EEL.7473.R03.001

# PHASE I PRELIMINARY RISK ASSESSMENT

## Land adjacent to Units off Reliance Street, Newton Heath, Manchester

## July 2019

---

**Prepared for**

Extensions NW Ltd
(on Behalf of Paul McKenna)
3 Cribden Street
Rawtenstall
Rossendale
BB4 8HZ

**Prepared by**

Egniol Environmental Ltd
Llys Onnen
Ffordd y Llyn
Parc Menai
Bangor
Gwynedd
LL57 4DF

## Document Review

| Version No. | Date of Review | Prepared By | Reviewed By | Approved By |
|---|---|---|---|---|
| 1.0 | 22.07.19 | C.Radiven | O.Stevens | O.Stevens |
| | | | | |

## CONTENTS

**PAGE**

EXECUTIVE SUMMARY

**TABLE OF CONTENTS**

1.0 INTRODUCTION ..... 4
2.0 SITE ..... 5
3.0 DEVELOPMENT HISTORY ..... 7
4.0 CONCEPTUAL SITE MODEL ..... 12
5.0 PRELIMINARY RISK ASSESSMENT ..... 16
6.0 RECOMMENDATIONS ..... 17
APPENDICES ..... 18
Appendix 1 Photographic Record ..... 18
Appendix 2 Groundsure Reports ..... 18

APPENDICES

Appendix 1 Photographic Record

Appendix 2 Groundsure Reports

## EXECUTIVE SUMMARY

| | |
|---|---|
| **Site Address** | The area of investigation is on the site at the Land adjacent to Units off Reliance Street, Newton Heath, Manchester, M40 3AG |
| **Grid Reference** | 388134,400783 |
| **Site Area** | 0.0537Ha |
| **Site Description** | The site is located within Newton Heath, north east of Manchester; within Reliance Trading Estate. The area of investigation comprises a roughly rectangular shaped parcel of land to the north of Oldham Road A62 and east of Reliance Street. The main Site is oriented south west to north east with the boundary being surrounded by fencing with two entry gates to the north east and north west boundary. |
| **Site History** | The oldest historical map of 1884 to 1880 identifies the site being open land until circa 1931 when it is part of a larger area identified as Timber Mill. Historic maps from 1952 suggest a building occupying the site which was no longer present by 1983. The site has remained open with a single sipping container to the east. |
| **Adjacent Land** | Surrounding land use is dominated by industrial and commercial land use. |
| **Environmental Setting** | **Geology:** Superficial deposits are shown to be Devensian Till underlain by bedrock of the Collyhurst Sandstone Formation.<br>**Hydrogeology:**<br>• Superficial Geology: Secondary A (undifferentiated)<br>• Solid Geology: Principal within Bedrock.<br>• No licensed groundwater abstraction within 500m of the Site.<br>• No groundwater Source Protection Zones and potable water abstraction within 500m of the Site.<br>**Environmentally Sensitive Sites:**<br>The development Site is situated within 2km of:<br>• 3No. entries of SSSI records, the nearest is 901m east as Rochdale Canal Section.<br>• 3No record of Special Areas of Conservation (SAC the nearest is 901m east as Rochdale Canal Section.<br>• 1No. Ancient Woodland, Boggart Hole Clough is located 1857m north west.<br>• 2No. Local Nature Reserves are listed within 2km of the site, the nearest is Clayton Vale 1216m north west of the site.<br>• The site is within a Nitrate Vulnerable Zone. |
| **Mining, Excavation and Natural Cavities** | The Site is not within a Development High Risk Area and has no mine entries on or near the site according to Coal Authority Interactive Mapping.<br>The nearest historical Coal Mining information is recorded as unspecified mines and Collieries 987m north and 995m north respectively.<br>There are no records of natural cavities, brine extraction, gypsum extraction, metalliferous, or clay mining on or within 1km of the site.<br>The nearest historical surface ground working features is on the subject Site itself listed as a pond.<br>There are no non-coal mining cavities or natural cavities listed. There are no entries for brine or gypsum extraction or tin or clay mining. |

| | |
|---|---|
| **Flood Risk & Hydrology** | Hydrology: The closest surface water course within 250m of the site is a canal approximately 220m south. There is an inland river not influenced by normal tidal actions approximately 300m to the north.<br><br>Flood Risk: The site is not within a zone 2 and 3 floodplain and has a very low risk of flooding on the RoFRas rating. Groundwater has potential for clearwater flooding within the supernatural deposits and limited potential for groundwater flooding. |
| **Ground Stability** | There is negligible hazard of ground dissolution of soluble rocks and compressible deposits. There is a very low risk of shrink-swell clay, landslides, collapsible deposits and running sand. |
| **Contamination** | On-site:<br>• The Site is not assigned as a Contaminated Site under the EPA 1990.<br>• There is likely potential of ground contamination.<br>Off-site:<br>• Likely potential for off site sources of contamination |
| **Ground Gas** | The Site has historic development potentially resulting in ground gas and a history of potentially producing migrating ground gas via Made Ground and infilled land. |
| **Initial Conceptual Site Model (CSM)** | **Human Health**<br>• Likely potential presence of ground contamination by PAHs, TPH in soil/surface gravel from historic land use on site.<br>• Likely presence of ground gases from infilled and made ground associated with historic development of the site.<br>• Off-site:<br>• Potential migration of ground gas and contamination such as PAH's, PAH's, heavy metals and potential asbestos from historic development and activities in close vicinity to the site.<br>• **Controlled Waters**<br>The risks posed to surface water features, are considered low based on the potential for contamination migration pathways at source and the nature and distance of the receptor.<br>**Environmentally Sensitive Areas**<br>The risk posed to identified sensitive areas is moderate based on the identified contamination sources coupled with the distance, direction and relative heights between the source and the receptor. |
| **Recommendations for Ground Investigation** | • Exploratory Holes to obtain samples of ground material for chemical and geotechnical analysis including a ground gas and water monitoring program.<br>• Measures to investigate for geotechnical and geo environmental purposes are recommended.<br>• Potential remediation to remove/remediate potential contamination deposits are recommended. |

# 1.0 INTRODUCTION

Egniol Environmental Ltd were commissioned by Extensions NW Ltd to undertake a Phase I Preliminary Risk Assessment (PRA) of the Land adjacent to Units off Reliance Street, Newton Heath, Manchester, M40 3AG (central grid reference: 388134, 400783), located within the Manchester City Council Planning Authority.

The study will inform as part of the approved planning application reference 119669/FO/2018 (condition 13a) for the erection of a two-storey building to form 3 no. light industrial units (Class B1) of the site.

The objectives of this study are to:

- Review historical plans, geology, hydrogeology, site sensitivity, flood-plain issues, mining records and any local authority information available in order to complete a Desk Study in line with BS:5930 Code of Practice for ground Investigations;
- Describe the current environmental setting of the Site including photographs presented as Appendix 1;
- Provide an appraisal of potential environmental risks associated with contaminated ground for land acquisition and its future use.

This report provides factual information available during this appraisal, interpretation of the environmental data held on publicly available registers and other sources. Groundsure reports include the following data: Historical OS maps; BGS Geological Maps, Environmental & Hydrological; Waste; Hazardous Substances; Geological; Industrial Land-Use; Sensitive Land-Use; Historical Land-Use. The reports are enclosed in Appendix 2.

## 2.0 SITE

The site is located within Newton Heath, north east of Manchester; within Reliance Trading Estate. The area of investigation comprises a roughly rectangular shaped parcel of land to the north of Oldham Road A62 and east of Reliance Street. The main Site is oriented south west to north east with the boundary being surrounded by fencing with two entry gates to the north east and north west boundary.

The site is surfaced with concrete which in some areas is in poor condition and areas of vegetation are sporadic around the fencing. The Site is relatively level and is currently unused, though has, until the time of writing report was being used as storage for apparel associated with the motor trade such as, a car shell, gas canisters, tires, a Royal Mail container and shipping container.

The site is within an area dominated by industrial and commercial properties; including 'K9' a dog centre to the north, a Pound Stretcher to the north east, Dayton Motor Garage to the north east, Signs to signs to the east, an MOT centre to the south. 34No. entries on the current land uses map highlight the nearest potentially contaminative industrial site within 250m is TD Autocare located 5m to the south of the site.

Anecdotal information suggests the site is currently being cleared of all 'scrap' and the container will be removed in due course to allow for the development.

**Figure 1 Site Location**

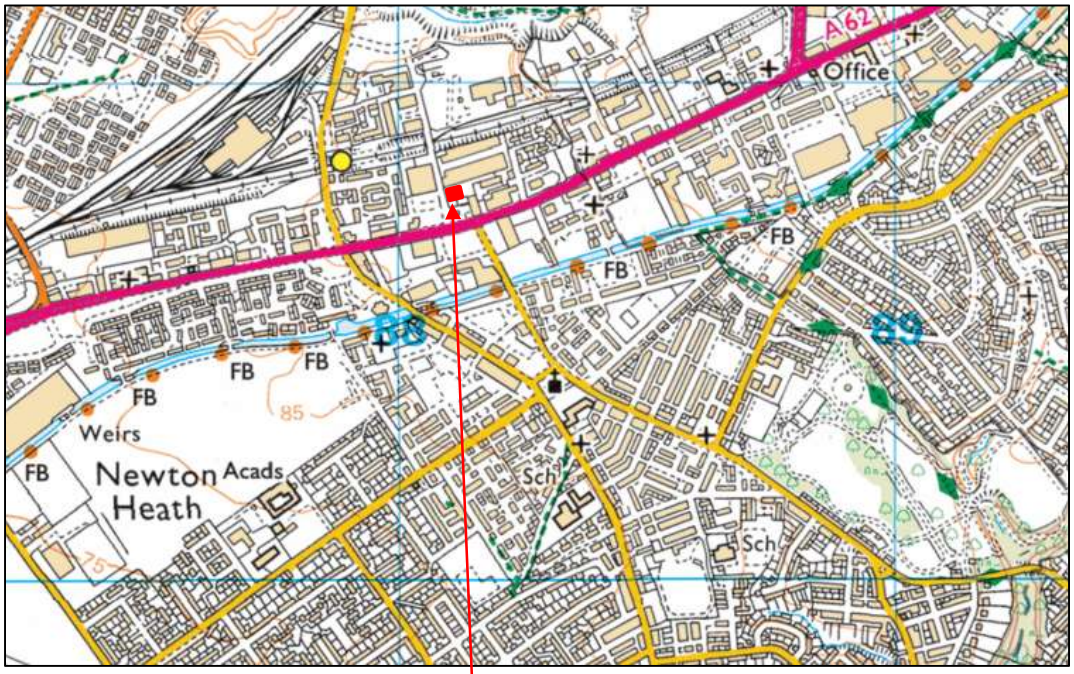
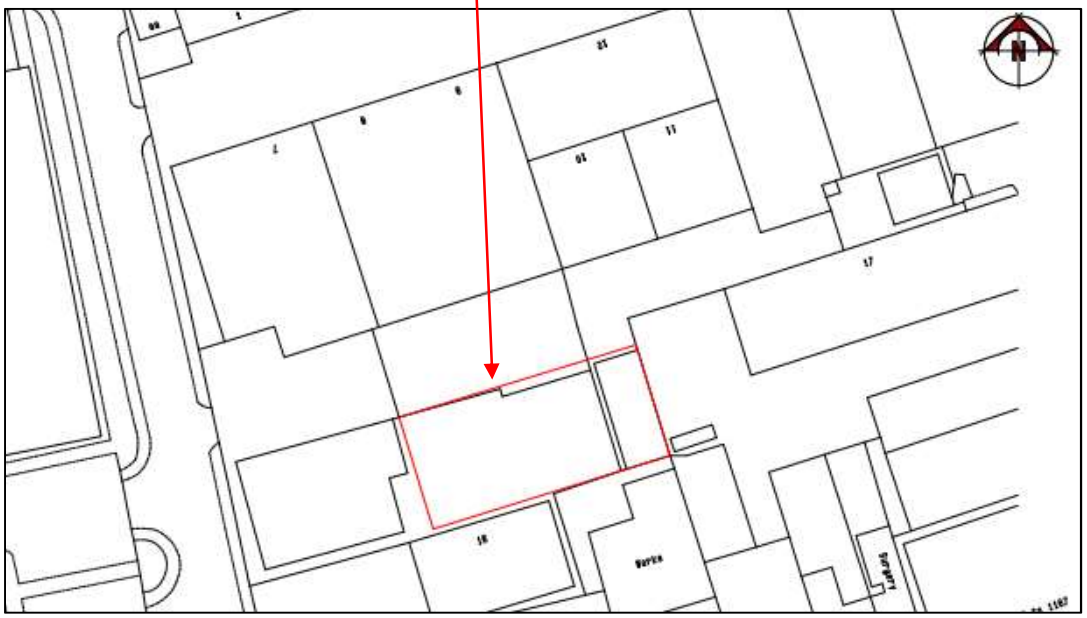



**Figure 2 Location Plan**



## 3.0 DEVELOPMENT HISTORY

A brief summary of the salient points relating to the history of the Site is presented below. It is not the intention of this report to describe in detail all the changes that have occurred on or adjacent to the Site or its component areas, only those pertinent to the objectives of this investigation.

| Dates | On-Site | Off-Site |
|---|---|---|
| 1848 – 1938<br><br>{1908} | The oldest historical map of 1848 identifies the Site as part of a larger area of open land in the grounds of 'The Cloughs'. Located to the north of an area of residential development the site is part of an area of potential agricultural land adjacent to the off-site Railway.<br><br>{Site is shown to be part of a large (potential Clay) pit with the exception of a small area to the south.}<br><br>Based on historic land use database derived from historic mapping; entries between 1906 and 1923 suggest a pond is located on the subject Site. | The Site is located within Newton Heath and forms part of a larger area of potential agricultural land use. Residential properties are located approximately 50m to the south. Heath Brewery and Barratt's Cotton Mill is located approximately 150m to the south east. An electrical engineering works and reservoir are located approximately 150m to the south. Monsall Dye Works is located approximately 200m to the south. A reservoir and a Sawmill is located approximately 110m to the west with a travelling crane beyond. The Lancashire and Yorkshire Railway line is located approximately 80m to the north oriented south west to north east. Moston Brook pits are located approximately 250m to the north, beyond the Railway. |
| 1931 - 1952 | The Site is now part of a land use labelled Timber Yard, becoming Saw Mill and Joinery Works, however straddles the southern Site boundary. This small percentage of Site falls on a potential street to the south. The pond is no longer shown | A large building associated with the Timber Works that the Site lies within, is located directly to the north of Site. Monsall Dye Works is no longer present, though an unnamed Mill is located in its place.<br><br>The wider site area has been heavily developed. Industrial and commercial activity has generally broadened in the local vicinity. |
| 1952-1975 | The Site is now occupied by a large building with which the site is part of as the Site straddles the building footprint as it extends to the east and south. | General increased development in the local area with mixed land use; residential, school, industrial and commercial.<br><br>The mills surrounding the site are now identified as Works (north, east and west).<br>The mill to the north becomes Timber Yard. |

| | | |
|---|---|---|
| 1975-1983 | No significant change | The works to the north is still present however, the works to the west is being redeveloped and becomes warehouses |
| 1983-1993 | The site is no longer part of the larger building and appears unused. | Circa 1988 the Works to the north of the Site becomes Trading Estate and shows configuration shown at present. Mills in the local vicinity become Works. |
| 1993 - present | A small unit is located on site oriented adjacent to the eastern boundary, identified as the shipping container in situ currently. | Shows current configuration with minor redevelopment. |

## Geology and Mining

| | |
|---|---|
| Made Ground | Information represented on BGS mapping suggest that the nearest infilled ground is located 390m south west of the Site.<br><br>Due to the historic development on Site there is potential for relatively shallow Made Ground to be present. |
| Superficial Geology | Superficial deposits are recorded as Devensian Till, Diamicton (permeable) on Site.<br>Boreholes located to the north of site reference SD80SE407 suggests Made Ground is located to 1.60m bgl and is underlain by silty Clay interbedded with Sand deposits to circa 20m bgl. |
| Solid Geology | The site is shown to be underlain by the Collyhurst Sandstone Formation. Borehole records located at Heath Brewery, ref. SD80SE76 to the south east suggests that Sandstone is identified at circa 37m bgl. |
| Mining, Excavation and Natural Cavities | Although the Site is recorded to lie within a coal mining reporting area, the Site is not within a Development High Risk Area and has no mine entries on or near the site according to Coal Authority Interactive Mapping.<br><br>The nearest historical Coal Mining information is recorded as unspecified mines and Collieries 987m north and 995m north respectively.<br><br>There are no records of natural cavities, brine extraction, gypsum extraction, metalliferous, or clay mining on or within 1km of the site.<br><br>45No. entries for historical surface ground working features exist within 250m of the Site. Entries are duplicated and include; ponds, unspecified pits, cuttings, reservoir, unspecified ground workings, refuse destructor and canal. The nearest is on the subject Site itself listed as a pond. |
| Ground Stability | There is negligible hazard of ground dissolution of soluble rocks and compressible deposits. There is a very low risk of shrink-swell clay landslides, collapsible deposits and running sand. |

| | |
|---|---|
| Quarrying | There are no entries for quarrying within 250m of the site, however entries for current ground workings include 8No. entries for ground workings within 1km of the Site; the nearest is 425m north recorded as Williams Road sand pit which has ceased activities as an opencast coal site. |

## Hydrology and Hydrogeology

| | |
|---|---|
| Watercourses | The closest surface water course within 250m of the site is a canal approximately 220m south. There is an inland river not influenced by normal tidal actions approximately 300m to the north. |
| Flood Risk | The site is not within a zone 2 and 3 floodplain and has a very low risk of flooding on the RoFRas rating. Groundwater has potential for clearwater flooding within the supernatural deposits and limited potential for groundwater flooding. |
| Groundwater Classification | Superficial Geology: Secondary (undifferentiated)<br>Solid Geology: Principal.<br>On site indicates major aquifer/high leaching potential (HU vulnerability category). |
| Source Protection Zones | None recorded within 500m. |
| Springs / Wells | None recorded on or immediately adjacent to the Site. |
| Licensed Surface Water Abstractions | None recorded. |
| Licensed Groundwater Abstractions | 3No records within 2km of the Site. The nearest license is 1594m south east for secondary category – a historical entry for Manchester Abattoir, this point is recorded as both entries and are historical. The following two entries relate to the same location 1853m south west at Hanson Quarry Products Europe Ltd. |
| Licensed Potable Abstractions | None recorded within 2000m. |
| Licensed Discharge Consents | 1No. recorded within 500m. A historic entry for the refuse treatment/transfer station is recorded as miscellaneous discharges to surface water at Moston Brook located 336m north of the Site. |
| Pollution Incidents | 14No. pollution incidents recorded within 500m recorded the nearest is 87m north west as Category 4 (no impact) to water – as atmospheric pollutants and effects. |

## Landfill and Waste Management

| | |
|---|---|
| Landfill Records | There are 19No. records of Landfills from Historical landfill site records within 1500m of the Site: the nearest is 211m north east, surrendered environmentally permitting regulations at Land off Reliance Street. |

| | |
|---|---|
| Other Waste Sites | 2No. records for non-operational landfill and other waste sites. The nearest is 784m north east of the Site.<br>50No. records on the Local Authority and historical mapping, landfill and other waste sites. The nearest is 378, south west at Briscoe Lane Landfill.<br>36No. entries on the waste treatment, transfer or disposal sites. The nearest is 103m south east recorded as a scrap yard.<br>27No records of Environment Agency /Natural resources waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites. The nearest is 127m south east as metal recycling site at Rothwell Street. |

Environmental Licenses, Permits and Registers

| | |
|---|---|
| Historical IPC Authorisations | None recorded within 500m |
| Part A (1) and IPPC Authorised Activities | 12No. recorded within 500m (the nearest 193m north, disposal of hazardous waste (involving physiochemical treatment). |
| Red List Discharge Consents (potentially harmful discharges to controlled waters) | None recorded within 500m. |
| List 1 and List 2 Dangerous Substances Inventory Sites | None recorded within 500m. |
| Part A (2) and Part B Activities | 6No. recorded within 500m the nearest is 95m south east as petrol vapour recovery. |
| Records of Category 3-4 Radioactive Substances Authorisations | None recorded within 500m. |
| Records of COMAH & NIHHS sites within 500m of the study site | None recorded within 500m. |

Radon

The Groundsure report assesses radon risk using data supplied by the Health Protection Agency (now Public Health England) along with BRE Document 'BR 211 - Radon: Guidance on the Protective Measures for New Dwellings'.

The Site is not in a Radon affected area, as less than 1% of properties are above the action level. Therefore, no radon protection measures are considered necessary.

Sensitive Land Uses

The development Site is situated within 2km of 3No. entries of SSSI records, the nearest is 901m east as Rochdale Canal Section. 3No record of Special Areas of Conservation (SAC the nearest is 901m east as Rochdale Canal Section. 1No. Ancient Woodland, Boggart Hole Clough is located 1857m north west. 2No. Local Nature Reserves are listed within 2km of the site, the nearest

is Clayton Vale 1216m north west of the site. The site is within a Nitrate Vulnerable Zone. There are no other records of designated environmentally sensitive sites.

# 4.0 CONCEPTUAL SITE MODEL

Risk to human health or environmental receptors is based on an assessment of one or more source-pathway-receptor linkages. The 'source' is any substance which has the potential to cause significant harm to a relevant receptor and the 'pathway' is any route by which contamination may travel to impact on a 'receptor'.

The Conceptual Site Model (CSM) summarises the principal contaminant sources, pathways and receptors for the Site and the likelihood of the existence of a pollutant linkage. The assessment is based on a presumed end use of a Commercial Land Use.

In accordance with Environment Agency, CLR 11 (2004), Defra guidance: Land Contamination: Risk Management (LCRM) framework and BSI 10175 (Code of Practice for Investigation of Potentially Contaminated Land), EEL have developed the initial CSM to identify potential contamination sources, migration pathways and receptors within the study area. These include the following:

| Source | Pathway | Receptor | Probability | Consequence | Risk | Comment |
|---|---|---|---|---|---|---|
| Potential for Made Ground | Dermal contact, ingestion and inhalation of soils dust. | Current Site Users | Low Likelihood | Moderate | Low risk | The risk to current site users from potential Made Ground is considered to be **MODERATE**. There is the low risk potential for current site users to come into contact with the materials potentially present as the site is completely covered in hardstanding, all be it in poor condition in some areas. |
| | | Adjacent land users | Unlikely | Moderate | Low risk | The risk is considered **LOW,** although usual dust control measures should be implemented as part of good site working practices during construction. |
| | | Future land users | Low Likelihood | Moderate | Low risk | The current proposal is for the development of 3 commercial units. The risk to future site users via direct exposure is therefore considered to be **LOW.** This assessment is based on the sensitivity of the receptor and the potential for contamination to be present beneath the assessment site. |
| | | Construction Workers | Low Likelihood | Moderate | Low/ Moderate risk | Construction workers are likely to be exposed to Made Ground materials during construction works and potentially impacted hydrocarbon impacted Made Ground. Should any remediation be required any potential contamination would be disturbed. Although exposure duration will be short-term appropriate health and safety measures should be adopted (in line with CDM and other relevant health and safety guidance) if so, a **LOW / MODERATE** risk to construction workers is anticipated. |
| Potential for hydrocarbon contamination from historic land use | Downward vertical migration of leachate within the Made Ground to shallow | Groundwater within the tidal flats or Kinnerton Sandstone Member | Low Likelihood | Moderate | Moderate risk | The superficial and bedrock materials beneath site both have a high permeability, therefore there is a potential for contamination within Made Ground deposits to migrate vertically through leaching, particularly in the event of potentially hydrocarbon impacted soils. The risk to groundwater within the |

| Source | Pathway | Receptor | Probability | Consequence | Risk | Comment |
|---|---|---|---|---|---|---|
| | groundwater or principal aquifer | | | | | underlying Collyhurst Sandstone Formation is therefore considered **MODERATE.** |
| | Vertical or lateral migration of ground gas associated with Made Ground / hydrocarbons. | Current Site Users | Low Likelihood | Moderate | Low/ moderate risk | The risk to current site users from ground gas generated by the presence of made ground and the potential for vapours generated from potential hydrocarbons is considered **LOW.** There is the potential for made ground and hydrocarbons to be present beneath the assessment site, however it is anticipated that potential contaminants associated with historic use are relatively localised and potentially capped vertically by cohesive superficial deposits. |
| | | Adjacent land users | Low Likelihood | Moderate | Low risk | The risk to adjacent users from ground gas generated by the presence of made ground or vapours from the hydrocarbons is considered **LOW.** There is the potential for made ground to be present beneath the assessment site. The materials on site are likely to be limited in lateral contamination therefore reducing the risk to adjacent land users. |
| Potential for asbestos within Made Ground soils | | Future land users | Low Likelihood | Moderate | Low / moderate risk | The risk to future site users from ground gas generated by the presence of made ground, hydrocarbons and/or potential asbestos is considered **LOW.** There is the potential for made ground, ACM's to be present beneath the assessment site and as such would require further recommendations to reduce or negate the risk for future users. As the long term use is intended to be commercial end use and any potential for contamination would have been dealt with during the redevelopment the long term risk would likely be reduced to low. |

| Source | Pathway | Receptor | Probability | Consequence | Risk | Comment |
|---|---|---|---|---|---|---|
| | | Construction Workers | Low Likelihood | Moderate | Moderate risk | The risk to construction works from ground gas generated by the presence of made ground, hydrocarbon vapours and potential asbestos is considered **MODERATE.** There is the potential for made ground to be present beneath the assessment site, however it is anticipated that the materials would undergo remediation under a suitable strategy prior to future construction thus reducing the risk classification to low. |

# 5.0 PRELIMINARY RISK ASSESSMENT

## 5.1 Risk Classification

The significance of the potential source-pathway-receptor linkages identified in the CSM can be assessed using the following criteria:

- Low risk – not likely to cause significant harm to human health or controlled waters. Remedial measures are not likely to be required;
- Moderate risk – it is possible that significant harm to human health or controlled waters could occur depending on site specific circumstances. Remedial measures may be required to mitigate potential risks;
- High risk – it is likely that significant harm to human health or controlled waters will occur unless appropriate remedial measures are incorporated into the development.

## 5.2 Risk to Human Health

There is insufficient information to ascertain the presence and potential level of ground contamination on site. Given the nature of the history of the site and the presence of made ground, the preliminary risk from these potential contamination sources is **Low** to **Moderate.**

## 5.3 Risk to Groundwater

The Site is recorded to be underlain by superficial deposits of Devensian Till supporting a Secondary A (undifferentiated), the bedrock deposits which supports a Principal aquifer and thus offers Limited protection from potential mobile contaminants. Also, given its development history it is considered that the risk of contamination to the underlying groundwater is **Moderate.**

## 5.4 Risk to Surface Waters

The risks posed to surface water features, are considered **low** based on the potential for contamination migration pathways at source and the nature and distance of the receptor.

## 5.5 Risks to Buildings, Foundations and Services

Any potential future redevelopment of the Site will include the construction of new foundations, which are primarily affected by sulphate concentrations. Given the limited number of identified contamination sources, it is considered that the risk to future building foundations is **Moderate.**

Services may be affected by the presence of any aggressive contaminants which may corrode or penetrate services. Water supply pipes can be susceptible to penetration by hydrocarbons which may then affect the quality of the water supply. Given the potential sources of contamination identified, it is considered likely that the risk to services is **Moderate**.

# 6.0 RECOMMENDATIONS

6.1 In order to confirm the CSM and ascertain the environmental risks, the following works are recommended prior to redevelopment:

- Full intrusive ground investigation to assess the shallow ground conditions, including a program of ground gas and groundwater monitoring and obtain samples for laboratory analysis for geotechnical and environmental outputs.
- Laboratory chemical testing of soils to confirm or otherwise the findings of the Conceptual Site Model and enable a generic quantitative risk and geotechnical assessment to be carried out.
- Factual and interpretative reporting, providing recommendations for the future development.

6.2 The final Risk Assessment report should be submitted to the Planning Department of the Local Authority for comment and approval.

# APPENDICES

**Appendix 1 Photographic Record**

**Appendix 2 Groundsure Reports**

# Appendix 1

# Photographic Record



Plate 1: General view of access road into Reliance Trading Estate



Plate 2: View, facing south into the Site access gate



Plate 3: Second Site access gate located in the north east boundary



Plate 4: View facing north west to north east; scrap metal, car shell, Royal Mail Trailer and container located in the east of Site



Plate 5: View facing west to east, shipping container with car and associated accoutrement



Plate 6: 2No. Gas containers Helium and Argon Mix (content quantity unknown) located to the north east of Site before second access gate.



Plate 7: View of the north east corner



Plate 8: View from east to west

# Appendix 2

# Groundsure Reports

Egniol Environmental Ltd

EGNIOL ENVIRONMENTAL LTD, UNIT 7, LLYS ONNEN, FFORDD Y LLYN,
PARC MENAI, LL57 4DF

| | |
|---|---|
| Groundsure Reference: | GS-6157418 |
| Your Reference: | 7473 |
| Report Date | 9 Jul 2019 |
| Report Delivery Method: | Email - pdf |

## Enviro Insight

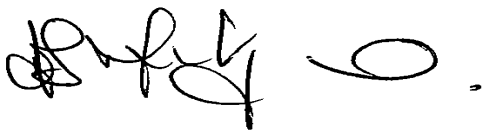
Address: UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviro Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

Enc.
Groundsure Enviroinsight

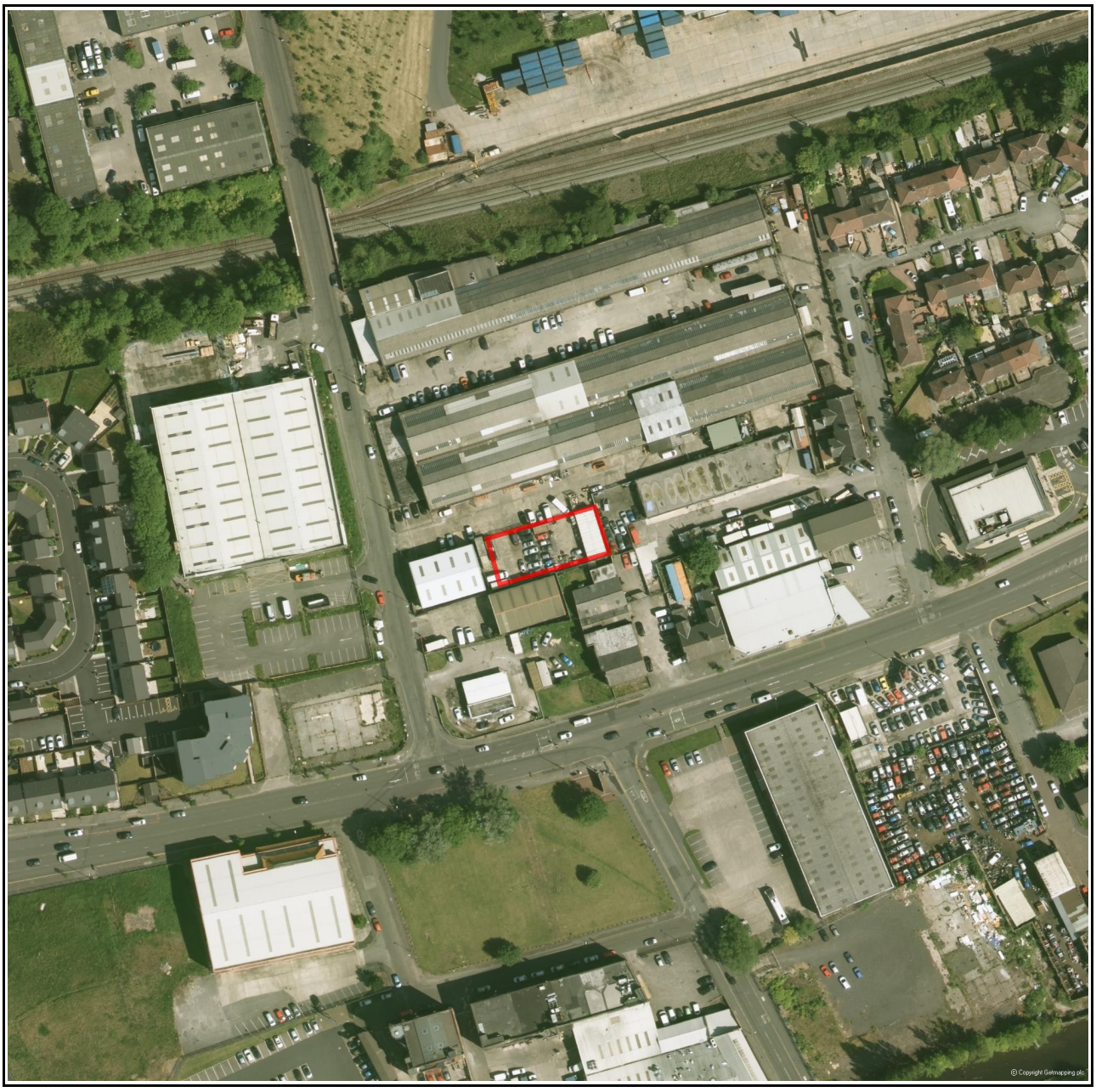
# Enviro Insight

| | |
|---|---|
| **Address:** | **UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG** |
| **Date:** | **9 Jul 2019** |
| **Reference:** | **GS-6157418** |
| **Client:** | **Egniol Environmental Ltd** |

NW N NE

W E

SW S SE




| | |
|---|---|
| Aerial Photograph Capture date: | 11-Jun-2015 |
| Grid Reference: | 388134,400783 |
| Site Size: | 0.0537ha |

Report Reference: GS-6157418
Client Reference: 7473

# Contents Page


Contents Page 3
Overview of Findings 6
Using this report 10
1. Historical Land Use 11
1. Historical Industrial Sites 12
1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping....12
1.2 Additional Information – Historical Tank Database....18
1.3 Additional Information – Historical Energy Features Database....20
1.4 Additional Information – Historical Petrol and Fuel Site Database....21
1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database....21
1.6 Historical military sites....22
1.7 Potentially Infilled Land....22
2. Environmental Permits, Incidents and Registers Map 26
2. Environmental Permits, Incidents and Registers 27
2.1 Industrial Sites Holding Licences and/or Authorisations....27
2.1.1 Records of historic IPC Authorisations within 500m of the study site:....27
2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:....27
2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:....29
2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:....29
2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:....29
2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site: ....29
2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:....30
2.1.8 Records of Licensed Discharge Consents within 500m of the study site:....30
2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site: ....30
2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:....31
2.2 Dangerous or Hazardous Sites....31
2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents....31
2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:....31
2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:....33
2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990....33
3. Landfill and Other Waste Sites Map 34
3. Landfill and Other Waste Sites 35
3.1 Landfill Sites....35
3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site: ....35
3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site: ....35
3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:....38
3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:....38
3.2 Other Waste Sites....40
3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site: ....40
3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site: ....43
4. Current Land Use Map 49
4. Current Land Uses 50
4.1 Current Industrial Data....50
4.2 Petrol and Fuel Sites....52
4.3 National Grid High Voltage Underground Electricity Transmission Cables....53
4.4 National Grid High Pressure Gas Transmission Pipelines....53

5. Geology 54
5.1 Artificial Ground and Made Ground 54
5.2 Superficial Ground and Drift Geology 54
5.3 Bedrock and Solid Geology 54
6 Hydrogeology and Hydrology 55
6a. Aquifer Within Superficial Geology 55
6b. Aquifer Within Bedrock Geology and Abstraction Licences 56
6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences 57
6d. Hydrogeology – Source Protection Zones within confined aquifer 58
6e. Hydrology – Watercourse Network and River Quality 59
6.Hydrogeology and Hydrology 60
6.1 Aquifer within Superficial Deposits 60
6.2 Aquifer within Bedrock Deposits 60
6.3 Groundwater Abstraction Licences 61
6.4 Surface Water Abstraction Licences 61
6.5 Potable Water Abstraction Licences 61
6.6 Source Protection Zones 62
6.7 Source Protection Zones within Confined Aquifer 62
6.8 Groundwater Vulnerability and Soil Leaching Potential 62
6.9 River Quality 62
6.9.1 Biological Quality: 62
6.9.2 Chemical Quality: 63
6.10 Ordnance Survey MasterMap Water Network 65
6.11 Surface Water Features 67
7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea) 68
7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map 69
7 Flooding 70
7.1 River and Coastal Zone 2 Flooding 70
7.2 River and Coastal Zone 3 Flooding 70
7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating 70
7.4 Flood Defences 70
7.5 Areas benefiting from Flood Defences 70
7.6 Areas benefiting from Flood Storage 71
7.7 Groundwater Flooding Susceptibility Areas 71
7.8 Groundwater Flooding Confidence Areas 71
8. Designated Environmentally Sensitive Sites Map 72
8. Designated Environmentally Sensitive Sites 73
8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 73
8.2 Records of National Nature Reserves (NNR) within 2000m of the study site: 73
8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: 73
8.4 Records of Special Protection Areas (SPA) within 2000m of the study site: 74
8.5 Records of Ramsar sites within 2000m of the study site: 74
8.6 Records of Ancient Woodland within 2000m of the study site: 74
8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site: 74
8.8 Records of World Heritage Sites within 2000m of the study site: 74
8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: 75
8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: 75
8.11 Records of National Parks (NP) within 2000m of the study site: 75
8.12 Records of Nitrate Sensitive Areas within 2000m of the study site: 75
8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site: 75

8.14 Records of Green Belt land within 2000m of the study site:.....75
9. Natural Hazards Findings 77
9.1 Detailed BGS GeoSure Data.....77
9.1.1 Shrink Swell.....77
9.1.2 Landslides.....77
9.1.3 Soluble Rocks.....77
9.1.4 Compressible Ground.....78
9.1.5 Collapsible Rocks.....78
9.1.6 Running Sand.....78
9.2 Radon.....79
9.2.1 Radon Affected Areas.....79
9.2.2 Radon Protection.....79
10. Mining 80
10.1 Coal Mining.....80
10.2 Non-Coal Mining.....80
10.3 Brine Affected Areas .....80
Contact Details 81
Standard Terms and Conditions 83

# Overview of Findings

For further details on each dataset, please refer to each individual section in the main report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Historical Industrial Sites | On-site | 0-50 | 51-250 | 251-500 |
|---|---|---|---|---|
| 1.1 Potentially Contaminative Uses identified from 1:10,000 scale mapping | 6 | 4 | 85 | 173 |
| 1.2 Additional Information – Historical Tank Database | 0 | 0 | 27 | 30 |
| 1.3 Additional Information – Historical Energy Features Database | 0 | 0 | 16 | 47 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database | 0 | 0 | 0 | 0 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database | 0 | 0 | 6 | 1 |
| 1.6 Historical military sites | 0 | 0 | 0 | 0 |
| 1.7 Potentially Infilled Land | 3 | 3 | 40 | 82 |

| Section 2: Environmental Permits, Incidents and Registers | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 2.1 Industrial Sites Holding Environmental Permits and/or Authorisations | | | | |
| 2.1.1 Records of historic IPC Authorisations | 0 | 0 | 0 | 0 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities | 0 | 0 | 12 | 0 |
| 2.1.3 Records of Red List Discharge Consents | 0 | 0 | 0 | 0 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.5 Records of List 2 Dangerous Substances Inventory sites | 0 | 0 | 0 | 0 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements | 0 | 0 | 4 | 2 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations | 0 | 0 | 0 | 0 |
| 2.1.8 Records of Licensed Discharge Consents | 0 | 0 | 0 | 1 |
| 2.1.9 Records of Water Industry Referrals | 0 | 0 | 0 | 0 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site | 0 | 0 | 1 | 0 |
| 2.2 Records of COMAH and NIHHS sites | 0 | 0 | 0 | 0 |
| 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents | | | | |
| 2.3.1 National Incidents Recording System, List 2 | 0 | 0 | 3 | 11 |
| 2.3.2 National Incidents Recording System, List 1 | 0 | 0 | 0 | 0 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990 | 0 | 0 | 0 | 0 |

| Section 3: Landfill and Other Waste Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
|---|---|---|---|---|---|---|
| 3.1 Landfill Sites | | | | | | |
| 3.1.1 Environment Agency/Natural Resources Wales Registered Landfill Sites | 0 | 0 | 0 | 0 | 0 | Not searched |
| 3.1.2 Environment Agency/Natural Resources Wales Historic Landfill Sites | 0 | 0 | 2 | 4 | 4 | 9 |
| 3.1.3 BGS/DoE Landfill Site Survey | 0 | 0 | 0 | 0 | 1 | 1 |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records | 0 | 0 | 0 | 1 | 0 | 49 |
| 3.2 Landfill and Other Waste Sites Findings | | | | | | |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0 | 0 | 24 | 12 | Not searched | Not searched |
| 3.2.2 Environment Agency/Natural Resources Wales Licensed Waste Sites | 0 | 0 | 9 | 12 | 0 | 6 |

| Section 4: Current Land Use | On-site | 0-50m | 51-250 | 251-500 |
|---|---|---|---|---|
| 4.1 Current Industrial Sites Data | 0 | 8 | 26 | Not searched |
| 4.2 Records of Petrol and Fuel Sites | 0 | 0 | 2 | 3 |
| 4.3 National Grid Underground Electricity Cables | 0 | 0 | 0 | 0 |
| 4.4 National Grid Gas Transmission Pipelines | 0 | 0 | 0 | 0 |

| Section 5: Geology | |
|---|---|
| 5.1 Records of Artificial Ground and Made Ground present beneath the study site | None identified |
| 5.2 Records of Superficial Ground and Drift Geology present beneath the study site | Identified |
| 5.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section. | |

| Section 6: Hydrogeology and Hydrology | 0-500m |
|---|---|
| 6.1 Records of Strata Classification in the Superficial Geology within 500m of the study site | Identified |
| 6.2 Records of Strata Classification in the Bedrock Geology within 500m of the study site | Identified |

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 6.3 Groundwater Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 3 |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.5 Potable Water Abstraction Licences (within 2000m of the study site) | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.6 Source Protection Zones (within 500m of the study site) | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.7 Source Protection Zones within Confined Aquifer | 0 | 0 | 0 | 0 | Not searched | Not searched |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site) | 1 | 0 | 0 | 0 | Not searched | Not searched |

## Section 6: Hydrogeology and Hydrology

| | 0-500m | | | | | |
|---|---|---|---|---|---|---|
| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-1500 |
| 6.9 Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site | No | No | No | No | Yes | Yes |
| 6.10 Ordnance Survey MasterMap Water Network entries within 500m of the site | 0 | 0 | 8 | 16 | Not searched | Not searched |
| 6.11 Surface water features within 250m of the study site | No | No | Yes | Not searched | Not searched | Not searched |

## Section 7: Flooding

| | |
|---|---|
| 7.1 Enviroment Agency Zone 2 floodplains within 250m of the study site | None identified |
| 7.2 Environment Agency/Natural Resources Wales Zone 3 floodplains within 250m of the study site | None identified |
| 7.3 Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site | Very Low |
| 7.4 Flood Defences within 250m of the study site | None identified |
| 7.5 Areas benefiting from Flood Defences within 250m of the study site | None identified |
| 7.6 Areas used for Flood Storage within 250m of the study site | None identified |
| 7.7 Maximum BGS Groundwater Flooding susceptibility within 50m of the study site | Limited potential |
| 7.8 BGS confidence rating for the Groundwater Flooding susceptibility areas | Low |

## Section 8: Designated Environmentally Sensitive Sites

| | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.1 Records of Sites of Special Scientific Interest (SSSI) | 0 | 0 | 0 | 0 | 1 | 2 |
| 8.2 Records of National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.3 Records of Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 1 | 2 |
| 8.4 Records of Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.5 Records of Ramsar sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.6 Records of Ancient Woodlands | 0 | 0 | 0 | 0 | 0 | 1 |
| 8.7 Records of Local Nature Reserves (LNR) | 0 | 0 | 0 | 0 | 0 | 2 |
| 8.8 Records of World Heritage Sites | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.9 Records of Environmentally Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |

| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|---|---|---|---|---|---|---|
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.11 Records of National Parks | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.12 Records of Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.13 Records of Nitrate Vulnerable Zones | 1 | 0 | 0 | 0 | 0 | 1 |
| 8.14 Records of Green Belt land | 0 | 0 | 0 | 0 | 0 | 7 |

## Section 9: Natural Hazards

| | |
|---|---|
| 9.1 Maximum risk of natural ground subsidence | Very Low |
| 9.1.1 Maximum Shrink-Swell hazard rating identified on the study site | Very Low |
| 9.1.2 Maximum Landslides hazard rating identified on the study site | Very Low |
| 9.1.3 Maximum Soluble Rocks hazard rating identified on the study site | Negligible |
| 9.1.4 Maximum Compressible Ground hazard rating identified on the study site | Negligible |
| 9.1.5 Maximum Collapsible Rocks hazard rating identified on the study site | Very Low |
| 9.1.6 Maximum Running Sand hazard rating identified on the study site | Very Low |
| 9.2 Radon | |
| 9.2.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. |
| 9.2.2 Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? | No radon protective measures are necessary. |

## Section 10: Mining

| | |
|---|---|
| 10.1 Coal mining areas within 75m of the study site | Identified |
| 10.2 Non-Coal Mining areas within 50m of the study site boundary | None identified |
| 10.3 Brine affected areas within 75m of the study site | None identified |

# Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between Groundsure and the Client. The document contains the following sections:

### 1. Historical Industrial Sites

Provides information on past land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. Potentially Infilled Land features are also included. This search is conducted using radii of up to 500m.

