieldhouse Ind Est, Unit D13, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: 5 Regency Chambers, Jubilee Way, Bury, Lancashire, BL9 0JW | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ACW001<br>EPR reference: -<br>Operator: Associated Technology Ltd<br>Waste Management licence No: 53721<br>Annual Tonnage: 417                              | Issue Date: 20/07/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                     |
| F  | 349m N   | Site Name: Roydon Polythene ( Exports ) Ltd<br>Site Address: Fieldhouse Industrial Estate, Unit D7, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: -                                                  | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: RPL001<br>EPR reference: EA/EPR/GP3592CC/V002<br>Operator: Roydon Polythene ( Exports ) Limited<br>Waste Management licence No: 53462<br>Annual Tonnage: 24999 | Issue Date: 10/03/1996<br>Effective Date: 13/03/2003<br>Modified: 12/03/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

| ID | Location | Details                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                     |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 349m N   | Site Name: Roydon Polythene Ltd<br>Site Address: Fieldhouse Industrial Estate, Unit D7, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: - | Type of Site: Physical Treatment Facility<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: RPL001<br>EPR reference: EA/EPR/GP3592CC/S004<br>Operator: Roydon Polythene Ltd<br>Waste Management licence No: 53462<br>Annual Tonnage: 0                                                             | Issue Date: 10/03/1996<br>Effective Date: 13/03/2003<br>Modified: 12/03/2003<br>Surrendered Date: May 15 2018 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |
| F  | 349m N   | Site Name: Rainford H W R C<br>Site Address: Land/premises At, Southern Lane, Rainford, St Helens, Merseyside, WA11 8EY<br>Correspondence Address: -                 | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: VEO084<br>EPR reference: EA/EPR/EP3692LY/S002<br>Operator: Veolia Environmental Services Merseyside & Halton Ltd<br>Waste Management licence No: 53641<br>Annual Tonnage: 483256    | Issue Date: 21/08/1995<br>Effective Date: 11/11/2009<br>Modified: -<br>Surrendered Date: Oct 27 2014 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered          |
| F  | 349m N   | Site Name: Rainford H W R C<br>Site Address: Land/premises At, Southern Lane, Rainford, St Helens, Merseyside, WA11 8EY<br>Correspondence Address: -                 | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: VEO084<br>EPR reference: EA/EPR/EP3692LY/S002<br>Operator: Veolia Environmental Services Merseyside & Halton Ltd<br>Waste Management licence No: 53641<br>Annual Tonnage: 483256 | Issue Date: 21/08/1995<br>Effective Date: 11/11/2009<br>Modified: -<br>Surrendered Date: Oct 27 2014 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered          |



| ID | Location | Details                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                      |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| G  | 389m N   | Site Name: Roydon Polythene Exports Ltd<br>Site Address: E1 Fieldhouse Ind Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ROY006<br>EPR reference: EA/EPR/AP3494CK/A001<br>Operator: Mr Wilfred Sumner<br>Waste Management licence No: 50433<br>Annual Tonnage: 74999            | Issue Date: 26/01/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued           |
| G  | 389m N   | Site Name: Roydon Polythene Exports Ltd<br>Site Address: E1 Fieldhouse Ind Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: - | Type of Site: Material Recycling Treatment Facility<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: ROY006<br>EPR reference: EA/EPR/AP3494CK/A001<br>Operator: Roydon Polythene Exports Ltd<br>Waste Management licence No: 50433<br>Annual Tonnage: 74999 | Issue Date: 26/01/2006<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued           |
| G  | 389m N   | Site Name: Roydon Polythene Ltd<br>Site Address: E1 Fieldhouse Ind Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 0AA<br>Correspondence Address: -         | Type of Site: Material Recycling Treatment Facility<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GRL003<br>EPR reference: EA/EPR/AP3494CK/A001<br>Operator: Grace Recycling Limited<br>Waste Management licence No: 50433<br>Annual Tonnage: 74999      | Issue Date: 26/01/2006<br>Effective Date: 07/10/2014<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Revoked |



| ID | Location | Details                                                                                                                               |                                                                                                                                                                                                                                                                                       |                                                                                                                                                       |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| I  | 490m E   | Site Name: D Howarth Vehicle Dismantlers<br>Site Address: 80, Rugby Road, Rochdale, Lancashire, OL12 0DY<br>Correspondence Address: - | Type of Site: Metal Recycling Site (Vehicle Dismantler)<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: DHO001<br>EPR reference: EA/EPR/HP3096CF/V002<br>Operator: Howarth Dennis<br>Waste Management licence No: 53753<br>Annual Tonnage: 2100 | Issue Date: 25/02/1994<br>Effective Date: -<br>Modified: 31/03/2003<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

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

### 3.7 Waste exemptions

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>40</b> |
|----------------------------|-----------|

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 36**

| ID | Location | Site                                                             | Reference          | Category                 | Sub-Category                | Description                                              |
|----|----------|------------------------------------------------------------------|--------------------|--------------------------|-----------------------------|----------------------------------------------------------|
| D  | 241m SW  | WHITEHALL STREET, ROCHDALE, OL12 0NB                             | WEX219682          | Treating waste exemption | Not on a farm               | Sorting and de-naturing of controlled drugs for disposal |
| D  | 241m SW  | WHITEHALL STREET, ROCHDALE, OL12 0NB                             | WEX223016          | Treating waste exemption | Not on a farm               | Sorting and de-naturing of controlled drugs for disposal |
| D  | 241m SW  | WHITEHALL STREET, ROCHDALE, OL12 0NB                             | WEX074492          | Treating waste exemption | Not on a farm               | Sorting and de-naturing of controlled drugs for disposal |
| D  | 241m SW  | Rochdale Infirmary, WHITEHALL STREET, ROCHDALE, OL12 0NB         | WEX076565          | Treating waste exemption | Not on a farm               | Sorting and de-naturing of controlled drugs for disposal |
| D  | 242m W   | Rochdale Infirmary Whitehall Street Rochdale Lancashire OL12 0NB | EPR/TF0130NR /A001 | Treating waste exemption | Non-Agricultural Waste Only | Sorting and de-naturing of controlled drugs for disposal |
| E  | 247m SE  | BBLP Princess Street Depot Princess Street OL12 0HA              | EPR/XF0006V N/A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in secure containers                    |
| E  | 247m SE  | BBLP Princess Street Depot Princess Street OL12 0HA              | EPR/XF0006V N/A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in a secure place                       |



| ID | Location | Site                                                                                               | Reference             | Category                 | Sub-Category                | Description                                              |
|----|----------|----------------------------------------------------------------------------------------------------|-----------------------|--------------------------|-----------------------------|----------------------------------------------------------|
| E  | 247m SE  | BBLP Princess Street Depot<br>Princess Street OL12 0HA                                             | EPR/XF0006V<br>N/A001 | Using waste exemption    | Non-Agricultural Waste Only | Use of waste in construction                             |
| E  | 247m SE  | BBLP Princess Street Depot<br>Princess Street OL12 0HA                                             | EPR/XF0006V<br>N/A001 | Using waste exemption    | Non-Agricultural Waste Only | Use of waste for a specified purpose                     |
| 4  | 259m S   | 48, WHITWORTH ROAD,<br>ROCHDALE, OL12 0EZ                                                          | WEX227128             | Treating waste exemption | Not on a farm               | Sorting and de-naturing of controlled drugs for disposal |
| E  | 273m SE  | Balfour Beatty Living Places Ltd, Princess Street Depot,<br>Princess Street, Rochdale,<br>OL12 0HA | WEX159308             | Using waste exemption    | Not on a Farm               | Use of waste for a specified purpose                     |
| E  | 273m SE  | Balfour Beatty Living Places Ltd, Princess Street Depot,<br>Princess Street, Rochdale,<br>OL12 0HA | WEX159308             | Using waste exemption    | Not on a Farm               | Use of waste in construction                             |
| E  | 273m SE  | Balfour Beatty Living Places Ltd, Princess Street Depot,<br>Princess Street, Rochdale,<br>OL12 0HA | WEX159308             | Storing waste exemption  | Not on a Farm               | Storage of waste in secure containers                    |
| E  | 273m SE  | Balfour Beatty Living Places Ltd, Princess Street Depot,<br>Princess Street, Rochdale,<br>OL12 0HA | WEX159308             | Storing waste exemption  | Not on a Farm               | Storage of waste in a secure place                       |
| F  | 290m NE  | UNIT D13, FIELDHOUSE INDUSTRIAL ESTATE,<br>FIELDHOUSE ROAD,<br>ROCHDALE, OL12 0AA                  | WEX235924             | Storing waste exemption  | Not on a farm               | Storage of waste in a secure place                       |
| F  | 290m NE  | UNIT D13, FIELDHOUSE INDUSTRIAL ESTATE,<br>FIELDHOUSE ROAD,<br>ROCHDALE, OL12 0AA                  | WEX235924             | Storing waste exemption  | Not on a farm               | Storage of waste in secure containers                    |
| F  | 290m NE  | UNIT D13, FIELDHOUSE INDUSTRIAL ESTATE,<br>FIELDHOUSE ROAD,<br>ROCHDALE, OL12 0AA                  | WEX090380             | Storing waste exemption  | Not on a farm               | Storage of waste in secure containers                    |
| F  | 290m NE  | UNIT D13, FIELDHOUSE INDUSTRIAL ESTATE,<br>FIELDHOUSE ROAD,<br>ROCHDALE, OL12 0AA                  | WEX090380             | Storing waste exemption  | Not on a farm               | Storage of waste in a secure place                       |
| F  | 311m N   | Unit D13 Fieldhouse Ind Est<br>Fieldhouse Road<br>Rochdale OL12 0AA                                | EPR/VF0936W<br>H/A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in secure containers                    |



| ID | Location | Site                                                                                             | Reference             | Category                    | Sub-Category                                          | Description                                                   |
|----|----------|--------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|-------------------------------------------------------|---------------------------------------------------------------|
| F  | 311m N   | Unit D13 Fieldhouse Ind<br>Est Fieldhouse Road<br>Rochdale OL12 0AA                              | EPR/VF0936W<br>H/A001 | Storing waste<br>exemption  | Non-Agricultural<br>Waste Only                        | Storage of waste in a secure<br>place                         |
| F  | 311m N   | Unit D13 Fieldhouse Ind<br>Est Rochdale Lancs OL12<br>0AA                                        | EPR/YF0335AB<br>/A001 | Storing waste<br>exemption  | Non-Agricultural<br>Waste Only                        | Storage of waste in secure<br>containers                      |
| F  | 311m N   | Unit D13 Fieldhouse Ind<br>Est Rochdale Lancs OL12<br>0AA                                        | EPR/YF0335AB<br>/A001 | Storing waste<br>exemption  | Non-Agricultural<br>Waste Only                        | Storage of waste in a secure<br>place                         |
| F  | 328m N   | Unit D7 Fieldhouse<br>Industrial Estate Rochdale<br>Lancashire OL12 0AA                          | EPR/AF0435N<br>V/A001 | Using waste<br>exemption    | Both<br>agricultural and<br>non-agricultural<br>waste | Use of waste for a specified<br>purpose                       |
| F  | 328m N   | B1 Rochdale lancashire<br>OL12 0AA                                                               | EPR/SF0836YG<br>/A001 | Storing waste<br>exemption  | Both<br>agricultural and<br>non-agricultural<br>waste | Storage of waste in a secure<br>place                         |
| F  | 328m N   | B1 Rochdale lancashire<br>OL12 0AA                                                               | EPR/SF0836YG<br>/A001 | Treating waste<br>exemption | Both<br>agricultural and<br>non-agricultural<br>waste | Sorting mixed waste                                           |
| F  | 328m N   | B1 Rochdale lancashire<br>OL12 0AA                                                               | EPR/SF0836YG<br>/A001 | Using waste<br>exemption    | Both<br>agricultural and<br>non-agricultural<br>waste | Use of waste for a specified<br>purpose                       |
| F  | 328m N   | B1 Rochdale lancashire<br>OL12 0AA                                                               | EPR/SF0836YG<br>/A001 | Using waste<br>exemption    | Both<br>agricultural and<br>non-agricultural<br>waste | Use of waste to<br>manufacture finished goods                 |
| F  | 328m N   | Fieldhouse Industrial<br>Estate Unit D5-D6<br>Fieldhouse Road<br>ROCHDALE Lancashire<br>OL12 0AA | EPR/EF0305P<br>W/A001 | Storing waste<br>exemption  | Non-Agricultural<br>Waste Only                        | Storage of waste in a secure<br>place                         |
| F  | 328m N   | Fieldhouse Industrial<br>Estate Unit D5-D6<br>Fieldhouse Road<br>ROCHDALE Lancashire<br>OL12 0AA | EPR/EF0305P<br>W/A001 | Treating waste<br>exemption | Non-Agricultural<br>Waste Only                        | Preparatory treatments<br>(baling, sorting, shredding<br>etc) |

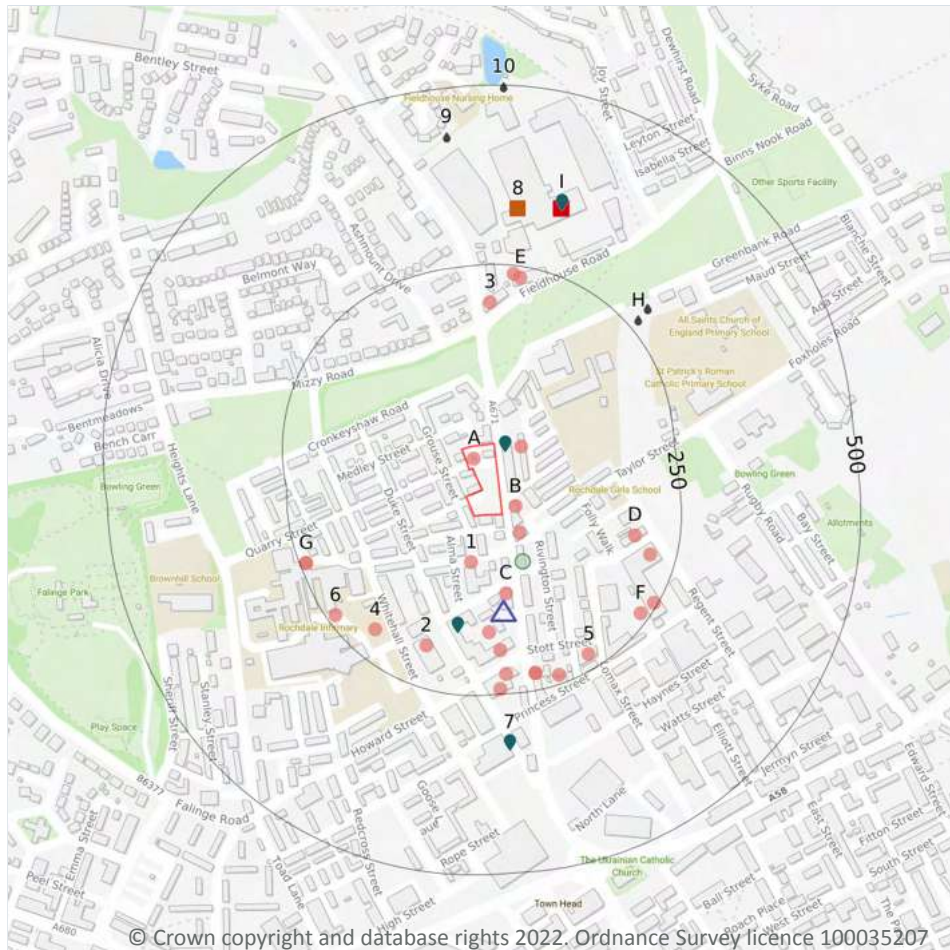


| ID | Location | Site                                                                                            | Reference          | Category                 | Sub-Category                | Description                                                                        |
|----|----------|-------------------------------------------------------------------------------------------------|--------------------|--------------------------|-----------------------------|------------------------------------------------------------------------------------|
| F  | 349m N   | CHD MANUFACTURING LTD, UNIT B1 FIELDHOUSE INDUSTRIAL ESTATE, FIELDHOUSE ROAD, ROCHDALE, OL120AA | WEX057917          | Using waste exemption    | Not on a farm               | Burning of waste as a fuel in a small appliance                                    |
| G  | 379m N   | Grace Recycling Ltd Unit E 1 Fieldhouse Road OL120AA                                            | EPR/HE5149LL /A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in secure containers                                              |
| G  | 379m N   | Grace Recycling Ltd Unit E 1 Fieldhouse Road OL120AA                                            | EPR/HE5149LL /A001 | Treating waste exemption | Non-Agricultural Waste Only | Cleaning, washing, spraying or coating relevant waste                              |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX254255          | Storing waste exemption  | Not on a farm               | Storage of waste in a secure place                                                 |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX254255          | Treating waste exemption | Not on a farm               | Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX194890          | Treating waste exemption | Not on a farm               | Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX113338          | Storing waste exemption  | Not on a farm               | Storage of waste in a secure place                                                 |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX113338          | Treating waste exemption | Not on a farm               | Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling |
| H  | 418m SE  | PIONEER HOUSE, REGENT STREET, ROCHDALE, OL12 0HQ                                                | WEX031551          | Treating waste exemption | Not on a farm               | Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling |
| H  | 422m SE  | Pioneer House Regent Street ROCHDALE Lancashire OL12 0HQ                                        | EPR/EH0276CE /A001 | Treating waste exemption | Non-Agricultural Waste Only | Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling |
| 6  | 466m N   | Fieldhouse Industrial Estate Unit C15 Fieldhouse Road ROCHDALE Lancashire OL12 0AA              | EPR/BE5383N R/A001 | Using waste exemption    | Non-Agricultural Waste Only | Burning of waste as a fuel in a small appliance                                    |