### 2. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

### 3. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

### 4. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure gas pipelines and underground electricity transmission lines.

### 5. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

### 6. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licences, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

### 7. Flooding

Provides information on river and coastal flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

### 8. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

### 9. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence and radon..

### 10. Mining

Provides information on areas of coal and non-coal mining and brine affected areas.

### 11. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, Groundsure provide a free Technical Helpline (08444 159000) for further information and guidance.

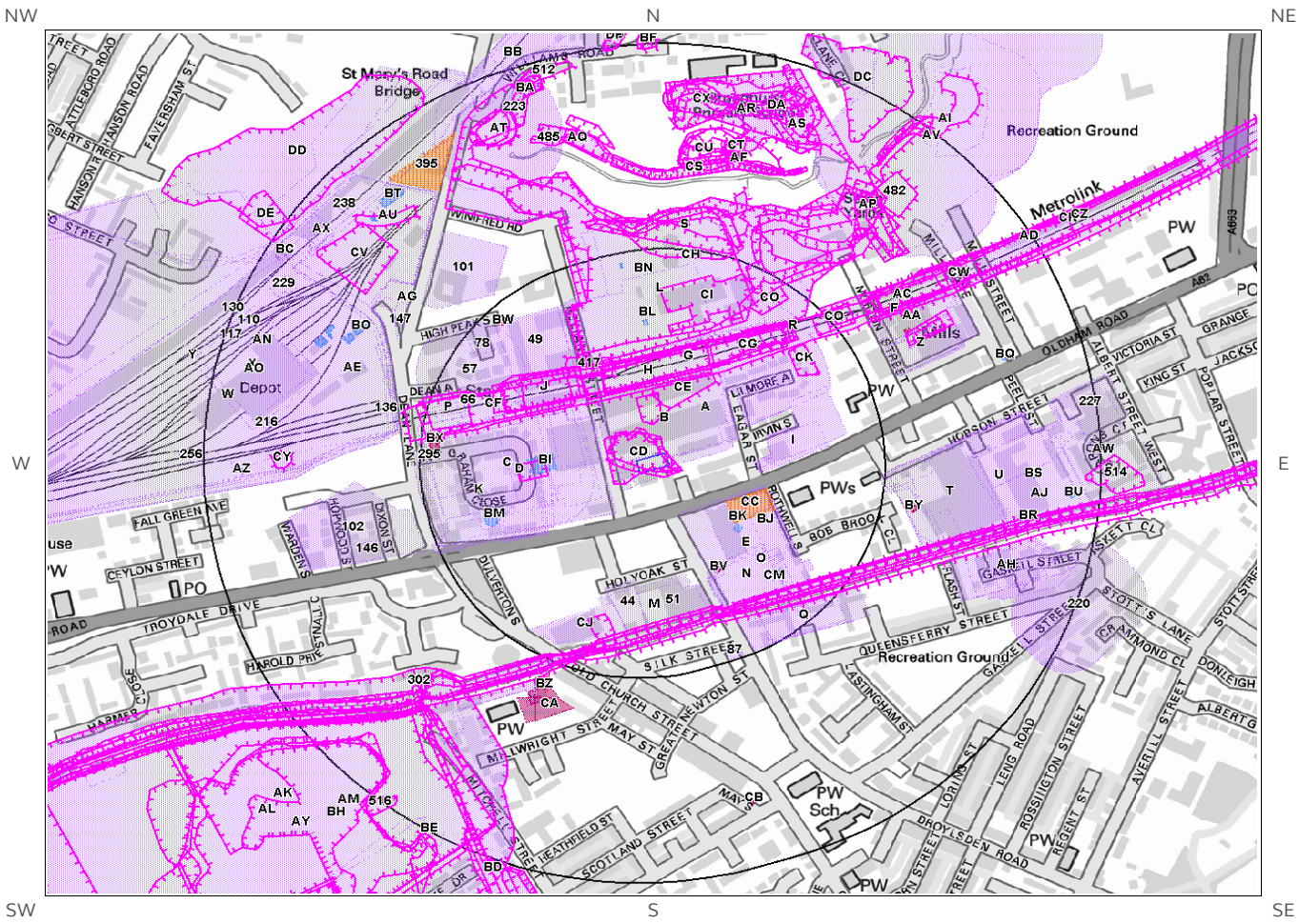
### Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier “A” on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as “Not Shown”.

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

# 1. Historical Land Use




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

250
500
Search Buffers (m)

Historical 1:10,000 and 1:10,560 scale mapping

Industrial Land Use

Potentially Infilled Land

Historical 1:2,500, 1:1,250 and 1:500 scale mapping

Energy Features

Petrol Stations

Historical military sites

Tanks

Garages

# 1. Historical Industrial Sites

## 1.1 Potentially Contaminative Uses identified from 1:10,000 scale Mapping

The systematic analysis of data extracted from standard 1:10,560 and 1:10,000 scale historical maps provides the following information:

Records of sites with a potentially contaminative past land use within 500m of the search boundary: 268

| ID | Distance [m] | Direction | Use | Date |
|---|---|---|---|---|
| 1B | 0 | On Site | Sawmill | 1956 |
| 2A | 0 | On Site | Timber Yard | 1938 |
| 3A | 0 | On Site | Timber Yard | 1933 |
| 4B | 0 | On Site | Unspecified Works | 1966 |
| 5B | 0 | N | Unspecified Works | 1980 |
| 6B | 0 | N | Unspecified Works | 1975 |
| 7D | 38 | W | Unspecified Works | 1966 |
| 8C | 38 | W | Unspecified Warehouses | 1988 |
| 9C | 42 | W | Unspecified Warehouses | 1980 |
| 10D | 49 | W | Sawmills | 1923 |
| 11D | 53 | W | Sawmills | 1891 |
| 12CE | 55 | N | Unspecified Pit | 1938 |
| 13C | 59 | W | Sawmill | 1956 |
| 14E | 60 | S | Unspecified Mills | 1975 |
| 15E | 60 | S | Unspecified Mills | 1966 |
| 16E | 71 | SE | Unspecified Commercial/Industrial | 1988 |
| 17F | 80 | N | Cuttings | 1938 |
| 18F | 80 | N | Cuttings | 1921 |
| 19F | 80 | N | Cuttings | 1906 |
| 20F | 80 | N | Cuttings | 1933 |
| 21H | 84 | N | Cuttings | 1923 |
| 22G | 87 | N | Cuttings | 1966 |
| 23G | 88 | N | Cuttings | 1980 |
| 24G | 88 | N | Cuttings | 1975 |
| 25BJ | 89 | SE | Brewery | 1891 |
| 26H | 90 | N | Cuttings | 1956 |
| 27H | 90 | N | Cuttings | 1891 |
| 28J | 99 | NW | Cuttings | 1988 |
| 29I | 99 | E | Unspecified Works | 1966 |
| 30CF | 100 | NW | Cuttings | 1923 |
| 31O | 101 | SE | Unspecified Works | 1980 |
| 32I | 101 | E | Unspecified Works | 1988 |
| 33I | 101 | E | Unspecified Works | 1980 |

| | | | | |
|---|---|---|---|---|
| 34J | 103 | NW | Cuttings | 1980 |
| 35K | 113 | W | Unspecified Commercial/Industrial | 1938 |
| 36K | 113 | W | Sawmills | 1906 |
| 37K | 113 | W | Sawmills | 1921 |
| 38CG | 120 | NE | Cuttings | 1923 |
| 39S | 121 | N | Unspecified Ground Workings | 1921 |
| 40BL | 126 | N | Timber Yard | 1956 |
| 41L | 127 | N | Timber Yard | 1980 |
| 42BN | 128 | N | Unspecified Ground Workings | 1906 |
| 43L | 129 | N | Timber Yard | 1975 |
| 44 | 130 | S | Silk Mill | 1851 |
| 45N | 133 | SE | Unspecified Mill | 1891 |
| 46M | 133 | S | Unspecified Works | 1906 |
| 47M | 133 | S | Unspecified Commercial/Industrial | 1923 |
| 48M | 133 | S | Unspecified Commercial/Industrial | 1921 |
| 49 | 135 | NW | Unspecified Works | 1980 |
| 50N | 136 | SE | Unspecified Mill | 1921 |
| 51 | 140 | S | Unspecified Works | 1980 |
| 52N | 140 | SE | Unspecified Mill | 1906 |
| 53N | 140 | SE | Unspecified Mill | 1923 |
| 54CH | 140 | N | Unspecified Ground Workings | 1923 |
| 55N | 141 | SE | Cotton Mill | 1851 |
| 56CI | 148 | N | Refuse Destructor | 1988 |
| 57 | 158 | NW | Unspecified Station | 1988 |
| 58CJ | 161 | S | Brewery | 1851 |
| 59BM | 169 | W | Unspecified Tank | 1988 |
| 60CK | 181 | NE | Unspecified Heap | 1923 |
| 61O | 184 | S | Disused Canal | 1980 |
| 62O | 184 | S | Disused Canal | 1988 |
| 63P | 196 | W | Cuttings | 1988 |
| 64P | 201 | W | Railway Station | 1956 |
| 65Q | 202 | SE | Cotton Mill | 1851 |
| 66 | 202 | W | Railway Building | 1923 |
| 67CO | 203 | NE | Cuttings | 1923 |
| 68P | 204 | W | Railway Station | 1938 |
| 69P | 204 | W | Railway Station | 1891 |
| 70P | 204 | W | Railway Station | 1933 |
| 71P | 204 | W | Railway Station | 1906 |
| 72P | 204 | W | Railway Station | 1921 |
| 73P | 204 | W | Railway Station | 1923 |
| 74P | 205 | W | Railway Station | 1966 |
| 75P | 205 | W | Railway Station | 1975 |

| | | | | |
|---|---|---|---|---|
| 76R | 208 | NE | Railway Building | 1923 |
| 77Q | 210 | SE | Unspecified Mill | 1923 |
| 78 | 212 | NW | Unspecified Station | 1980 |
| 79Q | 212 | SE | Unspecified Mill | 1921 |
| 80Q | 212 | SE | Unspecified Mill | 1938 |
| 81Q | 212 | SE | Unspecified Mill | 1891 |
| 82Q | 212 | SE | Unspecified Mill | 1906 |
| 83Q | 212 | SE | Unspecified Mill | 1933 |
| 84R | 220 | NE | Railway Building | 1923 |
| 85CP | 222 | NE | Unspecified Ground Workings | 1956 |
| 86CQ | 228 | NE | Cuttings | 1923 |
| 87 | 235 | S | Police Station | 1988 |
| 88S | 238 | N | Unspecified Heap | 1988 |
| 89T | 244 | E | Unspecified Mills | 1923 |
| 90AD | 245 | NE | Cuttings | 1956 |
| 91U | 247 | E | Unspecified Works | 1966 |
| 92T | 248 | E | Unspecified Mills | 1906 |
| 93T | 248 | E | Unspecified Mills | 1938 |
| 94T | 248 | E | Unspecified Mills | 1933 |
| 95T | 248 | E | Unspecified Mills | 1921 |
| 96T | 253 | E | Unspecified Mills | 1956 |
| 97S | 253 | N | Unspecified Heap | 1966 |
| 98U | 257 | E | Unspecified Mills | 1975 |
| 99U | 259 | E | Unspecified Mill | 1988 |
| 100U | 259 | E | Unspecified Mill | 1980 |
| 101 | 262 | NW | Unspecified Depot | 1980 |
| 102 | 264 | W | Unspecified Works | 1980 |
| 103S | 264 | N | Unspecified Ground Workings | 1956 |
| 104U | 268 | E | Unspecified Mills | 1891 |
| 105AB | 271 | NE | Unspecified Ground Workings | 1906 |
| 106V | 274 | SW | Tannery | 1921 |
| 107V | 274 | SW | Tannery | 1906 |
| 108W | 275 | W | Railway Sidings | 1891 |
| 109W | 275 | W | Unspecified Commercial/Industrial | 1891 |
| 110 | 275 | W | Railway Sidings | 1956 |
| 111V | 275 | SW | Tannery | 1923 |
| 112X | 278 | W | Railway Sidings | 1980 |
| 113X | 278 | W | Unspecified Depot | 1980 |
| 114X | 278 | W | Unspecified Depot | 1988 |
| 115X | 278 | W | Railway Sidings | 1988 |
| 116AN | 278 | W | Railway Sidings | 1975 |
| 117 | 281 | W | Railway Sidings | 1966 |
| 118Y | 281 | W | Carriage and Wagon | 1938 |

| | | | | |
|---|---|---|---|---|
| | | | Works | |
| 119Y | 281 | W | Carriage and Wagon Works | 1921 |
| 120Y | 281 | W | Railway Sidings | 1906 |
| 121Y | 281 | W | Carriage and Wagon Works | 1933 |
| 122Y | 281 | W | Railway Sidings | 1906 |
| 123Y | 281 | W | Railway Sidings | 1933 |
| 124Y | 281 | W | Railway Sidings | 1921 |
| 125Y | 281 | W | Railway Sidings | 1938 |
| 126Z | 282 | NE | Unspecified Mill | 1923 |
| 127AA | 282 | NE | Unspecified Mill | 1923 |
| 128Z | 286 | E | Unspecified Mill | 1933 |
| 129Z | 286 | E | Unspecified Mill | 1938 |
| 130 | 286 | W | Railway Sidings | 1923 |
| 131AC | 287 | NE | Cuttings | 1923 |
| 132Z | 288 | E | Unspecified Mill | 1921 |
| 133AA | 288 | NE | Unspecified Mill | 1938 |
| 134AB | 289 | N | Unspecified Ground Workings | 1938 |
| 135AB | 289 | N | Unspecified Ground Workings | 1933 |
| 136 | 293 | W | Railway Building | 1923 |
| 137AA | 294 | NE | Unspecified Mill | 1921 |
| 138AA | 294 | NE | Unspecified Mill | 1933 |
| 139AA | 295 | NE | Unspecified Mills | 1988 |
| 140AA | 295 | NE | Unspecified Mills | 1980 |
| 141CR | 300 | NE | Cuttings | 1891 |
| 142AC | 303 | NE | Cuttings | 1966 |
| 143AD | 305 | NE | Cuttings | 1980 |
| 144AD | 305 | NE | Cuttings | 1975 |
| 145AD | 305 | NE | Cuttings | 1988 |
| 146 | 311 | W | Police Station | 1975 |
| 147 | 315 | NW | Railway Building | 1956 |
| 148AG | 325 | NW | Railway Building | 1956 |
| 149AK | 329 | SW | Brick Works | 1933 |
| 150AE | 333 | W | Railway Building | 1956 |
| 151AE | 333 | W | Railway Building | 1975 |
| 152AE | 333 | W | Railway Building | 1966 |
| 153AF | 334 | N | Old Mill Pond | 1938 |
| 154AF | 334 | N | Old Mill Pond | 1933 |
| 155AF | 334 | N | Old Mill Pond | 1921 |
| 156AG | 334 | NW | Railway Building | 1956 |
| 157AP | 339 | NE | Sand Pit | 1891 |
| 158AH | 341 | E | Unspecified Works | 1975 |
| 159AH | 341 | E | Engineering Works | 1956 |
| 160AH | 341 | E | Unspecified | 1966 |

| | | | | |
|---|---|---|---|---|
| | | | Commercial/Industrial | |
| 161V | 346 | SW | Tannery | 1891 |
| 162AV | 355 | NE | Dye Works | 1891 |
| 163AI | 356 | NE | Disused Dye Works | 1906 |
| 164AI | 356 | NE | Disused Dye Works | 1921 |
| 165AT | 359 | N | Dye Works | 1906 |
| 166AH | 360 | E | Unspecified Works | 1980 |
| 167AQ | 361 | N | Old Mill Pond | 1923 |
| 168CT | 371 | N | Refuse Heap | 1933 |
| 169AH | 372 | E | Unspecified Mill | 1921 |
| 170AH | 372 | E | Unspecified Mill | 1938 |
| 171AH | 372 | E | Unspecified Mill | 1906 |
| 172AH | 372 | E | Unspecified Mill | 1933 |
| 173AH | 372 | E | Unspecified Mill | 1923 |
| 174CV | 373 | NW | Cuttings | 1956 |
| 175AJ | 374 | E | Unspecified Mills | 1906 |
| 176AJ | 374 | E | Unspecified Commercial/Industrial | 1921 |
| 177AR | 374 | N | Sand Pit | 1938 |
| 178AL | 377 | SW | Brick Works | 1956 |
| 179AM | 377 | SW | Brick Works | 1906 |
| 180AK | 379 | SW | Brick Works | 1938 |
| 181AH | 379 | E | Unspecified Mill | 1891 |
| 182AL | 381 | SW | Disused Brick Works | 1975 |
| 183AM | 381 | SW | Brick Works | 1923 |
| 184AL | 384 | SW | Unspecified Works | 1966 |
| 185AN | 385 | W | Engine Shed | 1933 |
| 186AO | 385 | W | Engine Shed | 1921 |
| 187AO | 385 | W | Engine Shed | 1891 |
| 188AO | 385 | W | Engine Shed | 1906 |
| 189AO | 385 | W | Engine Shed | 1923 |
| 190AO | 385 | W | Engine Shed | 1938 |
| 191AO | 386 | W | Engine Shed | 1966 |
| 192AO | 386 | W | Engine Shed | 1975 |
| 193AO | 386 | W | Engine Shed | 1956 |
| 194AM | 393 | SW | Brick Works | 1921 |
| 195AU | 393 | NW | Unspecified Ground Workings | 1923 |
| 196AP | 394 | NE | Cuttings | 1975 |
| 197CW | 394 | NE | Cuttings | 1923 |
| 198CX | 395 | N | Unspecified Ground Workings | 1933 |
| 199AQ | 396 | N | Unspecified Ground Workings | 1956 |
| 200AS | 397 | NE | Sand Pit | 1923 |
| 201CY | 398 | W | Unspecified Pit | 1956 |
| 202AR | 406 | N | Unspecified Ground | 1906 |

| | | | | |
|---|---|---|---|---|
| | | | Workings | |
| 203AS | 407 | N | Sand Pit | 1921 |
| 204CZ | 409 | NE | Cuttings | 1966 |
| 205AT | 412 | N | Unspecified Mill | 1891 |
| 206AI | 415 | NE | Dye Works | 1851 |
| 207DA | 416 | N | Sand Pit | 1933 |
| 208AT | 416 | N | Unspecified Heap | 1938 |
| 209AT | 416 | N | Unspecified Heap | 1933 |
| 210DB | 418 | N | Unspecified Ground Workings | 1923 |
| 211AT | 421 | NW | Unspecified Heap | 1923 |
| 212AU | 421 | NW | Railway Building | 1975 |
| 213AU | 421 | NW | Railway Building | 1966 |
| 214BT | 423 | NW | Unspecified Tanks | 1956 |
| 215AD | 424 | NE | Cuttings | 1923 |
| 216 | 424 | W | Railway Building | 1923 |
| 217AV | 428 | NE | Mill Pond | 1933 |
| 218AV | 428 | NE | Mill Pond | 1921 |
| 219AV | 428 | NE | Mill Pond | 1923 |
| 220 | 432 | SE | Engineering Works | 1891 |
| 221AV | 434 | NE | Mill Pond | 1891 |
| 222DC | 436 | NE | Refuse Heap | 1966 |
| 223 | 441 | N | Print Works | 1851 |
| 224AW | 442 | E | Engineering Works | 1933 |
| 225AW | 442 | E | Engineering Works | 1938 |
| 226BH | 443 | SW | Unspecified Pit | 1906 |
| 227 | 444 | E | Unspecified Works | 1975 |
| 228AX | 444 | NW | Railway Building | 1975 |
| 229 | 445 | NW | Railway Building | 1923 |
| 230AZ | 446 | W | Railway Building | 1923 |
| 231AX | 446 | NW | Railway Station | 1906 |
| 232AX | 446 | NW | Railway Station | 1921 |
| 233AX | 446 | NW | Railway Station | 1933 |
| 234AX | 446 | NW | Railway Station | 1938 |
| 235AX | 446 | NW | Railway Station | 1923 |
| 236AX | 447 | NW | Railway Station | 1956 |
| 237AX | 449 | NW | Railway Station | 1891 |
| 238 | 449 | NW | Railway Building | 1966 |
| 239AX | 450 | NW | Railway Station | 1966 |
| 240BA | 456 | N | Unspecified Pit | 1923 |
| 241AY | 456 | SW | Unspecified Ground Workings | 1921 |
| 242AY | 458 | SW | Unspecified Ground Workings | 1923 |
| 243AK | 459 | SW | Unspecified Pit | 1933 |
| 244AK | 459 | SW | Unspecified Pit | 1938 |
| 245AZ | 461 | W | Railway Building | 1923 |

| | | | | |
|---|---|---|---|---|
| 246BA | 463 | N | Unspecified Mill | 1851 |
| 247BA | 466 | N | Unspecified Pit | 1906 |
| 248BD | 472 | SW | Unspecified Pit | 1921 |
| 249BC | 472 | NW | Railway Station | 1975 |
| 250BB | 473 | NW | Railway Sidings | 1933 |
| 251BB | 473 | NW | Railway Sidings | 1921 |
| 252BC | 475 | NW | Railway Building | 1966 |
| 253BD | 475 | SW | Unspecified Pit | 1923 |
| 254BC | 475 | NW | Railway Building | 1923 |
| 255AI | 478 | NE | Disused Dye Works | 1923 |
| 256 | 482 | W | Railway Building | 1923 |
| 257DD | 484 | NW | Unspecified Pit | 1980 |
| 258BE | 488 | SW | Railway Sidings | 1921 |
| 259DE | 489 | NW | Cuttings | 1956 |
| 260BE | 490 | SW | Railway Sidings | 1923 |
| 261BF | 493 | N | Unspecified Pit | 1938 |
| 262BF | 493 | N | Unspecified Pit | 1906 |
| 263BF | 495 | N | Unspecified Pit | 1923 |
| 264DF | 495 | N | Unspecified Ground Workings | 1906 |
| 265BG | 497 | N | Unspecified Ground Workings | 1933 |
| 266BG | 497 | N | Unspecified Ground Workings | 1921 |
| 267BH | 497 | SW | Railway Sidings | 1956 |
| 268BB | 498 | N | Railway Sidings | 1938 |

## 1.2 Additional Information – Historical Tank Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical tanks within 500m of the search boundary: 57

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 269BI | 92 | W | Tanks | 1952 |
| 270BI | 92 | W | Tanks | 1950 |
| 271BI | 92 | W | Tanks | 1969 |
| 272BI | 92 | W | Tanks | 1950 |
| 273BJ | 101 | SE | Tanks | 1993 |
| 274BJ | 101 | SE | Tanks | 1994 |
| 275BJ | 101 | SE | Tanks | 1989 |
| 276BK | 102 | SE | Unspecified Tank | 1986 |
| 277BJ | 105 | SE | Unspecified Tank | 1986 |
| 278BK | 106 | SE | Unspecified Tank | 1893 |

| | | | | |
|---|---|---|---|---|
| 279D | 117 | W | Unspecified Tank | 1950 |
| 280D | 117 | W | Unspecified Tank | 1950 |
| 281D | 117 | W | Unspecified Tank | 1950 |
| 282BL | 158 | N | Unspecified Tank | 1994 |
| 283BL | 158 | N | Unspecified Tank | 1993 |
| 284BL | 158 | N | Unspecified Tank | 1989 |
| 285BM | 172 | W | Unspecified Tank | 1993 |
| 286BM | 173 | W | Unspecified Tank | 1990 |
| 287BM | 173 | W | Unspecified Tank | 1988 |
| 288O | 180 | SE | Unspecified Tank | 1989 |
| 289O | 181 | SE | Unspecified Tank | 1994 |
| 290O | 181 | SE | Unspecified Tank | 1993 |
| 291O | 181 | SE | Unspecified Tank | 1986 |
| 292CM | 182 | SE | Unspecified Tank | 1893 |
| 293BN | 231 | N | Unspecified Tank | 1950 |
| 294BN | 232 | N | Unspecified Tank | 1949 |
| 295 | 237 | W | Unspecified Tank | 1950 |
| 296BO | 350 | NW | Tanks | 1993 |
| 297BO | 351 | NW | Tanks | 1980 |
| 298BO | 352 | NW | Tanks | 1988 |
| 299BO | 352 | NW | Tanks | 1990 |
| 300BO | 358 | NW | Tanks | 1993 |
| 301BO | 359 | NW | Tanks | 1980 |
| 302 | 360 | SW | Unspecified Tank | 1988 |
| 303BO | 360 | NW | Tanks | 1988 |
| 304BO | 360 | NW | Tanks | 1990 |
| 305BP | 382 | NW | Tanks | 1993 |
| 306BP | 383 | NW | Tanks | 1980 |
| 307BP | 384 | NW | Tanks | 1988 |
| 308BP | 384 | NW | Tanks | 1990 |
| 309BP | 386 | W | Tanks | 1993 |
| 310BP | 386 | NW | Tanks | 1980 |
| 311BP | 387 | W | Tanks | 1980 |
| 312BP | 387 | W | Tanks | 1988 |
| 313BP | 387 | W | Tanks | 1990 |
| 314BQ | 407 | E | Unspecified Tank | 1989 |
| 315BQ | 407 | E | Unspecified Tank | 1995 |
| 316BR | 417 | E | Unspecified Tank | 1989 |
| 317BR | 418 | E | Unspecified Tank | 1995 |
| 318BS | 419 | E | Unspecified Tank | 1989 |
| 319BS | 420 | E | Unspecified Tank | 1995 |
| 320AU | 420 | NW | Tanks | 1950 |
| 321AU | 421 | NW | Tanks | 1950 |
| 322BT | 423 | NW | Tanks | 1950 |
| 323BT | 423 | NW | Tanks | 1950 |
| 324BU | 464 | E | Unspecified Tank | 1989 |

| | | | | |
|---|---|---|---|---|
| 325BU | 465 | E | Unspecified Tank | 1995 |

## 1.3 Additional Information – Historical Energy Features Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical energy features within 500m of the search boundary: 63

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 326BV | 137 | SE | Electricity Substation | 1969 |
| 327BV | 137 | SE | Electricity Substation | 1950 |
| 328BV | 137 | SE | Electricity Substation | 1952 |
| 329BV | 137 | SE | Electricity Substation | 1950 |
| 330BL | 171 | N | Electricity Substation | 1989 |
| 331BL | 172 | N | Electricity Substation | 1994 |
| 332BL | 172 | N | Electricity Substation | 1993 |
| 333BW | 226 | NW | Electricity Substation | 1993 |
| 334BW | 226 | NW | Electricity Substation | 1990 |
| 335BW | 226 | NW | Electricity Substation | 1988 |
| 336BX | 227 | W | Electricity Substation | 1980 |
| 337BX | 229 | W | Electricity Substation | 1950 |
| 338BX | 229 | W | Electricity Substation | 1950 |
| 339BX | 229 | W | Electricity Substation | 1993 |
| 340BX | 230 | W | Electricity Substation | 1988 |
| 341BX | 230 | W | Electricity Substation | 1990 |
| 342BZ | 266 | SW | Electricity Substation | 1989 |
| 343BY | 283 | E | Electricity Substation | 1980 |
| 344BY | 283 | E | Electricity Substation | 1983 |
| 345BY | 283 | E | Electricity Substation | 1986 |
| 346BY | 283 | E | Electricity Substation | 1969 |
| 347BY | 283 | E | Electricity Substation | 1950 |
| 348BZ | 284 | S | Electricity Substation | 1994 |
| 349BZ | 284 | S | Electricity Substation | 1993 |
| 350BY | 284 | E | Electricity Substation | 1994 |
| 351BY | 284 | E | Electricity Substation | 1993 |
| 352BY | 285 | E | Electricity Substation | 1952 |
| 353BY | 285 | E | Electricity Substation | 1989 |
| 354BY | 285 | E | Electricity Substation | 1950 |
| 355BZ | 288 | SW | Electricity Substation | 1986 |
| 356BZ | 288 | SW | Electricity Substation | 1980 |
| 357BZ | 288 | SW | Electricity Substation | 1983 |
| 358CA | 289 | S | Electricity Substation | 1979 |
| 359CA | 289 | S | Electricity Substation | 1980 |

| | | | | |
|---|---|---|---|---|
| 360CA | 289 | S | Electricity Substation | 1987 |
| 361CA | 289 | S | Electricity Substation | 1972 |
| 362CA | 289 | S | Electricity Substation | 1981 |
| 363BZ | 292 | SW | Electricity Substation | 1988 |
| 364BZ | 292 | SW | Electricity Substation | 1990 |
| 365BZ | 292 | S | Electricity Substation | 1994 |
| 366BZ | 292 | S | Electricity Substation | 1993 |
| 367BZ | 292 | S | Electricity Substation | 1993 |
| 368BZ | 293 | SW | Electricity Substation | 1980 |
| 369BZ | 293 | SW | Electricity Substation | 1993 |
| 370BZ | 299 | SW | Electricity Substation | 1973 |
| 371CA | 299 | SW | Electricity Substation | 1983 |
| 372BZ | 299 | SW | Electricity Substation | 1992 |
| 373BZ | 299 | SW | Electricity Substation | 1998 |
| 374AA | 314 | NE | Electricity Substation | 1980 |
| 375AA | 314 | NE | Electricity Substation | 1986 |
| 376AA | 314 | NE | Electricity Substation | 1983 |
| 377AA | 315 | NE | Electricity Substation | 1950 |
| 378AA | 315 | NE | Electricity Substation | 1952 |
| 379AA | 315 | NE | Electricity Substation | 1950 |
| 380AA | 315 | NE | Electricity Substation | 1969 |
| 381CB | 417 | S | Electricity Substation | 1994 |
| 382CB | 417 | S | Electricity Substation | 1993 |
| 383CB | 417 | S | Electricity Substation | 1993 |
| 384CB | 418 | S | Electricity Substation | 1979 |
| 385CB | 418 | S | Electricity Substation | 1980 |
| 386CB | 418 | S | Electricity Substation | 1987 |
| 387CB | 418 | S | Electricity Substation | 1972 |
| 388CB | 418 | S | Electricity Substation | 1981 |

## 1.4 Additional Information – Historical Petrol and Fuel Site Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical petrol stations and fuel sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database

The systematic analysis of data extracted from High Detailed 1:1,250 and 1:2,500 scale historical maps provides the following information.

Records of historical garage and motor vehicle repair sites within 500m of the search boundary: 7

| ID | Distance (m) | Direction | Use | Date |
|---|---|---|---|---|
| 389CC | 79 | SE | Garage | 1983 |
| 390CC | 79 | SE | Garage | 1986 |
| 391CC | 79 | SE | Garage | 1980 |
| 392CC | 80 | SE | Garage | 1993 |
| 393CC | 80 | SE | Garage | 1994 |
| 394CC | 80 | SE | Garage | 1989 |
| 395 | 401 | NW | Garage | 1993 |

## 1.6 Historical military sites

Certain military installations were not noted on historic mapping for security reasons. Whilst not all military land is necessarily of concern, Groundsure has researched and digitised a number of Ordnance Factories and other military industrial features (e.g. Ordnance Depots, Munitions Testing Grounds) which may be of contaminative concern. This research was drawn from a number of different sources, and should not be regarded as a definitive or exhaustive database of potentially contaminative military installations. The boundaries of sites within this database have been estimated from the best evidence available to Groundsure at the time of compilation.

Records of historical military sites within 500m of the search boundary: 0

Database searched and no data found.

## 1.7 Potentially Infilled Land

Records of Potentially Infilled Features from 1:10,000 scale mapping within 500m of the study site: 128

The following Historical Potentially Infilled Features derived from the Historical Mapping information is provided by Groundsure:

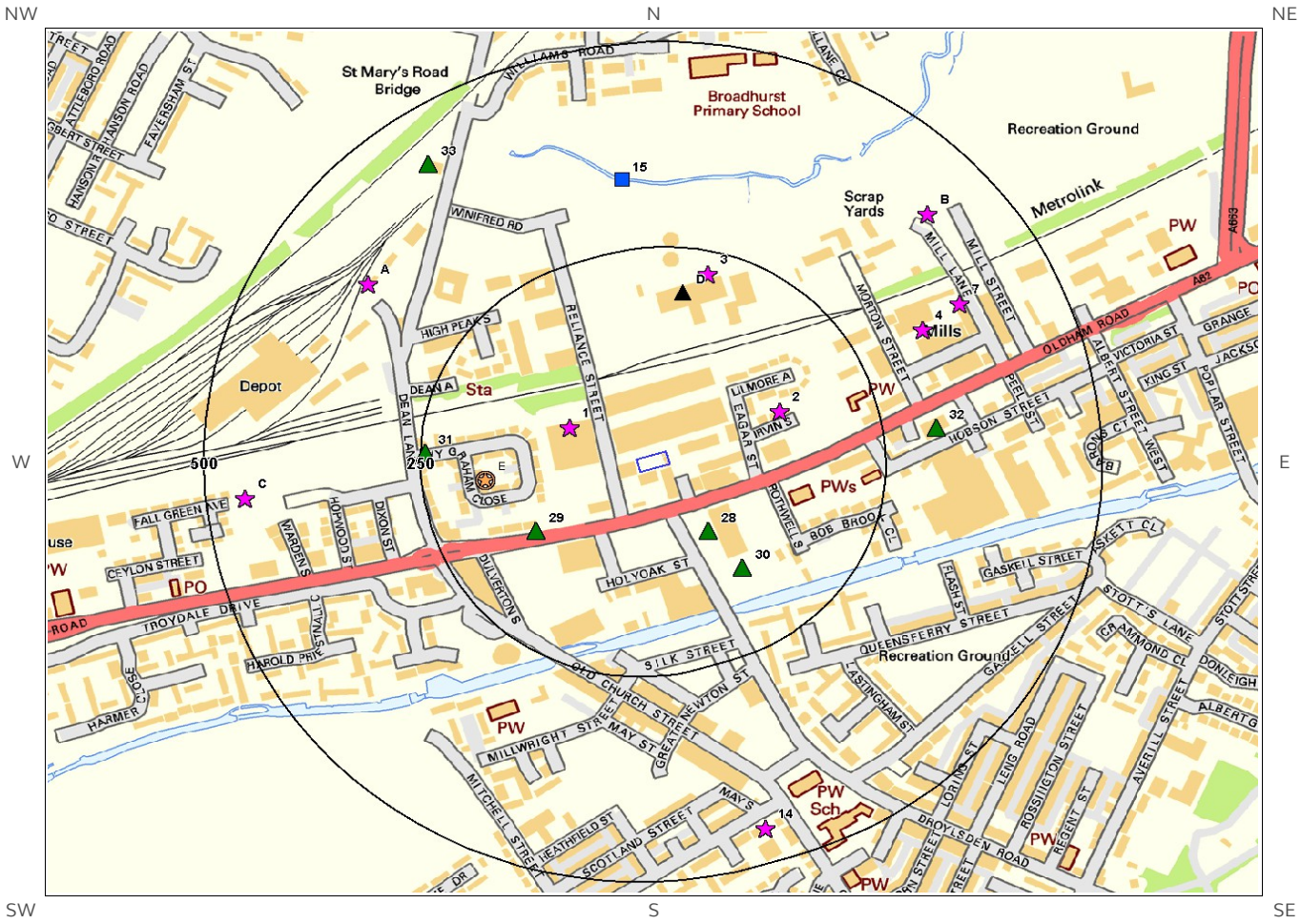
| ID | Distance(m) | Direction | Use | Date |
|---|---|---|---|---|
| 396CD | 0 | On Site | Pond | 1923 |
| 397CD | 0 | On Site | Pond | 1921 |
| 398CD | 0 | On Site | Pond | 1906 |
| 399B | 38 | N | Pond | 1923 |
| 400B | 38 | N | Pond | 1921 |
| 401B | 38 | N | Pond | 1906 |
| 402CE | 55 | N | Unspecified Pit | 1938 |
| 403F | 80 | N | Cuttings | 1938 |
| 404F | 80 | N | Cuttings | 1933 |
| 405F | 80 | N | Cuttings | 1921 |
| 406F | 80 | N | Cuttings | 1906 |
| 407H | 84 | N | Cuttings | 1923 |
| 408G | 87 | N | Cuttings | 1966 |
| 409G | 88 | N | Cuttings | 1975 |
| 410G | 88 | N | Cuttings | 1980 |

| | | | | |
|---|---|---|---|---|
| 411H | 90 | N | Cuttings | 1956 |
| 412H | 90 | N | Cuttings | 1891 |
| 413J | 99 | NW | Cuttings | 1988 |
| 414CF | 100 | NW | Cuttings | 1923 |
| 415J | 103 | NW | Cuttings | 1980 |
| 416BI | 103 | W | Reservoir | 1923 |
| 417 | 109 | N | Pond | 1851 |
| 418CG | 120 | NE | Cuttings | 1923 |
| 419S | 121 | N | Unspecified Ground Workings | 1921 |
| 420BN | 128 | N | Unspecified Ground Workings | 1906 |
| 421CH | 140 | N | Unspecified Ground Workings | 1923 |
| 422CI | 148 | N | Refuse Destructor | 1988 |
| 423CJ | 176 | S | Pond | 1891 |
| 424CL | 180 | S | Canal | 1975 |
| 425CK | 181 | NE | Unspecified Heap | 1923 |
| 426CL | 183 | S | Canal | 1956 |
| 427 | 183 | S | Canal | 1966 |
| 428CM | 184 | S | Disused Canal | 1980 |
| 429N | 184 | S | Disused Canal | 1988 |
| 430CN | 191 | S | Canal | 1923 |
| 431CN | 191 | S | Canal | 1906 |
| 432CN | 191 | S | Canal | 1938 |
| 433CN | 191 | S | Canal | 1921 |
| 434CN | 191 | S | Canal | 1933 |
| 435CN | 191 | S | Canal | 1891 |
| 436P | 196 | W | Cuttings | 1988 |
| 437CO | 203 | NE | Cuttings | 1923 |
| 438CP | 222 | NE | Unspecified Ground Workings | 1956 |
| 439CQ | 228 | NE | Cuttings | 1923 |
| 440S | 238 | N | Unspecified Heap | 1988 |
| 441AD | 245 | NE | Cuttings | 1956 |
| 442S | 253 | N | Unspecified Heap | 1966 |
| 443S | 264 | N | Unspecified Ground Workings | 1956 |
| 444AB | 271 | NE | Unspecified Ground Workings | 1906 |
| 445AC | 287 | NE | Cuttings | 1923 |
| 446AB | 289 | N | Unspecified Ground Workings | 1933 |
| 447AB | 289 | N | Unspecified Ground Workings | 1938 |
| 448CR | 300 | NE | Cuttings | 1891 |
| 449AC | 303 | NE | Cuttings | 1966 |
| 450AD | 305 | NE | Cuttings | 1980 |

| | | | | |
|---|---|---|---|---|
| 451AD | 305 | NE | Cuttings | 1975 |
| 452AD | 305 | NE | Cuttings | 1988 |
| 453AA | 312 | NE | Pond | 1891 |
| 454Z | 312 | NE | Pond | 1923 |
| 455AK | 329 | SW | Brick Works | 1933 |
| 456CS | 334 | N | Pond | 1923 |
| 457CS | 334 | N | Old Mill Pond | 1938 |
| 458AF | 334 | N | Old Mill Pond | 1933 |
| 459AF | 334 | N | Old Mill Pond | 1921 |
| 460AF | 334 | N | Pond | 1906 |
| 461AF | 334 | N | Pond | 1891 |
| 462AP | 339 | NE | Sand Pit | 1891 |
| 463CT | 348 | N | Pond | 1851 |
| 464CS | 350 | N | Pond | 1933 |
| 465CU | 352 | N | Pond | 1938 |
| 466CU | 353 | N | Pond | 1923 |
| 467CU | 353 | N | Pond | 1921 |
| 468CU | 353 | N | Pond | 1906 |
| 469CU | 359 | N | Pond | 1891 |
| 470AQ | 361 | N | Old Mill Pond | 1923 |
| 471CT | 371 | N | Refuse Heap | 1933 |
| 472CV | 373 | NW | Cuttings | 1956 |
| 473AR | 374 | N | Sand Pit | 1938 |
| 474AQ | 375 | N | Pond | 1966 |
| 475AL | 377 | SW | Brick Works | 1956 |
| 476AM | 377 | SW | Brick Works | 1906 |
| 477AK | 379 | SW | Brick Works | 1938 |
| 478AL | 381 | SW | Disused Brick Works | 1975 |
| 479AM | 381 | SW | Brick Works | 1923 |
| 480AM | 393 | SW | Brick Works | 1921 |
| 481AU | 393 | NW | Unspecified Ground Workings | 1923 |
| 482 | 394 | NE | Cuttings | 1975 |
| 483CW | 394 | NE | Cuttings | 1923 |
| 484CX | 395 | N | Unspecified Ground Workings | 1933 |
| 485 | 396 | N | Unspecified Ground Workings | 1956 |
| 486AS | 397 | NE | Sand Pit | 1923 |
| 487CY | 398 | W | Unspecified Pit | 1956 |
| 488AR | 406 | N | Unspecified Ground Workings | 1906 |
| 489AS | 407 | N | Sand Pit | 1921 |
| 490CZ | 409 | NE | Cuttings | 1966 |
| 491 | 415 | NE | Ponds | 1851 |
| 492DA | 416 | N | Sand Pit | 1933 |
| 493AT | 416 | N | Unspecified Heap | 1938 |

| | | | | |
|---|---|---|---|---|
| 494AT | 416 | N | Unspecified Heap | 1933 |
| 495DB | 418 | N | Unspecified Ground Workings | 1923 |
| 496AT | 421 | NW | Unspecified Heap | 1923 |
| 497AD | 424 | NE | Cuttings | 1923 |
| 498AV | 428 | NE | Mill Pond | 1923 |
| 499AV | 428 | NE | Mill Pond | 1933 |
| 500AV | 428 | NE | Mill Pond | 1921 |
| 501AV | 428 | NE | Pond | 1906 |
| 502AV | 434 | NE | Mill Pond | 1891 |
| 503DC | 436 | NE | Refuse Heap | 1966 |
| 504BH | 443 | SW | Unspecified Pit | 1906 |
| 505BA | 456 | N | Unspecified Pit | 1923 |
| 506AY | 456 | SW | Unspecified Ground Workings | 1921 |
| 507AY | 458 | SW | Unspecified Ground Workings | 1923 |
| 508AK | 459 | SW | Unspecified Pit | 1938 |
| 509AK | 459 | SW | Unspecified Pit | 1933 |
| 510BA | 466 | N | Unspecified Pit | 1906 |
| 511BD | 472 | SW | Unspecified Pit | 1921 |
| 512 | 475 | N | Pond | 1851 |
| 513BD | 475 | SW | Unspecified Pit | 1923 |
| 514 | 481 | E | Pond | 1891 |
| 515DD | 484 | NW | Unspecified Pit | 1980 |
| 516 | 484 | SW | Pond | 1906 |
| 517DE | 489 | NW | Cuttings | 1956 |
| 518BF | 493 | N | Unspecified Pit | 1906 |
| 519BF | 493 | N | Unspecified Pit | 1938 |
| 520BF | 495 | N | Unspecified Pit | 1923 |
| 521DF | 495 | N | Unspecified Ground Workings | 1906 |
| 522BG | 497 | N | Unspecified Ground Workings | 1921 |
| 523BG | 497 | N | Unspecified Ground Workings | 1933 |

# 2. Environmental Permits, Incidents and Registers Map




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

- Site Outline
- Search Buffers (m) — 250 — 500
- Recorded Pollution Incident
- Dangerous Substances (List 1)
- Dangerous Substances (List 2)
- Water Industry Referrals
- Licenced Discharge Consents
- Red List Discharge Consents
- RAS 3 & 4 Authorisations
- Part A(1) Authorised Processes and Historic IPC Authorisations
- Part A(2) and Part B Authorised Processes
- COMAH / NIHHS Sites
- Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

# 2. Environmental Permits, Incidents and Registers

## 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency/Natural Resources Wales and Local Authorities reveal the following information:

### 2.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

### 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

12

The following Part A(1) and IPPC Authorised Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 35D | 193 | N | 388170 400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT - EPR/CP3991LQ<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT | Permit Number: LP3135DH<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 04/01/2017<br>Effective Date: 04/01/2017<br>Last date noted as effective: 2019-04-30<br>Status: EFFECTIVE |
| 36D | 193 | N | 388170 400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT | Permit Number: CP3934NB<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 29/05/2013<br>Effective Date: 29/05/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 37D | 193 | N | 388170 400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: ASSOCIATED PROCESS | Permit Number: CP3934NB<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 29/05/2013<br>Effective Date: 29/05/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 38D | 193 | N | 388170 400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS | Permit Number: CP3934NB<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 29/05/2013<br>Effective Date: 29/05/2013<br>Last date noted as effective: 2013-07- |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT | 01<br>Status: EFFECTIVE |
| 39D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: ASSOCIATED PROCESS | Permit Number: NP3530EF<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 21/10/2013<br>Effective Date: 21/10/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 40D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT | Permit Number: NP3530EF<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 21/10/2013<br>Effective Date: 21/10/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 41D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT | Permit Number: CP3934NB<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 29/05/2013<br>Effective Date: 29/05/2013<br>Last date noted as effective: 2013-07-01<br>Status: EFFECTIVE |
| 42D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT | Permit Number: CP3934NB<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 29/05/2013<br>Effective Date: 29/05/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 43D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT - EPR/CP3991LQ<br>Process: ASSOCIATED PROCESS | Permit Number: LP3135DH<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 04/01/2017<br>Effective Date: 04/01/2017<br>Last date noted as effective: 2019-04-30<br>Status: EFFECTIVE |
| 44D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT - EPR/CP3991LQ<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT | Permit Number: LP3135DH<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 04/01/2017<br>Effective Date: 04/01/2017<br>Last date noted as effective: 2019-04-30<br>Status: EFFECTIVE |
| 45D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT | Permit Number: NP3530EF<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 21/10/2013<br>Effective Date: 21/10/2013<br>Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |
| 46D | 193 | N | 388170<br>400990 | Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD<br>Installation Name: NORTH MANCHESTER MBT<br>Process: COMBUSTION; WASTE | Permit Number: XP3335GU<br>Original Permit Number: XP3335GU<br>EPR Reference: -<br>Issue Date: 19/05/2010<br>Effective Date: 19/05/2010 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | DERIVED FUEL =>3MW BUT <50MW | Last date noted as effective: 2019-04-30<br>Status: SUPERCEDED |

## 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

## 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

## 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

## 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

6

The following Part A(2) and Part B Activities are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 28 | 95 | SE | 388200<br>400699 | Address: Heath Serv Stn, Oldham Rd, M40 1EZ<br>Process: Petrol Vapour Recovery<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 29 | 142 | SW | 388000<br>400699 | Address: Newton Heath Serv Stn, Oldham Rd, M40 2FU<br>Process: Petrol Vapour Recovery<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 30 | 154 | SE | 388239<br>400654 | Address: Woodlowe Coach And Body Wks Ltd, Atlantic Works, Droylsden Road, Newton Heath, M10 6HD<br>Process: Respraying of Road Vehicles<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 31 | 244 | W | 387873 | Address: Quickmix Concrete Co Ltd, | Enforcement: No Enforcement Notified |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | 400794 | Dean Lane, Newton Heath, M10 0AD<br>Process: Use of Bulk Cement<br>Status: Historical Permit<br>Permit Type: Part B | Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 32 | 311 | E | 388463<br>400825 | Address: Texaco, Failsworth Filling Station, Oldham Road, Failsworth, M35 0BR<br>Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |
| 33 | 432 | NW | 387876<br>401146 | Address: Murco Service Station, 55 St Mary's Road, Newton Heath, M40 3AR<br>Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of Enforcement: No Enforcement Notified<br>Comment: No Enforcement Notified |

### 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

### 2.1.8 Records of Licensed Discharge Consents within 500m of the study site:

1

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 15 | 336 | N | 388100<br>401130 | Address: REFUSE TREATMENT/TRANSFER STATION, NEWTON HEATH, GREATER MANCHESTER<br>Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER<br>Permit Number: 016990218<br>Permit Version: 1 | Receiving Water: MOSTON BROOK<br>Status: PRE NRA LEGISLATION WHERE ISSUE DATE < 01-SEP-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 17-Jun-1980<br>Revocation Date: - |

### 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

### 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

1

The following records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | Application Reference Number | NGR | Application Status | Application Date | Address | Details | Details of Enforcement Action |
|---|---|---|---|---|---|---|---|---|---|
| 47E | 178 | W | 058432/HSC/NORTH1/00 | 387941 400763 | Historical Consent | 24/05/2000 | Loreal Buildings, Oldham Road, Newton Heath, Manchester, M40 2FE | Storage Of Hazardous Substances, Namely 120 Tonnes Of Liquified Petroleum Gases For Aerosol Propellant In Receptacles Of No More Than 1000ml In Size | Enforcement: No Enforcement Notified Date of Enforcement: No Enforcement Notified Comment: No Enforcement Notified |

## 2.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site: 0

Database searched and no data found.

## 2.3 Environment Agency/Natural Resources Wales Recorded Pollution Incidents

### 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

14

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 1 | 87 | NW | 388039.0 400827.0 | Incident Date: 09-Dec-2002 Incident Identification: 125278.0 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) |
| 2 | 140 | E | 388282.0 400847.0 | Incident Date: 19-Aug-2002 Incident Identification: 101550.0 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect | Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor) |
| 3 | 221 | N | 388199.0 401014.0 | Incident Date: 17-Jan-2003 Incident Identification: 131655.0 Pollutant: Specific Waste Materials | Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact) |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Pollutant Description: Household Waste | |
| 4 | 331 | NE | 388447.0<br>400946.0 | Incident Date: 01-Aug-2001<br>Incident Identification: 20997.0<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 5A | 378 | NW | 387806.0<br>401002.0 | Incident Date: 28-Jul-2016<br>Incident Identification: 1457159.0<br>Pollutant: Oils and Fuel<br>Pollutant Description: Lubricating Oils | Water Impact: Category 2 (Significant)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |
| 6A | 378 | NW | 387806.0<br>401002.0 | Incident Date: 28-Jul-2016<br>Incident Identification: 1457159.0<br>Pollutant: Oils and Fuel<br>Pollutant Description: Mixed/Waste Oils | Water Impact: Category 2 (Significant)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |
| 7 | 383 | NE | 388489.0<br>400978.0 | Incident Date: 31-Jul-2001<br>Incident Identification: 20599.0<br>Pollutant: Pollutant Not Identified<br>Pollutant Description: Not Identified | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 8B | 418 | NE | 388452.0<br>401087.0 | Incident Date: 15-May-2006<br>Incident Identification: 399273.0<br>Pollutant: General Biodegradable Materials and Wastes<br>Pollutant Description: Vegetable Cuttings and Deposits | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |
| 9B | 418 | NE | 388452.0<br>401087.0 | Incident Date: 15-May-2006<br>Incident Identification: 399273.0<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 2 (Significant)<br>Air Impact: Category 4 (No Impact) |
| 10C | 455 | W | 387664.0<br>400741.0 | Incident Date: 31-Jul-2002<br>Incident Identification: 96067.0<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 3 (Minor) |
| 11C | 455 | W | 387664.0<br>400741.0 | Incident Date: 31-Jul-2002<br>Incident Identification: 96067.0<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Batteries | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor) |
| 12C | 455 | W | 387664.0<br>400741.0 | Incident Date: 31-Jul-2002<br>Incident Identification: 96067.0<br>Pollutant: Inert Materials and Wastes:Specific Waste Materials:Specific Waste Materials<br>Pollutant Description: Construction and Demolition Materials and Wastes:Batteries:Other Specific Waste Material | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor) |
| 13C | 455 | W | 387664.0<br>400741.0 | Incident Date: 31-Jul-2002<br>Incident Identification: 96067.0<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Other Specific Waste Material | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor) |
| 14 | 458 | S | 388265.0<br>400338.0 | Incident Date: 07-Feb-2003<br>Incident Identification: 135460.0<br>Pollutant: Inorganic Chemicals/Products<br>Pollutant Description: Other Inorganic Chemical or Product | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

### 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

---

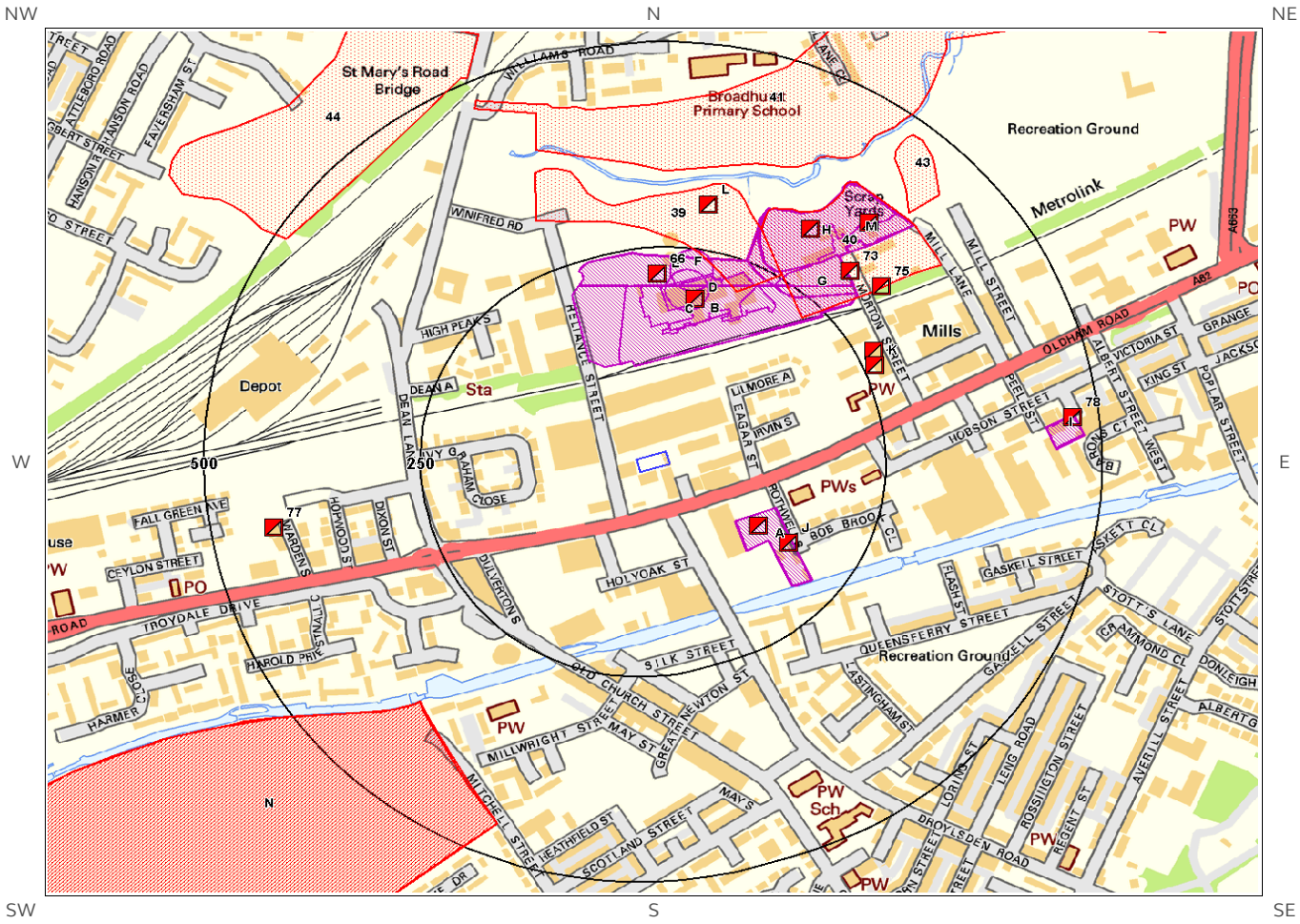
## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

Records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site 0

Database searched and no data found.

---

# 3. Landfill and Other Waste Sites Map




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

250 / 500 Search Buffers (m)

EA/NRW Active Landfill

EA/NRW Historic Landfill

BGS / DoE Survey Landfill

Historic and Planned Waste Sites

EA/NRW Licensed Waste Site

Local Authority/Historical Mapping Landfill Records

# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

### 3.1.1 Records from Environment Agency/Natural Resources Wales landfill data within 1000m of the study site:

0

Database searched and no data found.

---

### 3.1.2 Records of Environment Agency/Natural Resources Wales historic landfill sites within 1500m of the study site:

19

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 39 | 211 | NE | | Site Address: Land off Reliance Street, Newton Heath, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F041<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 40 | 227 | NE | | Site Address: Land at Mill Lane, Failsworth, Greater Manchester<br>Waste Licence: -<br>Site Reference: G109<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 41 | 343 | N | | Site Address: Land to the rear of Fairway, Moston, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F021, G036<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 42N | 378 | SW | | Site Address: Land adjacent to Mitchell Street, Mitchell Street, Newton Heath, Manchester, Greater Manchester<br>Waste Licence: Yes<br>Site Reference: F008, RD/LIC/013/76<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 10-Jul-1978<br>Licence Surrendered: 14-Oct-1985<br>Licence Holder Address: Taylor Road, Urmston, Manchester<br>Operator: -<br>Licence Holder: Messrs H Evers<br>First Recorded: 01-May-1973<br>Last Recorded: 31-Dec-1984 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 43 | 405 | NE | | Site Address: Land off Mill Street, Mill Street, Failsworth, Greater Manchester<br>Waste Licence: -<br>Site Reference: G104<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| 44 | 473 | NW | | Site Address: Lightbowne Phase II, St Marys Road - Joyce Street, Kenyan Lane, Moston, Manchester<br>Waste Licence: Yes<br>Site Reference: F036, RD/LIC/188/79<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 07-May-1980<br>Licence Surrendered: 25-Jan-1996<br>Licence Holder Address: Hall Lane Works, Hall Lane, Farnworth<br>Operator: -<br>Licence Holder: George Cox and Sons Limited<br>First Recorded: 07-May-1980<br>Last Recorded: 31-Dec-1981 |
| Not shown | 730 | N | | Site Address: Land to the rear of Fairway, Moston, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F020<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 869 | NE | | Site Address: Faillworth Refuse Tip, Failsworth, Greater Manchester<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial, Commercial<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: Failsworth Urban District Council<br>Licence Holder: -<br>First Recorded: 31-Dec-1964<br>Last Recorded: - |
| Not shown | 960 | W | | Site Address: Land adjacent to Church Lane North, Church Lane, Harpurhey, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F007<br>Waste Type: Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: 31-Dec-1977 |
| Not shown | 971 | NE | | Site Address: Hardman Fold, Broadway, Failsworth<br>Waste Licence: Yes<br>Site Reference: G069, RD/RES/099/85<br>Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 30-Apr-1979<br>Licence Surrendered: 30-Apr-1991<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: Greater Manchester Waste Disposal Authority<br>First Recorded: 01-Apr-1977<br>Last Recorded: 27-Sep-1980 |
| Not shown | 1030 | W | | Site Address: Moston Brook, Northampton Road, Harpurhey, Manchester, Greater Manchester<br>Waste Licence: Yes<br>Site Reference: F006<br>Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 01-Jan-1974<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: Manchester City Council<br>First Recorded: 01-May-1974<br>Last Recorded: 01-Dec-1977 |
| Not shown | 1043 | S | | Site Address: Clayton Vale Power Station, Bank Bridge Road, Manchester<br>Waste Licence: Yes<br>Site Reference: GDO F001,RD/LIC/045/76<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 12-Mar-1979<br>Licence Surrendered: 21-Jul-1983<br>Licence Holder Address: Europa House, Birdhall Lane, Cheadle Heath, Stockport<br>Operator: -<br>Licence Holder: Central Electricity Generating Board<br>First Recorded: 31-Dec-1901<br>Last Recorded: 31-Dec-1980 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 1154 | NW | | Site Address: Land off Bluestone Road, Bluestone Road, Moston, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F035<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1208 | S | | Site Address: Clayton Vale, Clayton, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: Central Electricity Generating Board<br>Licence Holder: -<br>First Recorded: 31-Dec-1901<br>Last Recorded: - |
| Not shown | 1212 | S | | Site Address: Clayton Vale Power Station, Bank Bridge Road, Manchester<br>Waste Licence: Yes<br>Site Reference: RD/LIC/045/76,GDO F001<br>Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue: 01-Jan-1974<br>Licence Surrendered:<br>Licence Holder Address: Europa House, Birdhall Lane, Cheadle Heath, Stockport<br>Operator: -<br>Licence Holder: Central Electricity Generating Board<br>First Recorded: 31-Dec-1965<br>Last Recorded: 31-Dec-1968 |
| Not shown | 1254 | SE | | Site Address: Graver Lane, Newton Heath, Greater Manchester<br>Waste Licence: -<br>Site Reference: F022<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1267 | NE | | Site Address: Land to the rear of Romer Avenue, Romer Avenue, Moston, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F029<br>Waste Type: Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |
| Not shown | 1365 | NW | | Site Address: Land at Moston College, Lizmar Terrace, Harpurhey, Manchester, Greater Manchester<br>Waste Licence: -<br>Site Reference: F019<br>Waste Type: Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: 31-Dec-1947<br>Last Recorded: - |
| Not shown | 1447 | NE | | Site Address: Land adjacent to Moston Brook, Belgrave Road, New Moston, Oldham, Greater Manchester<br>Waste Licence: -<br>Site Reference: G108<br>Waste Type: -<br>Environmental Permitting Regulations (Waste) Reference: - | Licence Issue:<br>Licence Surrendered:<br>Licence Holder Address: -<br>Operator: -<br>Licence Holder: -<br>First Recorded: -<br>Last Recorded: - |

### 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

2

The following landfill records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 784 | NE | 388500.0 401500.0 | Address: Broadway, Failsworth, Manchester<br>BGS Number: 371.0 | Risk: No risk to aquifer<br>Waste Type: N/A |
| Not shown | 1279 | S | 388000.0 399500.0 | Address: Clayton Vale, Clayton, Manchester 11<br>BGS Number: 2777.0 | Risk: No risk to aquifer<br>Waste Type: N/A |

### 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site:

50

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|---|---|---|---|---|---|---|
| 85N | 378 | SW | 387624 400249 | Briscoe Lane Lanfill | Manchester City Council | Polygon |
| Not shown | 1135 | NE | 388894 401683 | Refuse Tip | 1963 mapping | Polygon |
| Not shown | 1135 | NE | 388893 401684 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1257 | S | 388487 399501 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1279 | NE | 388997 401805 | Refuse Tip | 1963 mapping | Polygon |
| Not shown | 1280 | NE | 389011 401815 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1307 | NE | 389012 401822 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1311 | S | 388788 399541 | Refuse Tip | 1963 mapping | Polygon |
| Not shown | 1314 | S | 388616 399552 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1346 | S | 388551 399468 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1363 | S | 388614 399486 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1364 | S | 388640 399460 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1367 | SE | 388771 399539 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1373 | S | 388643 399493 | Refuse Tip | 1965 mapping | Polygon |
| Not | 1386 | S | 388646 | Refuse Tip | 1965 mapping | Polygon |

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|---|---|---|---|---|---|---|
| shown | | | 399481 | | | |
| Not shown | 1388 | S | 388610 399470 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1391 | S | 388609 399463 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1398 | S | 388648 399472 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1401 | S | 388612 399457 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1404 | S | 388654 399466 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1404 | S | 388615 399453 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1411 | S | 388624 399446 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1413 | S | 388663 399462 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1418 | S | 388683 399458 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1423 | S | 388636 399440 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1430 | S | 388667 399431 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1443 | S | 388351 399268 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1444 | S | 388650 399268 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1450 | SE | 388771 399470 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1450 | SE | 388764 399467 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1450 | SE | 388787 399475 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1452 | SE | 388847 399505 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1454 | SE | 388829 399491 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1456 | SE | 388807 399480 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1456 | S | 388717 399391 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1456 | S | 388717 399391 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1464 | S | 388705 399422 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1472 | S | 388741 399422 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1475 | SE | 388875 399495 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1476 | SE | 388867 399488 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1481 | SE | 388858 399478 | Refuse Tip | 1965 mapping | Polygon |

| ID | Distance (m) | Direction | NGR | Site Address | Source | Data Type |
|---|---|---|---|---|---|---|
| Not shown | 1482 | SE | 388784 399440 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1483 | SE | 388794 399445 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1483 | SE | 388769 399431 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1484 | SE | 388811 399449 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1485 | SE | 388853 399469 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1486 | SE | 388756 399423 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1487 | SE | 388760 399425 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1490 | SE | 388842 399460 | Refuse Tip | 1965 mapping | Polygon |
| Not shown | 1491 | SE | 388831 399454 | Refuse Tip | 1965 mapping | Polygon |

## 3.2 Other Waste Sites

### 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

36

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | | |
|---|---|---|---|---|---|---|
| 3A | 103 | SE | 388275 400681 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1988 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 4A | 103 | SE | 388275 400681 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1986 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 5A | 104 | SE | 388275 400681 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1994 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 6A | 104 | SE | 388275 400681 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1993 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 7B | 110 | N | 388235 400951 | Type of Site: Refuse Destructor<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1994 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 8B | 110 | N | 388235 400951 | Type of Site: Refuse Destructor<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1993 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |

| ID | Distance (m) | Direction | NGR | Details | | |
|---|---|---|---|---|---|---|
| 9C | 111 | N | 388207 400950 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1986 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 10C | 111 | N | 388207 400950 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1983 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 11B | 144 | N | 388198 400970 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1988 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 12D | 148 | N | 388199 400981 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1988 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 13D | 174 | N | 388175 400995 | Type of Site: Waste Recycling Centre (Extension) Site Address: Reliance Street, Newton Heath, MANCHESTER, Greater Manchester, M40 3EZ | Planning Application Reference: AE/053232/07 Date: - | Further Details: Scheme comprises mechanical and biological treatment facility and extension to waste recycling centre. An application (ref: AE/053232/07) for detailed planning permission was submitted to Oldham B.C. Data Source: Historic Planning Application Data Type: Point |
| 14F | 198 | N | 388181 401018 | Type of Site: Waste Recycling Centre Site Address: Reliance Street, Newton Heath, MANCHESTER, Greater Manchester, M40 3EZ | Planning Application Reference: AE/054008/07 Date: 05/11/2009 | Further Details: Scheme comprises extension to household waste recycling centre and construction of new mechanical biological treatment facility. An application (ref: AE/054008/07) for detailed planning permission was granted by Oldham B.C. This is part of the PFI wastemanagement scheme, lead 05087716 We have been advised works are almost complete. Data Source: Historic Planning Application Data Type: Point |
| 15E | 202 | N | 388163 401019 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1994 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 16E | 202 | N | 388163 401019 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1993 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 17E | 202 | N | 388162 401020 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1983 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 18F | 202 | N | 388189 401006 | Type of Site: Refuse Destructor Site Address: N/A | Planning Application Reference: N/A Date: 1983 | Further Details: N/A Data Source: Historic Mapping Data Type: Polygon |
| 19G | 237 | NE | 388324 | Type of Site: Scrap | Planning Application Reference: | Further Details: N/A |

| ID | Distance (m) | Direction | NGR | Details | | |
|---|---|---|---|---|---|---|
| | | | 400992 | Yard<br>Site Address: N/A | N/A<br>Date: 1986 | Data Source: Historic Mapping<br>Data Type: Polygon |
| 20G | 237 | NE | 388324<br>400992 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1988 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 21G | 237 | NE | 388324<br>400993 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1993 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 22G | 237 | NE | 388324<br>400993 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1994 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 23H | 238 | NE | 388340<br>401063 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1994 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 24H | 238 | NE | 388340<br>401063 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1993 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 25H | 238 | NE | 388340<br>401063 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1983 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 26H | 238 | NE | 388347<br>401070 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1983 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 27H | 253 | NE | 388347<br>401070 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1971 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 28H | 255 | NE | 388339<br>401071 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1978 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 29M | 291 | NE | 388382<br>401059 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1982 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 30I | 436 | E | 388611<br>400822 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1988 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 31I | 436 | E | 388611<br>400823 | Type of Site: Scrap Metal Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1969 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 32I | 436 | E | 388611<br>400823 | Type of Site: Scrap Metal Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1950 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 33I | 437 | E | 388612<br>400823 | Type of Site: Scrap Metal Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1978 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 34I | 437 | E | 388612 | Type of Site: Scrap | Planning Application Reference: | Further Details: N/A |

| ID | Distance (m) | Direction | NGR | Details | | |
|---|---|---|---|---|---|---|
| | | | 400823 | Yard<br>Site Address: N/A | N/A<br>Date: 1995 | Data Source: Historic Mapping<br>Data Type: Polygon |
| 35I | 437 | E | 388612<br>400821 | Type of Site: Scrap Metal Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1959 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 36I | 437 | E | 388612<br>400821 | Type of Site: Scrap Metal Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1950 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 37I | 438 | E | 388612<br>400822 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1986 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |
| 38I | 438 | E | 388612<br>400822 | Type of Site: Scrap Yard<br>Site Address: N/A | Planning Application Reference: N/A<br>Date: 1983 | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon |

### 3.2.2 Records of Environment Agency/Natural Resources Wales licensed waste sites within 1500m of the study site:

27

The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 58A | 127 | SE | 388257<br>400708 | Site Address: Land/premises At, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MWQ001<br>EPR reference: EA/EPR/WP3998CP/T002<br>Operator: Hygrade Motor Spares Limited<br>Waste Management licence No: 50081<br>Annual Tonnage: 5000.0 | Issue Date: 03/07/2001<br>Effective Date: 27/06/2003<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Hygrade Motor Spares Ltd<br>Correspondence Address: - |
| 59A | 127 | SE | 388257<br>400708 | Site Address: Land/premises At, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MWQ001<br>EPR reference: WP3998CP/T002<br>Operator: Liquat, Waheed And Qadir, Mohammed Wasim<br>Waste Management licence No: 50081<br>Annual Tonnage: 5000.0 | Issue Date: 03/07/2001<br>Effective Date: 27/06/2003<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Hygrade Motor Spares Ltd<br>Correspondence Address: - |
| 60A | 127 | SE | 388257<br>400708 | Site Address: Land/premises At, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Metal Recycling Site (Vehicle | Issue Date: 03/07/2001<br>Effective Date: 27/06/2003<br>Modified: -<br>Surrendered Date: - |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MWQ001<br>EPR reference: EA/EPR/WP3998CP/T002<br>Operator: Hygrade Motor Spares Ltd<br>Waste Management licence No: 50081<br>Annual Tonnage: 5000.0 | Expiry Date: -<br>Cancelled Date: -<br>Status: Expired<br>Site Name: Hygrade Motor Spares Ltd<br>Correspondence Address: - |
| 61A | 127 | SE | 388257<br>400708 | Site Address: Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: HAF001<br>EPR reference: -<br>Operator: Hafiz Mohammed<br>Waste Management licence No: 50081<br>Annual Tonnage: 5000.0 | Issue Date: 03/07/2001<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Highgrade - Rothwell Street Site<br>Correspondence Address: 3, Morris Street, Oldham, Lancs, OL4 1EL |
| 62A | 127 | SE | 388257<br>400708 | Site Address: Land/premises At, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MWQ001<br>EPR reference: WP3998CP/T002<br>Operator: Liquat, Waheed And Qadir, Mohammed Wasim<br>Waste Management licence No: 50081<br>Annual Tonnage: 5000.0 | Issue Date: 03/07/2001<br>Effective Date: 27/06/2003<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Hygrade Motor Spares Ltd<br>Correspondence Address: - |
| 63J | 167 | SE | 388292<br>400687 | Site Address: Hygrade Motor Spares, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: 75kte Vehicle Depollution Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MOH008<br>EPR reference: EA/EPR/LB3936RN/A001<br>Operator: Mr Mohammed Qadeer & Mr Shafqut Ali<br>Waste Management licence No: 104837<br>Annual Tonnage: 74999.0 | Issue Date: 25/03/2013<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Hygrade Motor Spares<br>Correspondence Address: - |
| 64J | 167 | SE | 388292<br>400687 | Site Address: Hygrade Motor Spares, Rothwell Street, Newton Heath, Manchester, M40 1EL<br>Type: Vehicle Depollution Facility <5000 tps<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MOH008<br>EPR reference: EA/EPR/LB3936RN/V002<br>Operator: Mr Mohammed Qadeer & Mr Shafqut Ali<br>Waste Management licence No: 104837<br>Annual Tonnage: 4999.0 | Issue Date: 25/03/2013<br>Effective Date: -<br>Modified: 11/07/2013<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Hygrade Motor Spares<br>Correspondence Address: - |
| 65B | 190 | N | 388184<br>400985 | Site Address: -<br>Type: Physical Treatment Facility<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016<br>EPR reference: -<br>Operator: G M Waste Ltd<br>Waste Management licence No: 53930<br>Annual Tonnage: 364000.0 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 27/09/2002<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: North Manchester M R F<br>Correspondence Address: - |