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



## 4 Current industrial land use



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

### 4.1 Recent industrial land uses

Records within 250m

26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 52**

| ID | Location | Company                 | Address                                                         | Activity                | Category                      |
|----|----------|-------------------------|-----------------------------------------------------------------|-------------------------|-------------------------------|
| A  | On site  | Electricity Sub Station | Greater Manchester, OL12                                        | Electrical Features     | Infrastructure and Facilities |
| B  | 19m E    | Parkhills Hire Ltd      | 128-130, Whitworth Road, Rochdale, Greater Manchester, OL12 0JG | Vehicle Hire and Rental | Hire Services                 |



| ID | Location | Company                                      | Address                                                                                | Activity                                                | Category                      |
|----|----------|----------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|-------------------------------|
| B  | 35m SE   | Car Body Supplies Rochdale                   | 114, Whitworth Road, Rochdale, Greater Manchester, OL12 OJG                            | Paints, Varnishes and Lacquers                          | Industrial Products           |
| A  | 37m E    | Sweet Things - Cakes by Rebecca              | 21, David Street, Rochdale, Greater Manchester, OL12 OJF                               | Baking and Confectionery                                | Foodstuffs                    |
| 1  | 64m S    | Electricity Sub Station                      | Greater Manchester, OL12                                                               | Electrical Features                                     | Infrastructure and Facilities |
| C  | 110m S   | Anwar & Co Failsworth Service Station        | 111, Whitworth Road, Rochdale, Greater Manchester, OL12 ORA                            | Petrol and Fuel Stations                                | Road and Rail                 |
| C  | 163m S   | Saw Mills                                    | Greater Manchester, OL12                                                               | Wood Products Including Charcoal, Paper, Card and Board | Industrial Products           |
| D  | 187m E   | Works                                        | Greater Manchester, OL12                                                               | Unspecified Works Or Factories                          | Industrial Features           |
| C  | 189m S   | Kwik-Fit (GB) Limited                        | Whitworth Road, Rochdale, Greater Manchester, OL12 OQX                                 | Vehicle Repair, Testing and Servicing                   | Repair and Servicing          |
| 2  | 192m S   | Rochdale Ambulance Station                   | Whitehall Street, Rochdale, Greater Manchester, OL12 OLE                               | Ambulance and Medical Transportation Services           | Health Support Services       |
| 3  | 198m N   | Timeware UK                                  | 3, Fieldhouse Road, Rochdale, Greater Manchester, OL12 OAD                             | Office and Shop Equipment                               | Industrial Products           |
| 4  | 210m SW  | Electricity Sub Station                      | Greater Manchester, OL12                                                               | Electrical Features                                     | Infrastructure and Facilities |
| D  | 213m E   | Pure Filters                                 | Unit 1-2 Alma Industrial Estate, Regent Street, Rochdale, Greater Manchester, OL12 OHQ | Air and Water Filtration                                | Industrial Products           |
| C  | 222m S   | Spring Court Auto Centre & Motorcycle Centre | Spring Court Autocare, Howard Street, Rochdale, Greater Manchester, OL12 OLU           | Vehicle Repair, Testing and Servicing                   | Repair and Servicing          |
| C  | 226m S   | M O T Test & Repair Centre                   | 70, Whitworth Road, Rochdale, Greater Manchester, OL12 OEZ                             | Vehicle Repair, Testing and Servicing                   | Repair and Servicing          |
| C  | 226m S   | The M O T & Repair Centre                    | 70, Whitworth Road, Rochdale, Greater Manchester, OL12 OEZ                             | Vehicle Repair, Testing and Servicing                   | Repair and Servicing          |



| ID | Location | Company                     | Address                                                                                          | Activity                                        | Category                                |
|----|----------|-----------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|
| 5  | 229m SE  | Works                       | Greater Manchester, OL12                                                                         | Unspecified Works Or Factories                  | Industrial Features                     |
| E  | 235m N   | Cleansing Service Group Ltd | Unit F1-F4 Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Greater Manchester, OL12 0AA | Recycling, Reclamation and Disposal             | Recycling Services                      |
| F  | 237m SE  | Electricity Sub Station     | Greater Manchester, OL12                                                                         | Electrical Features                             | Infrastructure and Facilities           |
| C  | 237m S   | N R G Telecom Ltd           | 33, Princess Street, Rochdale, Greater Manchester, OL12 0HA                                      | Radar and Telecommunications Equipment          | Industrial Products                     |
| 6  | 238m SW  | Electricity Sub Station     | Greater Manchester, OL12                                                                         | Electrical Features                             | Infrastructure and Facilities           |
| E  | 238m N   | Astra Alarm Systems Ltd     | Unit F5 Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Greater Manchester, OL12 0AA    | Electronic Equipment                            | Industrial Products                     |
| G  | 241m SW  | Rochdale M R I Centre       | Whitehall Street, Rochdale, Greater Manchester, OL12 0NB                                         | Medical Equipment, Supplies and Pharmaceuticals | Industrial Products                     |
| G  | 241m SW  | Rochdale Infirmary          | Whitehall Street, Rochdale, Greater Manchester, OL12 0NB                                         | Hospitals                                       | Health Practitioners and Establishments |
| C  | 244m S   | Discount Clearance Centre   | 80, Howard Street, Rochdale, Greater Manchester, OL12 0LU                                        | Distribution and Haulage                        | Transport, Storage and Delivery         |
| F  | 245m SE  | Nexus Drink Systems Ltd     | Unit 6 Alma Industrial Estate, Regent Street, Rochdale, Greater Manchester, OL12 0HQ             | Food and Beverage Industry Machinery            | Industrial Products                     |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 52**

| ID | Location | Company | Address                                                     | LPG | Status |
|----|----------|---------|-------------------------------------------------------------|-----|--------|
| C  | 135m S   | TEXACO  | 111, Whitworth Road, Rochdale, Greater Manchester, OL12 0RA | No  | Open   |

*This data is sourced from Experian.*



### 4.3 Electricity cables

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

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

### 4.4 Gas pipelines

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

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

### 4.5 Sites determined as Contaminated Land

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

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

*This data is sourced from Local Authority records.*

### 4.6 Control of Major Accident Hazards (COMAH)

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

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

*This data is sourced from the Health and Safety Executive.*

### 4.7 Regulated explosive sites

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

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

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

Records within 500m

0

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

## 4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

4

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 52**

| ID | Location | Address                                                                   | Details                                                                |                                                                                                                             |
|----|----------|---------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| A  | 15m E    | Imperial Dry Cleaners, 160 Whitworth Road, Rochdale, Lancashire, OL12 0JG | Process: Dry Cleaning<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

| ID | Location | Address                                                                                                                          | Details                                                                                                        |                                                                                                                                      |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| C  | 153m S   | Manson Timber, Whitworth Road, Rochdale                                                                                          | Process: Timber Manufacture<br>Status: Historical Permit<br>Permit Type: Part B                                | Enforcement: No Enforcements<br>Notified<br>Date of enforcement: No<br>Enforcements Notified<br>Comment: No Enforcements<br>Notified |
| 7  | 317m S   | Anwar and Co Ltd, Whitworth Road Service Station, 111 Whitworth Road, Rochdale, Lancashire, OL12 ORA                             | Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements<br>Notified<br>Date of enforcement: No<br>Enforcements Notified<br>Comment: No Enforcements<br>Notified |
| I  | 349m N   | Goreforce Ltd T/A Rochdale Wood Products, Unit D6, Fieldhouse Industrial Estate, Fieldhouse Road, Rochdale, Lancashire, OL12 OAA | Process: Coating Processes<br>Status: Historical Permit<br>Permit Type: Part B                                 | Enforcement: No Enforcements<br>Notified<br>Date of enforcement: No<br>Enforcements Notified<br>Comment: No Enforcements<br>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

5

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 52**

| ID | Location | Address                                                                                    | Details                                                                                                                                                                |                                                                                                             |
|----|----------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| H  | 264m NE  | GREENBANK ROAD/ROSSALL ROAD CSO, 55 GREENBANK ROAD, ROCHDALE, GREATER MANCHESTER, OL12 OEN | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: EPRQB3593VE<br>Permit Version: 1<br>Receiving Water: FOXHOLES<br>BROOK | Status: VARIED UNDER EPR 2010<br>Issue date: 05/03/2020<br>Effective Date: 05/03/2020<br>Revocation Date: - |



| ID | Location | Address                                                                                              | Details                                                                                                                                                |                                                                                                                                                         |
|----|----------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| H  | 284m NE  | GREENBANK ROAD/ROSSALL ROAD CSO, 55 GREENBANK ROAD, ROCHDALE, GREATER MANCHESTER, OL12 0EN           | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01ROC0127<br>Permit Version: 1<br>Receiving Water: -         | Status: REVOKED - UNSPECIFIED<br>Issue date: -<br>Effective Date: 01/04/1991<br>Revocation Date: 31/12/1994                                             |
| H  | 284m NE  | GREENBANK ROAD/ROSSALL ROAD CSO, 55 GREENBANK ROAD, ROCHDALE, GREATER MANCHESTER, OL12 0EN           | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01ROC0127<br>Permit Version: 2<br>Receiving Water: .         | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 04/03/2020 |
| 9  | 432m N   | RIVERSIDE TRADING, UNITS B3/B4, FIELDHOUSE INDUSTRIAL ESTATE, ROCHDALE, GREATER MANCHESTER, OL12 0AA | Effluent Type: TRADE DISCHARGES - COOLING WATER<br>Permit Number: 016993343<br>Permit Version: 1<br>Receiving Water: FOXHOLES BK, TRIB OF HEY BK       | Status: REVOKED - UNSPECIFIED<br>Issue date: 18/06/1999<br>Effective Date: 18/06/1999<br>Revocation Date: 10/03/2003                                    |
| 10 | 497m N   | FIELDHOUSE MILL PS, ROCHDALE, GREATER MANCHESTER                                                     | Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: 016982946<br>Permit Version: 1<br>Receiving Water: FOXHOLES BROOK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 17/11/1995<br>Revocation Date: -          |

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

#### 4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

#### 4.15 Pollutant release to public sewer

Records within 500m

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 52**



| ID | Location | Address                                                                                                                | Details                                                                                                                   |                                                    |
|----|----------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 8  | 329m N   | TOWNHEAD ELECTROPLATING SERVICES, UNITS E3 AND E4, FIELDHOUSE MILL, FIELDHOUSE IND EST, ROCHDALE, LANCASHIRE, OL12 0AA | Permission reference: BK4669<br>Local Authority: ROCHDALE METROPOLITAN BOROUGH COUNCIL<br>First received date: 01/06/2001 | Last received date: 01/01/2015<br>Status: RECEIVED |

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

## 4.16 List 1 Dangerous Substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>1</b> |
|----------------------------|----------|

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 52**

| ID | Location | Name                    | Status | Receiving Water                   | Authorised Substances |
|----|----------|-------------------------|--------|-----------------------------------|-----------------------|
| I  | 341m N   | Townhead Electroplating | Active | River Roch, Manchester Ship Canal | Cadmium               |

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

## 4.17 List 2 Dangerous Substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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

## 4.18 Pollution Incidents (EA/NRW)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>1</b> |
|----------------------------|----------|

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 52**

| ID | Location | Details                                                                                                                                                                         |                                                                                                               |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| B  | 71m SE   | Incident Date: 06/07/2001<br>Incident Identification: 14171<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |

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

## 4.19 Pollution inventory substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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

## 4.20 Pollution inventory waste transfers

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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

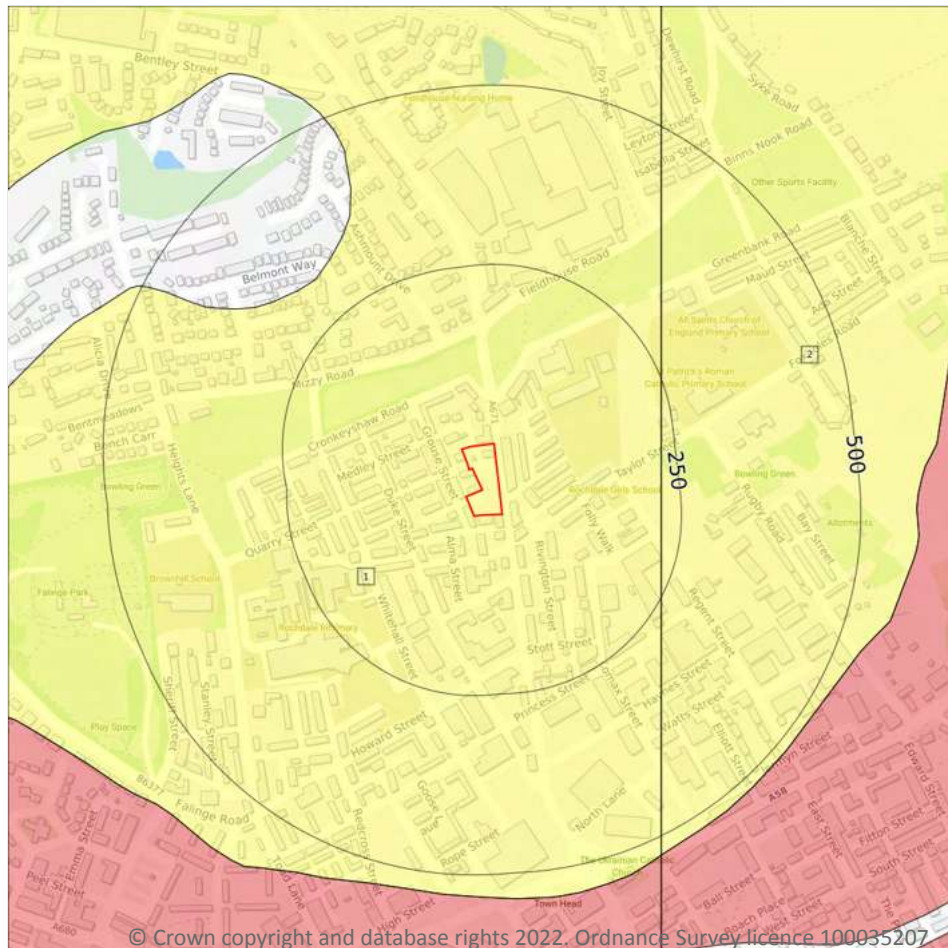
## 4.21 Pollution inventory radioactive waste

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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### 5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

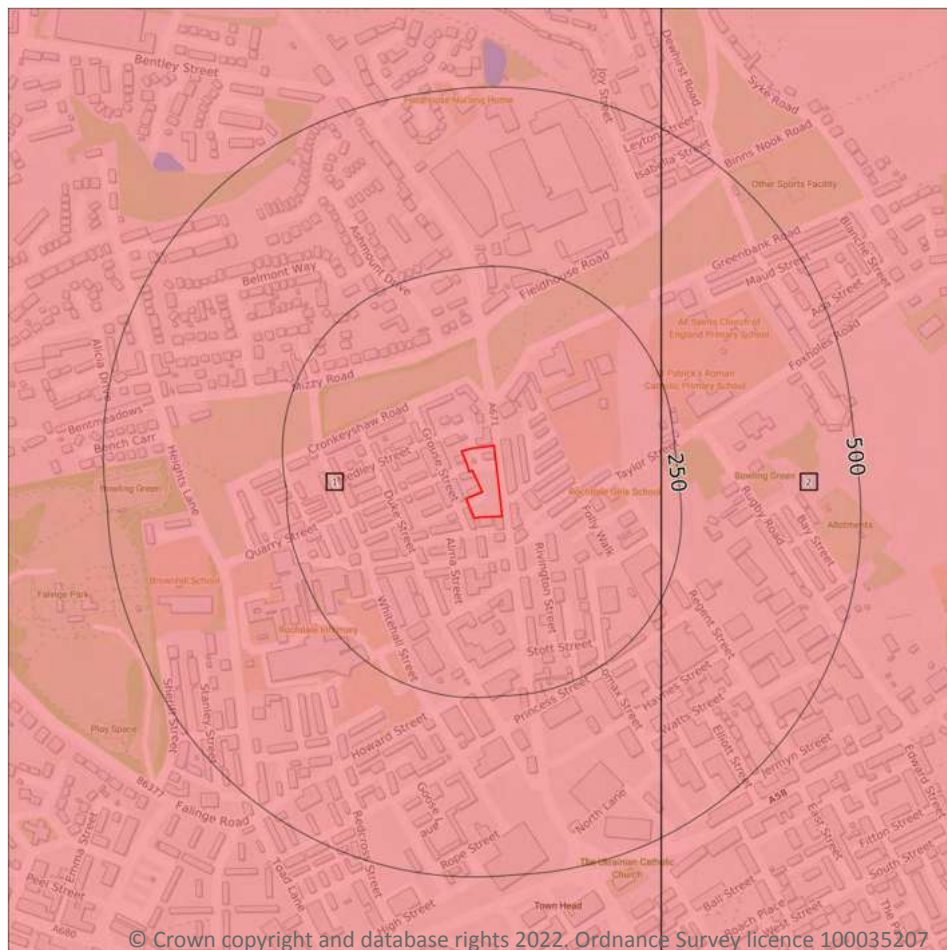
Features are displayed on the Hydrogeology map on **page 61**

| ID | Location | Designation                | Description                                                                                                                                                                                                                                             |
|----|----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 2  | 222m E   | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

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



## Bedrock aquifer



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

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## 5.2 Bedrock aquifer

### Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 63**

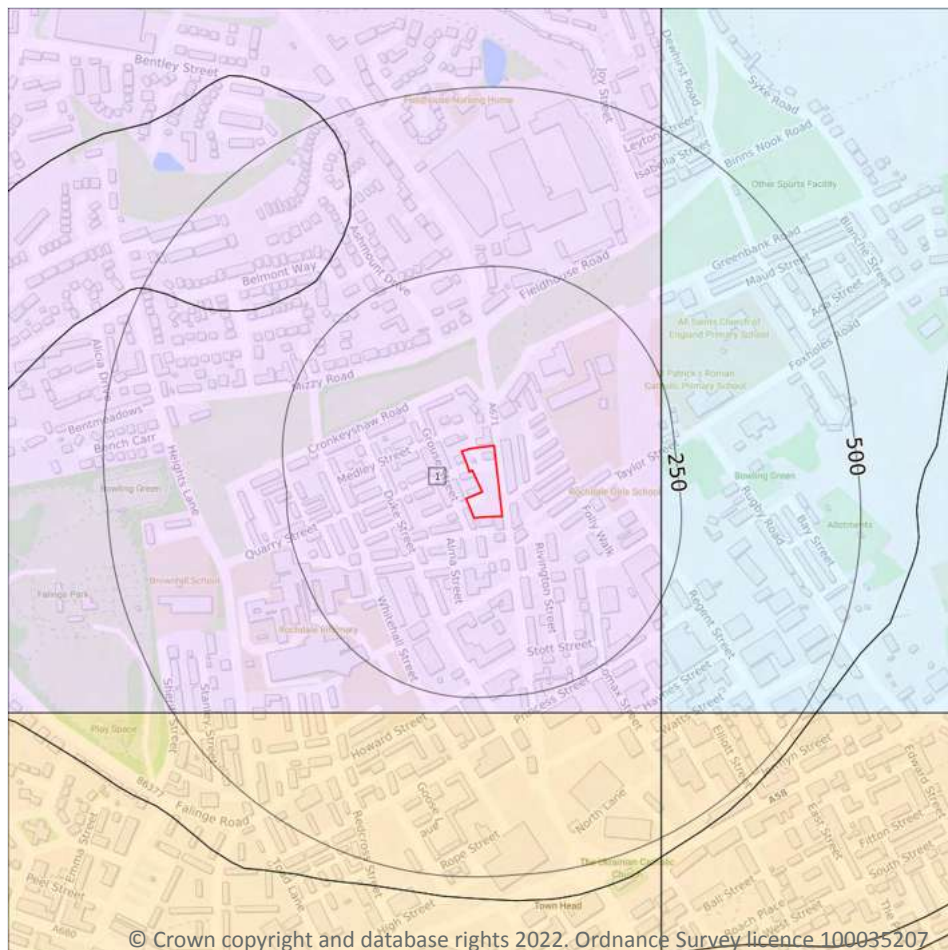
| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |
| 2  | 222m E   | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |



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



## Groundwater vulnerability



### Site Outline

### Search buffers in metres (m)

#### Superficial vulnerability

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

#### Bedrock vulnerability

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

#### Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

## 5.3 Groundwater vulnerability

### Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 65**

| ID | Location | Summary                                                                                                                                                                             | Soil / surface                                                                                      | Superficial geology                                                                                                                                     | Bedrock geology                                                                                                   |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <b>Summary Classification:</b><br>Secondary bedrock aquifer - Medium Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer, Productive Superficial Aquifer | <b>Leaching class:</b> Low<br><b>Infiltration value:</b> <40%<br><b>Dilution value:</b> >550mm/year | <b>Vulnerability:</b> Low<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> <3m<br><b>Patchiness value:</b> <90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> Medium<br><b>Aquifer type:</b> Secondary<br><b>Flow mechanism:</b> 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

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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.*

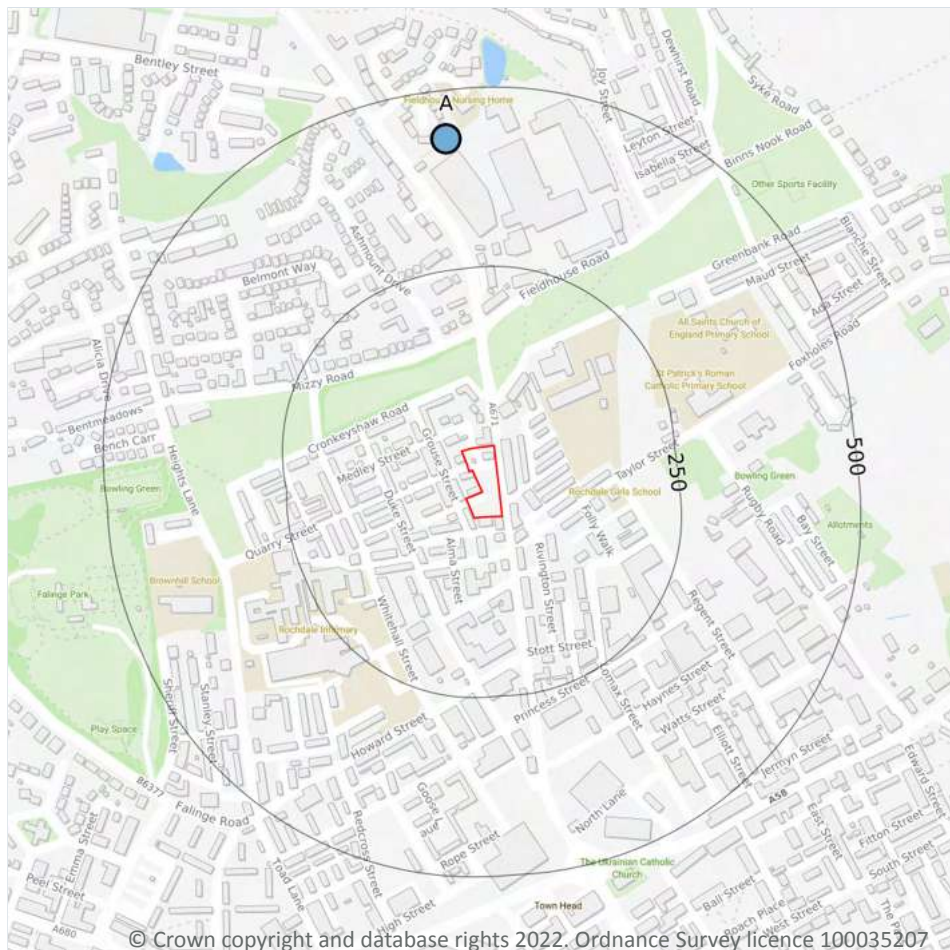
## 5.5 Groundwater vulnerability- local information

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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](mailto: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  
Point features
- 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

3

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 67**

| ID | Location | Details                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                  |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1294m SW | Status: Historical<br>Licence No: 2569002050<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE"<br>Data Type: Point<br>Name: ALEXANDER DREW & SONS LTD<br>Easting: 388700<br>Northing: 413500 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 10/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 02/05/2000<br>Version End Date: -         |
| -  | 1294m SW | Status: Historical<br>Licence No: 2569002050<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, SPOTLAND, ROCHDALE<br>Data Type: Point<br>Name: ALEXANDER DREW LTD.<br>Easting: 388700<br>Northing: 413500         | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 10/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/04/2003<br>Version End Date: -         |
| -  | 1294m SW | Status: Historical<br>Licence No: 2569002050<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES SPOTLAND ROCHDALE<br>Data Type: Point<br>Name: ALEXANDER DREW LTD<br>Easting: 388700<br>Northing: 413500            | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2100<br>Original Application No: -<br>Original Start Date: 10/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/04/2003<br>Version End Date: - |

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

## 5.7 Surface water abstractions

### Records within 2000m

**19**

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 67**



| ID | Location | Details                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 432m N   | Status: Historical<br>Licence No: 2569002268<br>Details: Non-Evaporative Cooling<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "FOXHOLES BROOK AT FIELDHOUSE INDUSTRIAL ESTATE, ROCHDALE"<br>Data Type: Point<br>Name: RIVERSIDE TRADING LTD<br>Easting: 389700<br>Northing: 414800   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 10/11/1998<br>Version End Date: -                                |
| A  | 432m N   | Status: Historical<br>Licence No: 2569002268<br>Details: Non-Evaporative Cooling<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: FOXHOLES BROOK AT FIELDHOUSE INDUSTRIAL ESTATE, ROCHDALE<br>Data Type: Point<br>Name: RIVERSIDE TRADING LTD<br>Easting: 389700<br>Northing: 414800       | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 10/11/1998<br>Version End Date: -                                |
| -  | 958m S   | Status: Active<br>Licence No: NW/069/0002/003<br>Details: Transfer Between Sources (Post Water Act 2003)<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT ROCHDALE WEIR<br>Data Type: Point<br>Name: Transport for Greater Manchester<br>Easting: 389916<br>Northing: 413325 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 15/06/2010<br>Expiry Date: 31/03/2026<br>Issue No: 2<br>Version Start Date: 23/06/2011<br>Version End Date: -                |
| -  | 958m S   | Status: Active<br>Licence No: NW/069/0002/001<br>Details: Hydroelectric Power Generation<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT ROCHDALE WEIR<br>Data Type: Point<br>Name: Transport for Greater Manchester<br>Easting: 389917<br>Northing: 413325                 | Annual Volume (m <sup>3</sup> ): 36,100,000<br>Max Daily Volume (m <sup>3</sup> ): 164,160<br>Original Application No: -<br>Original Start Date: 15/06/2010<br>Expiry Date: 31/03/2026<br>Issue No: 2<br>Version Start Date: 01/04/2015<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                          |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1115m NE | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 390200<br>Northing: 415400 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1115m NE | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 390200<br>Northing: 415400         | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |
| -  | 1126m SE | Status: Historical<br>Licence No: 2569002249<br>Details: Process water<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "RIVER ROCH AT MELLOROID WORKS, BELFIELD ROAD"<br>Data Type: Point<br>Name: BRITISH MILLERAIN 1922 CO LTD<br>Easting: 390800<br>Northing: 413800                            | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 04/11/1991<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 04/11/1991<br>Version End Date: -                 |
| -  | 1126m SE | Status: Historical<br>Licence No: 2569002249<br>Details: Process water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT MELLOROID WORKS, BELFIELD ROAD<br>Data Type: Point<br>Name: BRITISH MILLERAIN 1922 CO LTD<br>Easting: 390800<br>Northing: 413800                                | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 04/11/1991<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 04/11/1991<br>Version End Date: -                 |



| ID | Location | Details                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                           |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1126m SE | Status: Historical<br>Licence No: 2569002249<br>Details: Process Water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT MELLOROID WORKS BELFIELD ROAD<br>Data Type: Point<br>Name: BRITISH MILLERAIN 1922 CO LTD<br>Easting: 390800<br>Northing: 413800                | Annual Volume (m <sup>3</sup> ): 213662<br>Max Daily Volume (m <sup>3</sup> ): 1136.49<br>Original Application No: -<br>Original Start Date: 04/11/1991<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 04/11/1991<br>Version End Date: -       |
| -  | 1527m W  | Status: Historical<br>Licence No: 2569002018<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: LODGE FED BY R SPODDEN AT ROCHDALE<br>Data Type: Point<br>Name: FLEXITALLIC LTD<br>Easting: 388200<br>Northing: 414500 | Annual Volume (m <sup>3</sup> ): 1500211.393<br>Max Daily Volume (m <sup>3</sup> ): 4546.095<br>Original Application No: -<br>Original Start Date: 14/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 11/04/1997<br>Version End Date: - |
| -  | 1527m W  | Status: Historical<br>Licence No: 2569002018<br>Details: Boiler Feed<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: LODGE FED BY R SPODDEN AT ROCHDALE<br>Data Type: Point<br>Name: FLEXITALLIC LTD<br>Easting: 388200<br>Northing: 414500                                         | Annual Volume (m <sup>3</sup> ): 1500211.393<br>Max Daily Volume (m <sup>3</sup> ): 4546.095<br>Original Application No: -<br>Original Start Date: 14/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 11/04/1997<br>Version End Date: - |
| -  | 1527m W  | Status: Historical<br>Licence No: 2569002018<br>Details: Process Water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: LODGE FED BY R SPODDEN AT ROCHDALE<br>Data Type: Point<br>Name: FLEXITALLIC LTD<br>Easting: 388200<br>Northing: 414500                                       | Annual Volume (m <sup>3</sup> ): 1500211.393<br>Max Daily Volume (m <sup>3</sup> ): 4546.095<br>Original Application No: -<br>Original Start Date: 14/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 11/04/1997<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                          |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1835m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416200 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1835m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416200     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1835m N  | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 389600<br>Northing: 416200            | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY107<br>Data Type: Point<br>Name: NORTH WEST WATER LTD<br>Easting: 389600<br>Northing: 416300           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                          |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416300 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416300     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1934m N  | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 389600<br>Northing: 416300              | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |

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

## 5.8 Potable abstractions

### Records within 2000m

9

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 67**



| ID | Location | Details                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                          |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1115m NE | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 390200<br>Northing: 415400 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1115m NE | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY[12<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 390200<br>Northing: 415400         | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |
| -  | 1835m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416200 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1835m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY*30<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416200     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                          |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1835m N  | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 389600<br>Northing: 416200              | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY107<br>Data Type: Point<br>Name: NORTH WEST WATER LTD<br>Easting: 389600<br>Northing: 416300             | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107"<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416300 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |
| -  | 1934m N  | Status: Historical<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY\$107<br>Data Type: Point<br>Name: UNITED UTILITIES WATER PLC<br>Easting: 389600<br>Northing: 416300     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: -                 |



| ID | Location | Details                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                          |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1934m N  | Status: Active<br>Licence No: 2569002193<br>Details: Potable Water Supply - Direct<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: WATERGROVE, BROWN HOUSE WHAM, HAMER PASTURE AND BUCKLEY<br>Data Type: Point<br>Name: United Utilities Water Ltd<br>Easting: 389600<br>Northing: 416300 | Annual Volume (m <sup>3</sup> ): 5,909,800<br>Max Daily Volume (m <sup>3</sup> ): 5,909,800<br>Original Application No: -<br>Original Start Date: 22/03/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/03/1966<br>Version End Date: - |

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

## 5.9 Source Protection Zones

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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



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- 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

0

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

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.