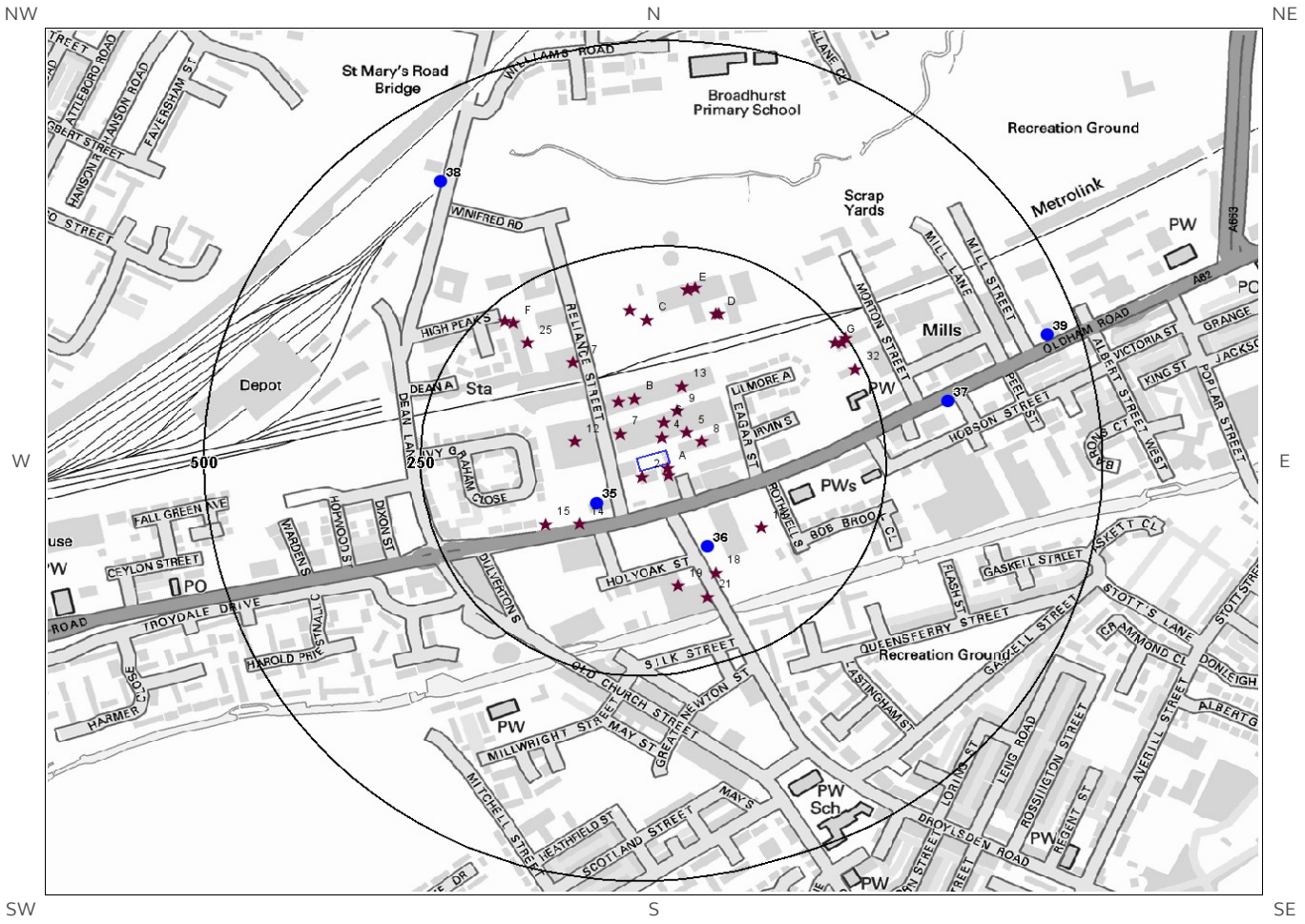
| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| 66 | 217 | N | 388141 401015 | Site Address: North Manchester T L S & M B T Plant, Reliance Street, Newton Heath, Manchester, M40 3EZ<br>Type: Biological Treatment Facility<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016<br>EPR reference: EA/EPR/CP3991LQ/V011<br>Operator: Viridor Waste ( Greater Manchester ) Ltd<br>Waste Management licence No: 53930<br>Annual Tonnage: 150000.0 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 04/01/2017<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: North Manchester T L S And M B T Plant<br>Correspondence Address: - |
| 67K | 264 | NE | 388392 400904 | Site Address: Sandfield House, Morton Street, Failsworth, Manchester, M35 0BN<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: FAU002<br>EPR reference: EA/EPR/DP3992CW/A001<br>Operator: Breakdown Services Manchester Ltd<br>Waste Management licence No: 53606<br>Annual Tonnage: 417.0 | Issue Date: 29/03/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Failsworth Autospares<br>Correspondence Address: - |
| 68K | 270 | NE | 388391 400921 | Site Address: Unit 26 Failsworth Ind Est, Morton Street, Failsworth, Oldham, Lancashire, M35 0BN<br>Type: Vehicle Depollution Facility <5000 tps<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: BLA167<br>EPR reference: EA/EPR/AB3707SQ/A001<br>Operator: Blackstone Breakers Limited<br>Waste Management licence No: 400829<br>Annual Tonnage: 4999.0 | Issue Date: 01/11/2013<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Revoked<br>Site Name: Blackstone Breakers<br>Correspondence Address: - |
| 69L | 306 | N | 388200 401100 | Site Address: Reliance Street, Newton Heath, Manchester, M40 3EZ<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016<br>EPR reference: -<br>Operator: Greater Manchester Waste Ltd<br>Waste Management licence No: 53930<br>Annual Tonnage: 74999.0 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 31/03/2008<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: North Manchester M R F<br>Correspondence Address: Po Box 151, Higher Swan Lane, Bolton, Lancashire, BL3 3WW |
| 70L | 306 | N | 388200 401100 | Site Address: North Manchester T L S & M B T Plant, Reliance Street, Newton Heath, Manchester, Lancs, M40 3EZ<br>Type: Biological Treatment Facility<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016<br>EPR reference: EA/EPR/CP3991LQ/V009<br>Operator: Viridor Waste ( Greater Manchester ) Limited<br>Waste Management licence No: 53930<br>Annual Tonnage: 150000.0 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 29/05/2013<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: North Manchester T L S And M B T Plant<br>Correspondence Address: - |
| 71L | 306 | N | 388200 401100 | Site Address: Reliance Street, Newton Heath, Manchester, M40 3EZ<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 27/05/2009<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | EPR reference: CP3991LQ/V<br>Operator: Viridor Waste ( Greater Manchester) Ltd<br>Waste Management licence No: 53930<br>Annual Tonnage: 74999.0 | Site Name: North Manchester M R F<br>Correspondence Address: - |
| 72L | 306 | N | 388200<br>401100 | Site Address: Land/premises At, Reliance Street, Newton Heath, Manchester, Lancs, M40 3EZ<br>Type: Biological Treatment Facility<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: GMW016<br>EPR reference: EA/EPR/CP3991LQ/V007<br>Operator: Viridor Waste ( Greater Manchester) Ltd<br>Waste Management licence No: 53930<br>Annual Tonnage: 150000.0 | Issue Date: 03/04/1984<br>Effective Date: -<br>Modified: 21/06/2011<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: North Manchester H W R C, T L S And M B T Facility<br>Correspondence Address: - |
| 73 | 307 | NE | 388364<br>401019 | Site Address: Morton Street, Failsworth, Manchester, M35 0BN<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: STO167<br>EPR reference: EA/EPR/DB3500LB/T001<br>Operator: Mr Adam Peter Stott & Mr David John Koomen<br>Waste Management licence No: 53606<br>Annual Tonnage: 5000.0 | Issue Date: 29/03/1996<br>Effective Date: 06/11/2015<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Failsworth Auto Spares & Failsworth Fiat Spares<br>Correspondence Address: - |
| 74H | 319 | NE | 388318<br>401070 | Site Address: Land/premises At, Meek Street, Royton, Oldham, Lancashire, OL2 6HL<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: D&M001<br>EPR reference: EA/EPR/PP3294CR/V002<br>Operator: D & M Demolitions Ltd<br>Waste Management licence No: 50195<br>Annual Tonnage: 4999.0 | Issue Date: 01/12/2003<br>Effective Date: -<br>Modified: 25/05/2010<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: D & M Demolitions Ltd<br>Correspondence Address: - |
| 75 | 321 | NE | 388400<br>401000 | Site Address: A1 Jap Spares Ltd, Mill Lane, Failsworth, Manchester, M35 0BJ<br>Type: Vehicle Depollution Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: A1J001<br>EPR reference: EA/EPR/FB3806FE/A001<br>Operator: A1 Jap Spares Ltd<br>Waste Management licence No: 404537<br>Annual Tonnage: 0.0 | Issue Date: 24/04/2018<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: A1 Jap Spares Ltd<br>Correspondence Address: - |
| 76M | 365 | NE | 388385<br>401078 | Site Address: Mill Lane, Failsworth, Manchester, M35 0BJ<br>Type: Metal Recycling Site (Vehicle Dismantler)<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KHA001<br>EPR reference: EA/EPR/NP3598CG/V002<br>Operator: Khan Gustasaf<br>Waste Management licence No: 50048<br>Annual Tonnage: 40.0 | Issue Date: 07/06/2002<br>Effective Date: -<br>Modified: 11/06/2013<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Mill Lane<br>Correspondence Address: - |
| 77 | 427 | W | 387698<br>400706 | Site Address: 13, Warden Lane, Manchester, M40 2FH<br>Type: Household, Commercial & Industrial | Issue Date: 10/07/1991<br>Effective Date: -<br>Modified: - |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| | | | | Waste T Stn<br>Size: >= 25000 tonnes < 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MWR001<br>EPR reference: EA/EPR/JP3496CY/A001<br>Operator: Bolger K<br>Waste Management licence No: 53890<br>Annual Tonnage: 6250.0 | Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Revoked<br>Site Name: K Bolger Skip Hire<br>Correspondence Address: - |
| 78 | 469 | E | 388621<br>400840 | Site Address: Manchester Auto Spares, Hobson Street, Failsworth, Manchester, M35 0JH<br>Type: ELV Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: RGV001<br>EPR reference: EA/EPR/RP3094CW/V002<br>Operator: Mr Graham Sykes & Mr Robert Lewtas<br>Waste Management licence No: 50439<br>Annual Tonnage: 2500.0 | Issue Date: 24/02/2006<br>Effective Date: -<br>Modified: 24/07/2012<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Manchester Auto Spares<br>Correspondence Address: - |
| Not shown | 1077 | N | 388243<br>401871 | Site Address: Former Tetrosyl Works, St Marys Road, Moston, Manchester, NONE<br>Type: Mobile Plant<br>Size: >= 25000 tonnes < 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: REM001<br>EPR reference: -<br>Operator: Remedex Ltd<br>Waste Management licence No: 50192<br>Annual Tonnage: 62000.0 | Issue Date: 30/10/2000<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Remedex Ltd Mobile Plant<br>Correspondence Address: 36, Westbury Lane, Bristol, Avon, BS9 2PP |
| Not shown | 1077 | N | 388243<br>401871 | Site Address: Former Tetrosyl Works, St Marys Road, Moston, Manchester, NONE<br>Type: Mobile Plant<br>Size: Unknown<br>Environmental Permitting Regulations (Waste) Licence Number: REM001<br>EPR reference: -<br>Operator: Remedex Ltd<br>Waste Management licence No: 50192<br>Annual Tonnage: 62000.0 | Issue Date: 30/10/2000<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Remedex Ltd Mobile Plant<br>Correspondence Address: 36, Westbury Lane, Bristol, Avon, BS9 2PP |
| Not shown | 1458 | SW | 386846<br>400067 | Site Address: Manchester Drums Ltd, Bower Street, Newton Heath, Manchester, M40 2AF<br>Type: Material Recycling Treatment Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: NCG001<br>EPR reference: EA/EPR/GB3603MZ/T001<br>Operator: N C G - M D L U K Limited<br>Waste Management licence No: 53488<br>Annual Tonnage: 417.0 | Issue Date: 12/08/1998<br>Effective Date: 03/11/2018<br>Modified: 09/06/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Manchester Drums Ltd<br>Correspondence Address: - |
| Not shown | 1458 | SW | 386846<br>400067 | Site Address: Manchester Drums Ltd, Bower Street, Newton Heath, Manchester, M40 2AF<br>Type: Material Recycling Treatment Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: NCG001<br>EPR reference: EA/EPR/GB3603MZ/T001<br>Operator: N C G - M D L U K Limited<br>Waste Management licence No: 53488<br>Annual Tonnage: 417.0 | Issue Date: 12/08/1998<br>Effective Date: 03/11/2018<br>Modified: 09/06/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Manchester Drums Ltd<br>Correspondence Address: - |
| Not | 1458 | SW | 386846 | Site Address: Manchester Drums Ltd, | Issue Date: 12/08/1998 |

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| shown | | | 400067 | Bower Street, Newton Heath, Manchester, M40 2AF<br>Type: Material Recycling Treatment Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: MAN009<br>EPR reference: EA/EPR/TP3692CL/V002<br>Operator: Manchester Drums Ltd<br>Waste Management licence No: 53488<br>Annual Tonnage: 417.0 | Effective Date: 02/11/2001<br>Modified: 09/06/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Manchester Drums Ltd<br>Correspondence Address: - |
| Not shown | 1482 | SW | 386831<br>400043 | Site Address: Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR<br>Type: Material Recycling Treatment Facility<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: RPL003<br>EPR reference: EA/EPR/EP3192CS/V004<br>Operator: Recon Packaging Ltd<br>Waste Management licence No: 53559<br>Annual Tonnage: 585.0 | Issue Date: 12/03/1997<br>Effective Date: -<br>Modified: 23/10/2014<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Newton Heath Recycling Treatment Facility<br>Correspondence Address: - |

# 4. Current Land Use Map




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

Search Buffers (m)
250
500

Current Industrial Sites

Petrol & Fuel Sites

Electricity Transmission Cables

Gas Transmission Pipelines

# 4. Current Land Uses

## 4.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site: 34

The following records are represented as points on the Current Land Uses map.

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| 1A | 5 | S | T D Autocare | 388152 400777 | Lonsdale Street, Manchester, Greater Manchester, M40 2FT | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 2 | 7 | S | Manchester M O T Centre | 388122 400766 | Unit 17, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 3A | 13 | S | Works | 388154 400769 | Greater Manchester, M40 | Unspecified Works Or Factories | Industrial Features |
| 4 | 18 | N | Signs 2 Signs | 388146 400814 | Unit 10-11, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Signs | Industrial Products |
| 5 | 33 | NE | G C Supplies UK Ltd | 388174 400821 | Unit 13a-15a Reliance Trading Estate, Manchester, Greater Manchester, M40 3ET | Metals Manufacturers, Fabricators and Stockholders | Industrial Products |
| 6 | 35 | N | P H Conversions Ltd | 388148 400832 | Unit 12a, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Vehicles | Industrial Products |
| 7 | 37 | NW | Highbank Jig & Tools Co Ltd | 388097 400819 | Unit 7, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | General Manufacturing | Industrial Products |
| 8 | 43 | E | Promotor Direct Ltd | 388192 400810 | Unit 2 3a, Eagar Street, Manchester, Greater Manchester, M40 1EP | Vehicle Parts and Accessories | Motoring |
| 9 | 51 | N | Manchester Hydroponics Ltd | 388164 400847 | Unit 1a, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Horticultural Equipment | Industrial Products |
| 10B | 71 | N | Commercial Vehicle Painters Manchester | 388114 400861 | Unit 2, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 11B | 74 | N | Dayton Motor | 388095 400858 | Unit 1b, Reliance Trading Estate, Manchester, Greater Manchester, M40 3AG | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 12 | 75 | W | Warehouse | 388045 400810 | Greater Manchester, M40 | Container and Storage | Transport, Storage and Delivery |
| 13 | 81 | N | Auto Body | 388169 | Unit 5, Reliance Trading | Vehicle Repair, Testing | Repair and Servicing |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| | | | Centre | 400877 | Estate, Manchester, Greater Manchester, M40 3AG | and Servicing | |
| 14 | 95 | SW | The Splash | 388050 400709 | 1097, Oldham Road, Manchester, Greater Manchester, M40 2EH | Vehicle Cleaning Services | Personal, Consumer and Other Services |
| 15 | 127 | SW | Electricity Sub Station | 388012 400709 | Greater Manchester, M40 | Electrical Features | Infrastructure and Facilities |
| 16 | 132 | SE | Scrap Yard | 388261 400705 | Greater Manchester, M40 | Scrap Metal Merchants | Recycling Services |
| 17 | 139 | NW | Robinson Mesh Products | 388043 400906 | Unit 4 Reliance Enterprise Park, Manchester, Greater Manchester, M40 3AL | Cable, Wire and Fibre Optics | Industrial Products |
| 18 | 143 | S | Works | 388208 400650 | Greater Manchester, M40 | Unspecified Works Or Factories | Industrial Features |
| 19 | 146 | S | Custom Cookie Co | 388165 400634 | 30, Holyoak Street, Manchester, Greater Manchester, M40 1HB | Giftware | Consumer Products |
| 20C | 162 | N | Tank | 388128 400958 | Greater Manchester, M40 | Tanks (Generic) | Industrial Features |
| 21 | 169 | S | Works | 388199 400620 | Greater Manchester, M40 | Unspecified Works Or Factories | Industrial Features |
| 22D | 177 | N | Conveyor | 388208 400965 | Greater Manchester, M40 | Conveyors | Industrial Features |
| 23C | 177 | N | Electricity Sub Station | 388109 400970 | Greater Manchester, M40 | Electrical Features | Infrastructure and Facilities |
| 24D | 179 | N | Conveyor | 388212 400966 | Greater Manchester, M40 | Conveyors | Industrial Features |
| 25 | 190 | NW | Reliance Street Enterprise Park | 387991 400930 | Greater Manchester, M40 | Business Parks and Industrial Estates | Industrial Features |
| 26E | 199 | N | Reliance Street Mechanical Biological Treatment Facility (MBT) - Anaerobic Digestion (DECC) | 388175 400995 | Reliance Street, Newton Heath, Manchester, Greater Manchester, M40 3EZ | Energy Production | Industrial Features |
| 27E | 199 | N | Viridor Ltd | 388175 400995 | Reliance Street, Manchester, Greater Manchester, M40 3EZ | Waste Storage, Processing and Disposal | Infrastructure and Facilities |
| 28E | 202 | N | S C S Motors Ltd | 388184 400996 | Unit 6 Enterprise Business Park, Reliance Street, Manchester, Greater Manchester, M40 3AL | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 29F | 219 | NW | Rani Frozen Foods | 387974 400954 | Unit 7-8, Reliance Enterprise Park, Manchester, Greater Manchester, M40 3AL | Catering and Non Specific Food Products | Foodstuffs |
| 30F | 228 | NW | Electricity Sub Station | 387964 400957 | Greater Manchester, M40 | Electrical Features | Infrastructure and Facilities |
| 31G | 236 | NE | Heritage Engineering North West Ltd | 388346 400931 | Unit 16 Failsworth Industrial Estate, Morton Street, Failsworth, Manchester, Greater | Industrial Engineers | Engineering Services |

| ID | Distance (m) | Direction | Company | NGR | Address | Activity | Category |
|---|---|---|---|---|---|---|---|
| | | | | | Manchester, M35 0BN | | |
| 32 | 240 | NE | B T C Motor Repairs Ltd | 388368 400898 | Unit 12-15 Failsworth Industrial Estate, Morton Street, Failsworth, Manchester, Greater Manchester, M35 0BN | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 33G | 242 | NE | McDonald Ceilings Ltd | 388354 400930 | Unit 17 Failsworth Industrial Estate, Morton Street, Failsworth, Manchester, Greater Manchester, M35 0BN | Building and Component Suppliers | Construction Services |
| 34G | 249 | NE | B P M Engineering Services Ltd | 388357 400935 | Unit 18 Failsworth Industrial Estate, Morton Street, Failsworth, Manchester, Greater Manchester, M35 0BN | Special Purpose Machinery and Equipment | Industrial Products |

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 5

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

| ID | Distance (m) | Direction | NGR | Company | Address | LPG | Status |
|---|---|---|---|---|---|---|---|
| 35 | 64 | SW | 388071 400734 | OBSOLETE | 1123 Oldham Road, Reliance Street, Newton Heath, Manchester, Greater Manchester, M40 2AB | Not Applicable | Obsolete |
| 36 | 111 | SE | 388199 400681 | OBSOLETE | 1370 Oldham Road, Newton Heath, Manchester, Greater Manchester, M40 2NW | Not Applicable | Obsolete |
| 37 | 329 | E | 388476 400858 | TEXACO | 15-49 Oldham Road, Failsworth, Manchester, Greater Manchester, M35 0BR | No | Open |
| 38 | 407 | NW | 387890 401126 | TEXACO | St Marys Road, Newton Heath, Manchester, Greater Manchester, M40 3AR | No | Open |
| 39 | 462 | E | 388591 400939 | UNBRANDED | Oldham Road, Failsworth, Oldham, Greater Manchester, M35 0BH | Not Applicable | Obsolete |

## 4.3 National Grid High Voltage Underground Electricity Transmission Cables

This dataset identifies the high voltage electricity transmission lines running between generating power plants and electricity substations. The dataset does not include the electricity distribution network (smaller, lower voltage cables distributing power from substations to the local user network). This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high voltage underground electricity transmission cables within 500m of the study site: 0

Database searched and no data found.

---

## 4.4 National Grid High Pressure Gas Transmission Pipelines

This dataset identifies high-pressure, large diameter pipelines which carry gas between gas terminals, power stations, compressors and storage facilities. The dataset does not include the Local Transmission System (LTS) which supplies gas directly into homes and businesses. This information has been extracted from databases held by National Grid and is provided for information only with no guarantee as to its completeness or accuracy. National Grid do not offer any warranty as to the accuracy of the available data and are excluded from any liability for any such inaccuracies or errors.

Records of National Grid high pressure gas transmission pipelines within 500m of the study site: 0

Database searched and no data found.

---

# 5. Geology

## 5.1 Artificial Ground and Made Ground

Database searched and no data found.

The database has been searched on site, including a 50m buffer.

## 5.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |

## 5.3 Bedrock and Solid Geology

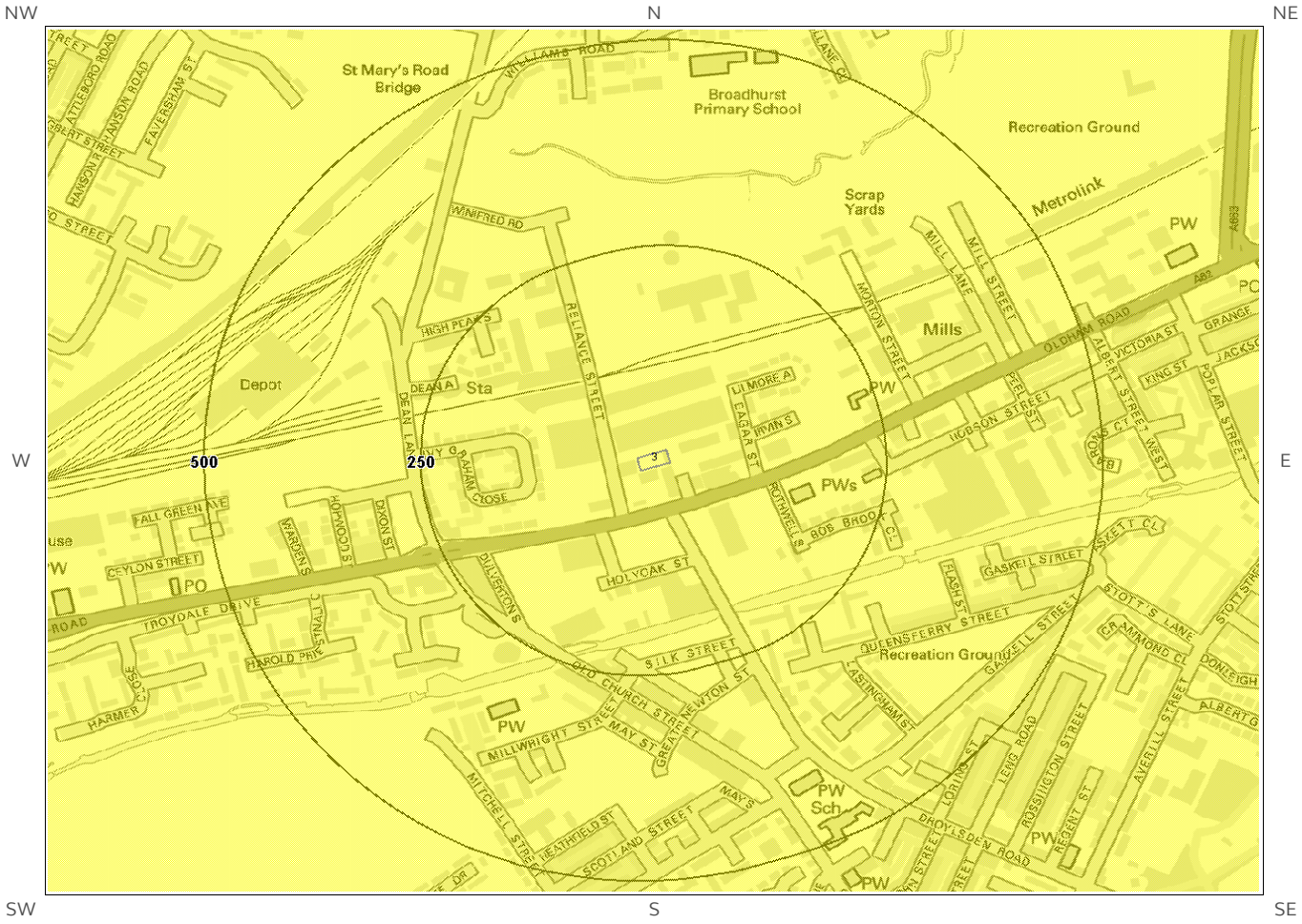
The database has been searched on site, including a 50m buffer.

| Lex Code | Description | Rock Type |
|---|---|---|
| CS-SDST | COLLYHURST SANDSTONE FORMATION | SANDSTONE |

(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology




© Crown copyright and database rights 2019
Ordnance Survey licence 100035207.

Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

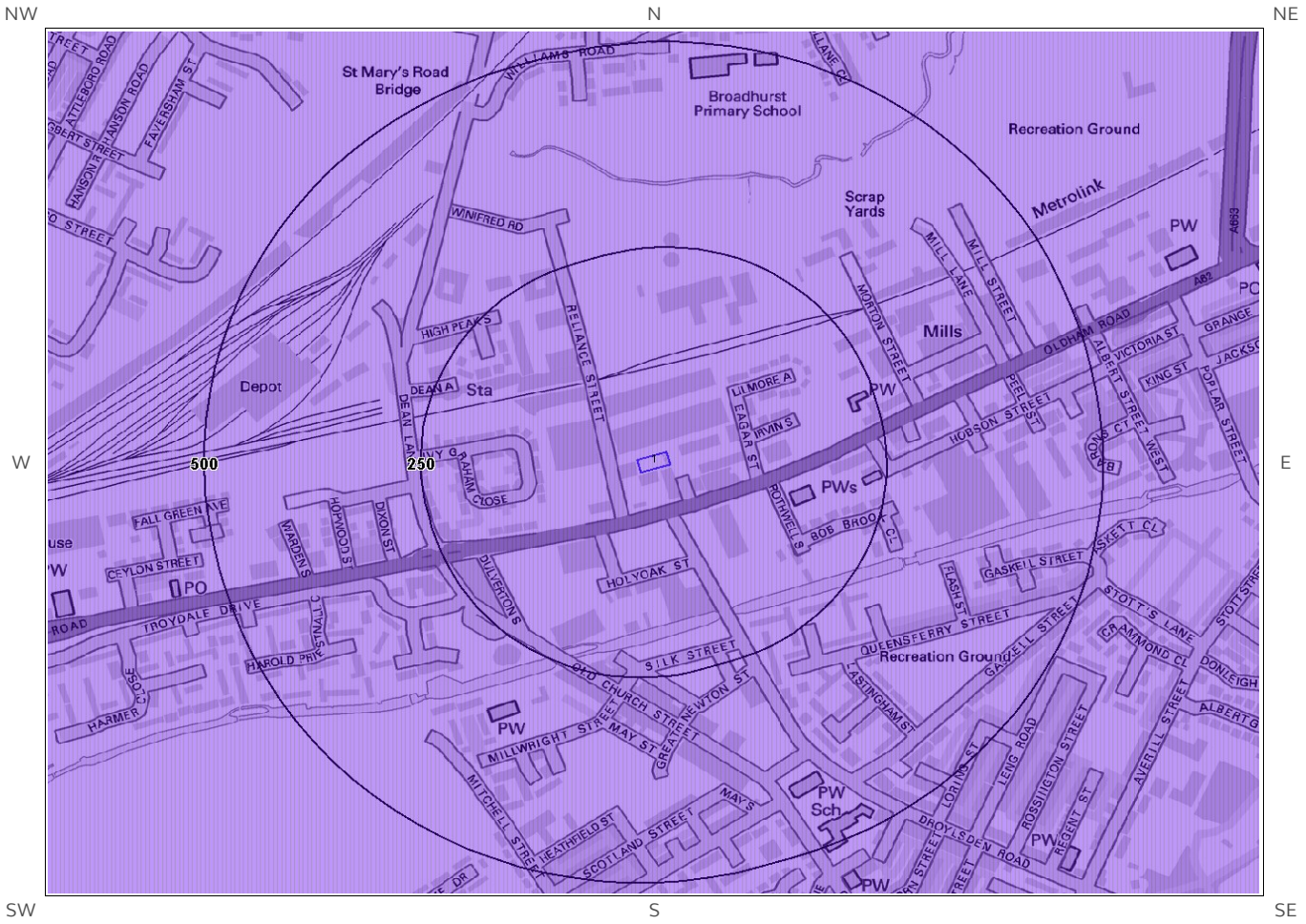
Secondary (B) Aquifer - Lower Permeability Layers

Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

# 6b. Aquifer Within Bedrock Geology and Abstraction Licences




© Crown copyright and database rights 2019
Ordnance Survey licence 100035207.

Site Outline

250
500
Search Buffers (m)

Principal Aquifer

Secondary (A) Aquifer - Permeable Layers

Secondary (B) Aquifer - Lower Permeability Layers

Groundwater Abstraction Licence

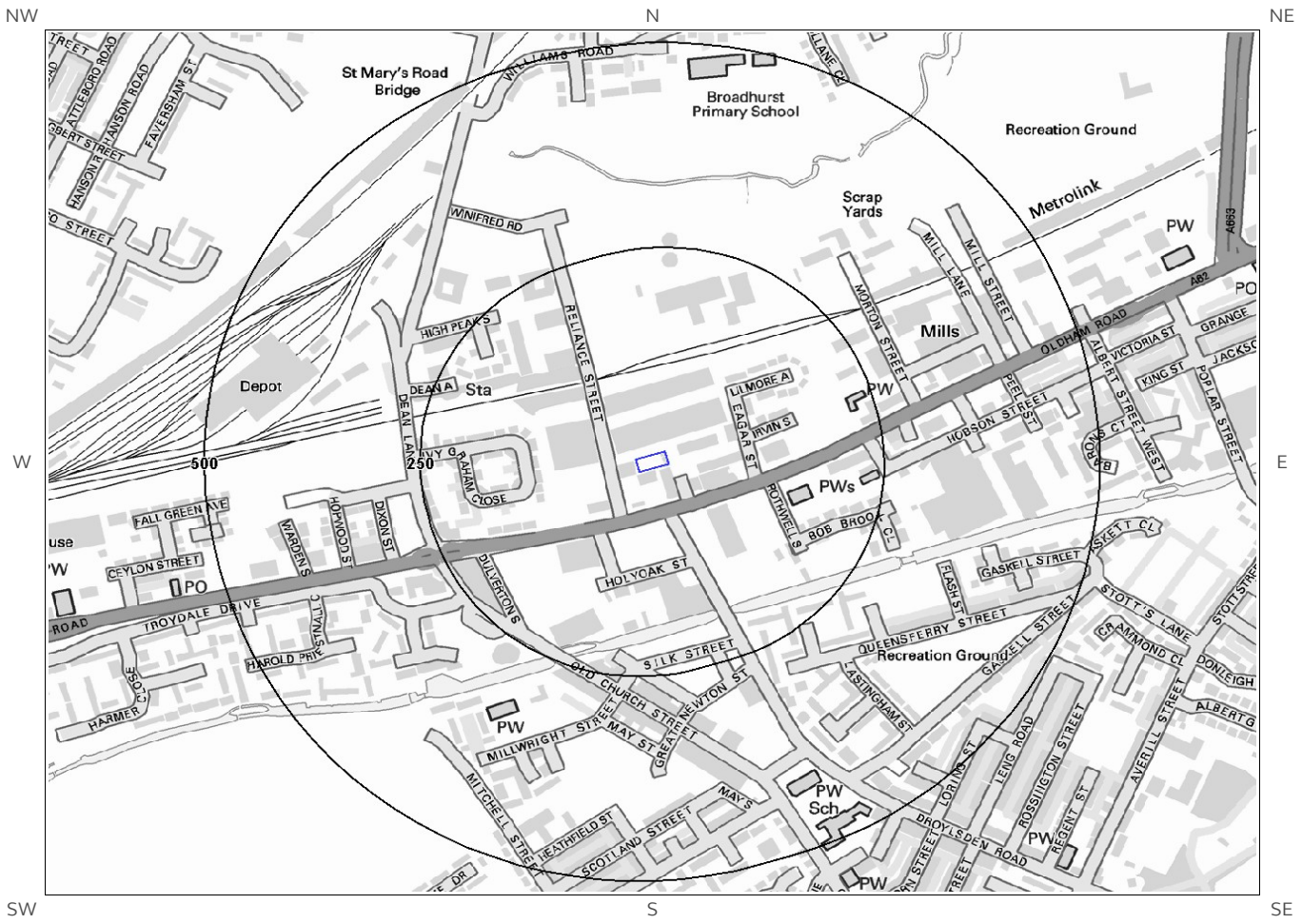
Secondary Aquifer - Undifferentiated Layers

Unproductive

Unknown (lakes and landslip)

Surface Water Abstraction Licence

# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licences




© Crown copyright and database rights 2019
Ordnance Survey licence 100035207.

Site Outline

250
500
Search Buffers (m)

Source Protection Zone 1 - Inner Catchment

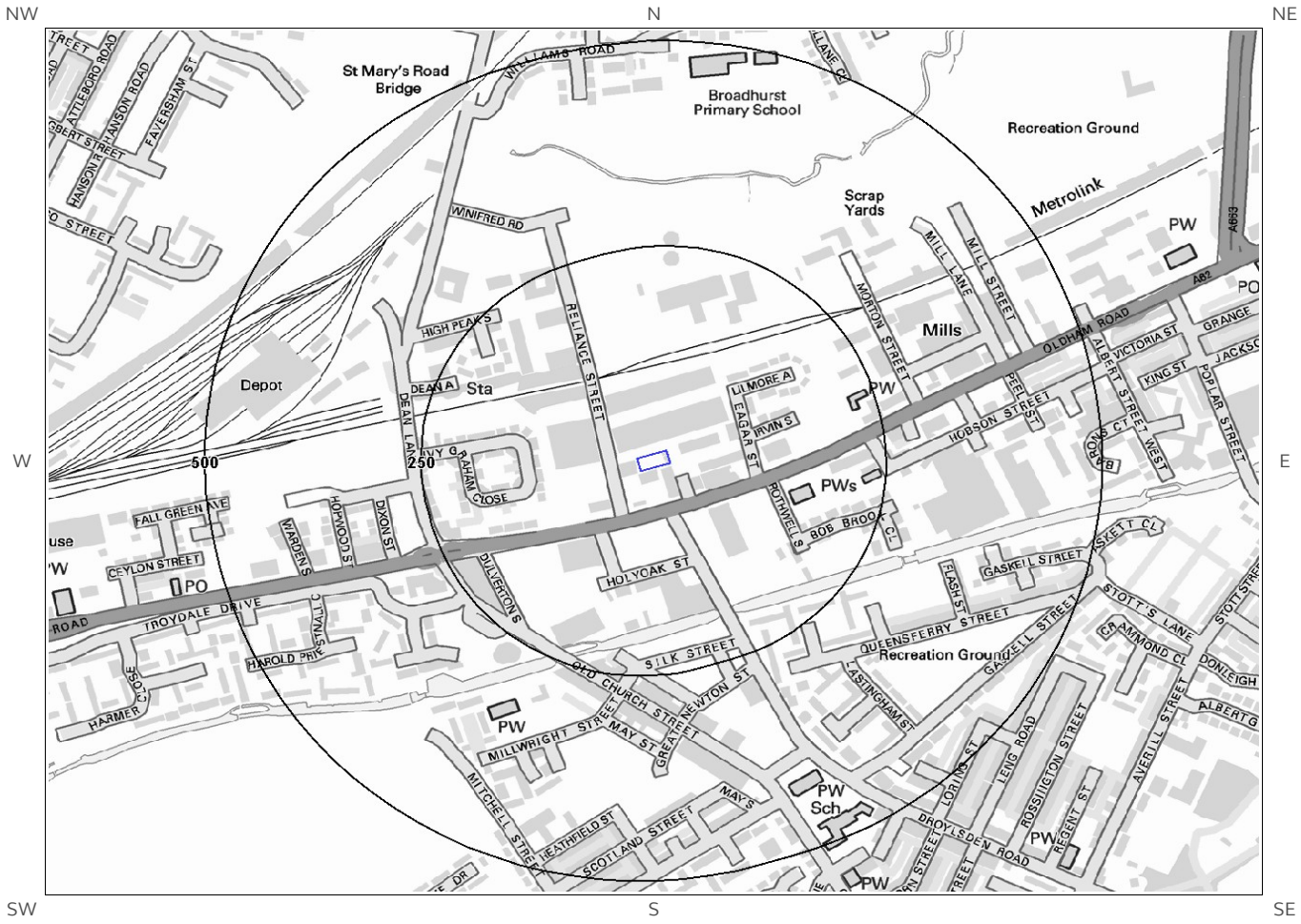
Source Protection Zone 2 - Outer Catchment

Source Protection Zone 3 - Total Catchment

Source Protection Zone 4 - Zone of Special Interest

Potable Water Abstraction Licence

# 6d. Hydrogeology – Source Protection Zones within confined aquifer




© Crown copyright and database rights 2019
Ordnance Survey licence 100035207.

Site Outline

250 Search Buffers (m)
500

Source Protection Zone 1 - Inner Catchment

Source Protection Zone 2C - Outer Catchment within Confined Aquifer

Source Protection Zone 3C - Total Catchment within Confined Aquifer

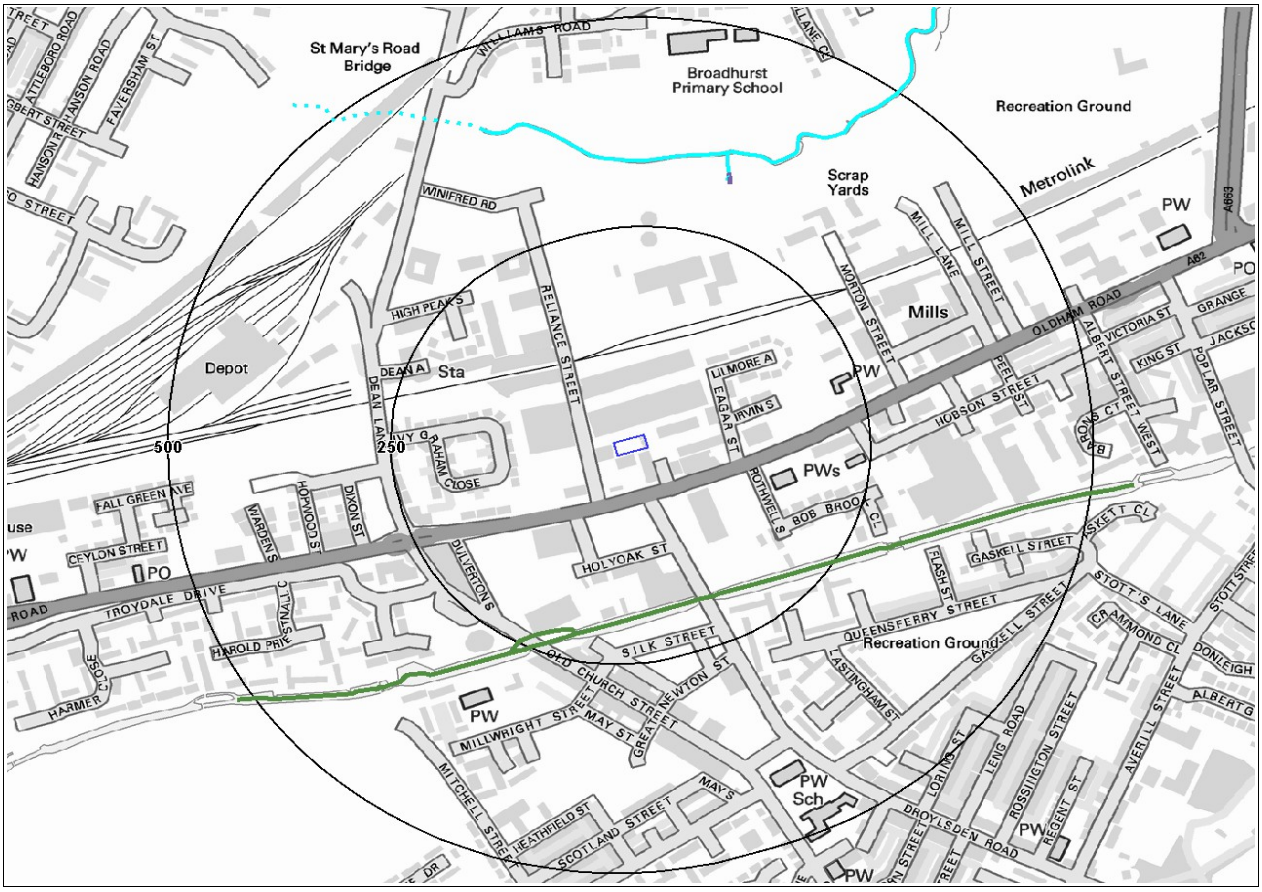
Potable Water Abstraction Licence

# 6e. Hydrology – Watercourse Network and River Quality

NW N NE

W E

SW S SE




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

250 / 500 Search Buffers (m)

Watercourse type

- Tidal River
- Inland River
- Canal
- Lock or Flight of Locks
- Lake, Reservoir, or Marsh
- Foreshore
- Drain or Transfer

Watercourse level

- On ground surface
- Underground or Elevated
- Level unknown

- General Quality Assessment: Biology
- General Quality Assessment: Chemistry

# 6.Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Records of strata classification within the superficial geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (6a):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 3 | 0 | 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 |

## 6.2 Aquifer within Bedrock Deposits

Records of strata classification within the bedrock geology at or in proximity to the property Yes

From 1 April 2010, the Environment Agency/Natural Resources Wales's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the Groundsure Enviro Insight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | Designation | Description |
|---|---|---|---|---|
| 1 | 0 | On Site | Principal | Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers |

## 6.3 Groundwater Abstraction Licences

Groundwater Abstraction Licences within 2000m of the study site — Identified

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (6b):

| ID | Distance (m) | Direction | NGR | Details | |
|---|---|---|---|---|---|
| Not shown | 1594 | SE | 389100 399500 | Status: Historical<br>Licence No: 2569006021<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT CLAYTON MILL BRIDGE, MANCHESTER<br>Data Type: Point<br>Name: MANCHESTER ABATTOIR | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 15/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/05/1998<br>Version End Date: |
| Not shown | 1853 | SW | 386550 399790 | Status: Historical<br>Licence No: 2569005061<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER"<br>Data Type: Point<br>Name: HANSON QUARRY PRODUCTS EUROPE LTD | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 08/02/2000<br>Expiry Date: -<br>Issue No: 2<br>Version Start Date: 01/07/2000<br>Version End Date: |
| Not shown | 1853 | SW | 386550 399790 | Status: Active<br>Licence No: 2569005061<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER<br>Data Type: Point<br>Name: HANSON QUARRY PRODUCTS EUROPE LIMITED | Annual Volume ($m^3$): 33000<br>Max Daily Volume ($m^3$): 125<br>Original Application No: -<br>Original Start Date: 08/02/2000<br>Expiry Date: -<br>Issue No: 3<br>Version Start Date: 13/08/2012<br>Version End Date: |

## 6.4 Surface Water Abstraction Licences

Surface Water Abstraction Licences within 2000m of the study site — None identified

Database searched and no data found.