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 77**

| ID | Location | Type  | Water body catchment     | Water body ID  | Operational catchment | Management catchment |
|----|----------|-------|--------------------------|----------------|-----------------------|----------------------|
| 2  | On site  | River | Roch (Source to Spodden) | GB112069064720 | 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 77**

| ID | Location | Type  | Name                     | Water body ID                  | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|--------------------------|--------------------------------|----------------|-----------------|-------------------|------|
| -  | 664m E   | River | Roch (Source to Spodden) | <a href="#">GB112069064720</a> | 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 77**

| ID | Location | Name                                       | Water body ID                         | Overall rating | Chemical rating | Quantitative | Year |
|----|----------|--------------------------------------------|---------------------------------------|----------------|-----------------|--------------|------|
| 1  | On site  | Northern Manchester Carboniferous Aquifers | <a href="#"><u>GB41202G101800</u></a> | Poor           | Poor            | Good         | 2019 |

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



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

### 7.2 Historical Flood Events

Records within 250m

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

### 7.6 Flood Zone 2

Records within 50m

0

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

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

### 7.7 Flood Zone 3

Records within 50m

0

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

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

## 8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

### 8.1 Surface water flooding

**Highest risk on site**

**Negligible**

**Highest risk within 50m**

**1 in 30 year, 0.1m - 0.3m**

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 83**

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

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

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

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



— Site Outline  
Search buffers in metres (m)

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

### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

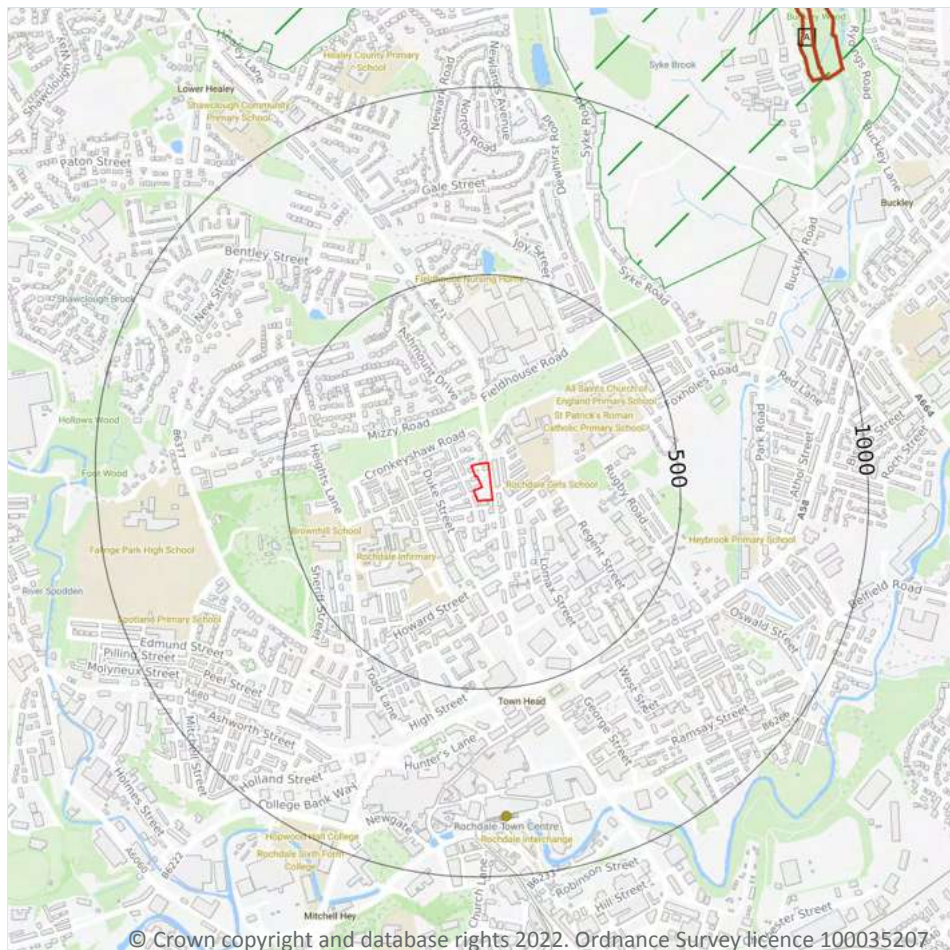
**Low**

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

Features are displayed on the Groundwater flooding map on **page 85**

*This data is sourced from Ambiental Risk Analytics.*

## 10 Environmental designations



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

### 10.1 Sites of Special Scientific Interest (SSSI)

#### Records within 2000m

2

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 86**

| ID | Location | Name           | Data source     |
|----|----------|----------------|-----------------|
| -  | 1924m E  | Rochdale Canal | Natural England |



| ID | Location | Name           | Data source     |
|----|----------|----------------|-----------------|
| -  | 1936m S  | 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)

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

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)

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>2</b> |
|-----------------------------|----------|

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 86**

| ID | Location | Name           | Features of interest     | Habitat description                                                                                                                       | Data source     |
|----|----------|----------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| -  | 1924m 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 |
| -  | 1936m 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 |

*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

**1**

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.

Features are displayed on the Environmental designations map on **page 86**

| ID | Location | Name        | Data source     |
|----|----------|-------------|-----------------|
| -  | 1579m W  | Healey Dell | Natural England |

*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 86**

| ID | Location | Name         | Woodland Type                   |
|----|----------|--------------|---------------------------------|
| A  | 1334m NE | Buckley Wood | Ancient & Semi-Natural Woodland |
| A  | 1361m NE | Buckley Wood | Ancient Replanted Woodland      |
| -  | 1913m NW | Unknown      | Ancient & Semi-Natural Woodland |

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

## 10.8 Biosphere Reserves

**Records within 2000m**

**0**

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

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

## 10.9 Forest Parks

**Records within 2000m**

**0**

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

**Records within 2000m**

**0**

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

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

## 10.11 Green Belt

**Records within 2000m**

**4**

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

Features are displayed on the Environmental designations map on **page 86**

| ID | Location | Name                              | Local Authority name |
|----|----------|-----------------------------------|----------------------|
| 1  | 656m NE  | Merseyside and Greater Manchester | Rochdale             |
| -  | 1514m W  | Merseyside and Greater Manchester | Rochdale             |
| -  | 1763m N  | Merseyside and Greater Manchester | Rossendale           |
| -  | 1836m NW | 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

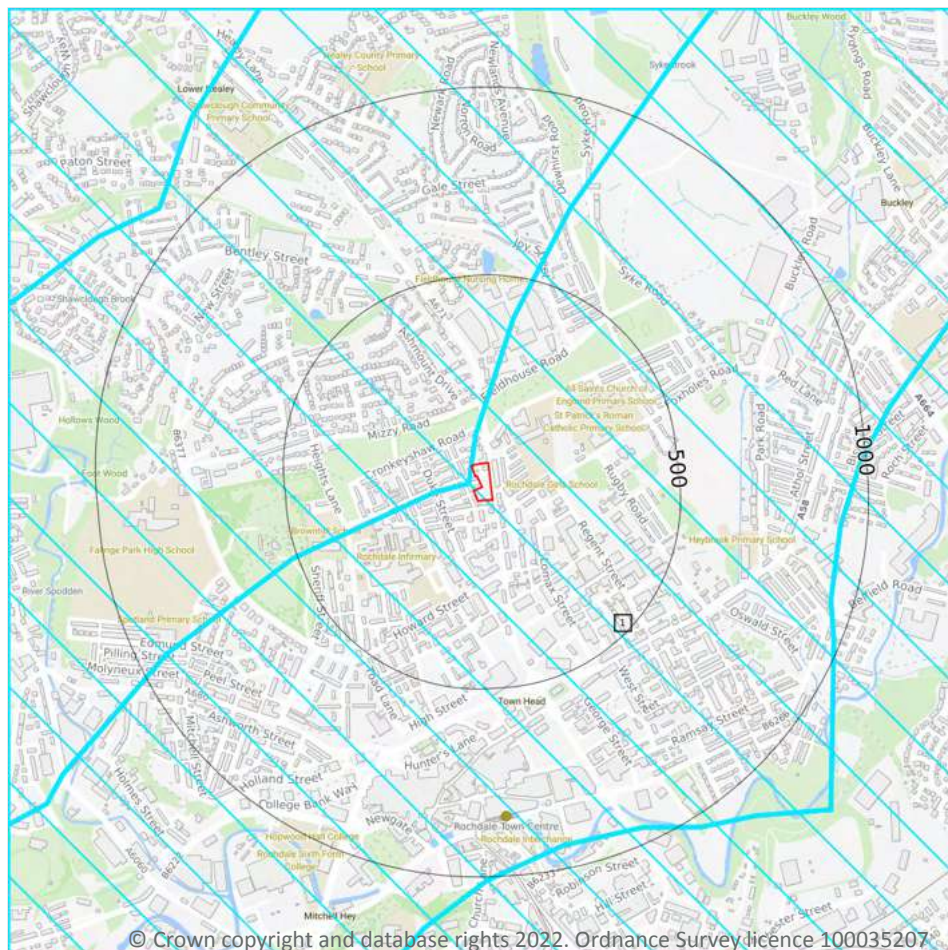
0

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

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



## SSSI Impact Zones and Units



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

### 10.17 SSSI Impact Risk Zones

#### Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 92**

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p><b>Infrastructure - Pipelines, pylons and overhead cables.</b> any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p><b>Minerals, Oil and Gas - Planning applications for quarries, including:</b> new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</p> <p><b>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</b></p> <p><b>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</b></p> <p><b>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</b></p> <p><b>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.</b></p> <p><b>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</b></p> |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>2</b> |
|-----------------------------|----------|

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 92**

ID: -  
 Location: 1924m 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: 1936m 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         |

*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

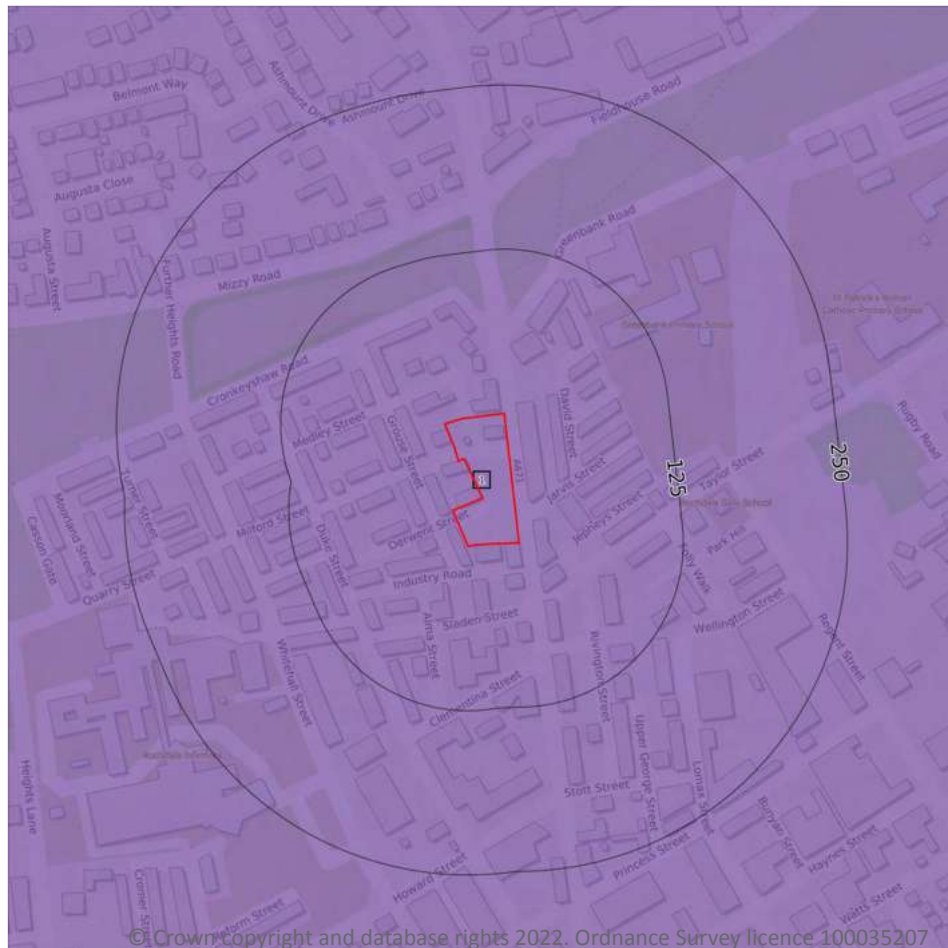
0

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

1

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

Features are displayed on the Agricultural designations map on **page 97**

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

This data is sourced from Natural England.



## 12.2 Open Access Land

Records within 250m

0

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

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

## 12.3 Tree Felling Licences

Records within 250m

0

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

0

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

*This data is sourced from Natural England.*



## 13 Habitat designations



- 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

1

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 99**

| ID | Location | Main Habitat       | Other habitats                  |
|----|----------|--------------------|---------------------------------|
| 1  | 227m E   | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |

*This data is sourced from Natural England.*



## 13.2 Habitat Networks

Records within 250m

0

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

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

Records within 250m

0

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

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

Records within 250m

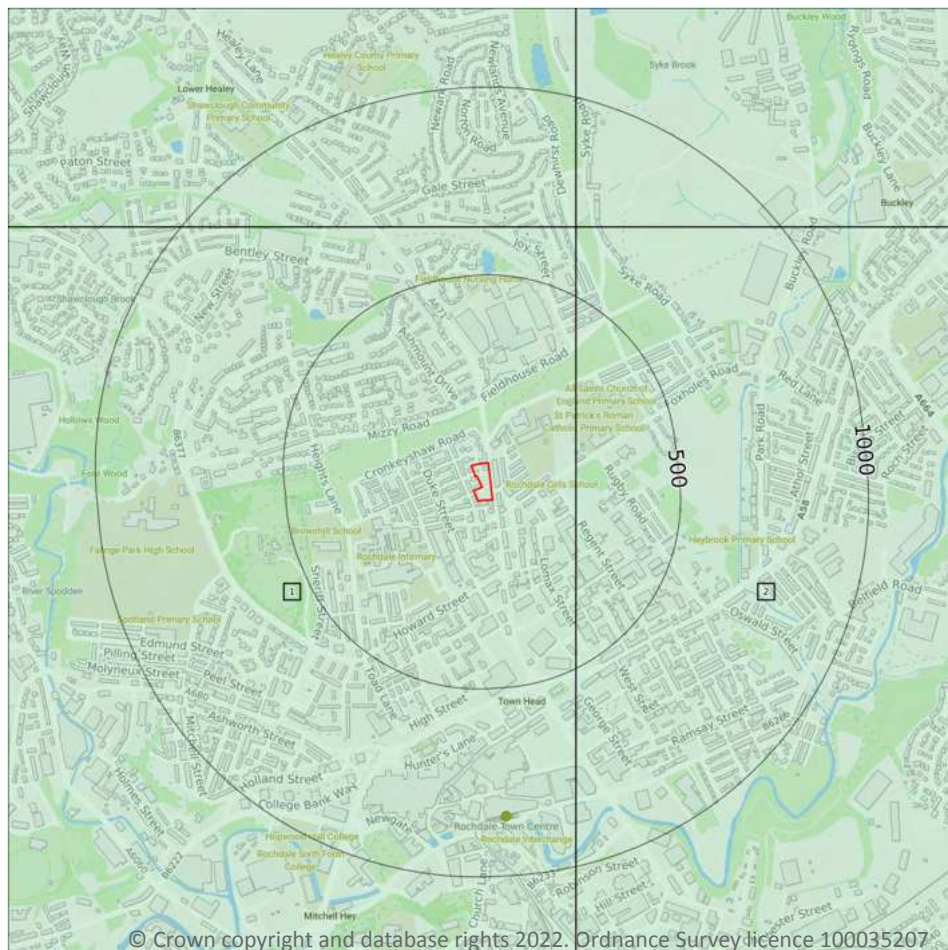
0

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

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

#### Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 101**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1  | On site  | Full       | Full        | Full    | Full          | SD81SE    |
| 2  | 222m E   | Full       | Full        | Full    | Full          | SD91SW    |

This data is sourced from the British Geological Survey.



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



— Site Outline  
Search buffers in metres (m)

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

### 14.2 Artificial and made ground (10k)

Records within 500m

7

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 102**

| ID | Location | LEX Code   | Description               | Rock description   |
|----|----------|------------|---------------------------|--------------------|
| A  | 179m E   | WMGR-ARTDP | Infilled Ground           | Artificial Deposit |
| A  | 187m E   | WGR-VOID   | Worked Ground (Undivided) | Void               |
| 1  | 222m E   | WMGR-ARTDP | Infilled Ground           | Artificial Deposit |
| A  | 230m E   | WGR-VOID   | Worked Ground (Undivided) | Void               |

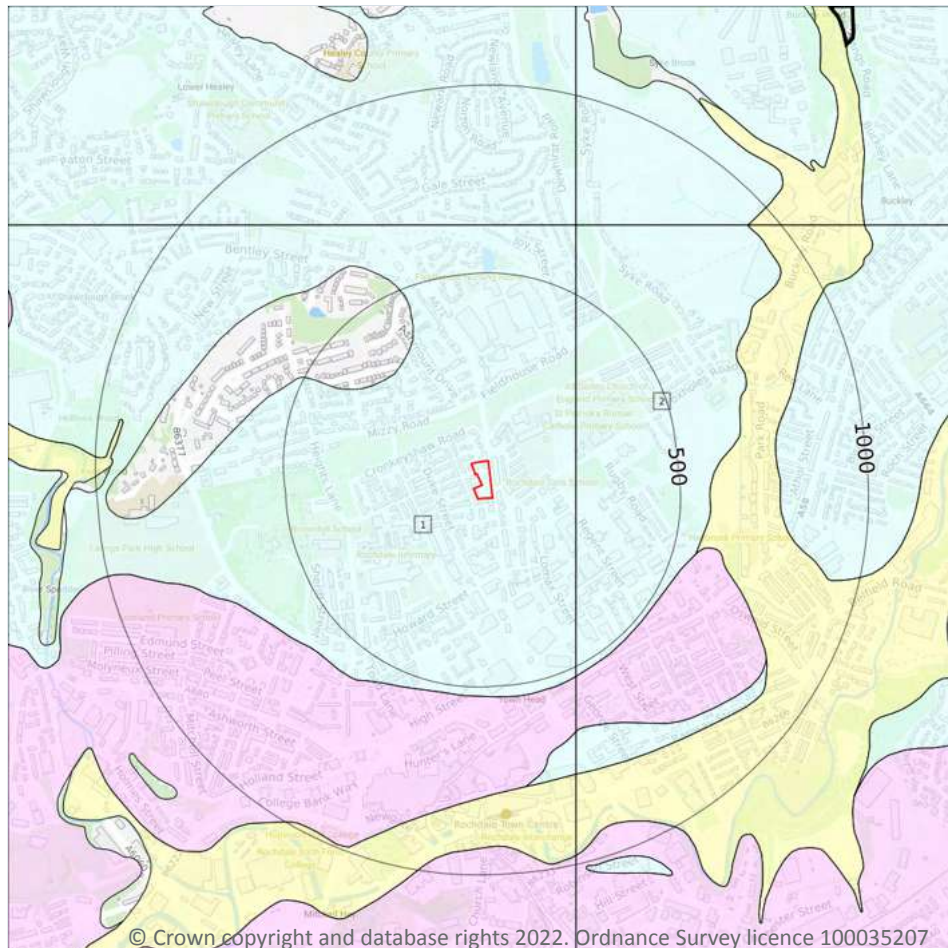


| ID | Location | LEX Code   | Description               | Rock description   |
|----|----------|------------|---------------------------|--------------------|
| 2  | 262m NE  | WMGR-ARTDP | Infilled Ground           | Artificial Deposit |
| 3  | 345m NE  | WGR-VOID   | Worked Ground (Undivided) | Void               |
| 4  | 475m NW  | WMGR-ARTDP | Infilled Ground           | Artificial Deposit |

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (10k)

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

### 14.3 Superficial geology (10k)

#### Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 104**

| ID | Location | LEX Code   | Description                 | Rock description |
|----|----------|------------|-----------------------------|------------------|
| 1  | On site  | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton        |
| 2  | 222m E   | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton        |

*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

Records within 500m

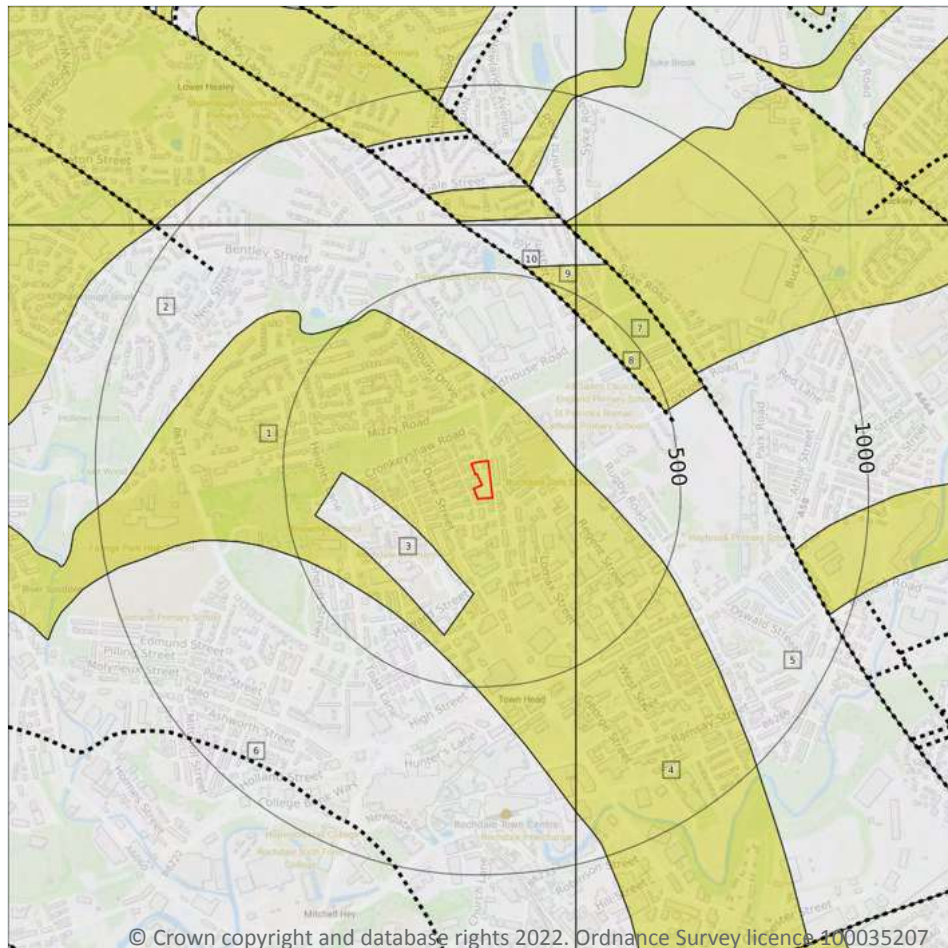
0

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

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



**Site Outline**

Search buffers in metres (m)

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

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

### 14.5 Bedrock geology (10k)

#### Records within 500m

8

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 106**

| ID | Location | LEX Code  | Description                                                               | Rock age            |
|----|----------|-----------|---------------------------------------------------------------------------|---------------------|
| 1  | On site  | OL-SDST   | Old Lawrence Rock - Sandstone                                             | Langsettian Sub-age |
| 2  | 163m NE  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 3  | 174m SW  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |

| ID | Location | LEX Code  | Description                                                               | Rock age            |
|----|----------|-----------|---------------------------------------------------------------------------|---------------------|
| 4  | 222m E   | OL-SDST   | Old Lawrence Rock - Sandstone                                             | Langsettian Sub-age |
| 5  | 229m E   | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 6  | 376m SW  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 7  | 438m NE  | MLRS-SDST | Milnrow Sandstone - Sandstone                                             | Langsettian Sub-age |
| 9  | 457m NE  | MLRS-SDST | Milnrow Sandstone - Sandstone                                             | Langsettian Sub-age |

*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

**Records within 500m**

**2**

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

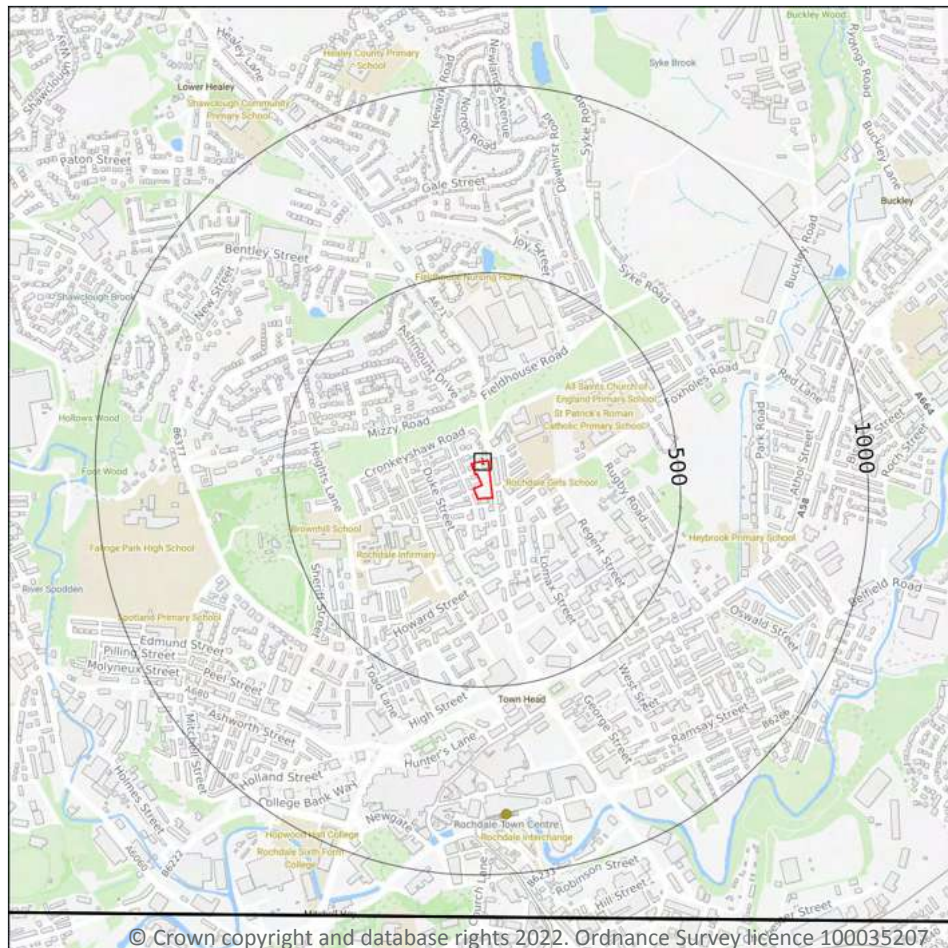
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 106**

| ID | Location | Category | Description                                          |
|----|----------|----------|------------------------------------------------------|
| 8  | 438m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |
| 10 | 457m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

□ Geological map tile

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### 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 108**

| ID | Location | Artificial  | Superficial | Bedrock | Mass movement | Sheet No.         |
|----|----------|-------------|-------------|---------|---------------|-------------------|
| 1  | On site  | No coverage | Full        | Full    | Full          | EW076_rochdale_v4 |

This data is sourced from the British Geological Survey.



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



— Site Outline  
Search buffers in metres (m)

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

### 15.2 Artificial and made ground (50k)

#### Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 109**

| ID | Location | LEX Code   | Description     | Rock description   |
|----|----------|------------|-----------------|--------------------|
| 1  | 474m NW  | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |

This data is sourced from the British Geological Survey.