## 6.5 Potable Water Abstraction Licences

Potable Water Abstraction Licences within 2000m of the study site — None identified

Database searched and no data found.

## 6.6 Source Protection Zones

Source Protection Zones within 500m of the study site — None identified

Database searched and no data found.

## 6.7 Source Protection Zones within Confined Aquifer

Source Protection Zones within the Confined Aquifer within 500m of the study site — None identified

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

## 6.8 Groundwater Vulnerability and Soil Leaching Potential

Environment Agency/Natural Resources Wales information on groundwater vulnerability and soil leaching potential within 500m of the study site — Identified

| Distance (m) | Direction | Classification | Soil Vulnerability Category | Description |
|---|---|---|---|---|
| 0 | On Site | Major Aquifer/High Leaching Potential | HU | Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information. |

## 6.9 River Quality

Environment Agency/Natural Resources Wales information on river quality within 1500m of the study site — Identified

### 6.9.1 Biological Quality:

Database searched and no data found.

### 6.9.2 Chemical Quality:

Chemical quality data is based on the General Quality Assessment Headline Indicators scheme (GQAHI). In England, each chemical sample is measured for ammonia and dissolved oxygen. In Wales, the samples are measured for biological oxygen demand (BOD), ammonia and dissolved oxygen. The results are graded from A ('Very Good') to F ('Bad').

The following Chemical Quality records are shown on the Hydrology Map (6e):

| | | | | | Chemical Quality Grade | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ID | Distance (m) | Direction | NGR | River Quality Grade | 2005 | 2006 | 2007 | 2008 | 2009 |
| Not shown | 847 | N | 388397 401608 | River Name: River Swale<br>Reach: Blackburn Beck Stonesdale Beck<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| Not shown | 847 | N | 388397 401608 | River Name: River Swale<br>Reach: Whitsundale Beck Blackburn Beck<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 956 | NE | 388781 401517 | River Name: River Swale<br>Reach: Stonesdale Beck East Gill<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| Not shown | 956 | NE | 388781 401517 | River Name: Stonesdale Beck<br>Reach: Standing Stones River Swale<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 956 | NE | 388781 401517 | River Name: River Swale<br>Reach: Blackburn Beck Stonesdale Beck<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1020 | NW | 387303 401402 | River Name: Whitsundale Beck<br>Reach: Hoods Bottom Beck River Swale<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1020 | NW | 387303 401402 | River Name: River Swale<br>Reach: Great Ash Gill Whitsundale Beck<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1020 | NW | 387303 401402 | River Name: River Swale<br>Reach: Whitsundale Beck Blackburn Beck<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| Not shown | 1257 | NW | 386985 401334 | River Name: River Swale<br>Reach: C.birkdale Beck/greagreat Ash Gill<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1257 | NW | 386985 401334 | River Name: River Swale<br>Reach: Great Ash Gill Whitsundale Beck<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| Not shown | 1257 | NW | 386985 401334 | River Name: Great Ash Gill<br>Reach: Source River Swale<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1481 | E | 389611 401056 | River Name: River Swale<br>Reach: East Gill Hind Hole Beck<br>End/Start of Stretch: Start of Stretch NGR | A | A | A | A | A |
| Not shown | 1481 | E | 389611 401056 | River Name: River Swale<br>Reach: Stonesdale Beck East Gill<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |
| Not shown | 1481 | E | 389611 401056 | River Name: East Gill<br>Reach: Source River Swale<br>End/Start of Stretch: End of Stretch NGR | A | A | A | A | A |

## 6.10 Ordnance Survey MasterMap Water Network

Ordnance Survey MasterMap Water Network entries within 500m of the study site

This watercourse information is provided by Ordnance Survey MasterMap Water Network. The data provides a detailed centre line following the curve of the waterway precisely, so all distances provided in the report should be understood as measurements to the centreline rather than a measurement to the nearest point of the watercourse. Underground watercourses are inferred from entry and exit points so caution is advised in using these to indicate precise locations of underground watercourses when planning site investigation and development.

The following Ordnance Survey MasterMap Water Network records are represented on the Hydrology Map (6e):

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| 1 | 190 S | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 13.8 |
| 15 | 190 S | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 13.8 |
| 2 | 214 S | - | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.8 |
| 16 | 214 S | - | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.8 |
| 3 | 219 S | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.7 |
| 17 | 219 S | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 12.7 |
| 4 | 233 SW | - | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 18 | 233 SW | - | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 5 | 265 SW | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| | | | | conditions)<br>Average Width in Watercourse Section (m): 11.9 |
| 19 | 265<br>SW | Rochdale Canal | Canal. A manmade watercourse for inland navigation. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 11.9 |
| 6 | 315<br>N | - | Lake, loch or reservoir. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.0 |
| Not shown | 315<br>N | - | Lake, loch or reservoir. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 2.0 |
| 7 | 318<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 318<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 8 | 323<br>N | - | Lake, loch or reservoir. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.2 |
| Not shown | 323<br>N | - | Lake, loch or reservoir. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 1.2 |
| 9 | 328<br>N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| 10 | 328<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 328<br>N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.0 |
| Not shown | 328<br>N | - | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| 11 | 351<br>N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.6 |

| ID | Distance/ Direction | Name | Type of Watercourse | Additional Details |
|---|---|---|---|---|
| Not shown | 351 N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: On ground surface<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): 3.6 |
| 12 | 403 N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |
| Not shown | 403 N | Moston Brook | Inland river not influenced by normal tidal action. | Catchment Area: Mersey<br>Relationship to Ground Level: Not provided<br>Permanence: Watercourse contains water year round (in normal conditions)<br>Average Width in Watercourse Section (m): Not Provided |

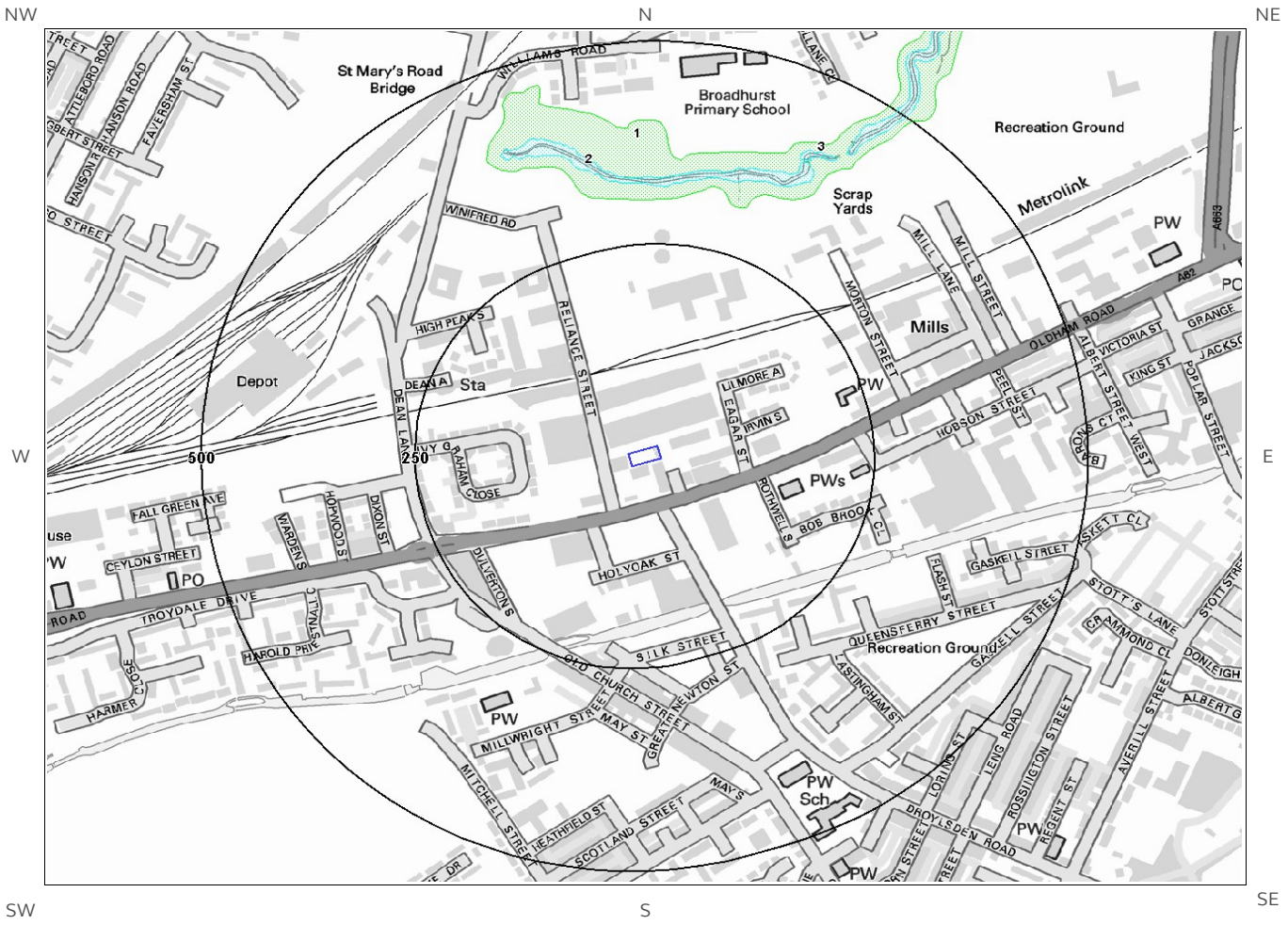
## 6.11 Surface Water Features

Surface water features within 250m of the study site Identified

The following surface water records are not represented on mapping:

| Distance (m) | Direction |
|---|---|
| 185 | S |
| 187 | SE |
| 248 | SW |

# 7a. Environment Agency/Natural Resources Wales Flood Map for Planning (from rivers and the sea)




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

100
250
Search Buffers (m)

Zone 2 Floodplain

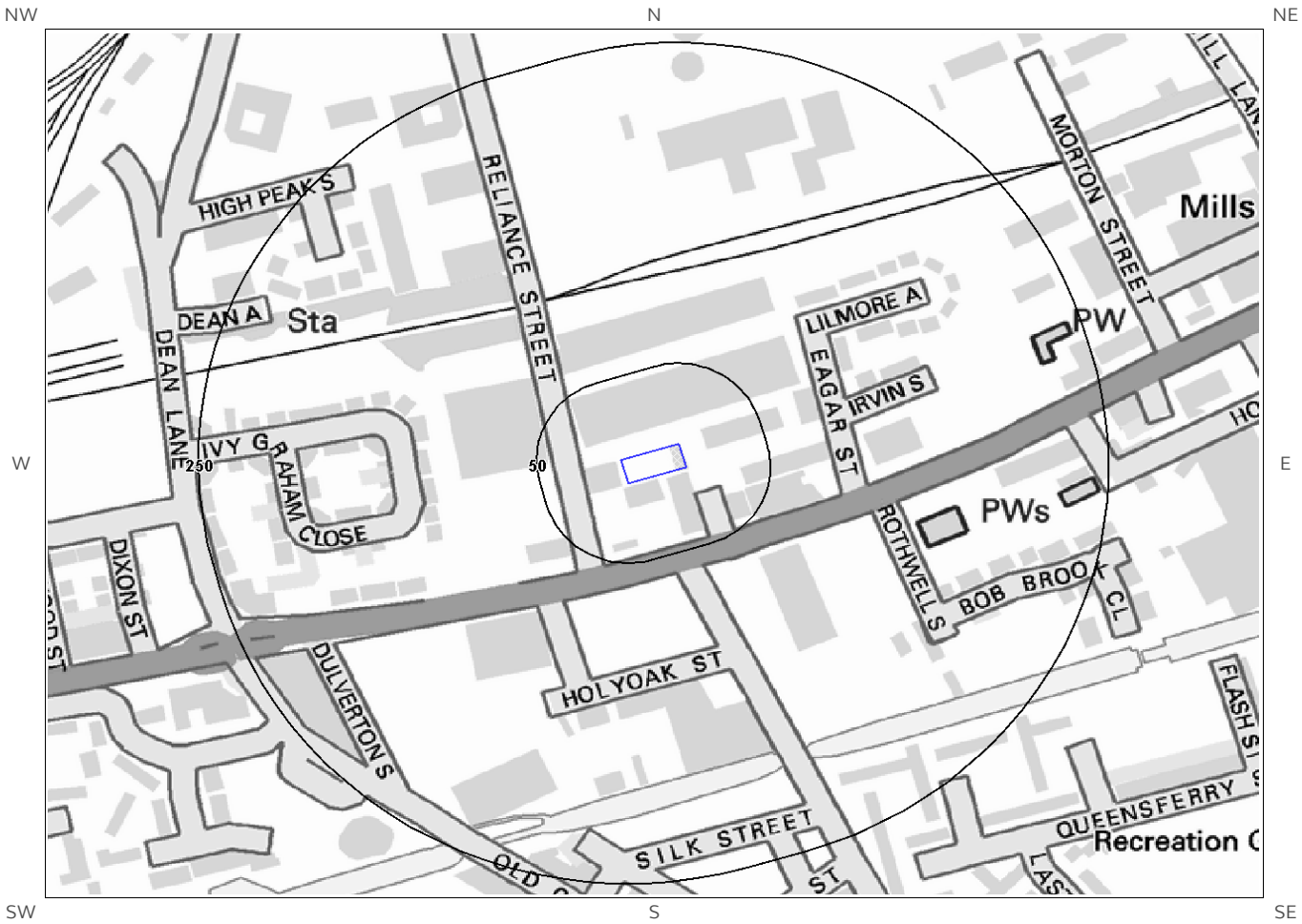
Zone 3 Floodplain

Flood Defences

Area used for Flood Storage

Area Benefiting from Flood Defences

# 7b. Environment Agency/Natural Resources Wales Risk of Flooding from Rivers and the Sea (RoFRaS) Map




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

100 / 250 Search Buffers (m)

RoFRaS Rating

- Very Low
- Low
- Medium
- High

Report Reference: GS-6157418
Client Reference: 7473

# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Environment Agency/Natural Resources Wales Zone 2 floodplain within 250m — None identified

Environment Agency/Natural Resources Wales Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 7a – Flood Map for Planning:

Database searched and no data found.

## 7.2 River and Coastal Zone 3 Flooding

Environment Agency/Natural Resources Wales Zone 3 floodplain within 250m — None identified

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 7a – Flood Map for Planning.

Database searched and no data found.

## 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating

Highest risk of flooding onsite — Very Low

The Environment Agency/Natural Resources Wales RoFRaS database provides an indication of river and coastal flood risk at a national level on a 50m grid with the flood rating at the centre of the grid calculated and given above. The data considers the probability that the flood defences will overtop or breach by considering their location, type, condition and standard of protection.

RoFRaS data for the study site indicates the property is in an area with a Very Low (less than 1 in 1000) chance of flooding in any given year.

## 7.4 Flood Defences

Flood Defences within 250m of the study site — None identified

Database searched and no data found.

## 7.5 Areas benefiting from Flood Defences

Areas benefiting from Flood Defences within 250m of the study site — None identified

## 7.6 Areas benefiting from Flood Storage

| | |
|---|---|
| Areas used for Flood Storage within 250m of the study site | None identified |

## 7.7 Groundwater Flooding Susceptibility Areas

| | |
|---|---|
| 7.7.1 British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site | Identified |
| Clearwater Flooding or Superficial Deposits Flooding | Clearwater Flooding |

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

7.7.2 Highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions

Limited potential

Where limited potential for groundwater flooding to occur is indicated, this means that although given the geological conditions there may be a groundwater flooding hazard, unless other relevant information, e.g. records of previous flooding, suggests groundwater flooding has occurred before in this area, you need take no further action in relation to groundwater flooding hazard.

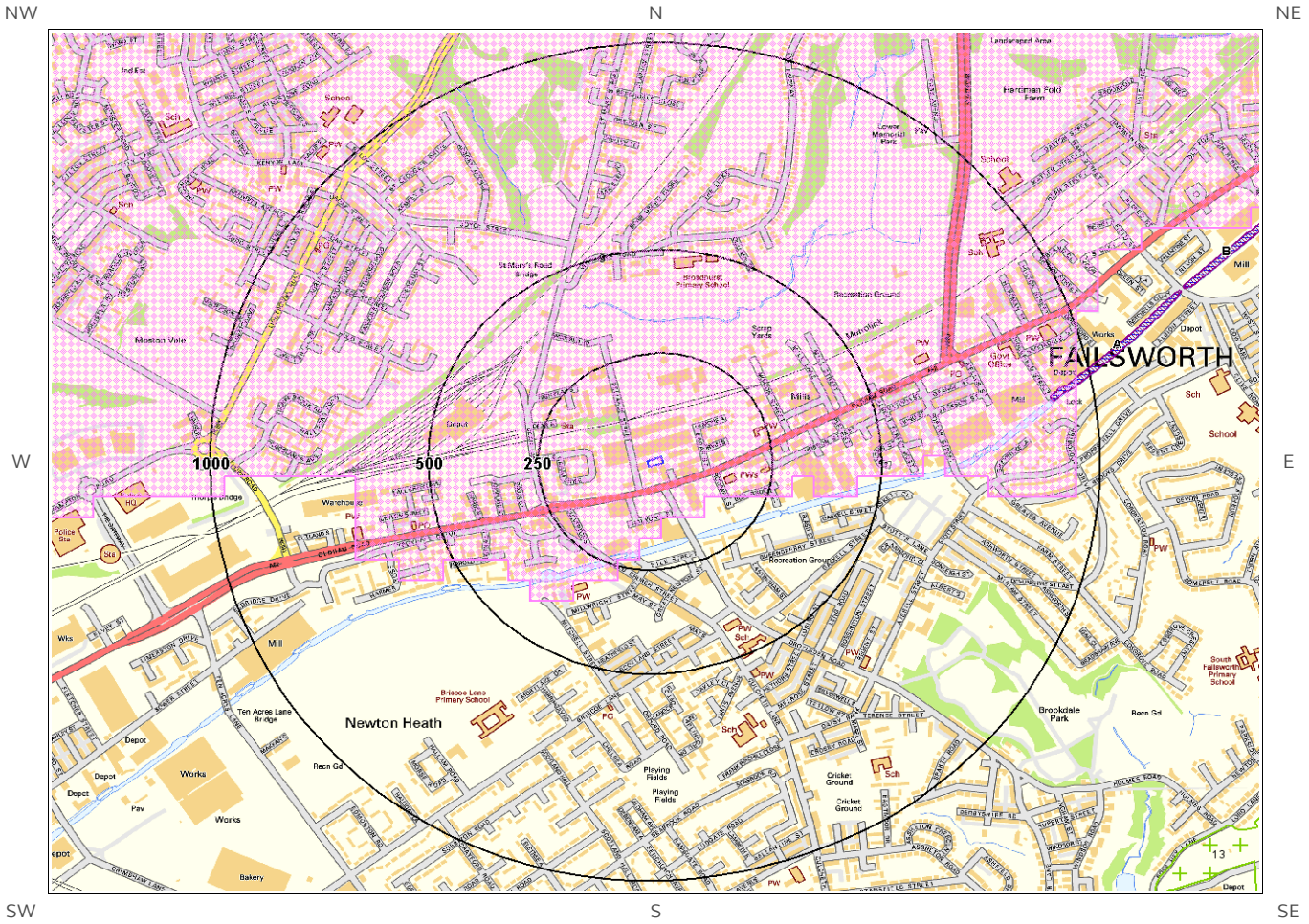
## 7.8 Groundwater Flooding Confidence Areas

| | |
|---|---|
| British Geological Survey confidence rating in this result | Low |

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

# 8. Designated Environmentally Sensitive Sites Map




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

# 8. Designated Environmentally Sensitive Sites

Designated Environmentally Sensitive Sites within 2000m of the study site | Identified

## 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:

3

The following Site of Special Scientific Interest (SSSI) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | SSSI Name | Data Source |
|---|---|---|---|---|
| 4A | 901 | E | Rochdale Canal | Natural England |
| 5B | 1263 | E | Rochdale Canal | Natural England |
| Not shown | 1659 | NE | Rochdale Canal | Natural England |

## 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:

0

Database searched and no data found.

## 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:

3

The following Special Area of Conservation (SAC) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | SAC Name | Data Source |
|---|---|---|---|---|
| 1A | 901 | E | Rochdale Canal | Natural England |
| 2B | 1263 | E | Rochdale Canal | Natural England |
| Not shown | 1659 | NE | Rochdale Canal | Natural England |

## 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:

0

Database searched and no data found.

## 8.5 Records of Ramsar sites within 2000m of the study site:

0

Database searched and no data found.

## 8.6 Records of Ancient Woodland within 2000m of the study site:

1

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | Ancient Woodland Name | Data Source |
|---|---|---|---|---|
| Not shown | 1857 | NW | BOGGART HOLE CLOUGH | Ancient and Semi-Natural Woodland |

## 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

2

The following Local Nature Reserve (LNR) records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | LNR Name | Data Source |
|---|---|---|---|---|
| Not shown | 1216 | S | Clayton Vale | Natural England |
| Not shown | 1828 | NW | Boggart Hole Clough | Natural England |

## 8.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

## 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

## 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

## 8.11 Records of National Parks (NP) within 2000m of the study site:

0

Database searched and no data found.

## 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

## 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

2

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

| ID | Distance (m) | Direction | NVZ Name | Data Source |
|---|---|---|---|---|
| 9 | 0 | On Site | Existing | DEFRA |
| Not shown | 1978 | E | Existing | DEFRA |

## 8.14 Records of Green Belt land within 2000m of the study site:

7

Green Belt data contains Ordnance Survey data © Crown copyright and database right [2015].

| ID | Distance | Direction | Green Belt Name | Local Authority Name |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Not shown | 1212 | S | Liverpool, Manchester and West Yorks Greenbelt | Manchester District (B) |
| 13 | 1511 | SE | Liverpool, Manchester and West Yorks Greenbelt | Oldham District (B) |
| Not shown | 1634 | SE | Liverpool, Manchester and West Yorks Greenbelt | Tameside |
| Not shown | 1821 | E | Liverpool, Manchester and West Yorks Greenbelt | Oldham District (B) |
| Not shown | 1916 | E | Liverpool, Manchester and West Yorks Greenbelt | Oldham District (B) |
| Not shown | 1934 | SE | Liverpool, Manchester and West Yorks Greenbelt | Oldham District (B) |
| Not shown | 1969 | SE | Liverpool, Manchester and West Yorks Greenbelt | Oldham District (B) |

# 9. Natural Hazards Findings

## 9.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a Groundsure Geo Insight, available from our website. The following information has been found:

### 9.1.1 Shrink Swell

Maximum Shrink-Swell*[*] hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

### 9.1.2 Landslides

Maximum Landslide* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

### 9.1.3 Soluble Rocks

Maximum Soluble Rocks* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
|---|
| Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

* This indicates an automatically generated 50m buffer and site.

### 9.1.4 Compressible Ground

Maximum Compressible Ground* hazard rating identified on the study site — Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
| --- |
| No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

### 9.1.5 Collapsible Rocks

Maximum Collapsible Rocks* hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
| --- |
| Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

### 9.1.6 Running Sand

Maximum Running Sand*[*] hazard rating identified on the study site — Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

| Hazard |
| --- |
| Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

* This indicates an automatically generated 50m buffer and site.

## 9.2 Radon

### 9.2.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

---

### 9.2.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing
ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

# 10. Mining

## 10.1 Coal Mining

Coal mining areas within 75m of the study site — Identified

The following coal mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|---|---|---|
| 0 | On Site | The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority |

## 10.2 Non-Coal Mining

Non-Coal Mining areas within 50m of the study site boundary — None identified

Database searched and no data found.

## 10.3 Brine Affected Areas

Brine affected areas within 75m of the study site — None identified
Guidance: No Guidance Required.

# Contact Details

**Groundsure Helpline**
Telephone: 08444 159 000
info@groundsure.com

**British Geological Survey Enquiries**
Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries:
**enquiries@bgs.ac.uk**

**Environment Agency**
National Customer Contact Centre, PO Box 544
Rotherham, S60 1BY
Tel: 03708 506 506
Web: **www.environment-agency.gov.uk**
Email: enquiries@environment-agency.gov.uk

**Public Health England**
Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
www.gov.uk/phe
Email:**enquiries@phe.gov.uk**
Main switchboard**: 020 7654 8000**

**The Coal Authority**
200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
**www.coal.gov.uk**

**Ordnance Survey**
Adanac Drive, Southampton
SO16 0AS
Tel: 08456 050505

**Local Authority**
Authority: Manchester City Council
Phone: 0161 234 5000
Web: http://www.manchester.gov.uk/
Address: , Manchester, M60 2LA

**Gemapping PLC**
Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444

Acknowledgements: Site of Special Scientific Interest, National Nature Reserve, Ramsar Site, Special Protection Area, Special Area of Conservation data is provided by, and used with the permission of, Natural England/Natural Resources Wales who retain the Copyright and Intellectual Property Rights for the data.
PointX © Database Right/Copyright, Thomson Directories Limited © Copyright Link Interchange Network Limited © Database Right/Copyright and Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028].
This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

# Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:

https://www.groundsure.com/terms-and-conditions-feb11-2019

Groundsure
LOCATION INTELLIGENCE

Egniol Environmental Ltd

EGNIOL ENVIRONMENTAL LTD, UNIT 7, LLYS ONNEN, FFORDD Y LLYN,
PARC MENAI, LL57 4DF

| | |
|---|---|
| Groundsure Reference: | GS-6157419 |
| Your Reference: | 7473 |
| Report Date | 9 Jul 2019 |
| Report Delivery Method: | Email - pdf |

## Geo Insight

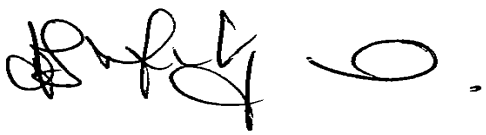
Address: UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geo Insight** as requested.

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above Groundsure reference number.

Yours faithfully,



Managing Director
Groundsure Limited

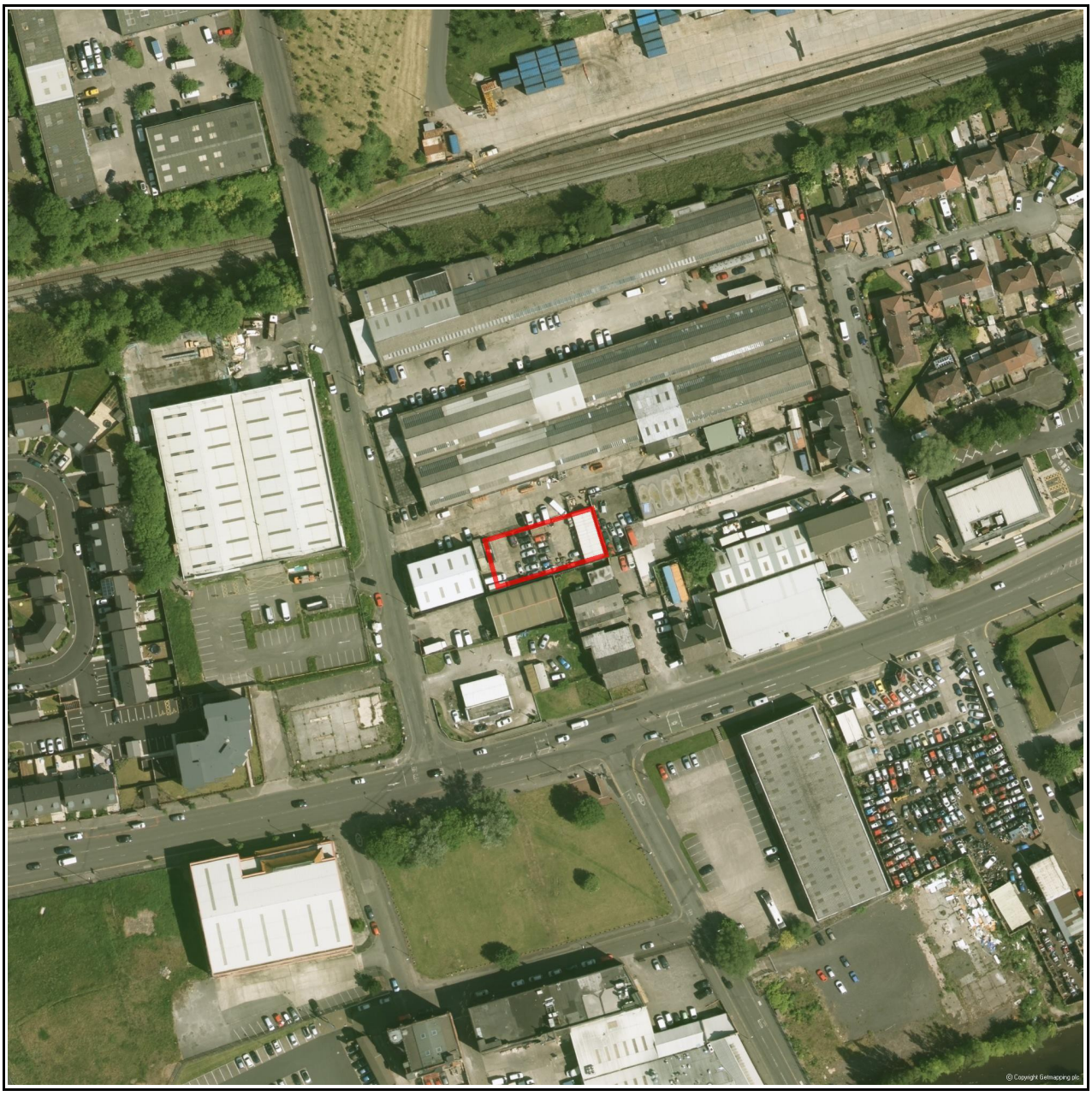
Enc.
Groundsure Geo Insight

# Geo Insight

| | |
|---|---|
| **Address:** | **UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG** |
| **Date:** | **9 Jul 2019** |
| **Reference:** | **GS-6157419** |
| **Client:** | **Egniol Environmental Ltd** |

NW N NE

W E




SW S SE

Aerial Photograph Capture date: 11-Jun-2015
Grid Reference: 388134,400783
Site Size: 0.0537ha

Groundsure
LOCATION INTELLIGENCE

# Contents Page


Contents Page ... 3
Overview of Findings ... 5
1:10,000 Scale Availability ... 8
Availability of 1:10,000 Scale Geology Mapping ... 9
1 Geology (1:10,000 scale) ... 10
1.1 Artificial Ground map (1:10,000 scale) ... 10
1. Geology 1:10,000 scale ... 11
1.1 Artificial Ground ... 11
1.2 Superficial Deposits and Landslips map (1:10,000 scale) ... 12
1.2 Superficial Deposits and Landslips ... 13
1.2.1 Superficial Deposits/ Drift Geology ... 13
1.2.2 Landslip ... 13
1.3 Bedrock and linear features map (1:10,000 scale) ... 14
1.3 Bedrock and linear features ... 15
1.3.1 Bedrock/ Solid Geology ... 15
1.3.2 Linear features ... 15
2 Geology 1:50,000 Scale ... 16
2.1 Artificial Ground map ... 16
2. Geology 1:50,000 scale ... 17
2.1 Artificial Ground ... 17
2.1.1 Artificial/ Made Ground ... 17
2.1.2 Permeability of Artificial Ground ... 17
2.2 Superficial Deposits and Landslips map (1:50,000 scale) ... 18
2.2 Superficial Deposits and Landslips ... 19
2.2.1 Superficial Deposits/ Drift Geology ... 19
2.2.2 Permeability of Superficial Ground ... 19
2.2.3 Landslip ... 19
2.2.4 Landslip Permeability ... 19
2.3 Bedrock and linear features map (1:50,000 scale) ... 20
2.3 Bedrock, Solid Geology & linear features ... 21
2.3.1 Bedrock/Solid Geology ... 21
2.3.2 Permeability of Bedrock Ground ... 21
2.3.3 Linear features ... 21
3 Radon Data ... 22
3.1 Radon Affected Areas ... 22
3.2 Radon Protection ... 22
4 Ground Workings map ... 23
4 Ground Workings ... 24
4.1 Historical Surface Ground Working Features derived from Historical Mapping ... 24
4.2 Historical Underground Working Features derived from Historical Mapping ... 26
4.3 Current Ground Workings ... 26
5 Mining, Extraction & Natural Cavities ... 29
5.1 Historical Mining ... 29
5.2 Coal Mining ... 29
5.3 Johnson Poole and Bloomer ... 29
5.4 Non-Coal Mining ... 30
5.5 Non-Coal Mining Cavities ... 30
5.6 Natural Cavities ... 30
5.7 Brine Extraction ... 30
5.8 Gypsum Extraction ... 30
5.9 Cornwall and Devon Metalliferous Mining ... 31
5.10 Clay Mining ... 31
6 Natural Ground Subsidence ... 32
6.1 Shrink-Swell Clay map ... 32
6.2 Landslides map ... 33
6.3 Ground Dissolution of Soluble Rocks map ... 34
6.4 Compressible Deposits map ... 35
6.5 Collapsible Deposits map ... 36
6.6 Running Sand map ... 37

6 Natural Ground Subsidence..... 38
6.1 Shrink-Swell Clays..... 38
6.2 Landslides..... 38
6.3 Ground Dissolution of Soluble Rocks..... 38
6.4 Compressible Deposits..... 39
6.5 Collapsible Deposits..... 39
6.6 Running Sands..... 39
7 Borehole Records..... 41
8 Estimated Background Soil Chemistry..... 42
9 Railways and Tunnels map..... 43
9 Railways and Tunnels..... 44
9.1 Tunnels..... 44
9.2 Historical Railway and Tunnel Features..... 44
9.3 Historical Railways..... 45
9.4 Active Railways..... 45
9.5 Railway Projects..... 45

# Overview of Findings

The Groundsure Geo Insight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 and 1:10,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Non-coal mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and Groundsure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched '-' will be recorded.

| Section 1: Geology 1:10,000 Scale | | |
|---|---|---|
| 1.1 Artificial Ground | 1.1 Is there any Artificial Ground/ Made Ground present beneath the study site at 1:10,000 scale? | No |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site at 1:10,000 scale?* | Yes |
| | 1.2.2 Are there any records of landslip within 500m of the study site boundary at 1:10,000 scale? | No |
| 1.3 Bedrock, Solid Geology and linear features | 1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 1.3.2 Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? | Yes |

| Section 2: Geology 1:50,000 Scale | | |
|---|---|---|
| 2.1 Artificial Ground | 2.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site? | No |
| | 2.1.2 Are there any records relating to permeability of artificial ground within the study site*boundary? | No |
| 2.2 Superficial Geology and Landslips | 2.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?* | Yes |
| | 2.2.2 Are there any records of permeability of superficial ground within 500m of the study site? | Yes |
| | 2.2.3 Are there any records of landslip within 500m of the study site boundary? | No |
| | 2.2.4 Are there any records relating to permeability of landslips within the study site* boundary? | No |

## Section 2: Geology 1:50,000 Scale

| | | |
|---|---|---|
| 2.3 Bedrock, Solid Geology and linear features | 2.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section. | |
| | 2.3.2 Are there any records relating to permeability of bedrock ground within the study site boundary? | Yes |
| | 2.3.3 Are there any records of linear features within 500m of the study site boundary? | Yes |

## Section 3: Radon

| | | |
|---|---|---|
| 3. Radon | 3.1Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? | The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. |
| | 3.2Radon Protection | No radon protective measures are necessary. |

| Section 4: Ground Workings | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 4.1 Historical Surface Ground Working Features from Small Scale Mapping | 3 | 3 | 40 | Not Searched | Not Searched |
| 4.2 Historical Underground Workings from Small Scale Mapping | 0 | 0 | 0 | 0 | 4 |
| 4.3 Current Ground Workings | 0 | 0 | 0 | 1 | 7 |

| Section 5: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 5.1 Historical Mining | 0 | 0 | 0 | 0 | 4 |
| 5.2 Coal Mining | 1 | 0 | 0 | 0 | 0 |
| 5.3 Johnson Poole and Bloomer Mining Area | 0 | 0 | 0 | 0 | 2 |
| 5.4 Non-Coal Mining* | 0 | 0 | 0 | 0 | 0 |
| 5.5 Non–Coal Mining Cavities | 0 | 0 | 0 | 0 | 0 |
| 5.5 Natural Cavities | 0 | 0 | 0 | 0 | 0 |

| Section 5: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|---|---|---|---|---|---|
| 5.6 Brine Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.7 Gypsum Extraction | 0 | 0 | 0 | 0 | 0 |
| 5.8 Cornwall and Devon Metalliferous Mining | 0 | 0 | 0 | 0 | 0 |
| 5.9 Clay Mining | 0 | 0 | 0 | 0 | 0 |

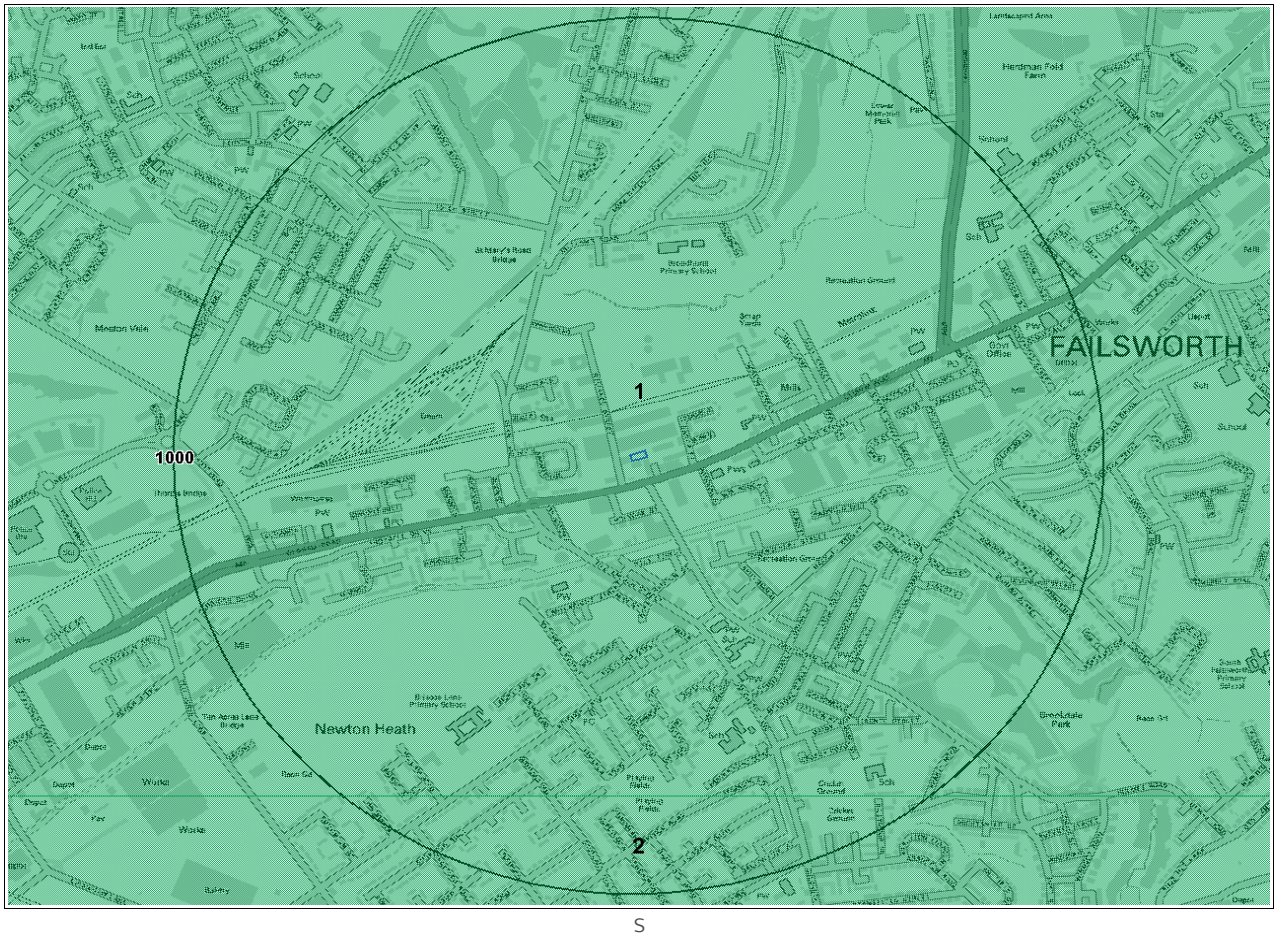
| Section 6: Natural Ground Subsidence | On-site |
|---|---|
| 6.1 Shrink-Swell Clay | Very Low |
| 6.2 Landslides | Very Low |
| 6.3 Ground Dissolution of Soluble Rocks | Negligible |
| 6.4 Compressible Deposits | Negligible |
| 6.5 Collapsible Deposits | Very Low |
| 6.5 Running Sand | Very Low |

| Section 7: Borehole Records | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 7 BGS Recorded Boreholes | 0 | 0 | 12 |

| Section 8: Estimated Background Soil Chemistry | On-site | 0-50m | 51-250 |
|---|---|---|---|
| 8 Records of Background Soil Chemistry | 1 | 0 | 0 |