### 15.3 Artificial ground permeability (50k)

Records within 50m

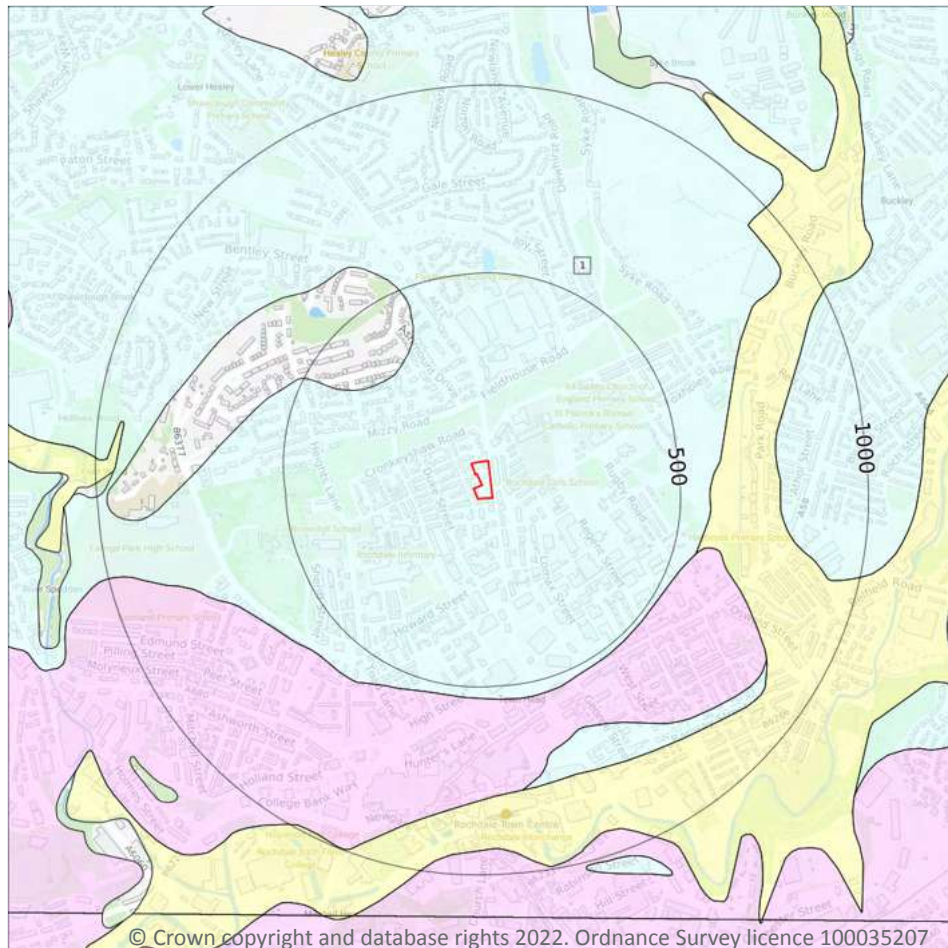
0

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

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

### 15.4 Superficial geology (50k)

#### Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 111**

| ID | Location | LEX Code   | Description     | Rock description |
|----|----------|------------|-----------------|------------------|
| 1  | On site  | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON        |

*This data is sourced from the British Geological Survey.*



## 15.5 Superficial permeability (50k)

**Records within 50m****1**

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

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

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

**Records within 500m****0**

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

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

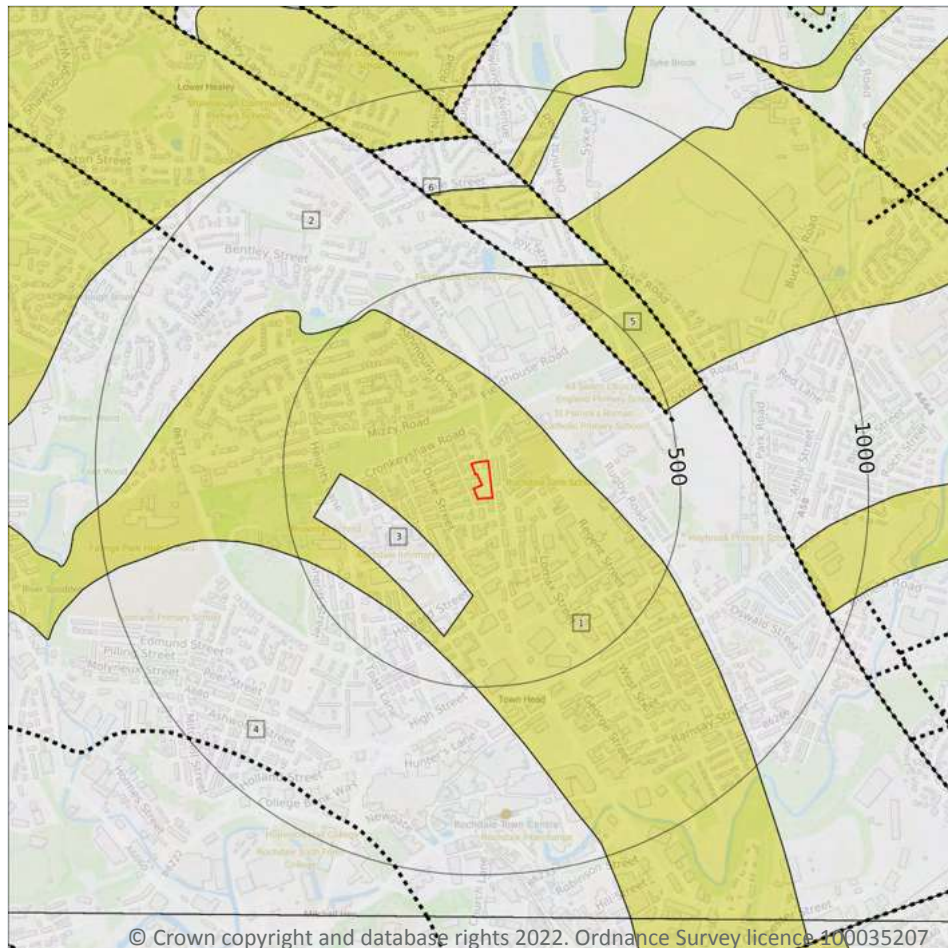
**Records within 50m****0**

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



**— Site Outline**

**Search buffers in metres (m)**

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

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

### 15.8 Bedrock geology (50k)

#### Records within 500m

5

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 113**

| ID | Location | LEX Code  | Description                                                               | Rock age    |
|----|----------|-----------|---------------------------------------------------------------------------|-------------|
| 1  | On site  | OL-SDST   | OLD LAWRENCE ROCK - SANDSTONE                                             | WESTPHALIAN |
| 2  | 163m NE  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 3  | 174m SW  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |

| ID | Location | LEX Code  | Description                                                               | Rock age    |
|----|----------|-----------|---------------------------------------------------------------------------|-------------|
| 4  | 376m SW  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 5  | 438m NE  | MLRS-SDST | MILNROW SANDSTONE - SANDSTONE                                             | WESTPHALIAN |

*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

### Records within 50m

1

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

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

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

### Records within 500m

1

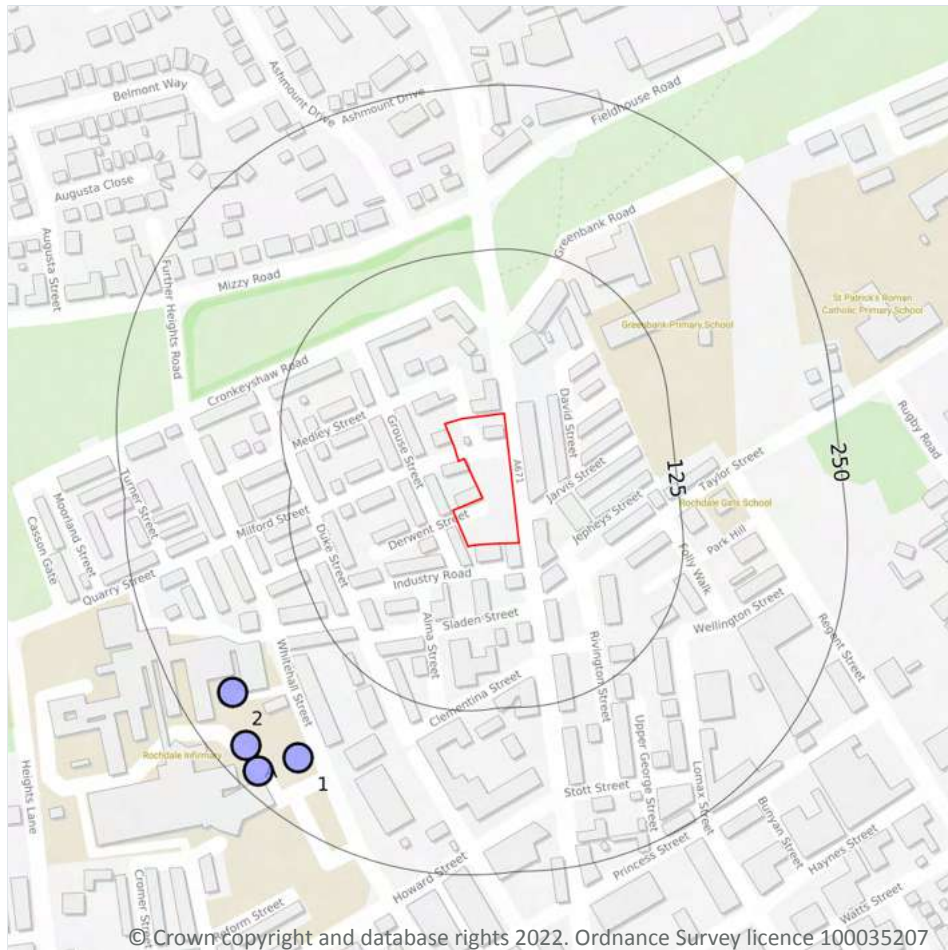
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 113**

| ID | Location | Category | Description     |
|----|----------|----------|-----------------|
| 6  | 438m NE  | FAULT    | Fault, inferred |

*This data is sourced from the British Geological Survey.*

## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

### 16.1 BGS Boreholes

#### Records within 250m

4

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

Features are displayed on the Boreholes map on **page 115**

| ID | Location | Grid reference | Name                    | Length | Confidential | Web link              |
|----|----------|----------------|-------------------------|--------|--------------|-----------------------|
| 1  | 207m SW  | 389610 414110  | ROCHDALE INFIRMARY BH10 | 4.25   | N            | <a href="#">30220</a> |
| 2  | 211m SW  | 389560 414160  | ROCHDALE INFIRMARY BH13 | 6.15   | N            | <a href="#">30223</a> |
| A  | 227m SW  | 389570 414120  | ROCHDALE INFIRMARY BH12 | 4.2    | N            | <a href="#">30222</a> |

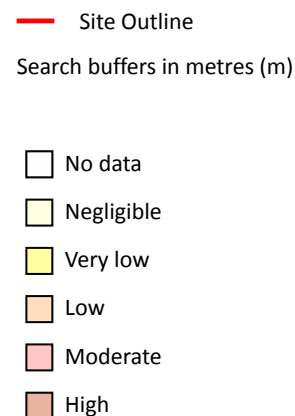
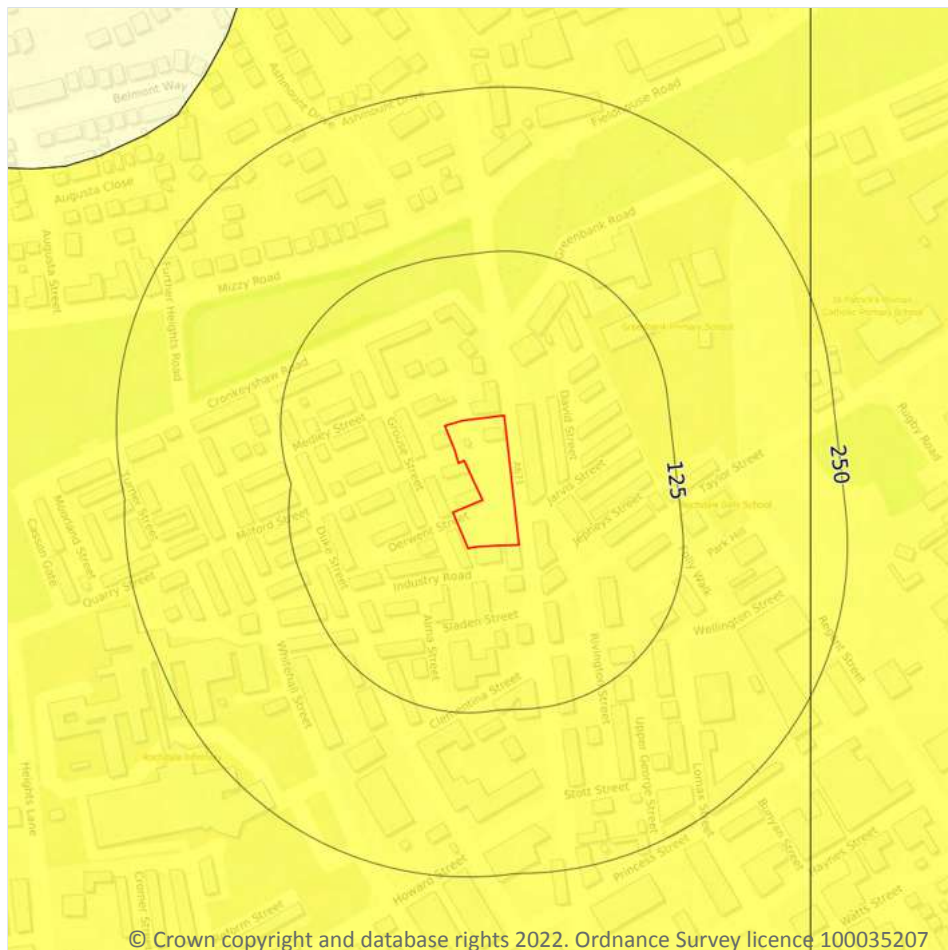


| ID | Location | Grid reference | Name                   | Length | Confidential | Web link              |
|----|----------|----------------|------------------------|--------|--------------|-----------------------|
| A  | 234m SW  | 389580 414100  | ROCHDALE INFIRMARY BH9 | 5.0    | N            | <a href="#">30219</a> |

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



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### 17.1 Shrink swell clays

#### Records within 50m

1

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

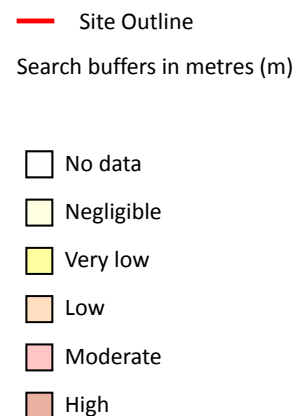
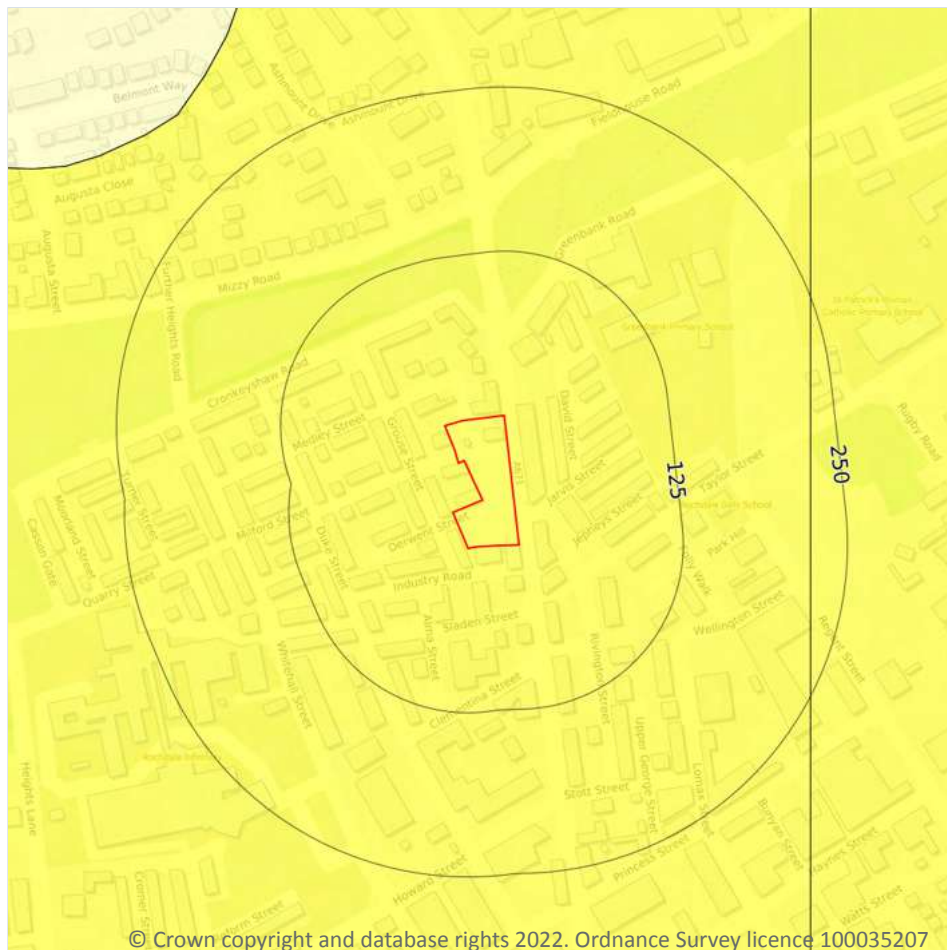
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 117**

| Location | Hazard rating | Details                                         |
|----------|---------------|-------------------------------------------------|
| On site  | 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

1

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

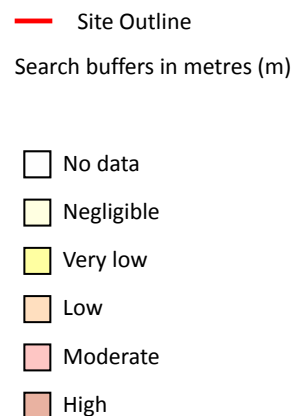
Features are displayed on the Natural ground subsidence - Running sands map on **page 118**

| 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. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

#### Records within 50m

1

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

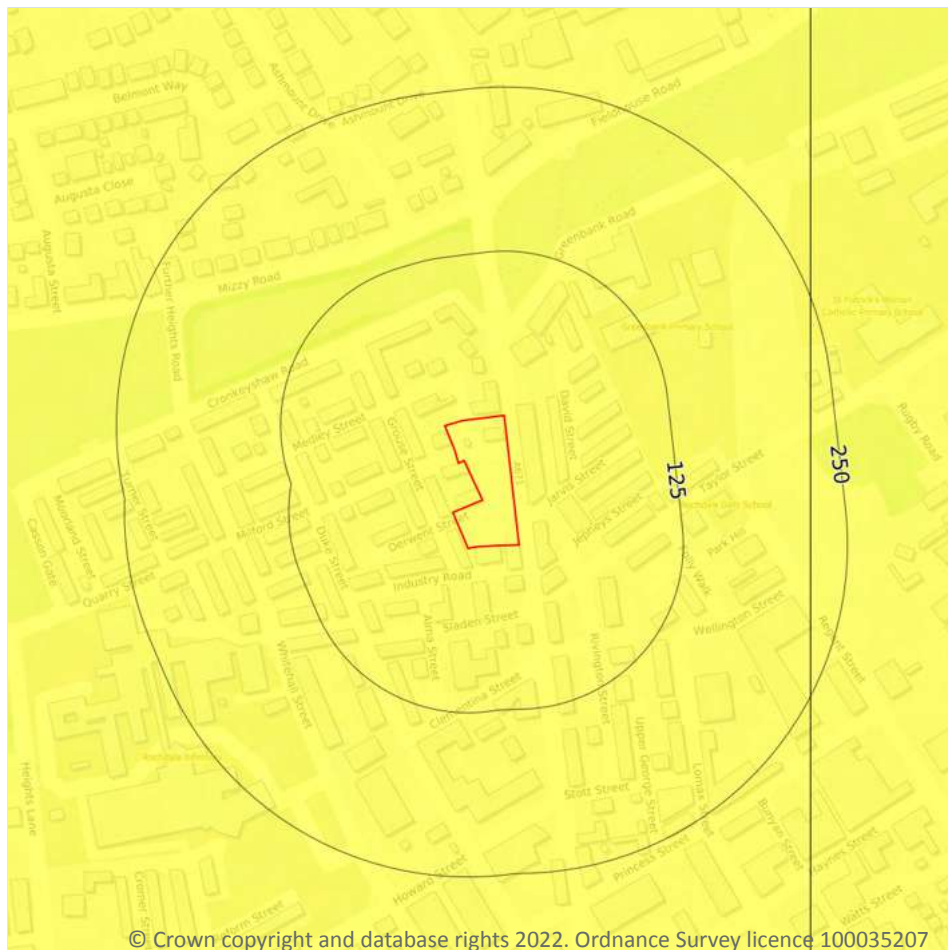
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 119**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



— Site Outline  
Search buffers in metres (m)

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

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### 17.4 Collapsible deposits

#### Records within 50m

1

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

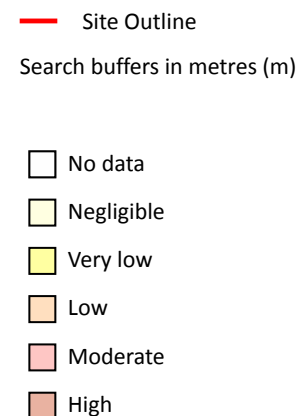
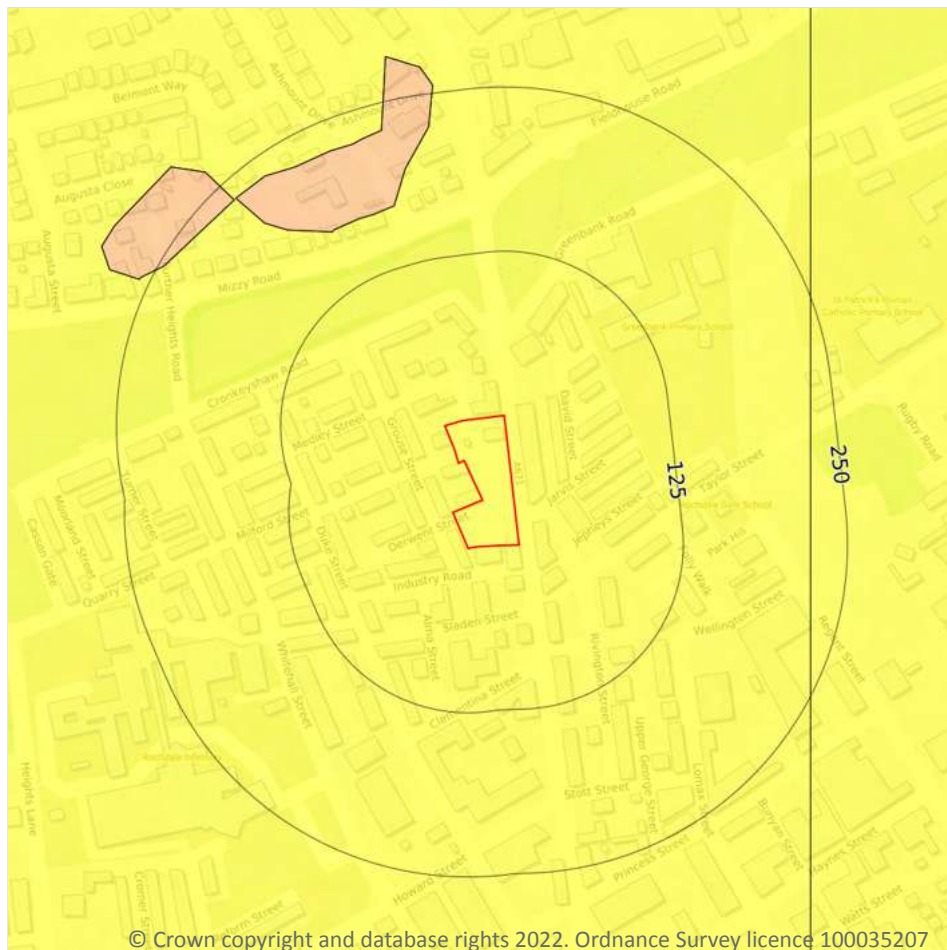
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 120**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Landslides



### 17.5 Landslides

#### Records within 50m

1

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

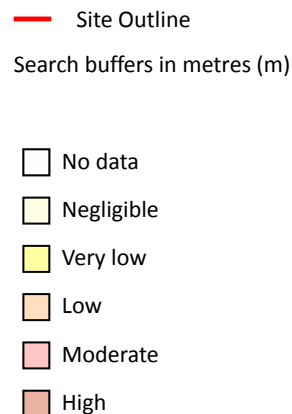
Features are displayed on the Natural ground subsidence - Landslides map on **page 121**

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

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

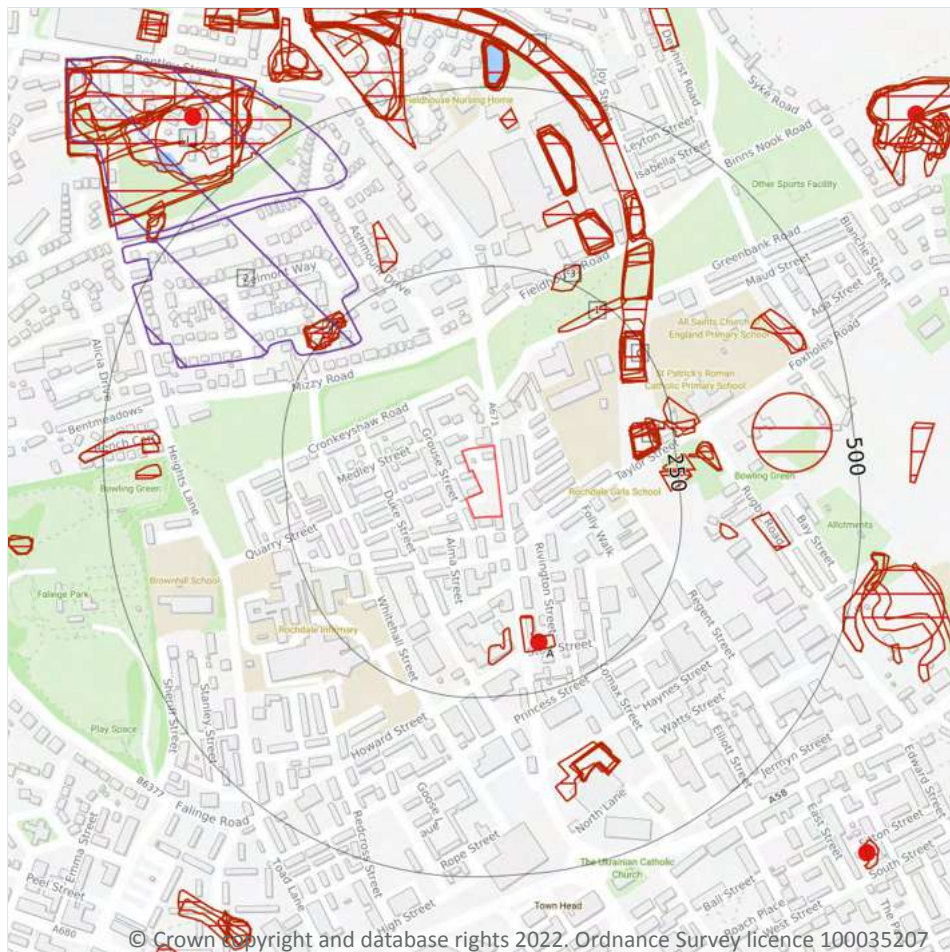
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 122**

| 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, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- 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 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

### Records within 500m

1

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 124**

| ID | Location | Details                                                                                                             | Description                                                                                                                                                                                                                                                                                                                              |
|----|----------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 182m S   | Name: Green Hayes Clay Pit<br>Address: Town Head, ROCHDALE, Lancashire<br>Commodity: Clay & Shale<br>Status: Ceased | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

### Records within 250m

31

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 124**

| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| A  | 142m S   | Clay Pit                    | 1851            | 1:10560       |
| A  | 156m S   | Pond                        | 1851            | 1:10560       |
| 1  | 182m NE  | Unspecified Ground Workings | 1890            | 1:10560       |
| B  | 190m E   | Cuttings                    | 1992            | 1:10000       |
| B  | 190m E   | Cuttings                    | 1987            | 1:10000       |
| B  | 190m E   | Cuttings                    | 1975            | 1:10000       |
| B  | 190m E   | Cuttings                    | 1949            | 1:10560       |
| B  | 191m E   | Cuttings                    | 1968            | 1:10560       |
| B  | 192m E   | Cuttings                    | 1928            | 1:10560       |
| B  | 192m E   | Cuttings                    | 1908            | 1:10560       |



| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| B  | 192m E   | Cuttings                    | 1938            | 1:10560       |
| B  | 192m E   | Cuttings                    | 1890            | 1:10560       |
| C  | 199m NE  | Cuttings                    | 1928            | 1:10560       |
| C  | 199m NE  | Cuttings                    | 1908            | 1:10560       |
| C  | 200m NE  | Cuttings                    | 1938            | 1:10560       |
| C  | 203m NE  | Cuttings                    | 1890            | 1:10560       |
| D  | 205m NE  | Cuttings                    | 1949            | 1:10560       |
| C  | 211m NE  | Cuttings                    | 1992            | 1:10000       |
| C  | 211m NE  | Cuttings                    | 1987            | 1:10000       |
| C  | 211m NE  | Cuttings                    | 1975            | 1:10000       |
| B  | 213m E   | Unspecified Heap            | 1890            | 1:10560       |
| B  | 226m E   | Pond                        | 1851            | 1:10560       |
| B  | 231m E   | Pond                        | 1890            | 1:10560       |
| 3  | 232m N   | Refuse Heap                 | 1890            | 1:10560       |
| E  | 235m NW  | Unspecified Heap            | 1968            | 1:10560       |
| E  | 235m NW  | Unspecified Heap            | 1928            | 1:10560       |
| E  | 235m NW  | Unspecified Heap            | 1908            | 1:10560       |
| B  | 240m E   | Unspecified Ground Workings | 1908            | 1:10560       |
| E  | 240m NW  | Unspecified Heaps           | 1938            | 1:10560       |
| B  | 241m E   | Unspecified Pit             | 1890            | 1:10560       |
| E  | 243m NW  | Unspecified Ground Workings | 1949            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 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, ground workings and natural cavities map on **page 124**



| ID | Location | Land Use                  | Year of mapping | Mapping scale |
|----|----------|---------------------------|-----------------|---------------|
| E  | 236m NW  | Unspecified Old Shaft     | 1928            | 1:10560       |
| E  | 245m NW  | Unspecified Disused Shaft | 1968            | 1:10560       |
| E  | 247m NW  | Unspecified Old Shaft     | 1890            | 1:10560       |

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

### Records within 500m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 124**

| ID | Location | Site Name      | Mineral     | Type                    | Planning Status | Planning Status Date |
|----|----------|----------------|-------------|-------------------------|-----------------|----------------------|
| 2  | 209m NW  | Rochdale Brick | Shale, clay | Surface mineral working | Refused         | 2/3/77               |
| J  | 412m NW  | Rochdale Brick | Shale, clay | Surface mineral working | Valid           | 22/6/48              |

*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 Mining cavities

### Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*



## 18.8 JPB mining areas

### Records on site

**0**

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

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

### Records on site

**1**

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

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

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

### Records on site

**0**

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

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

## 18.11 Gypsum areas

### Records on site

**0**

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

### Records on site

**0**

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*



## 18.13 Clay mining

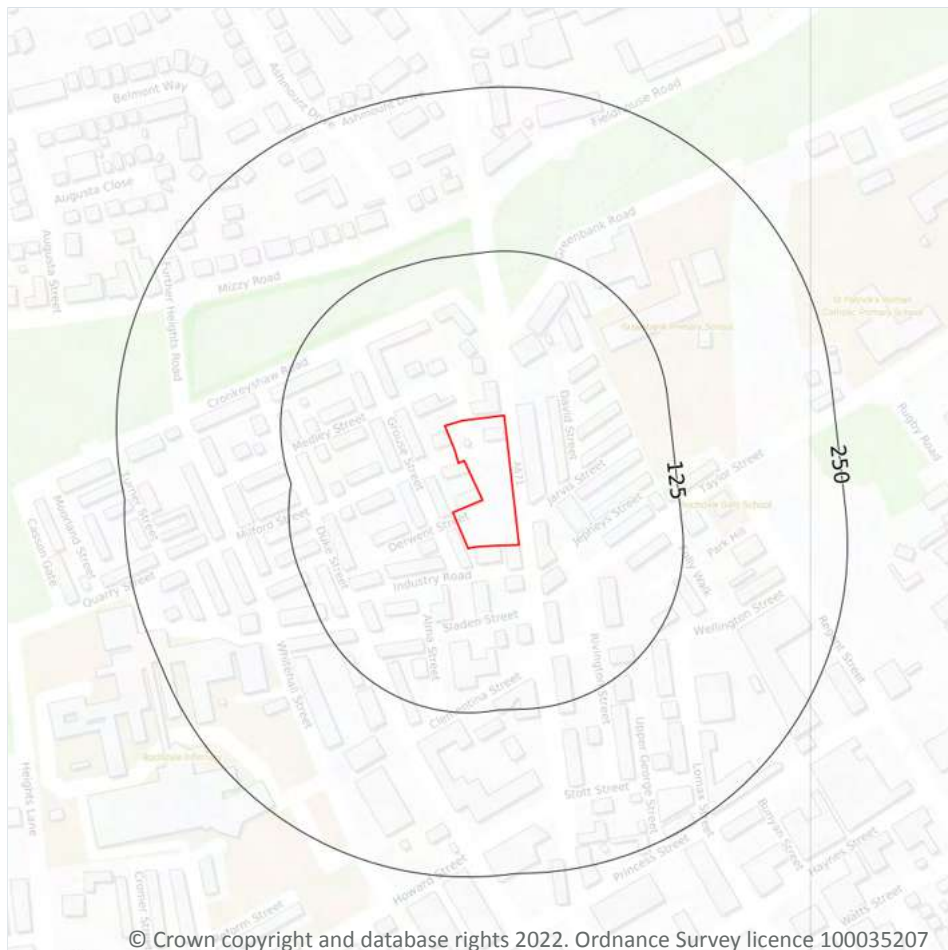
|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