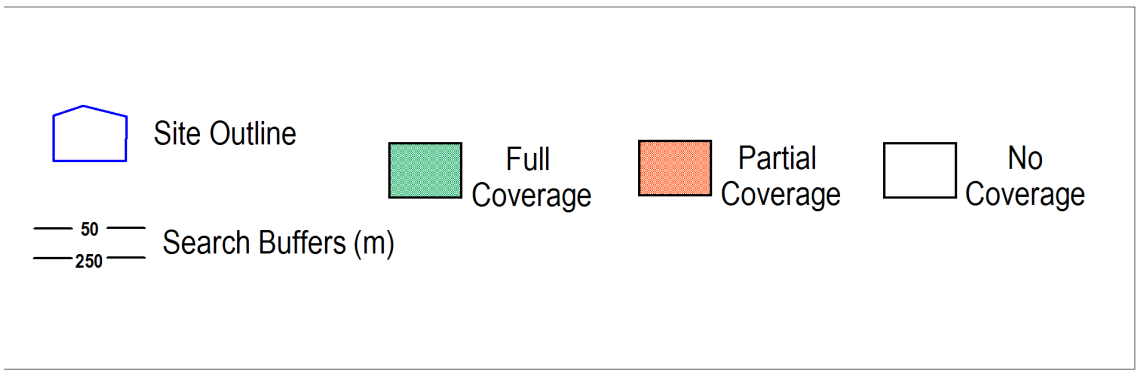
| Section 9: Railways and Tunnels | On-site | 0-50m | 51-250 | 250-500 |
|---|---|---|---|---|
| 9.1 Tunnels | 0 | 0 | 0 | Not Searched |
| 9.2 Historical Railway and Tunnel Features | 0 | 0 | 0 | Not Searched |
| 9.3 Historical Railways | 0 | 0 | 0 | Not Searched |
| 9.4 Active Railways | 0 | 0 | 10 | Not Searched |
| 9.5 Railway Projects | 0 | 0 | 0 | 0 |

# 1:10,000 Scale Availability




1_10,000 Availability Legend

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# Availability of 1:10,000 Scale Geology Mapping

The following information represents the availability of the key components of the 1:10,000 scale geological data.

| ID | Distance | Artificial Coverage | Superficial Coverage | Bedrock Coverage | Mass Movement Coverage |
|---|---|---|---|---|---|
| 1 | 0.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |
| 2 | 773.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |
| N3 | 1845.0 | Some deposits are mapped | Full | Full | Some deposits are mapped |

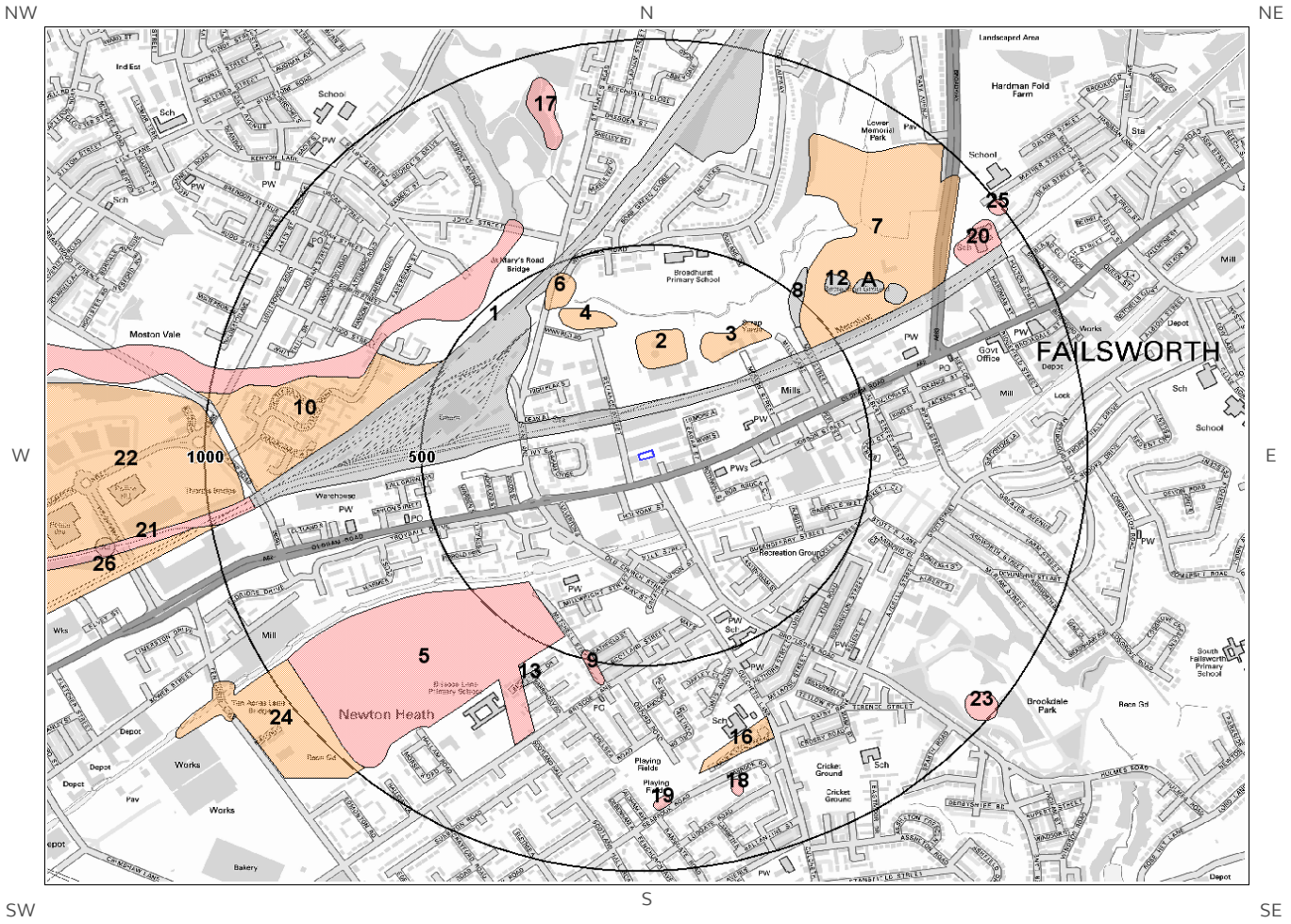
Guidance: The 1:10,000 scale geological interpretation is the most detailed generally available from BGS and is the scale at which most geological surveying is carried out in the field. The database is presented as four types of geology (artificial, mass movement, superficial and bedrock), although not all themes are mapped or available on every map sheet. Therefore a coverage layer showing the availability of the four themes is presented above.

The definitions of coverage are as follows:

| Geology | Full Coverage | Partial Coverage | No Coverage |
|---|---|---|---|
| Bedrock | The whole tile has been mapped | Some but not all the tile has been mapped | No coverage |
| Superficial | The whole tile has been mapped | Some but not all of the tile has been mapped | No coverage |
| Artificial | Some deposits are mapped on this tile | - | No deposits are mapped |
| Mass Movement | Some deposits are mapped on this tile | - | No coverage |

# 1 Geology (1:10,000 scale).

# 1.1 Artificial Ground map (1:10,000 scale)




**Artificial Ground Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

# 1. Geology 1:10,000 scale

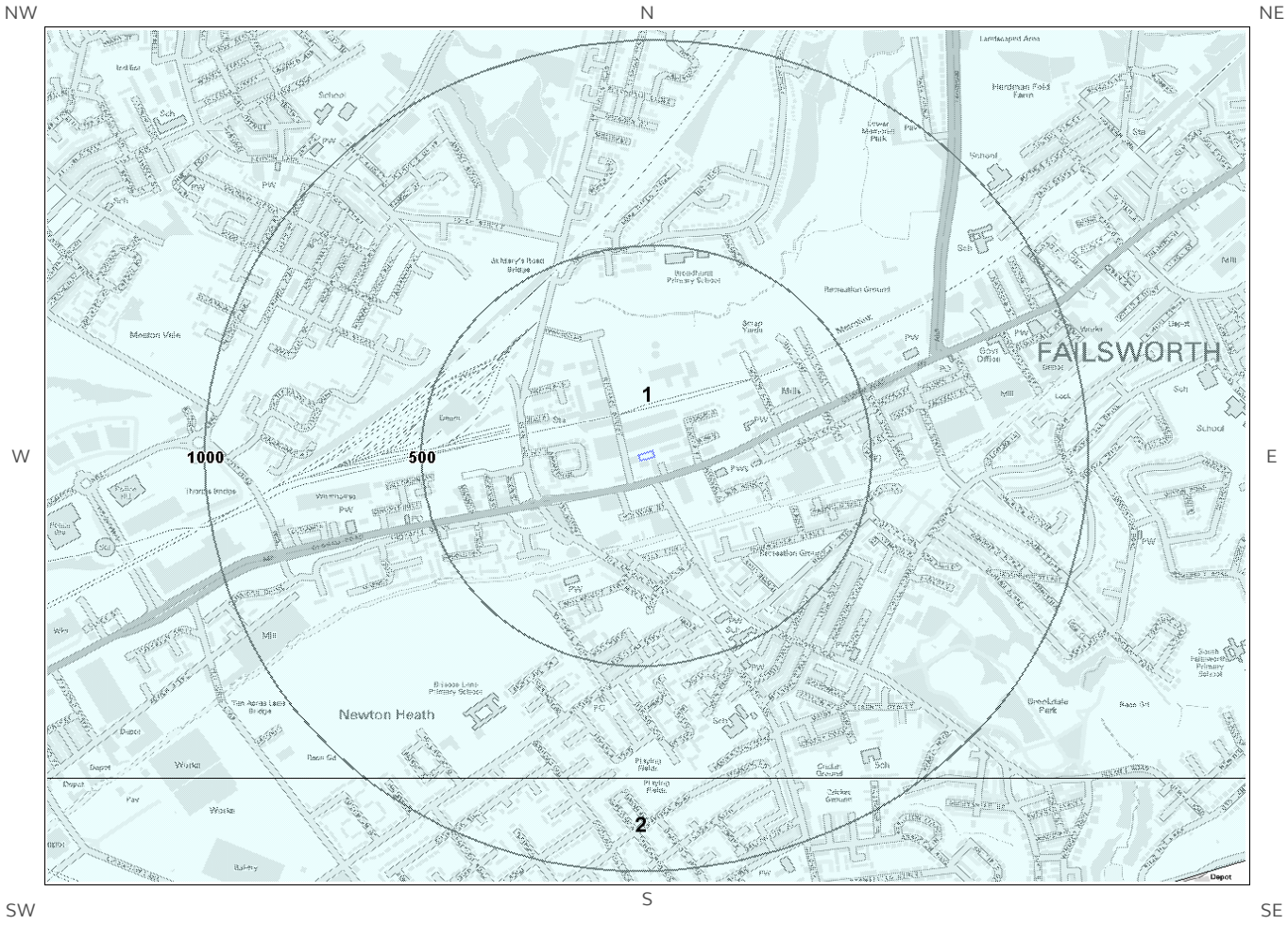
## 1.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

Are there any records of Artificial/ Made Ground within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 86.0 | N | WGR-VOID | Worked Ground (Undivided) | Void |
| 2 | 199.0 | N | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 3 | 254.0 | NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 4 | 314.0 | N | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 5 | 390.0 | SW | WMGR-ARTDP | Infilled Ground | Artificial Deposit |
| 6 | 400.0 | NW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 7 | 441.0 | NE | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 8 | 447.0 | NE | WGR-VOID | Worked Ground (Undivided) | Void |
| 9 | 477.0 | S | WMGR-ARTDP | Infilled Ground | Artificial Deposit |

# 1.2 Superficial Deposits and Landslips map (1:10,000 scale)




**Artificial Ground Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

# 1.2 Superficial Deposits and Landslips

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping

## 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton |

## 1.2.2 Landslip

Are there any records of Landslip within 500m of the study site boundary at 1:10,000 scale?

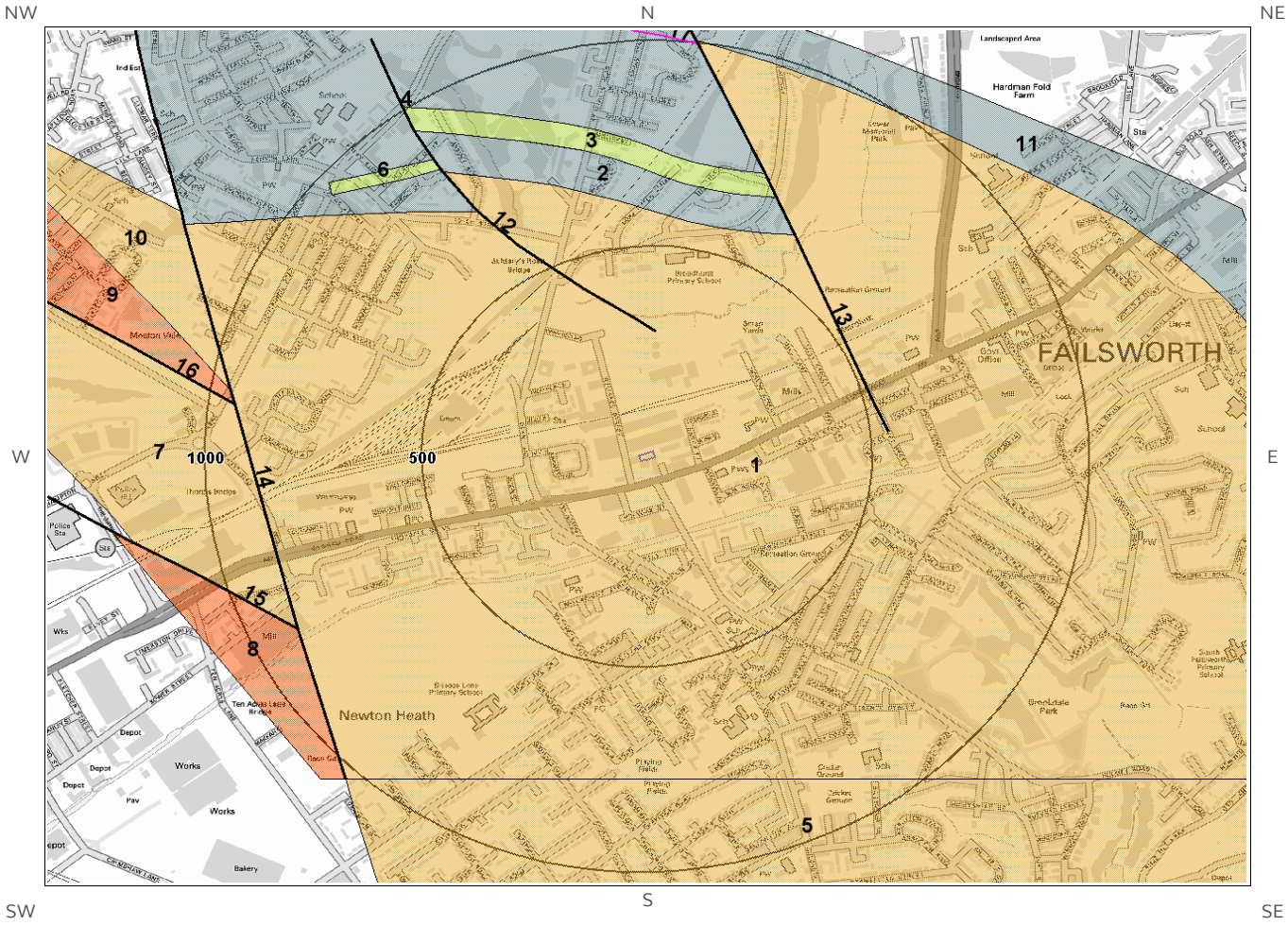
No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:10,000 scale

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

# 1.3 Bedrock and linear features map (1:10,000 scale)




**Bedrock and linear features Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

# 1.3 Bedrock and linear features

The following geological information represented on the mapping is derived from 1:10,000 scale BGS Geological mapping.

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary at 1:10,000 scale.

| ID | Distance (m) | Direction | LEX Code | Description | Rock Age |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | CS-SDST | Collyhurst Sandstone Formation - Sandstone | Cisuralian Epoch |

## 1.3.2 Linear features

Are there any records of linear features within 500m of the study site boundary at 1:10,000 scale? Yes

| ID | Distance (m) | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 12 | 293.0 | N | FAULT | Normal fault, inferred; crossmarks on downthrow side |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of great Britain at 1:10,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

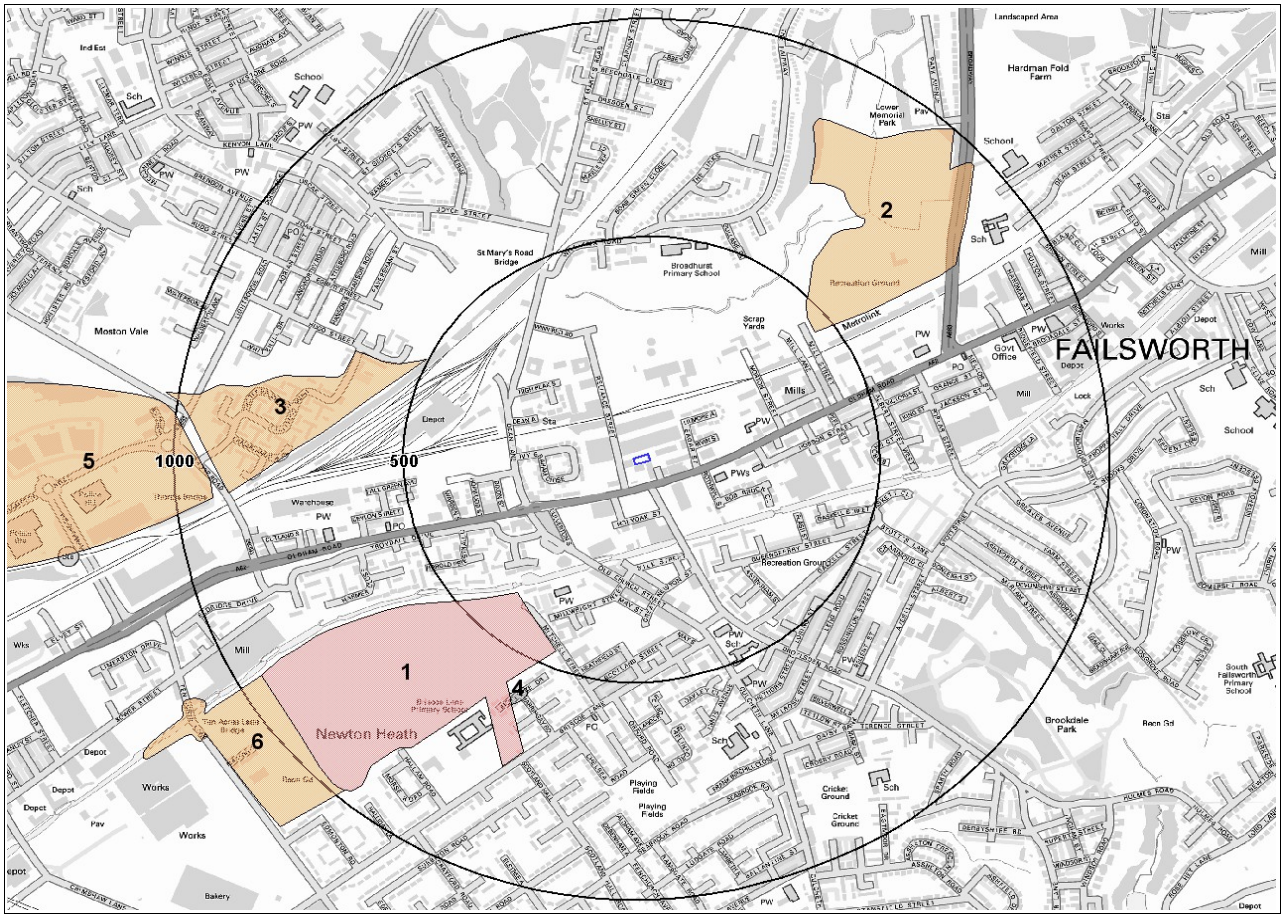
# 2 Geology 1:50,000 Scale

## 2.1 Artificial Ground map

NW N NE

W E

SW S SE




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

Made Ground (undivided)

Disturbed Ground (undivided)

Worked Ground (undivided)

Landscaped Ground (undivided)

Infilled Ground

Reclaimed Ground

# 2. Geology 1:50,000 scale

## 2.1 Artificial Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 085

### 2.1.1 Artificial/ Made Ground

Are there any records of Artificial/ Made Ground within 500m of the study site boundary? Yes

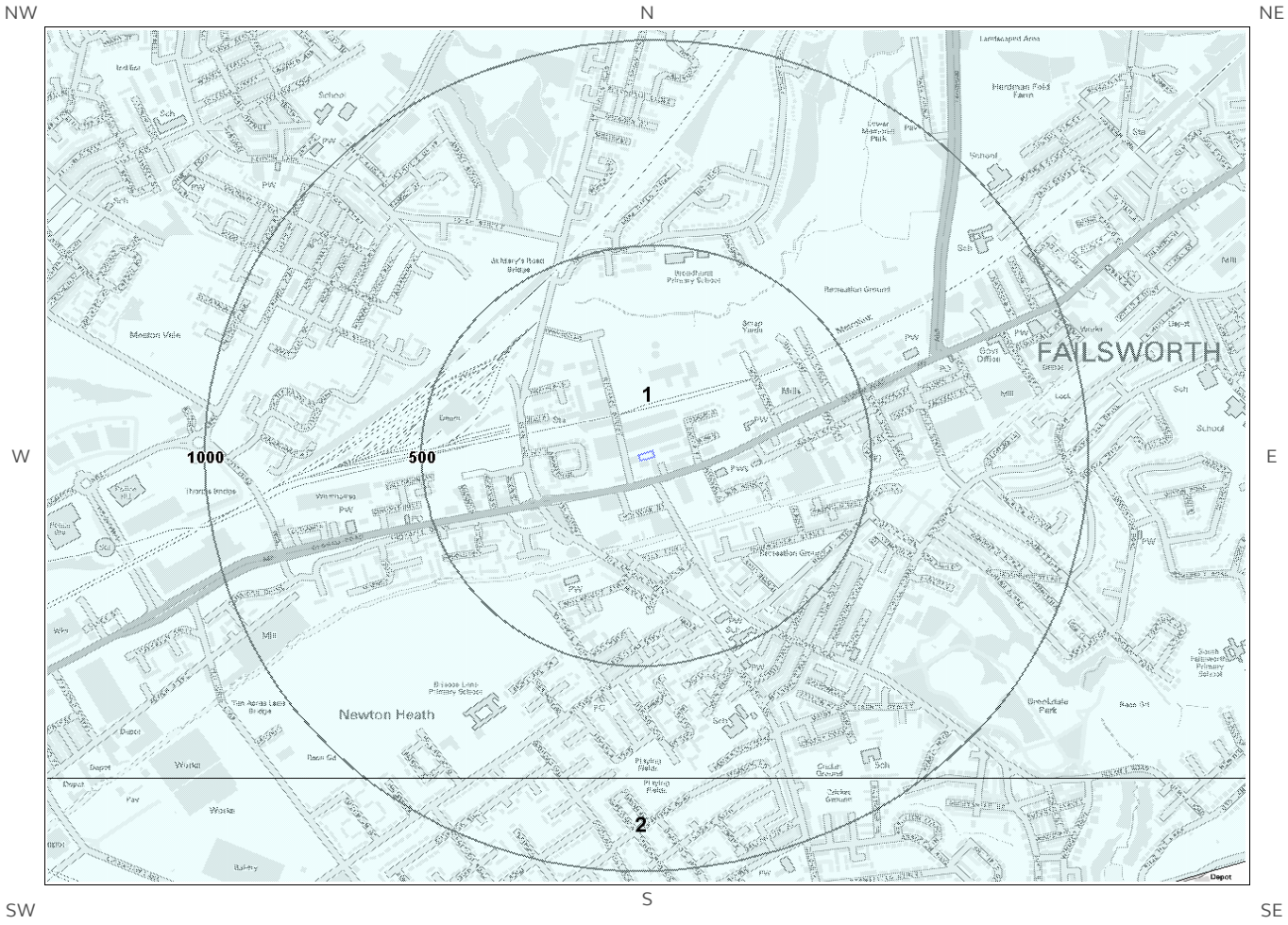
| ID | Distance (m) | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 390.0 | SW | WMGR-ARTDP | INFILLED GROUND | ARTIFICIAL DEPOSIT |
| 2 | 458.0 | NE | MGR-ARTDP | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

### 2.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? No

Database searched and no data found.

# 2.2 Superficial Deposits and Landslips map (1:50,000 scale)




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

# 2.2 Superficial Deposits and Landslips

## 2.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

| ID | Distance | Direction | LEX Code | Description | Rock Description |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | TILLD-DMTN | TILL, DEVENSIAN | DIAMICTON |

## 2.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Mixed | High | Low |

## 2.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

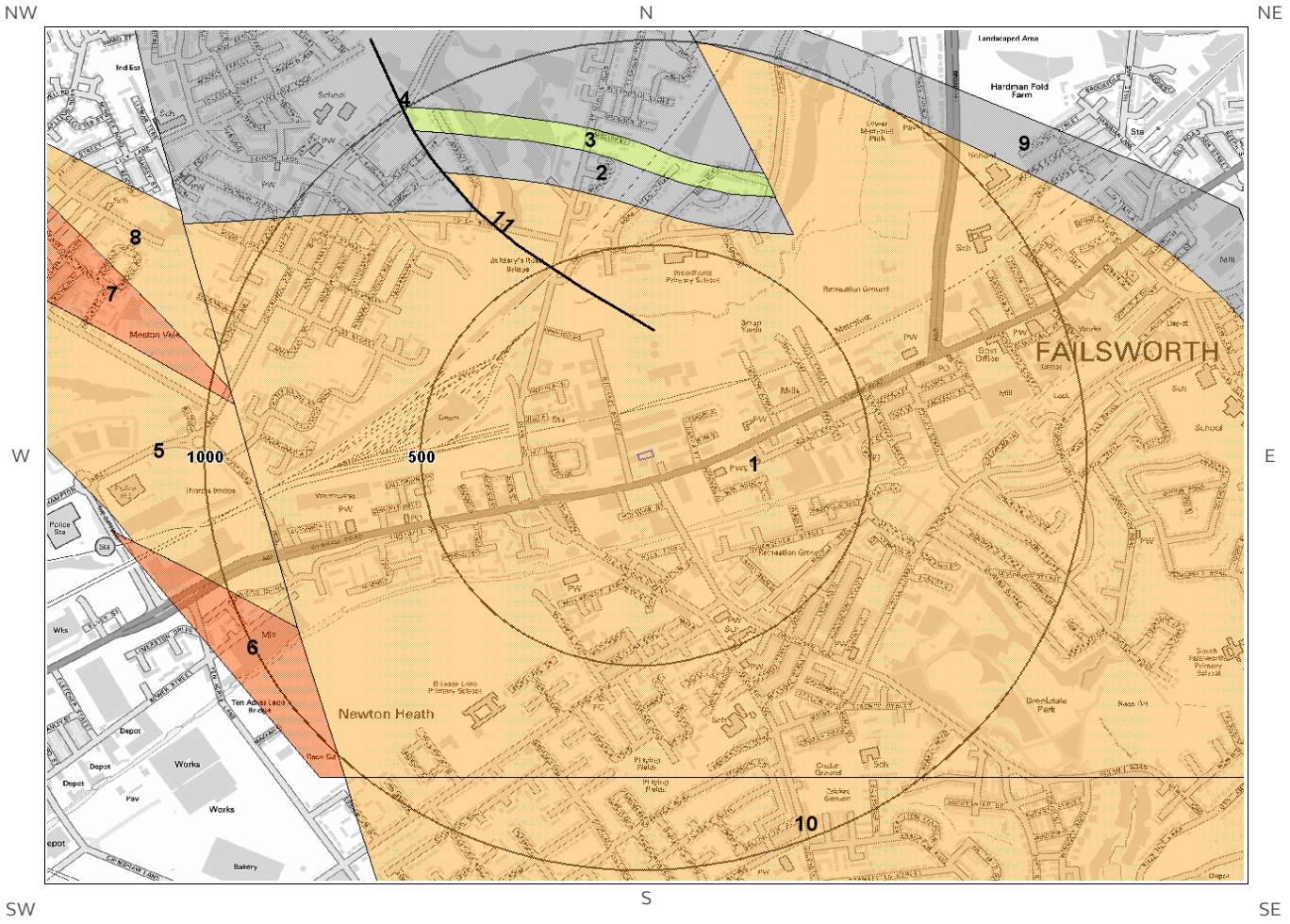
This Geology shows the main components as discrete layers, there are: Artificial/ Made Ground, Superficial/ Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

## 2.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site boundary? No

Database searched and no data found.

# 2.3 Bedrock and linear features map (1:50,000 scale)




© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

500
1000
Search Buffers (m)

# 2.3 Bedrock, Solid Geology & linear features

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No: 085

## 2.3.1 Bedrock/Solid Geology

Records of Bedrock/Solid Geology within 500m of the study site boundary:

| ID | Distance | Direction | LEX Code | Rock Description | Rock Age |
|---|---|---|---|---|---|
| 1 | 0.0 | On Site | CS-SDST | COLLYHURST SANDSTONE FORMATION - SANDSTONE | - |

## 2.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site boundary? Yes

| Distance | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|---|---|---|---|---|
| 0.0 | On Site | Intergranular | High | High |

## 2.3.3 Linear features

Are there any records of linear features within 500m of the study site boundary? Yes

| ID | Distance | Direction | Category Description | Feature Description |
|---|---|---|---|---|
| 11 | 292.0 | N | FAULT | Fault, inferred |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/Solid Geology and linear features such as faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nation wide coverage.

# 3 Radon Data

## 3.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

The radon data in this report is supplied by the BGS/Public Health England and is the definitive map of Radon Affected Areas in Great Britain and Northern Ireland. The dataset was created using long-term radon measurements in over 479,000 homes across Great Britain and 23,000 homes across Northern Ireland, combined with geological data. The dataset is considered accurate to 50m to allow for the margin of error in geological lines, and the findings of this report supercede any answer given in the less accurate Indicative Atlas of Radon in Great Britain, which simplifies the data to give the highest risk within any given 1km grid square. As such, the radon atlas is considered indicative, whereas the data given in this report is considered definitive.

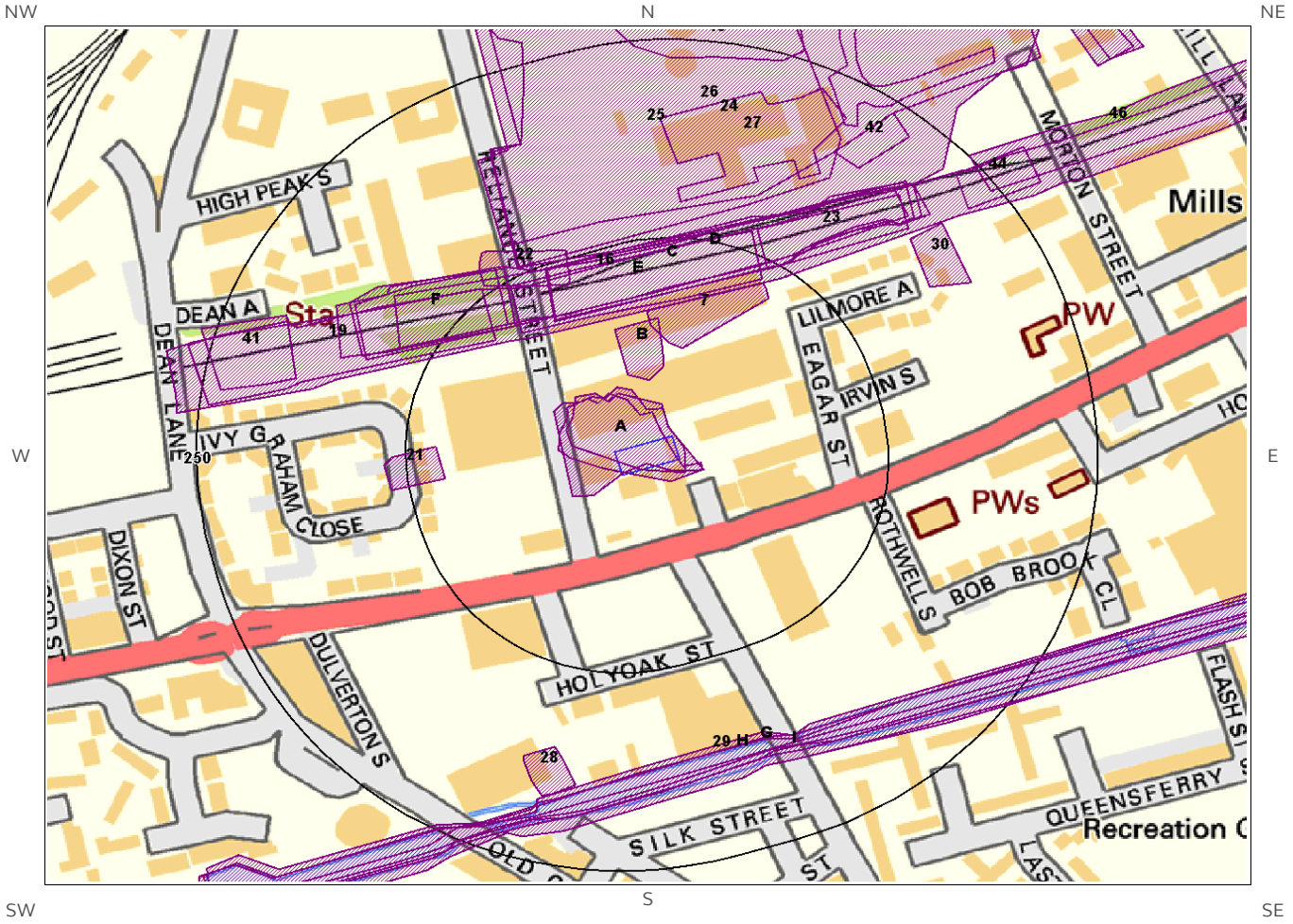
---

## 3.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary.

---

# 4 Ground Workings map




**Ground Workings Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

125
250
Search Buffers (m)

Historic Surface Ground Workings

Historic Underground Workings

Current Ground Workings

# 4 Ground Workings

## 4.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on Groundsure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 1A | 0.0 | On Site | 388126 400797 | Pond | 1923 |
| 2A | 0.0 | On Site | 388123 400802 | Pond | 1921 |
| 3A | 0.0 | On Site | 388125 400792 | Pond | 1906 |
| 4B | 38.0 | N | 388131 400853 | Pond | 1921 |
| 5B | 38.0 | N | 388131 400853 | Pond | 1906 |
| 6B | 38.0 | N | 388131 400853 | Pond | 1923 |
| 7 | 55.0 | N | 388172 400874 | Unspecified Pit | 1938 |
| 8C | 80.0 | N | 388656 401087 | Cuttings | 1906 |
| 9C | 80.0 | N | 388656 401087 | Cuttings | 1921 |
| 10C | 80.0 | N | 388656 401087 | Cuttings | 1938 |
| 11C | 80.0 | N | 388656 401087 | Cuttings | 1933 |
| 12E | 84.0 | N | 388130 400895 | Cuttings | 1923 |
| 13D | 87.0 | N | 388185 400914 | Cuttings | 1966 |
| 14D | 88.0 | N | 388191 400914 | Cuttings | 1980 |
| 15D | 88.0 | N | 388191 400914 | Cuttings | 1975 |
| 16 | 90.0 | N | 388125 400902 | Cuttings | 1956 |
| 17E | 90.0 | N | 388139 400903 | Cuttings | 1891 |
| 18F | 99.0 | NW | 388010 400875 | Cuttings | 1988 |
| 19 | 100.0 | NW | 387951 400856 | Cuttings | 1923 |
| 20F | 103.0 | NW | 388005 400875 | Cuttings | 1980 |
| 21 | 103.0 | W | 387997 400777 | Reservoir | 1923 |

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| 22 | 109.0 | N | 388063 400903 | Pond | 1851 |
| 23 | 120.0 | NE | 388249 400927 | Cuttings | 1923 |
| 24 | 121.0 | N | 388171 401092 | Unspecified Ground Workings | 1921 |
| 25 | 128.0 | N | 388109 401019 | Unspecified Ground Workings | 1906 |
| 26 | 140.0 | N | 388163 401024 | Unspecified Ground Workings | 1923 |
| 27 | 148.0 | N | 388199 400981 | Refuse Destructor | 1988 |
| 28 | 176.0 | S | 388078 400586 | Pond | 1891 |
| 29 | 180.0 | S | 389848 402501 | Canal | 1975 |
| 30 | 181.0 | NE | 388311 400912 | Unspecified Heap | 1923 |
| 31G | 183.0 | S | 389844 402501 | Canal | 1966 |
| 32G | 183.0 | S | 389844 402501 | Canal | 1956 |
| 33H | 184.0 | S | 388501 400689 | Disused Canal | 1988 |
| 34H | 184.0 | S | 388501 400689 | Disused Canal | 1980 |
| 35I | 191.0 | S | 386551 399718 | Canal | 1923 |
| 36I | 191.0 | S | 386551 399718 | Canal | 1891 |
| 37I | 191.0 | S | 386551 399718 | Canal | 1933 |
| 38I | 191.0 | S | 386551 399718 | Canal | 1938 |
| 39I | 191.0 | S | 386551 399718 | Canal | 1921 |
| 40I | 191.0 | S | 386551 399718 | Canal | 1906 |
| 41 | 196.0 | W | 387898 400850 | Cuttings | 1988 |
| 42 | 203.0 | NE | 388270 400984 | Cuttings | 1923 |
| 43 | 222.0 | NE | 388259 401032 | Unspecified Ground Workings | 1956 |
| 44 | 228.0 | NE | 388346 400961 | Cuttings | 1923 |
| 45 | 238.0 | N | 388162 401060 | Unspecified Heap | 1988 |
| 46 | 245.0 | NE | 388595 401066 | Cuttings | 1956 |

## 4.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the Groundsure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? Yes

The following Historical Underground Working Features are provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Use | Date |
|---|---|---|---|---|---|
| Not shown | 987.0 | N | 388409 402080 | Unspecified Mines | 1966 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1915 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1933 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1923 |

## 4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

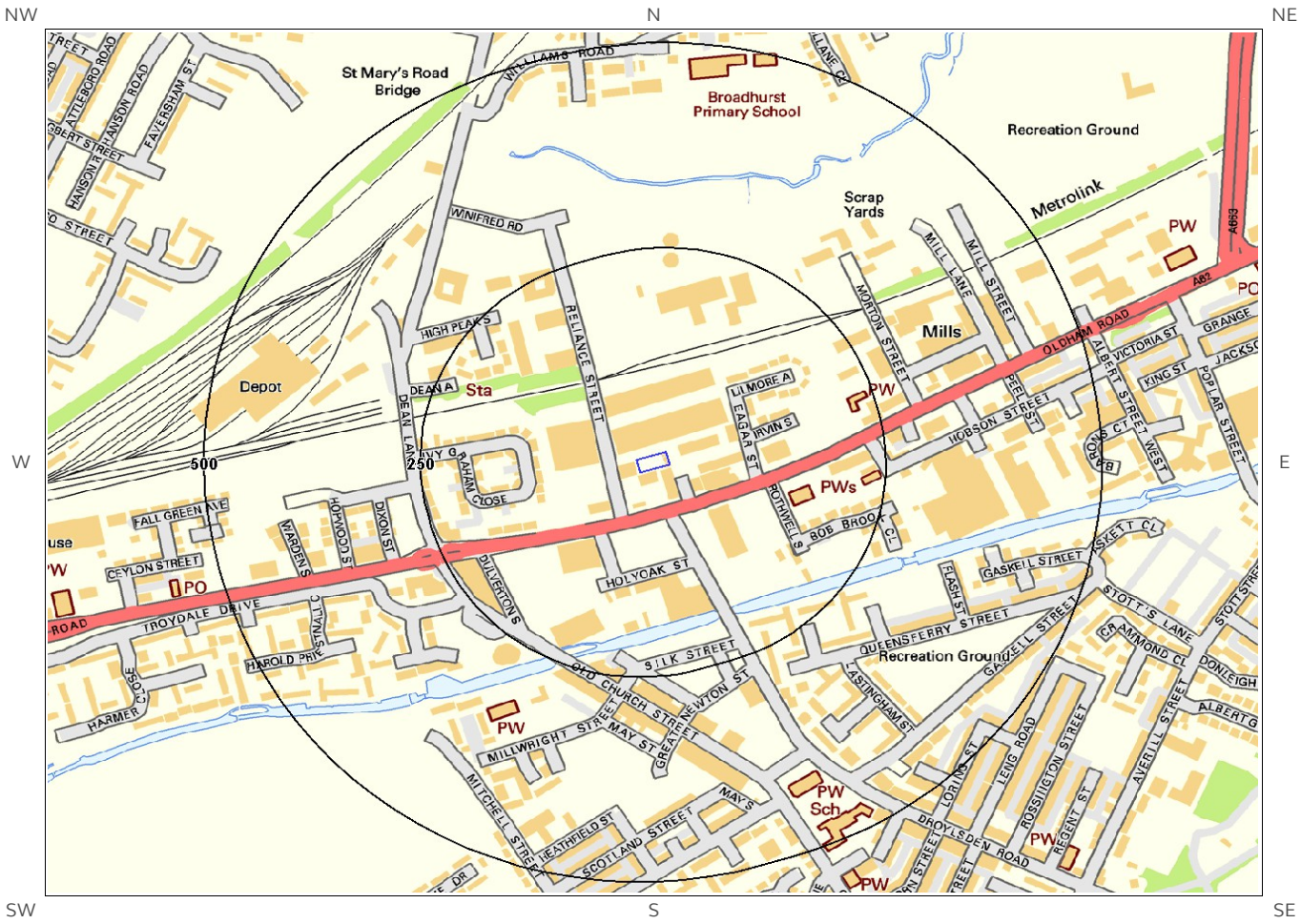
Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| Not shown | 425.0 | N | 388230 401215 | Sand | Williams Road Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 558.0 | SW | 387725 400380 | Clay & Shale | Mitchell Street Brickworks | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 714.0 | E | 388856 400919 | Clay & Shale | Ridgefield Mill Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 791.0 | NE | 388740 401326 | Clay & Shale | Grove House Clay Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 830.0 | S | 388174 399945 | Clay & Shale | Cheetham Fold Clay Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 857.0 | N | 387907 401619 | Sand | Moston Hall Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 879.0 | NE | 388700 401484 | Sand | Moston Hall Sand Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

| ID | Distance (m) | Direction | NGR | Commodity Produced | Pit Name | Type of working | Status |
|---|---|---|---|---|---|---|---|
| Not shown | 986.0 | NE | 388943 401385 | Clay & Shale | Grove House Clay Pit | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

# 5 Mining, Extraction & Natural Cavities map




**Mining, Extraction and Natural Cavities Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

- Site Outline
- Search Buffers (m) — 250 — 500
- Historical Mining
- Non-Coal Mining Cavities
- Natural Cavities (point data)
- Natural Cavities (polygon data)

Non-Coal Mining
- Highly likely
- Likely
- Unlikely
- Highly unlikely
- Rare

# 5 Mining, Extraction & Natural Cavities

## 5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

| ID | Distance (m) | Direction | NGR | Details | Date |
|---|---|---|---|---|---|
| Not shown | 987.0 | N | 388409 402080 | Unspecified Mines | 1966 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1923 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1915 |
| Not shown | 995.0 | N | 388522 402327 | Collieries | 1933 |

## 5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

| Distance (m) | Direction | Details |
|---|---|---|
| 0.0 | On Site | The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority |

## 5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? Yes

The following information provided by JPB is not represented on mapping: In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk.