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

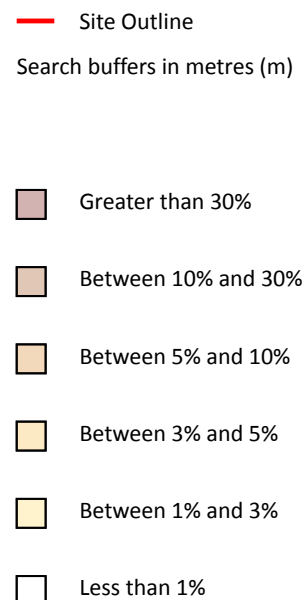
*This data is sourced from the Kaolin and Ball Clay Association (UK).*



## 19 Radon



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### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 130**

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

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

**Records within 50m****1**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; 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               | 600 - 1200 mg/kg | 360 - 720 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.*

### 20.2 BGS Estimated Urban Soil Chemistry

**Records within 50m****0**

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

*This data is sourced from the British Geological Survey.*

### 20.3 BGS Measured Urban Soil Chemistry

**Records within 50m****0**

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

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

### 21.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m

0

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



*This data is sourced from publicly available information by Groundsure.*

## 21.3 Railway tunnels

**Records within 250m**

**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 21.4 Historical railway and tunnel features

**Records within 250m**

**31**

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

Features are displayed on the Railway infrastructure and projects map on **page 132**

| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 173m E   | Railway         | 1893            | -             |
| 173m E   | Railway         | 1908            | -             |
| 173m E   | Railway Sidings | 1949            | 10560         |
| 173m E   | Railway Sidings | 1938            | 10560         |
| 173m E   | Railway Sidings | 1891            | 10560         |
| 177m E   | Railway Sidings | 1928            | 10560         |
| 177m E   | Railway Sidings | 1908            | 10560         |
| 177m E   | Railway Sidings | 1968            | 10560         |
| 187m E   | Railway Sidings | 1938            | 10560         |
| 187m E   | Railway Sidings | 1928            | 10560         |
| 187m E   | Railway Sidings | 1908            | 10560         |
| 197m N   | Railway Sidings | 1938            | 10560         |
| 199m E   | Railway Sidings | 1910            | 2500          |
| 199m E   | Railway Sidings | 1930            | 2500          |
| 199m E   | Railway Sidings | 1939            | 2500          |
| 199m E   | Railway Sidings | 1959            | 2500          |
| 201m E   | Railway Sidings | 1958            | 1250          |



| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 202m N   | Railway Sidings | 1928            | 10560         |
| 202m N   | Railway Sidings | 1908            | 10560         |
| 203m E   | Railway Sidings | 1890            | 2500          |
| 210m N   | Railway Sidings | 1949            | 10560         |
| 215m N   | Railway Sidings | 1910            | 2500          |
| 215m N   | Railway Sidings | 1930            | 2500          |
| 215m N   | Railway Sidings | 1939            | 2500          |
| 218m E   | Railway Sidings | 1890            | 2500          |
| 221m E   | Railway Sidings | 1958            | 2500          |
| 222m E   | Railway Sidings | 1967            | 10560         |
| 222m E   | Railway Sidings | 1954            | 10560         |
| 226m NE  | Railway Sidings | 1968            | 1250          |
| 227m NE  | Railway Sidings | 1958            | 1250          |
| 227m E   | Railway Sidings | 1959            | 1250          |

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 Royal Mail tunnels

**Records within 250m**

**0**

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

*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**1**

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

Features are displayed on the Railway infrastructure and projects map on **page 132**



| Location | Description |
|----------|-------------|
| 217m E   | Abandoned   |

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

### Records within 250m

**0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

### Records within 500m

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

### Records within 500m

**0**

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

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

### Records within 500m

**0**

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

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Site Details:

Derwent Street, Rochdale, OL12  
ORP

Client Ref: 62315  
Report Ref: CMAPS-CM-1015727-62315-280122HIS  
Grid Ref: 389750, 414321

Map Name: 1056 Scale Town Plan

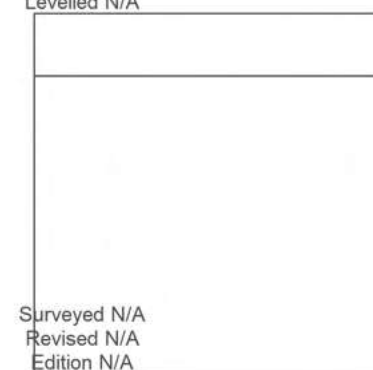
Map date: 1851

Scale: 1:1,056

Printed at: 1:1,056



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Map Name: County Series

Map date: 1890-1891

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**Client Ref:** 62315  
**Report Ref:** CMAPS-CM-1015727-62315-280122HIS  
**Grid Ref:** 389750, 414321

**Map Name:** County Series Town Plan

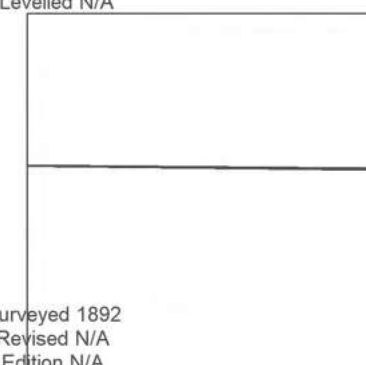
**Map date:** 1892

**Scale:** 1:500

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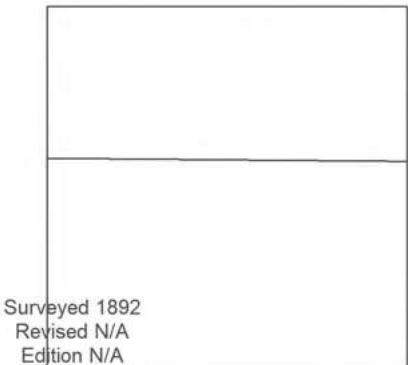
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**Report Ref:** CMAPS-CM-1015727-62315-280122HIS  
**Grid Ref:** 389750, 414321

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Grid Ref: 389750, 414321

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Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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Grid Ref: 389750, 414321

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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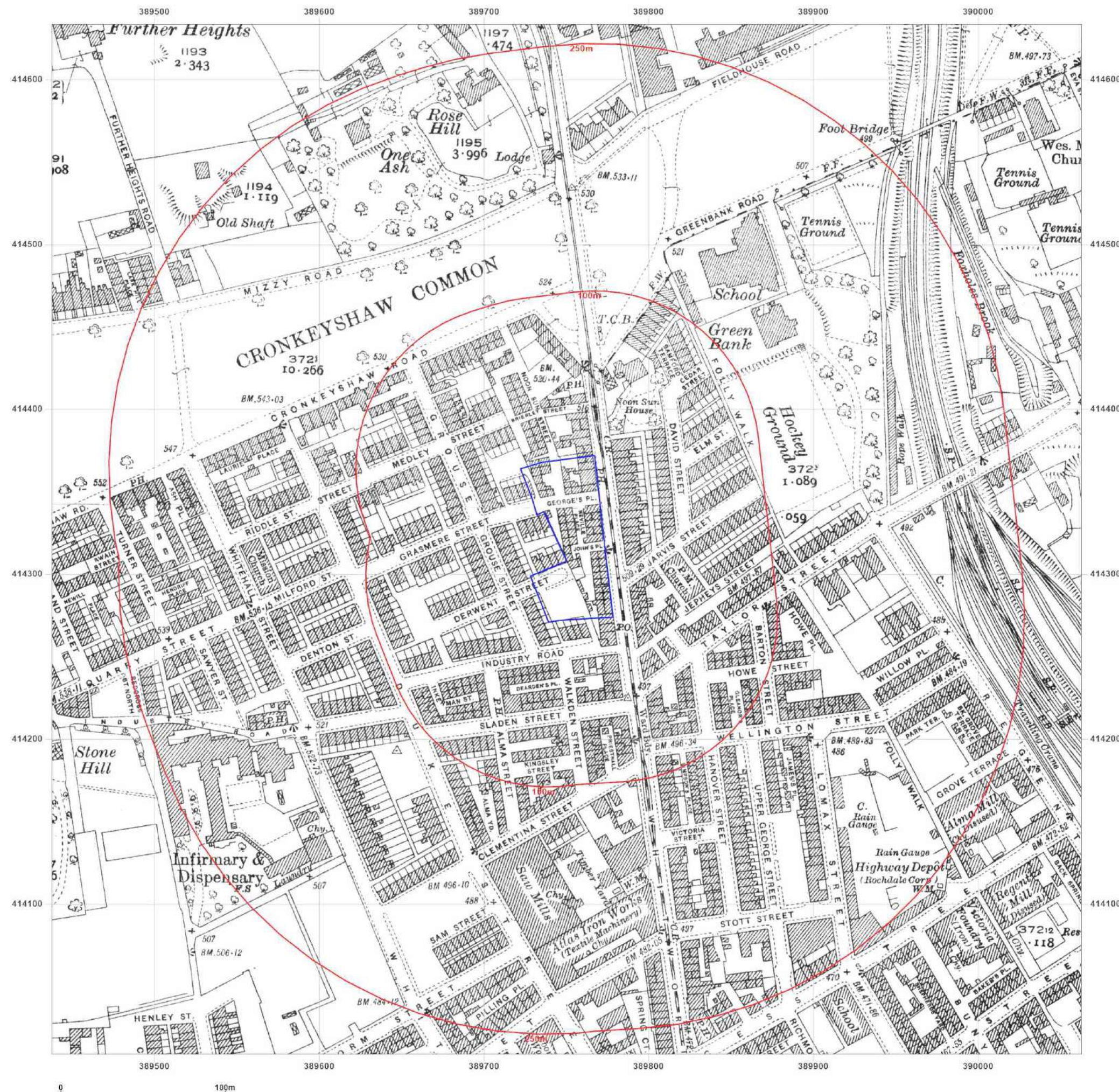


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#### Site Details:

Derwent Street, Rochdale, OL12  
ORP

Client Ref: 62315  
Report Ref: CMAPS-CM-1015727-62315-280122HIS  
Grid Ref: 389750, 414321

Map Name: County Series

Map date: 1939

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1939  
Revised 1939  
Edition N/A  
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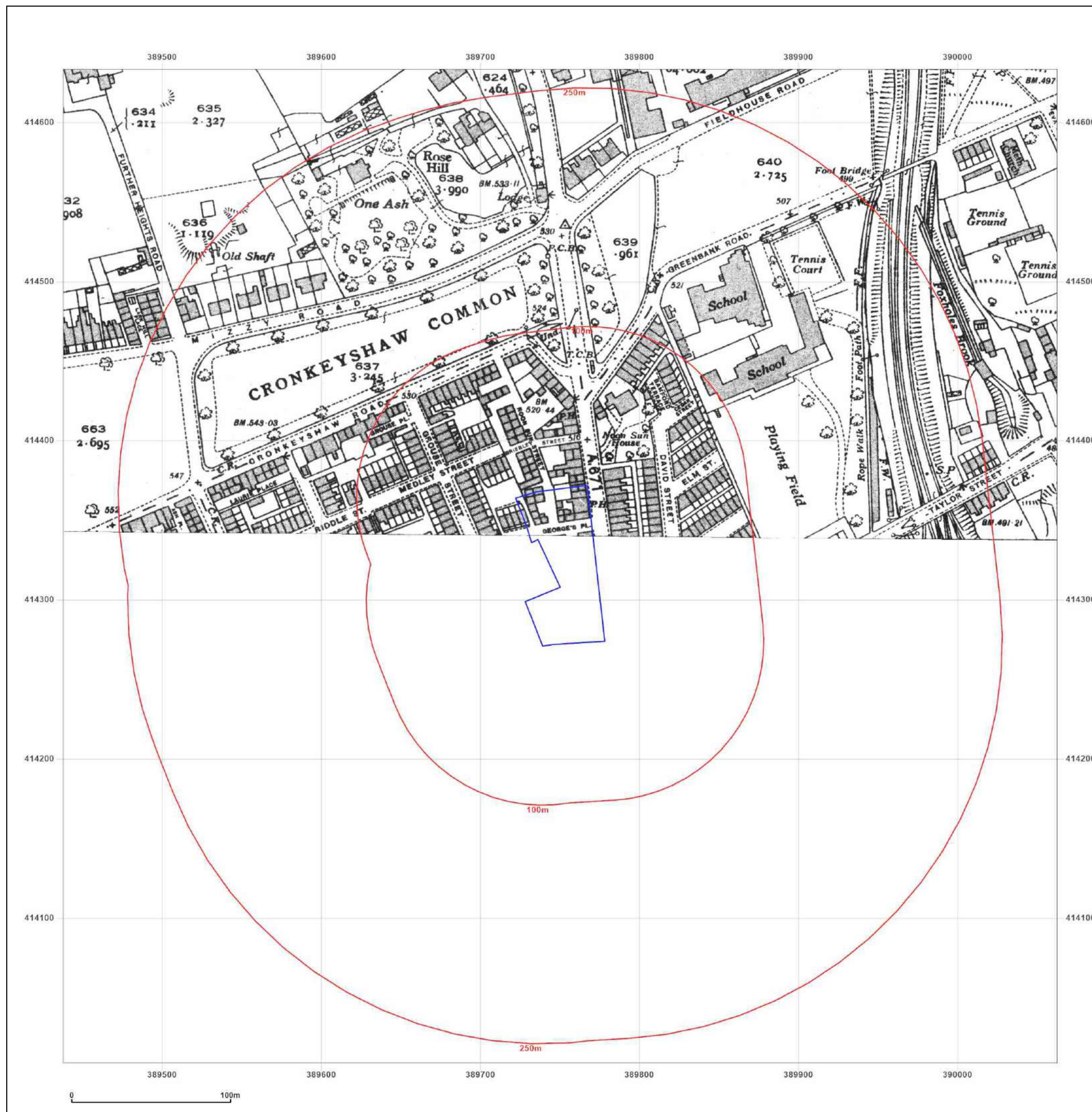


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**Site Details:**

Derwent Street, Rochdale, OL12  
ORP

**Client Ref:** 62315  
**Report Ref:** CMAPS-CM-1015727-62315-280122HIS  
**Grid Ref:** 389750, 414321

**Map Name:** National Grid

**Map date:** 1958

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1958  
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**Site Details:**

Derwent Street, Rochdale, OL12  
ORP

**Client Ref:** 62315  
**Report Ref:** CMAPS-CM-1015727-62315-280122HIS  
**Grid Ref:** 389750, 414321

**Map Name:** National Grid

**Map date:** 1959

**Scale:** 1:1,250

**Printed at:** 1:2,000



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#### Site Details:

Derwent Street, Rochdale, OL12  
ORP

**Client Ref:** 62315  
**Report Ref:** CMAPS-CM-1015727-62315-280122HIS  
**Grid Ref:** 389750, 414321

**Map Name:** National Grid

**Map date:** 1958-1959

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1959  
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