## 5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

## 5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

## 5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

## 5.9 Cornwall and Devon Metalliferous Mining

This dataset provides information on metalliferous mining areas in Cornwall/Devon and is derived from records held by Mining Searches UK.

Are there any Cornwall and Devon Metalliferous Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

## 5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

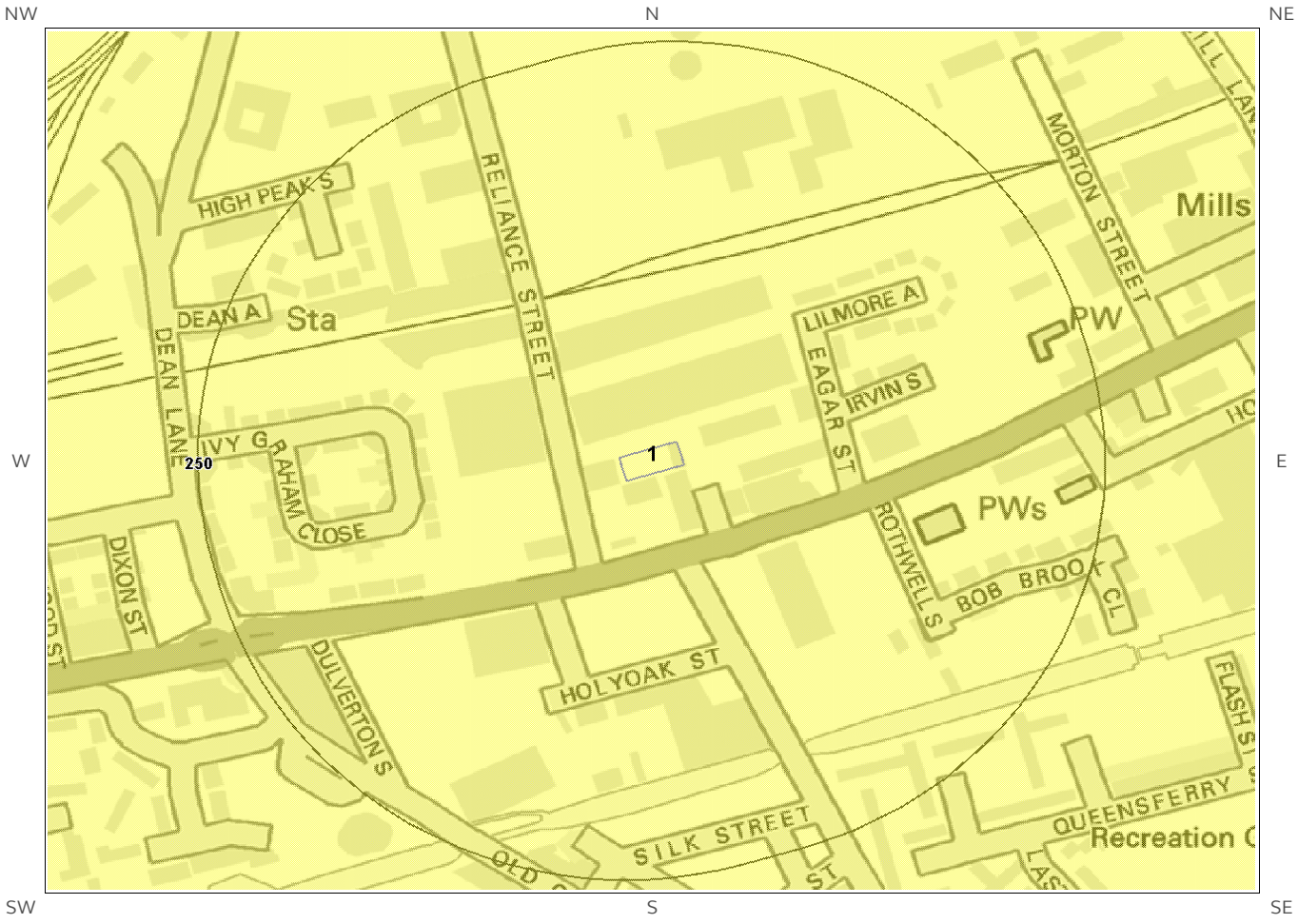
Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

# 6 Natural Ground Subsidence

## 6.1 Shrink-Swell Clay map

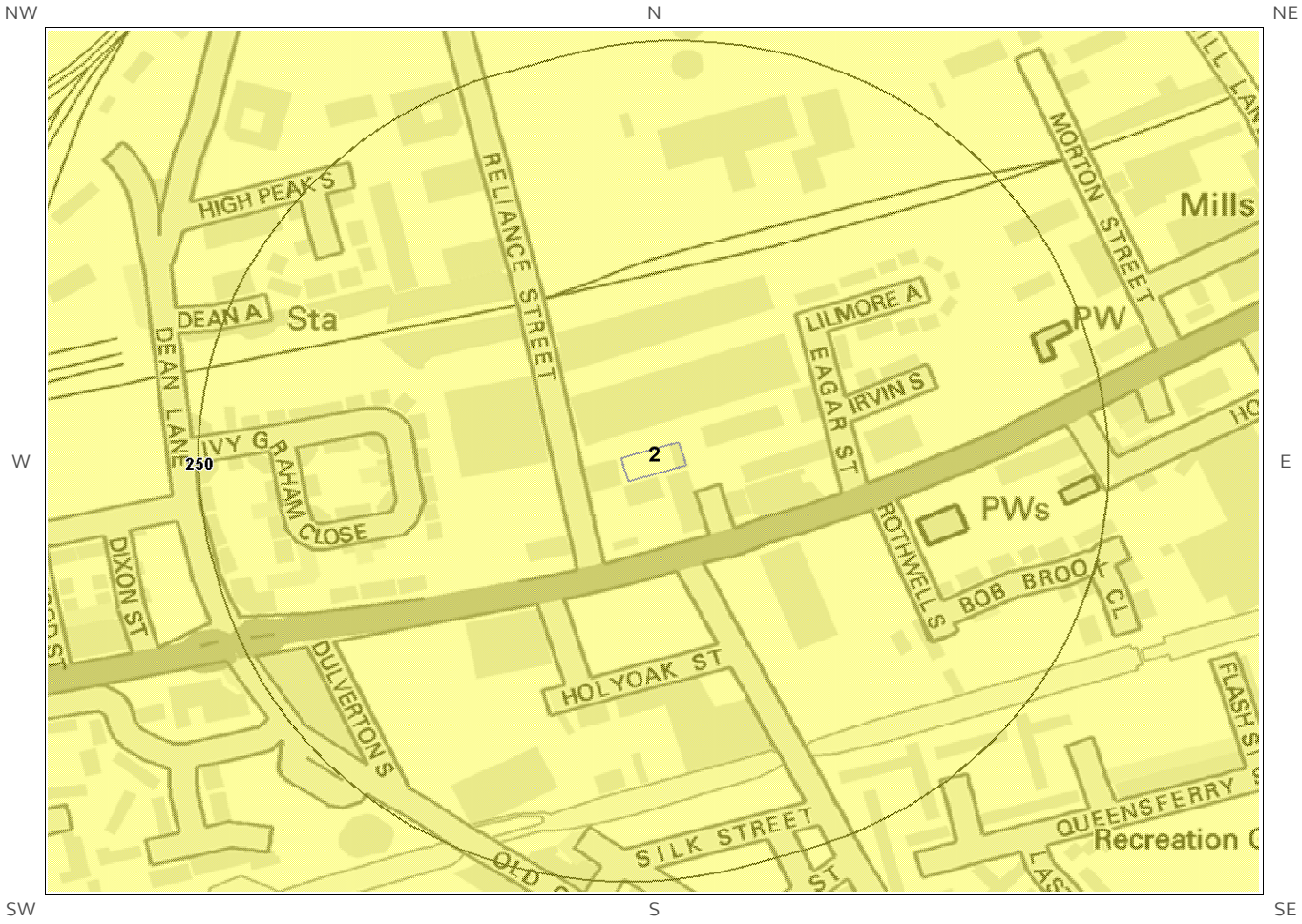



**Shrink Swell Clay Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# 6.2 Landslides map

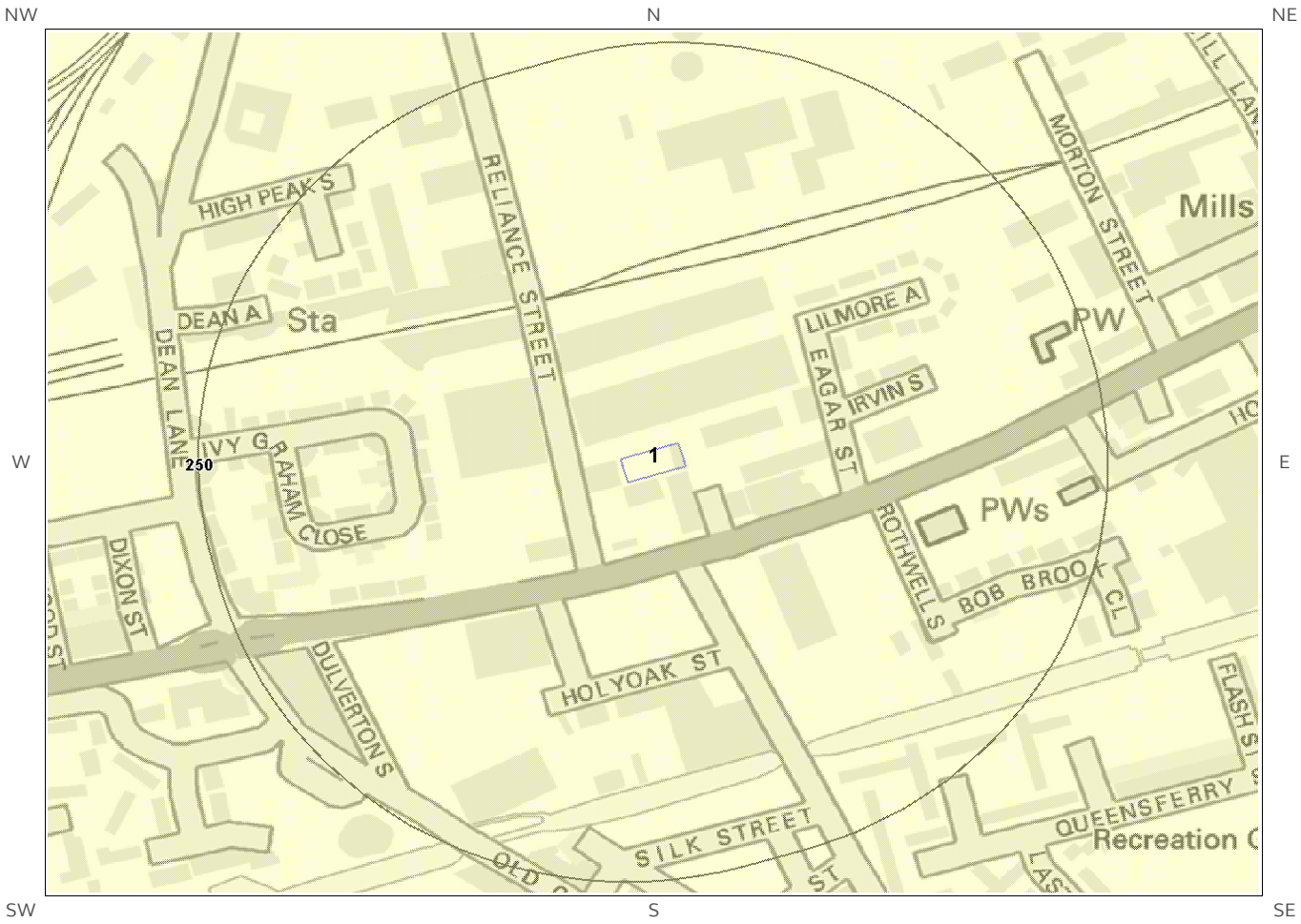



**Landslides Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# 6.3 Ground Dissolution of Soluble Rocks map

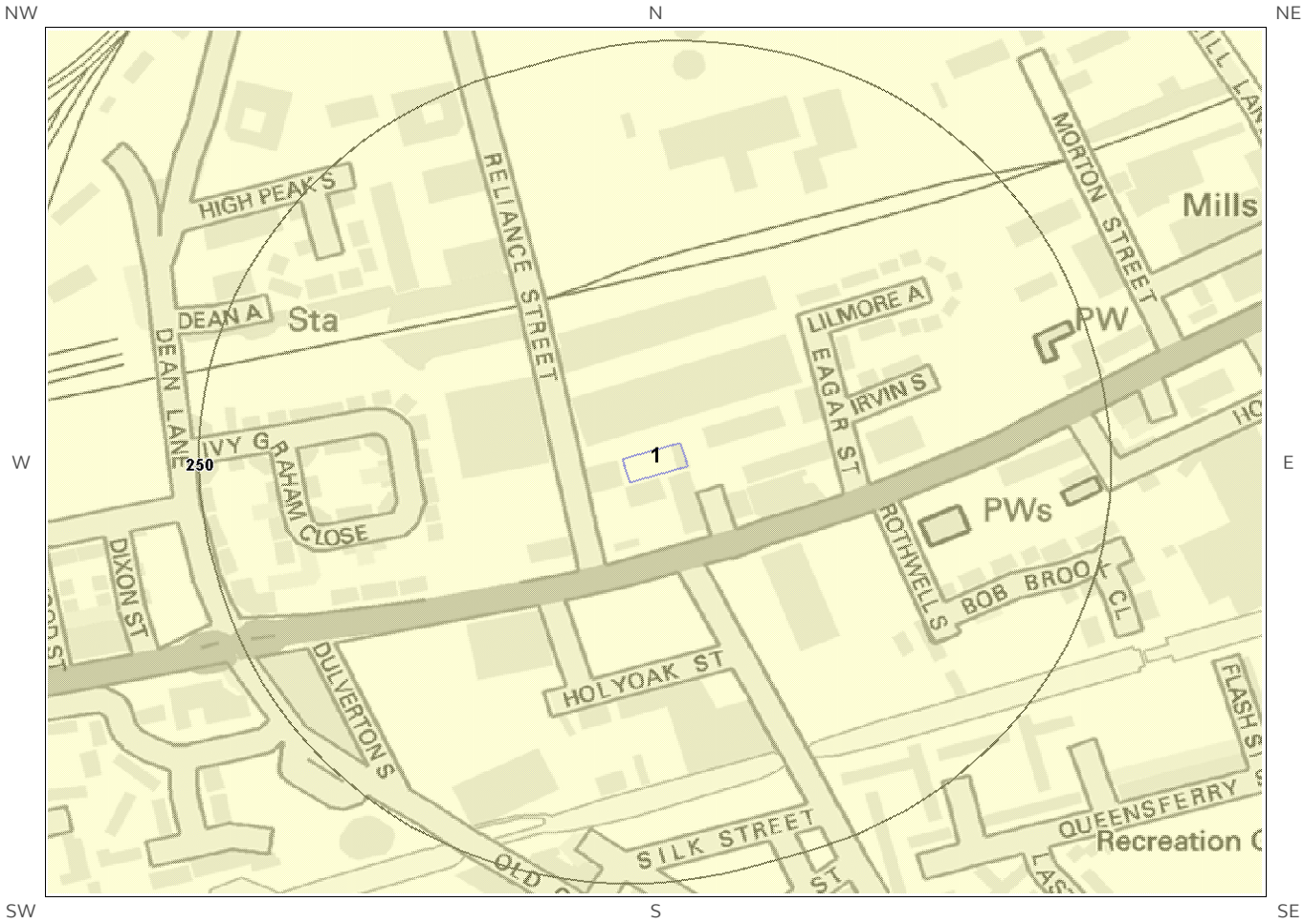



**Ground Dissolution Soluble Rocks Legend**

© Crown copyright and database rights 2019. Ordnance Survey licence 100035207.



# 6.4 Compressible Deposits map

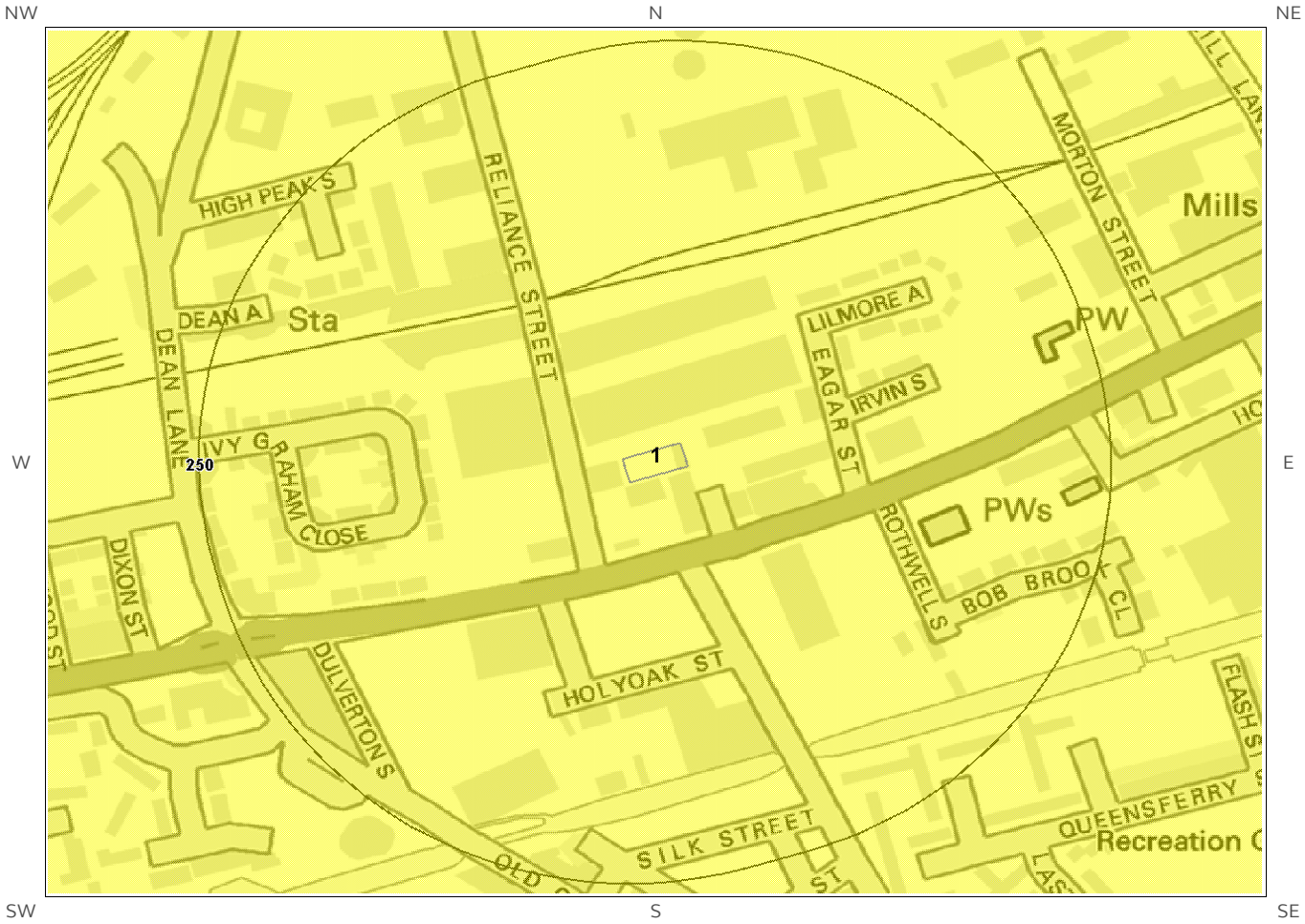



**Compressible Deposits Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# 6.5 Collapsible Deposits map

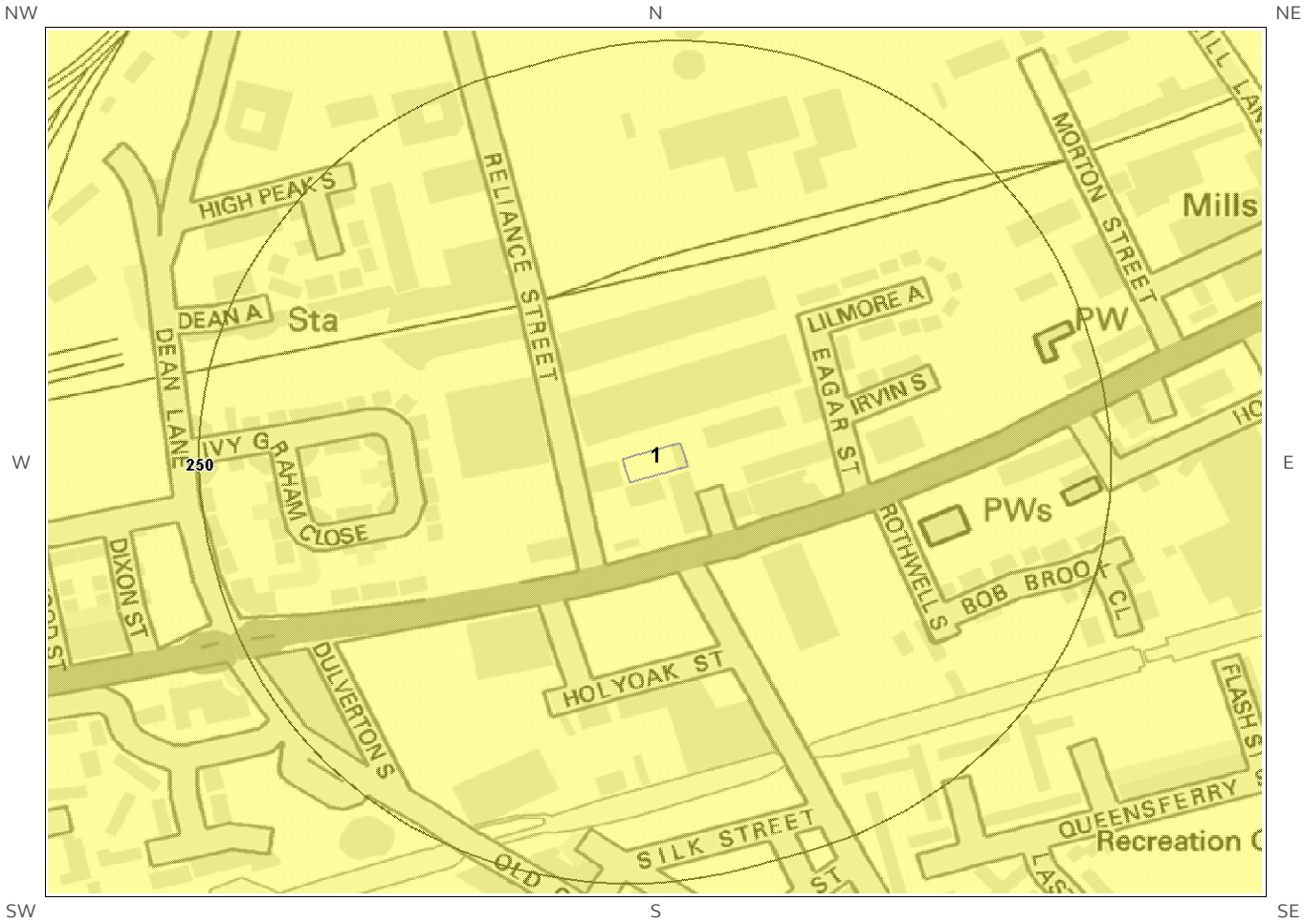



**Collapsible Deposits Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# 6.6 Running Sand map




**Running Sand Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.



# 6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site*[*] boundary? Very Low

## 6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays. |

## 6.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 2 | 0.0 | On Site | Very Low | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

## 6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks. |

* This includes an automatically generated 50m buffer zone around the site

## 6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Negligible | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

## 6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

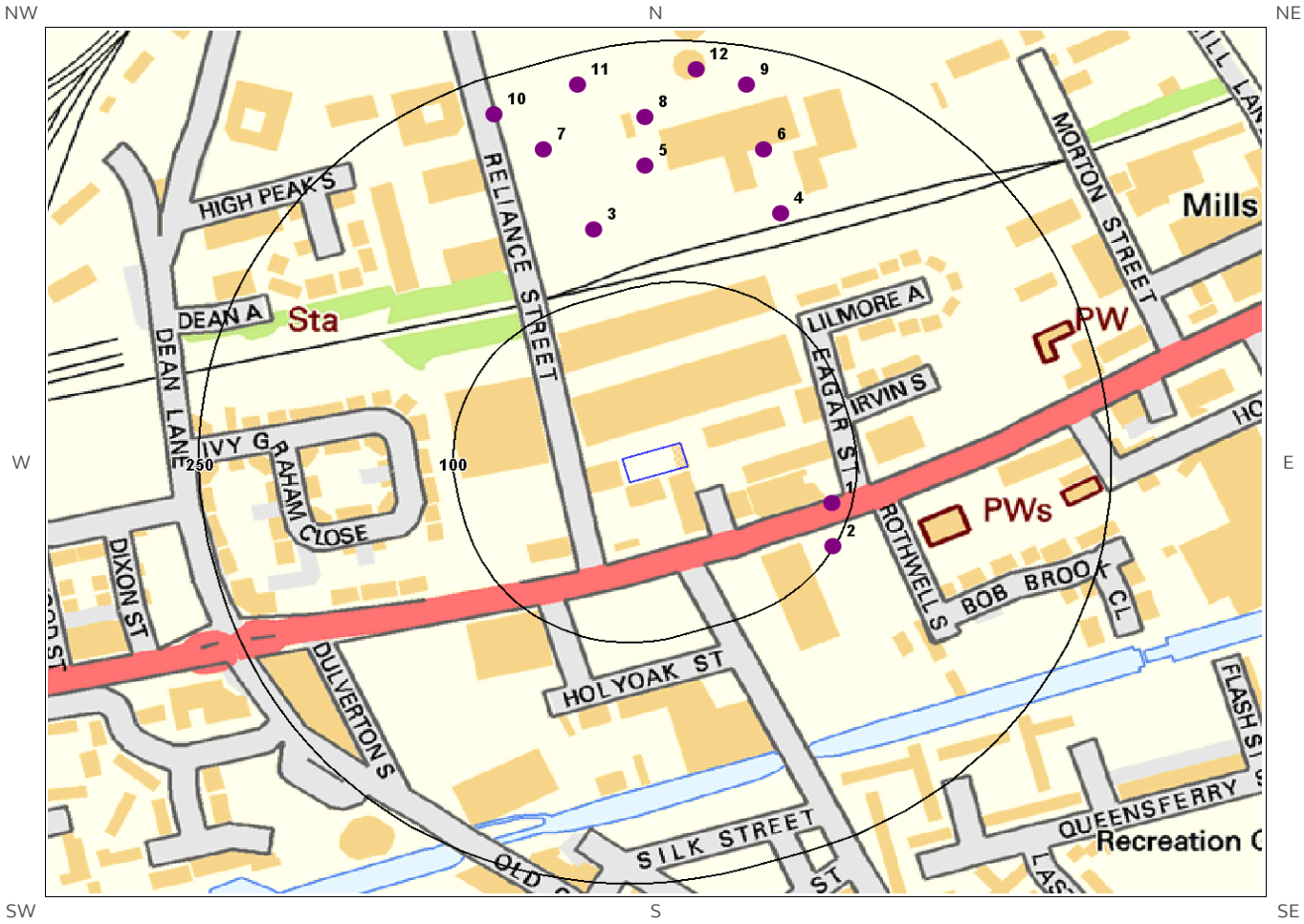
| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

## 6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details |
|---|---|---|---|---|
| 1 | 0.0 | On Site | Very Low | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

# 7 Borehole Records map




**Borehole Records Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.

Site Outline

Borehole Locations

125
250
Search Buffers (m)

# 7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary: 12

| ID | Distance (m) | Direction | NGR | BGS Reference | Drilled Length | Borehole Name |
|---|---|---|---|---|---|---|
| 1 | 88.0 | E | 388240 400760 | SD80SE1058 | Not available | OLDHAM ROAD 3 |
| 2 | 99.0 | SE | 388241 400733 | SD80SE76 | 108 | ROTHWELL & CO HEATH BREWERY OLDHAM ROAD |
| 3 | 141.0 | N | 388100 400930 | SD80SE407 | 20 | N MANCHESTER REFUSE PLANT 5 |
| 4 | 154.0 | NE | 388210 400940 | SD80SE403 | 15 | N MANCHESTER REFUSE PLANT 1 |
| 5 | 173.0 | N | 388130 400970 | SD80SE405 | 30 | N MANCHESTER REFUSE PLANT 3 |
| 6 | 189.0 | N | 388200 400980 | SD80SE410 | 2 | N MANCHESTER REFUSE PLANT TP 3 |
| 7 | 198.0 | N | 388070 400980 | SD80SE412 | 2 | N MANCHESTER REFUSE PLANT TP 5 |
| 8 | 203.0 | N | 388130 401000 | SD80SE414 | 3 | N MANCHESTER REFUSE PLANT TP 7 |
| 9 | 226.0 | N | 388190 401020 | SD80SE409 | 2 | N MANCHESTER REFUSE PLANT TP 2 |
| 10 | 227.0 | N | 388041 401002 | SD80SE987 | Not available | RELIANCE STREET 1 |
| 11 | 230.0 | N | 388090 401020 | SD80SE406 | 20 | N MANCHESTER REFUSE PLANT 4 |
| 12 | 232.0 | N | 388160 401030 | SD80SE404 | 20 | N MANCHESTER REFUSE PLANT 2 |

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#2: scans.bgs.ac.uk/sobi_scans/boreholes/27661
#3: scans.bgs.ac.uk/sobi_scans/boreholes/28014
#4: scans.bgs.ac.uk/sobi_scans/boreholes/28010
#5: scans.bgs.ac.uk/sobi_scans/boreholes/28012
#6: scans.bgs.ac.uk/sobi_scans/boreholes/28017
#7: scans.bgs.ac.uk/sobi_scans/boreholes/28019
#8: scans.bgs.ac.uk/sobi_scans/boreholes/28021
#9: scans.bgs.ac.uk/sobi_scans/boreholes/28016
#11: scans.bgs.ac.uk/sobi_scans/boreholes/28013
#12: scans.bgs.ac.uk/sobi_scans/boreholes/28011

# 8 Estimated Background Soil Chemistry

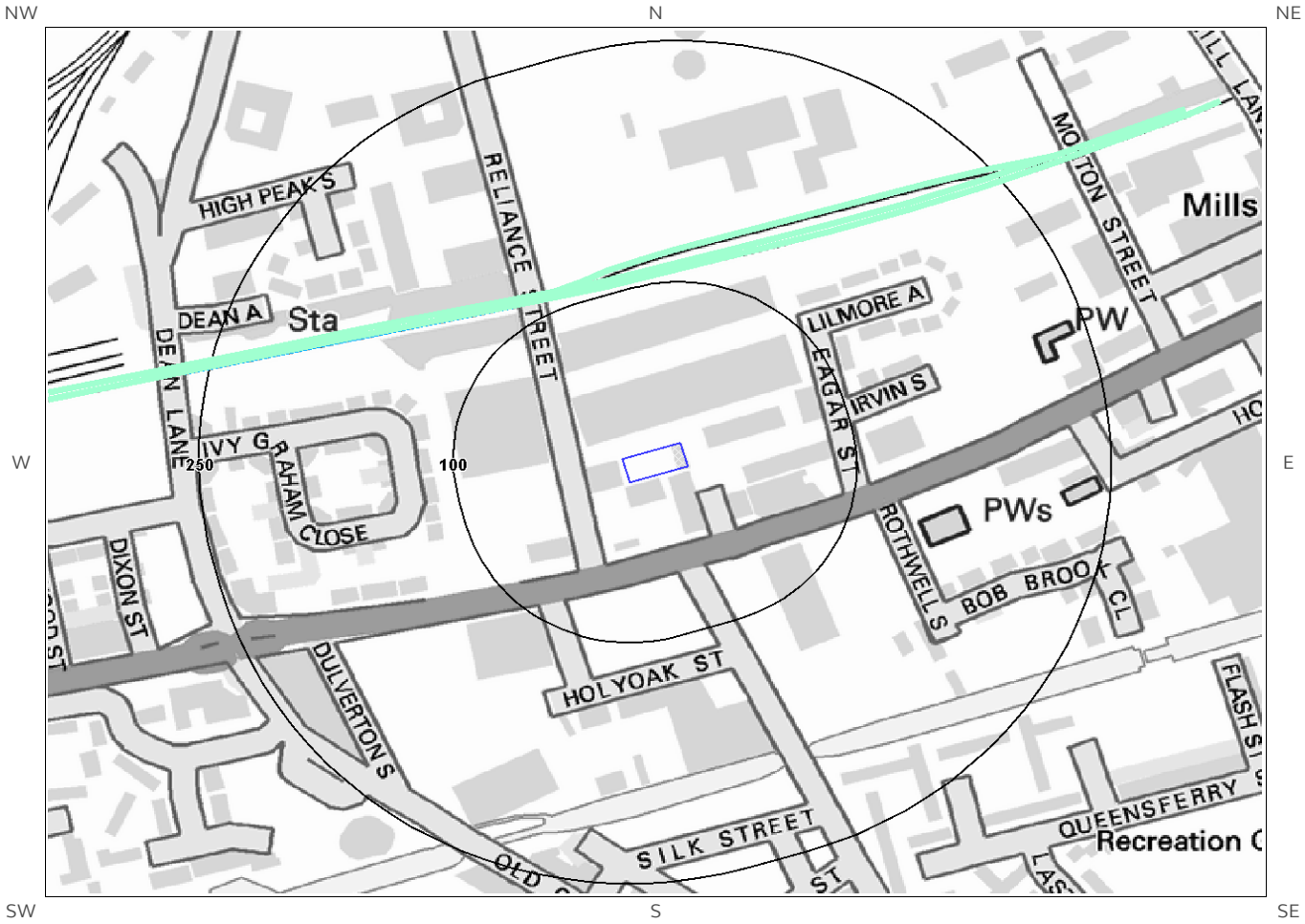
Records of background estimated soil chemistry within 250m of the study site boundary: 1

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni) | Lead (Pb) |
|---|---|---|---|---|---|---|---|
| 0.0 | On Site | RuralSoil | 25 - 35 mg/kg | <1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg | <100 mg/kg |

*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# 9 Railways and Tunnels map




**Railways and Tunnels Legend**

© Crown copyright and database rights 2019.
Ordnance Survey licence 100035207.
© OpenStreetMapContributors

- Site Outline
- Search Buffers (m) — 250 — 500
- Underground or Partially Underground Railway / Subway System
- Railway Tunnel (OS Mapping)
- Abandoned or Dismantled Railway (OpenStreetMap)
- Railway Track (OS Mapping)
- Railway Track (OpenStreetMap)
- High Speed 2
- High Speed 2 Revised Proposed Route
- Crossrail 1
- Railway and/or Tunnel Feature from Historical Mapping

# 9 Railways and Tunnels

## 9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

| | |
|---|---|
| Have any underground railway lines been identified within the study site boundary? | No |
| Have any underground railway lines been identified within 250m of the study site boundary? | No |

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

| | |
|---|---|
| Have any other railway tunnels been identified within the site boundary? | No |
| Have any other railway tunnels been identified within 250m of the site boundary? | No |

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

| | |
|---|---|
| Have any historical railway or tunnel features been identified within the study site boundary? | No |
| Have any historical railway or tunnel features been identified within 250m of the study site boundary? | No |

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Multiple sections of the same track may be listed in the detail above
*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? No

Have any active railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Name | Type |
|---|---|---|---|
| 105 | N | Not given | tram |
| 105 | N | Not given | Multi Track |
| 105 | N | Not given | Multi Track |
| 105 | N | Not given | tram |
| 109 | N | Not given | rail |
| 109 | N | Not given | rail |
| 112 | N | Not given | rail |
| 112 | N | Not given | rail |
| 113 | NW | Not given | Multi Track |
| 113 | NW | Not given | Multi Track |

Multiple sections of the same track may be listed in the detail above
*Any records that have been identified are represented on the Railways and Tunnels map.*

## 9.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail 1 .

Is the study site within 5km of the route of the High Speed 2 rail project? Yes

Is the study site within 500m of the route of the Crossrail 1 rail project? No

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a **Groundsure HS2 and Crossrail 1 Report**.*

The route data has been digitised from publicly available maps by Groundsure. The route as provided relates to the Crossrail 1 project only, and does not include any details of the Crossrail 2 project, as final details of the route for Crossrail 2 are still under consultation.

Please note that this assessment takes account of both the original Phase 2b proposed route and the amended route proposed in 2016. As the Phase 2b route is still under consultation, Groundsure are providing information on both options until the final route is formally confirmed. Practitioners should take account of this uncertainty when advising clients.

# Contact Details

**Groundsure Helpline**

**Telephone: 08444 159 000**
**info@groundsure.com**

**British Geological Survey Enquiries**

Kingsley Dunham Centre
Keyworth, Nottingham NG12 5GG
Tel: 0115 936 3143.
Fax: 0115 936 3276.
Email:**enquiries@bgs.ac.uk**
Web:**www.bgs.ac.uk**
BGS Geological Hazards Reports and general geological enquiries

**British Gypsum**

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX

**The Coal Authority**

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
**www.coal.gov.uk**

**Public Health England**

Public information access office
Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
**https://www.gov.uk/government/organisations/public-health-england**
Email: **enquiries@phe.gov.uk**
Main switchboard: 020 7654 8000

**Johnson Poole & Bloomer Limited**

Harris and Pearson Building, Brettel Lane
Brierley Hill, West Midlands
DY5 3LH
Tel: +44 (0) 1384 262 000
Email:**enquiries.gs@jpb.co.uk**
Website: **www.jpb.co.uk**

**Ordnance Survey**

Adanac Drive, Southampton
SO16 0AS

Tel: 08456 050505
**Website: http://www.ordnancesurvey.co.uk/**

**Getmapping PLC**

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
Tel: 01252 845444
Website:**http://www1.getmapping.com/**

**Peter Brett Associates**
Caversham Bridge House
Waterman Place
Reading
Berkshire RG1 8DN
Tel: +44 (0)118 950 0761 E-mail:**reading@pba.co.uk**
Website:**http://www.peterbrett.com/home**

Acknowledgements: Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028]. This report has been prepared in accordance with the Groundsure Ltd standard Terms and Conditions of business for work of this nature.

# Standard Terms and Conditions

Groundsure's Terms and Conditions can be viewed online at this link:
https://www.groundsure.com/terms-and-conditions-feb11-2019




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1893**

**Scale:** 1:2,500

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

N
W E
S

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

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1908**

**Scale:** 1:2,500

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

N
W E
S

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

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1922**

**Scale:** 1:2,500

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

N
W E
S

Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

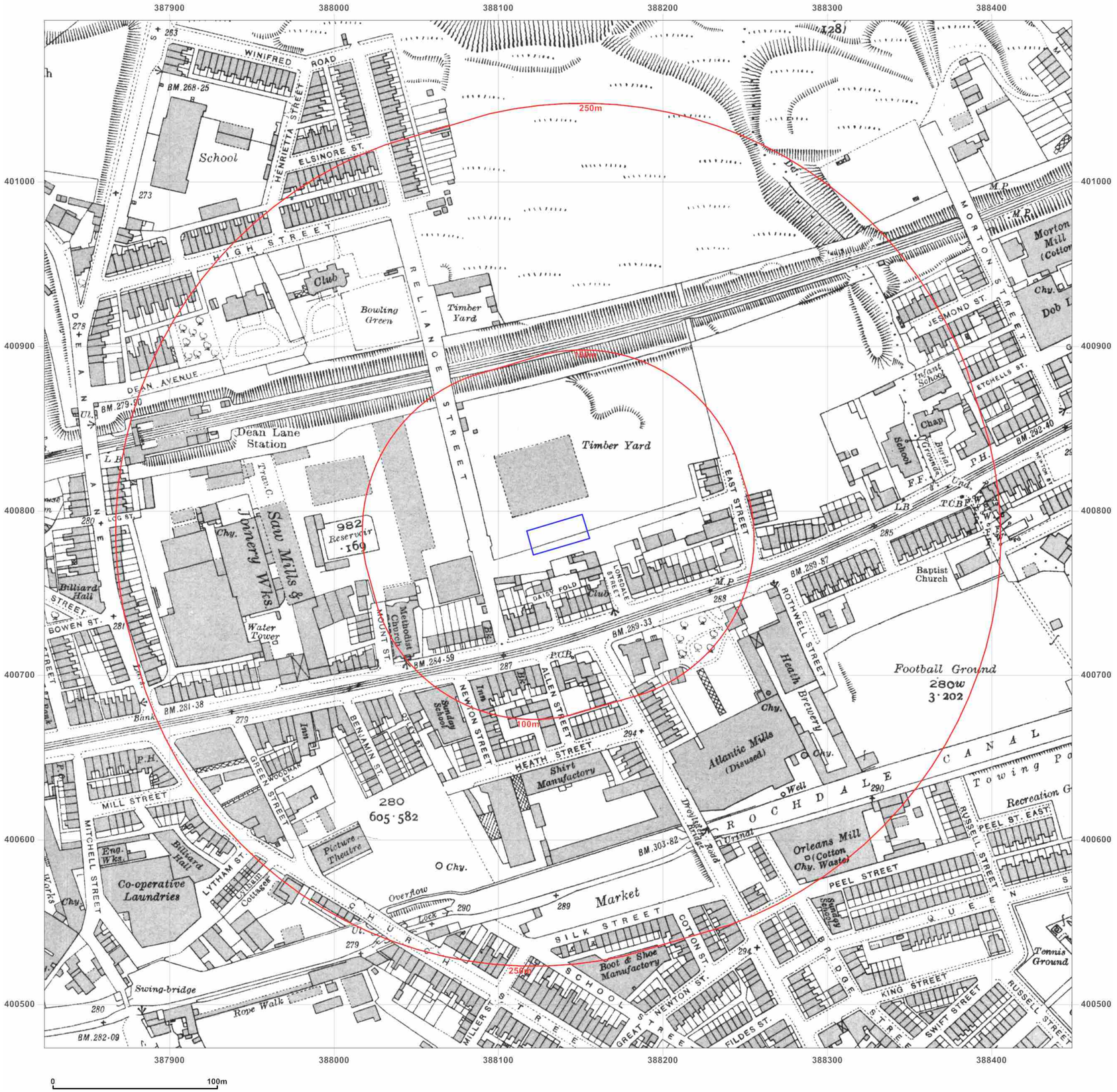
Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1931**

**Scale:** 1:2,500

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

N
W E
S

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

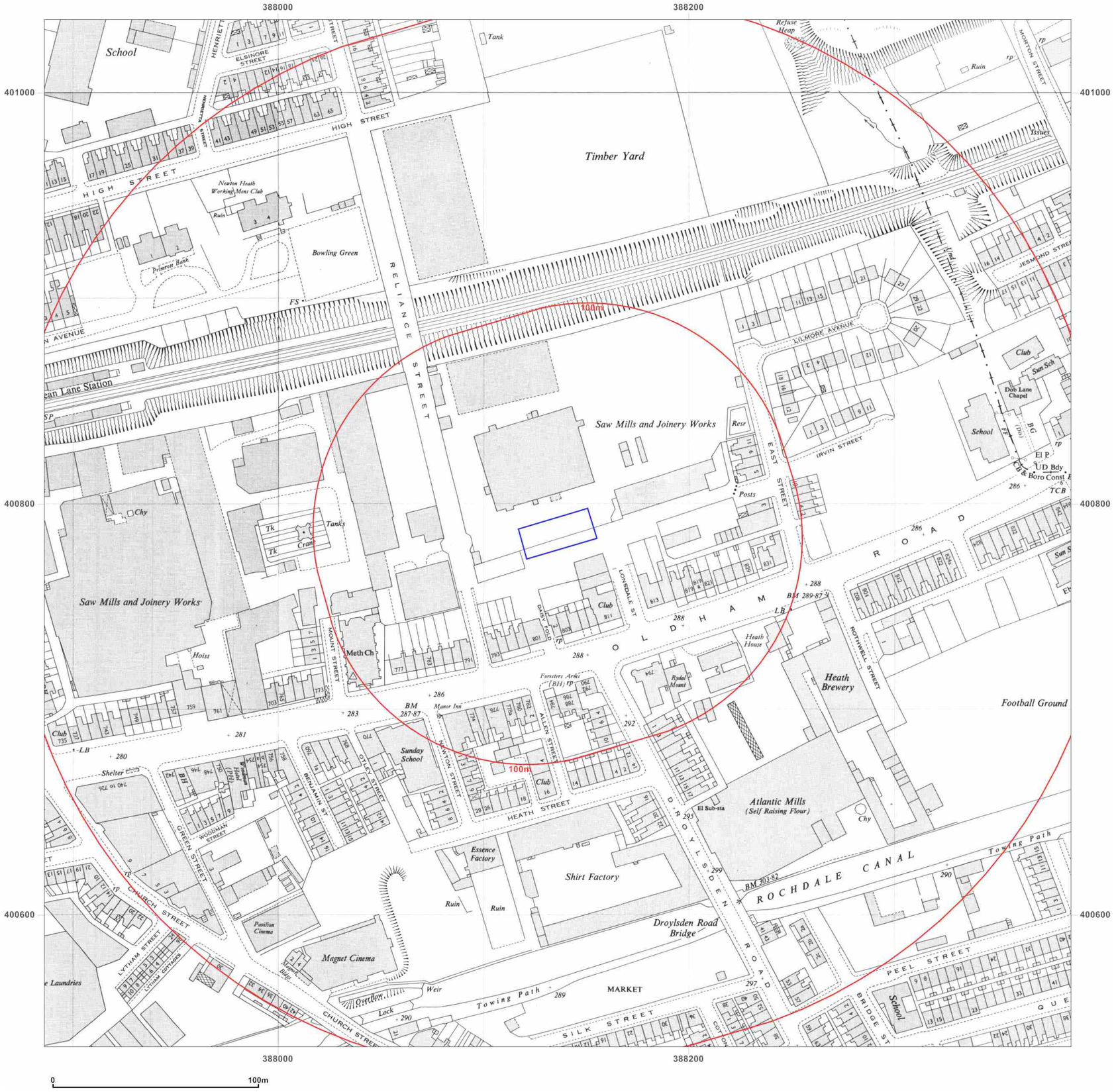
Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1950**

**Scale:** 1:1,250

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

N
W E
S

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1948

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1948

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1949

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1949

Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid
**Map date:** **1951**
**Scale:** 1:1,250
**Printed at:** 1:2,000

N
W E
S

| | |
|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1976<br>Levelled N/A | Surveyed 1950<br>Revised N/A<br>Edition N/A<br>Copyright 1951<br>Levelled 1948 |
| Surveyed 1950<br>Revised N/A<br>Edition N/A<br>Copyright 1951<br>Levelled 1949 | Surveyed 1950<br>Revised N/A<br>Edition N/A<br>Copyright 1951<br>Levelled 1949 |

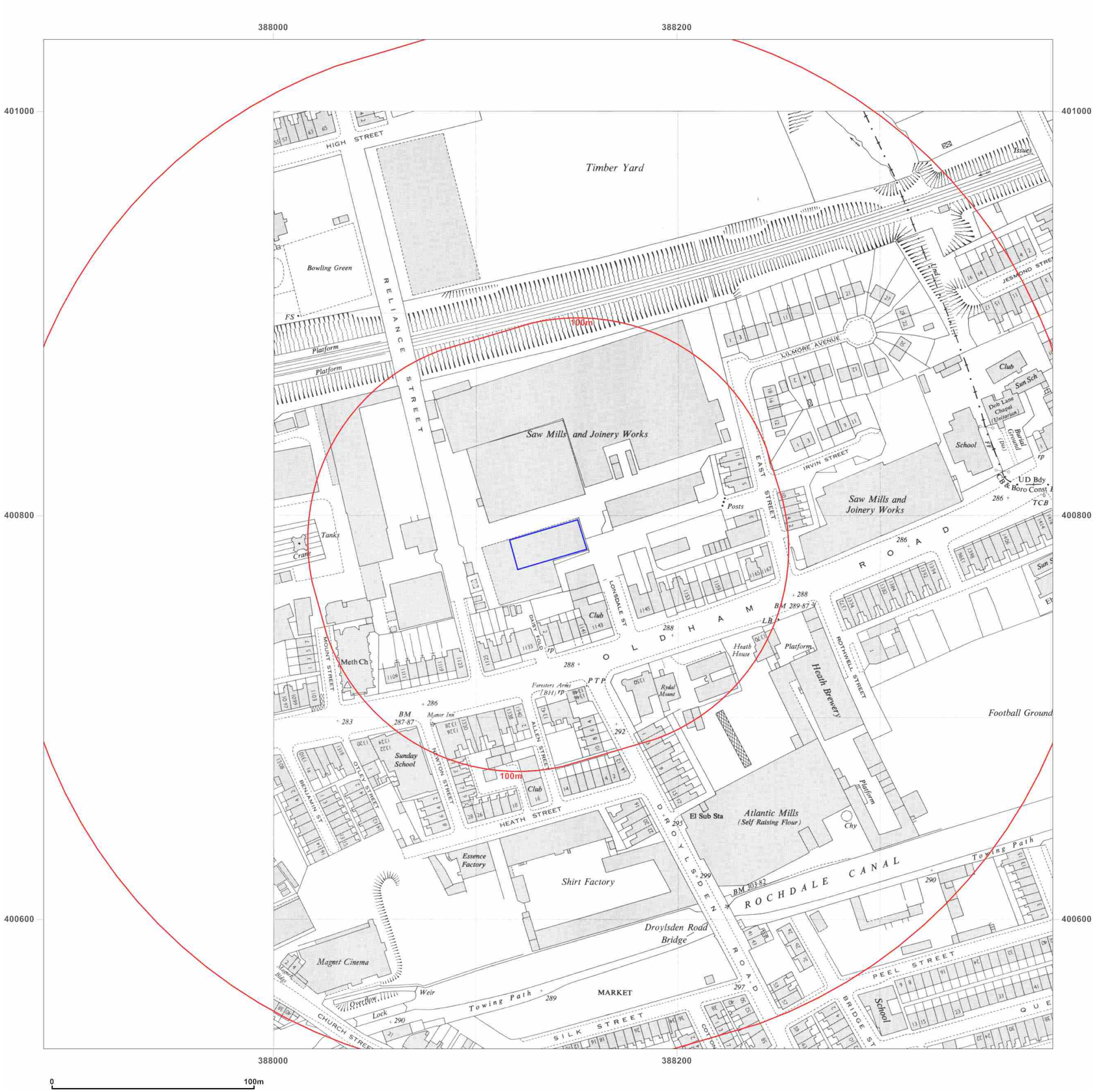
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1952**

**Scale:** 1:1,250

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

N
W E
S

Surveyed 1950
Revised 1952
Edition N/A
Copyright N/A
Levelled 1949

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1950-1952**

**Scale:** 1:2,500

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

N
W E
S

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

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

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1949

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1949

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1953**

**Scale:** 1:1,250

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

N
W E
S

Surveyed N/A
Revised 1952
Edition N/A
Copyright 1953
Levelled 1949

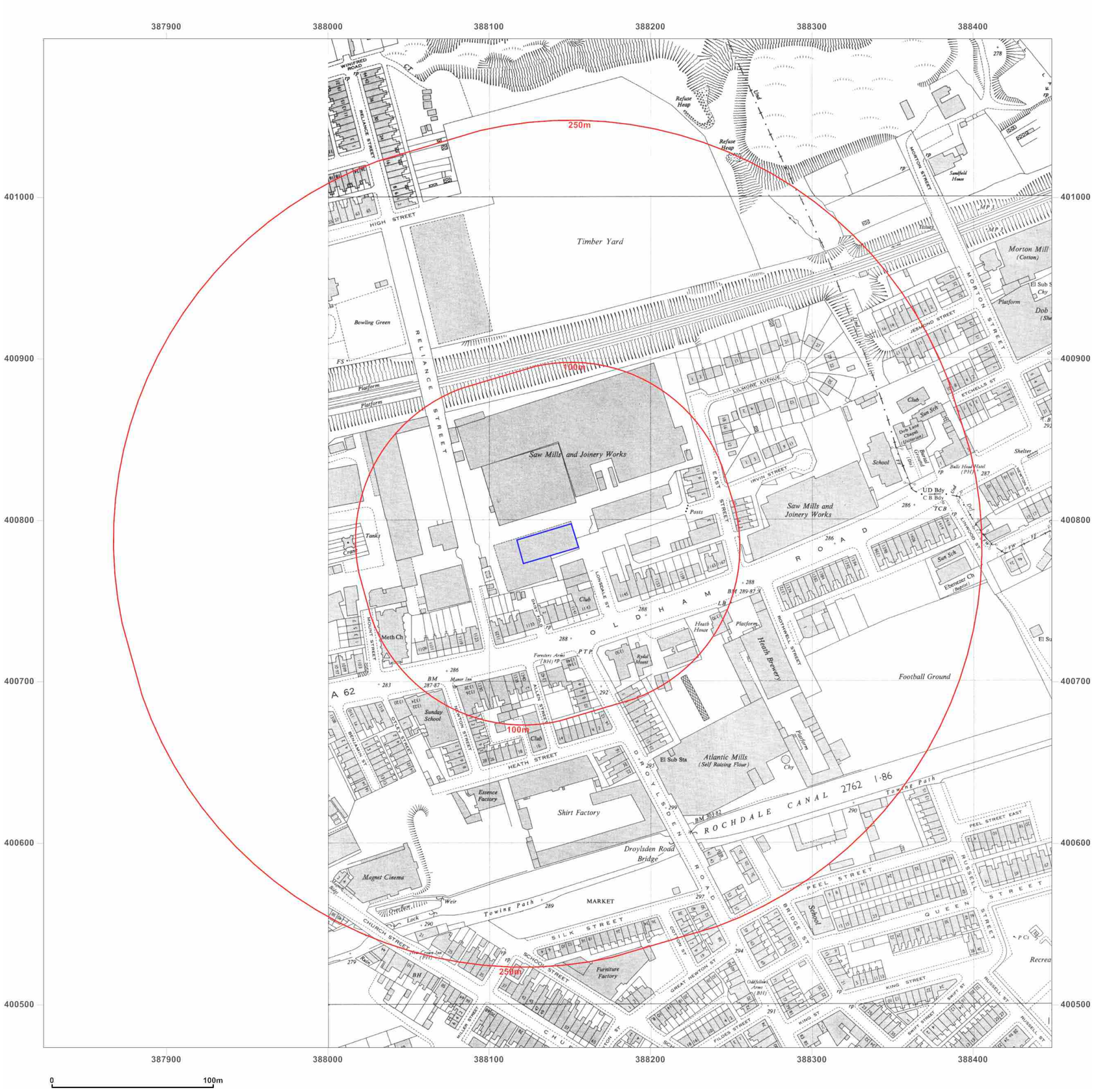
Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1965-1969**

**Scale:** 1:2,500

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

N
W E
S

Surveyed 1965
Revised 1965
Edition N/A
Copyright 1967
Levelled 1964

Surveyed 1967
Revised 1969
Edition N/A
Copyright 1969
Levelled 1964

Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid
**Map date:** **1975-1980**
**Scale:** 1:1,250
**Printed at:** 1:2,000

N
W E
S

| | |
|---|---|
| Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1977<br>Levelled 1964 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1975<br>Levelled N/A |
| Surveyed 1950<br>Revised 1979<br>Edition N/A<br>Copyright 1980<br>Levelled 1964 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright 1980<br>Levelled 1964 |

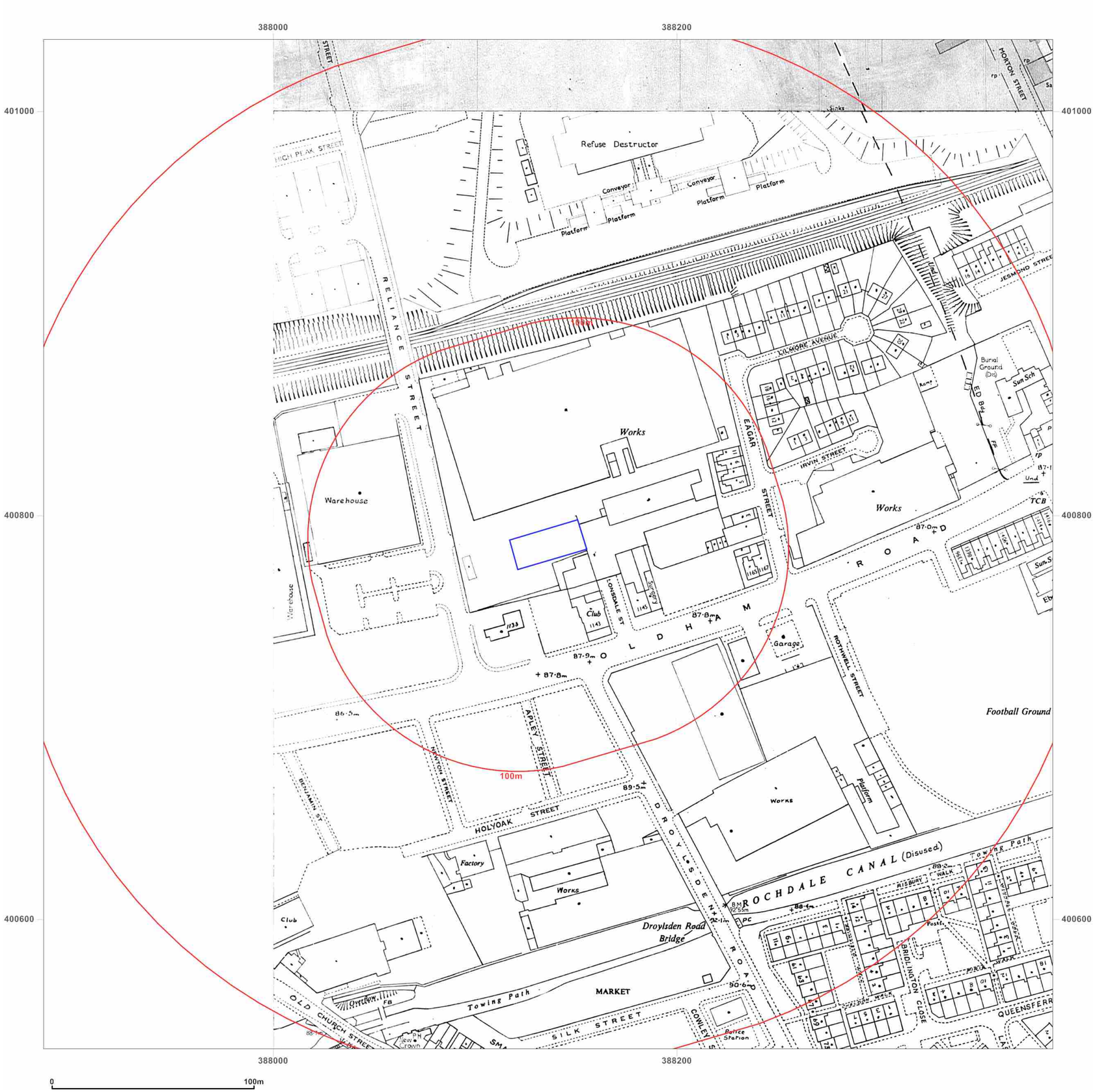
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1982-1983**

**Scale:** 1:1,250

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

N
W E
S

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1964

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1983
Levelled 1964

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid
**Map date:** **1983-1988**
**Scale:** 1:1,250
**Printed at:** 1:2,000

N
W E
S

Surveyed 1950
Revised 1983
Edition N/A
Copyright 1983
Levelled 1964

| | |
|---|---|
| Surveyed 1964<br>Revised 1988<br>Edition N/A<br>Copyright 1988<br>Levelled 1964 | Surveyed 1964<br>Revised 1986<br>Edition N/A<br>Copyright 1986<br>Levelled 1964 |

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1989-1991**

**Scale:** 1:1,250

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

N
W E
S

| | |
|---|---|
| Surveyed 1964<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1964 | Surveyed N/A<br>Revised N/A<br>Edition N/A<br>Copyright N/A<br>Levelled N/A |
| Surveyed 1964<br>Revised 1990<br>Edition N/A<br>Copyright 1990<br>Levelled 1964 | Surveyed 1950<br>Revised 1988<br>Edition N/A<br>Copyright 1989<br>Levelled N/A |

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




# Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1992**

**Scale:** 1:1,250

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

N
W E
S

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

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

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

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

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

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

N
W E
S

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

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

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

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

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




# Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1993**

**Scale:** 1:1,250

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

N
W E
S

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

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

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

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

Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




# Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

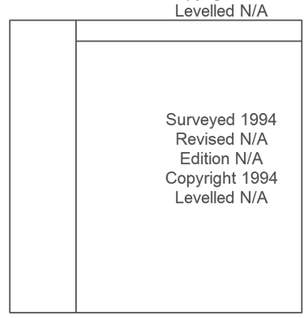
**Map date:** **1994**

**Scale:** 1:1,250

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

N
W E
S

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



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

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

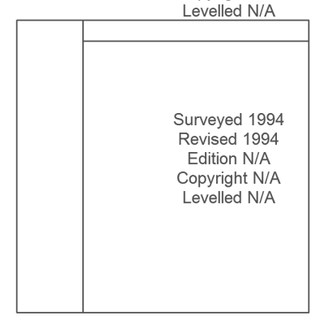
**Map date:** **1994**

**Scale:** 1:1,250

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

N
W E
S

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



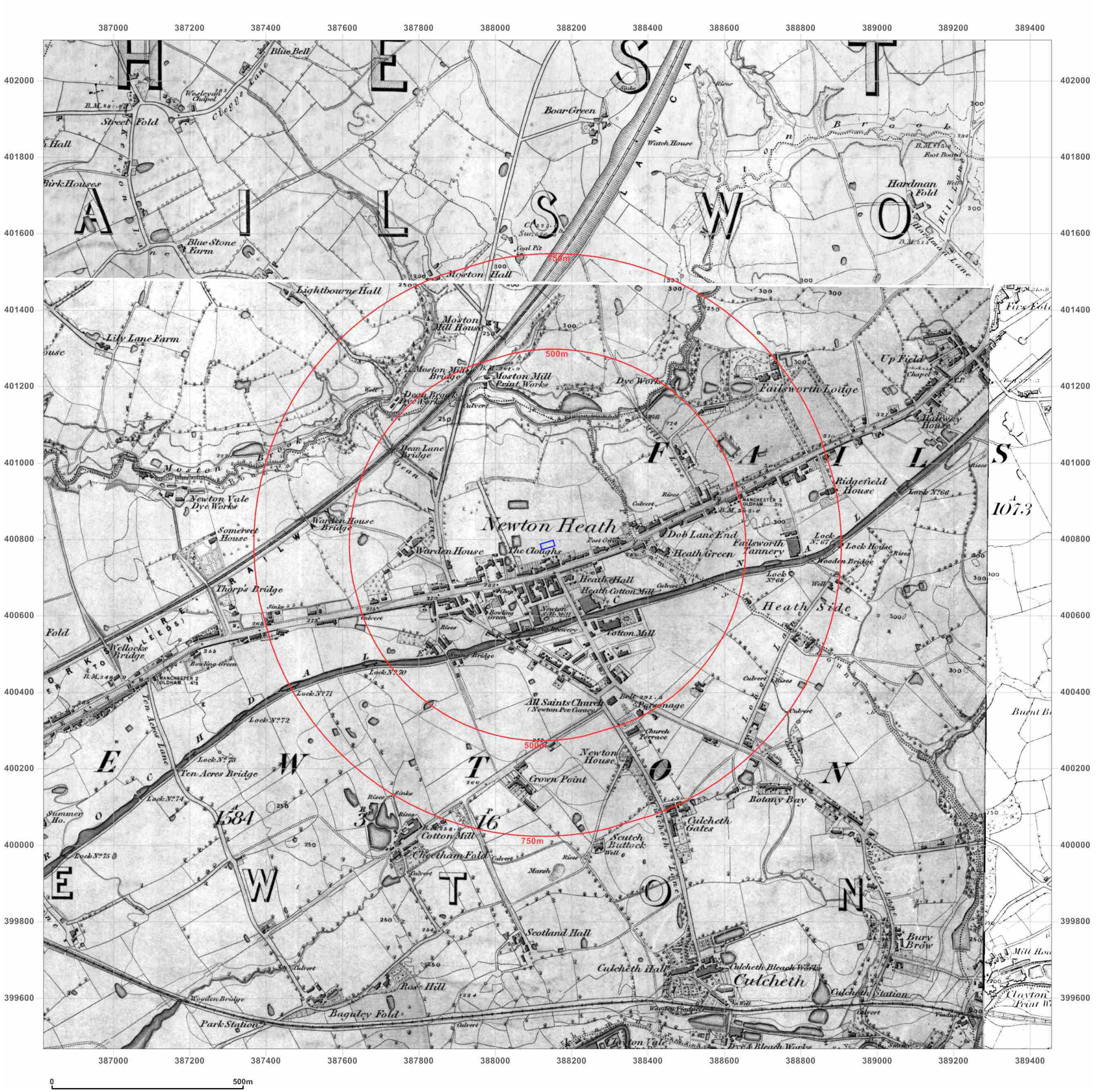

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1848**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

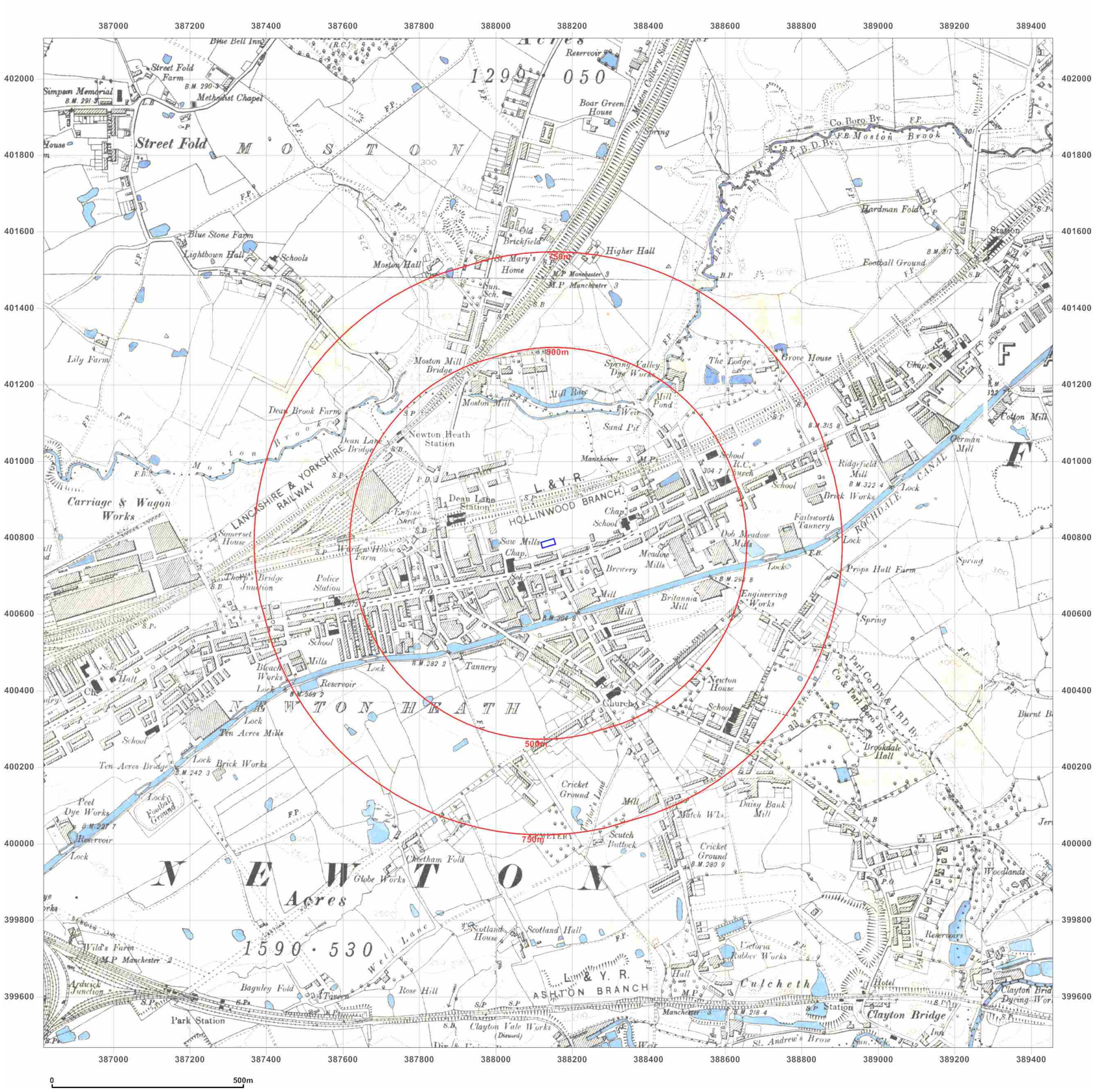
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1891-1892**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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

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

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

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

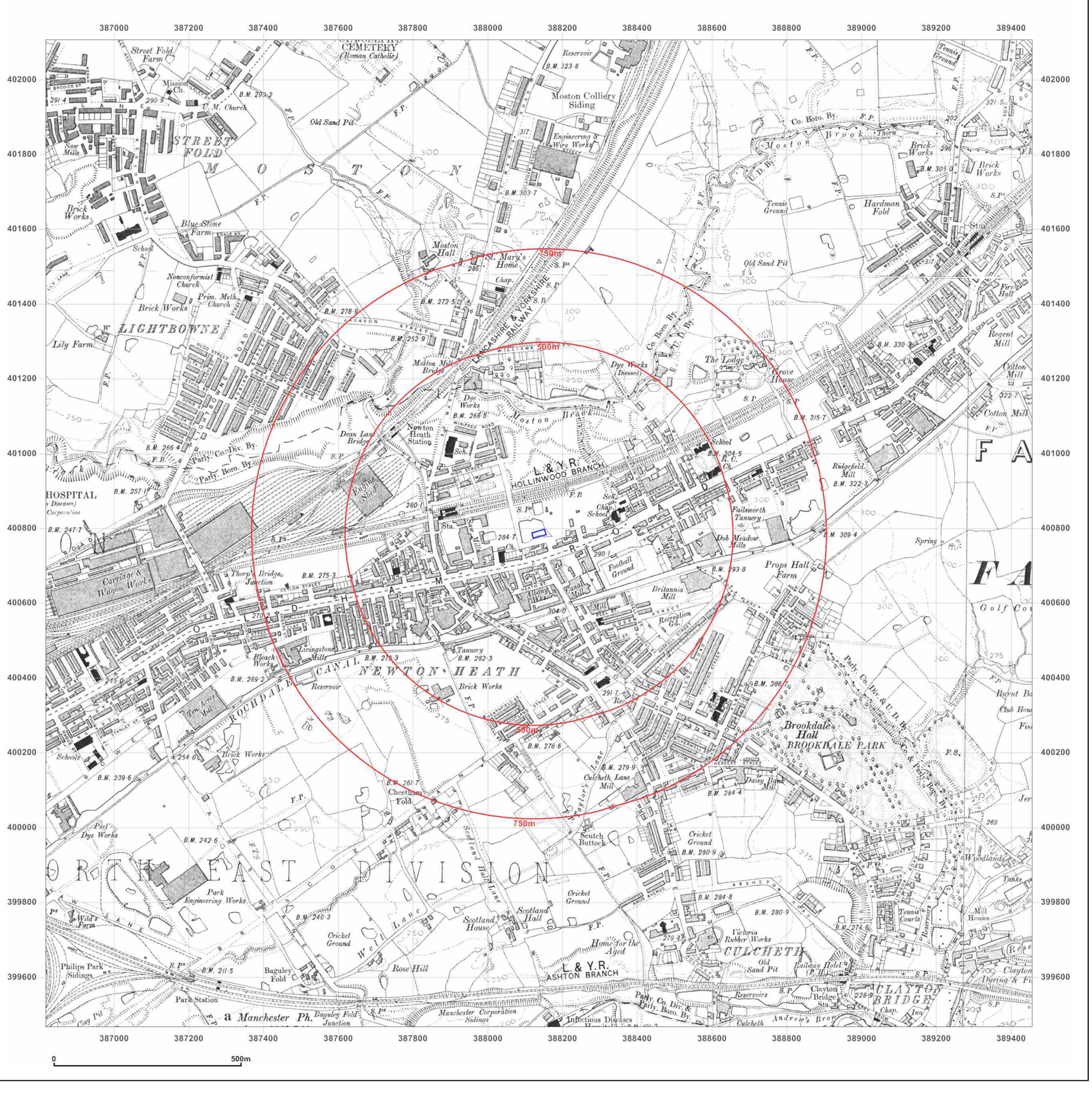
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1906**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1844
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1906
Edition 1906
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1923**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1921
Edition 1923
Copyright N/A
Levelled 1906

Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

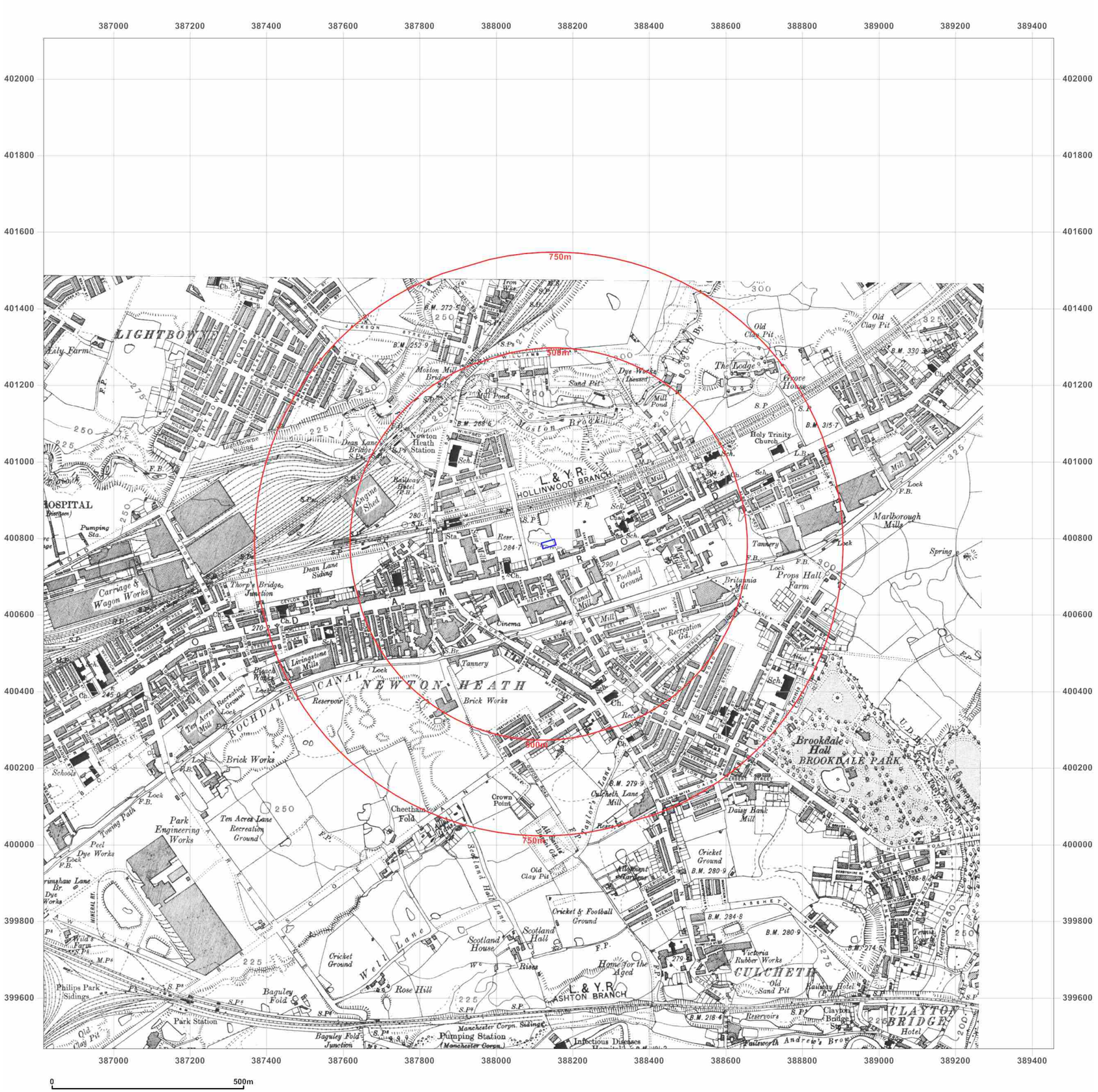
Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

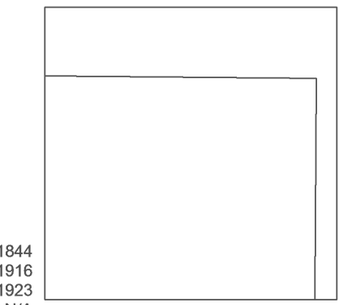
**Map Name:** County Series

**Map date:** **1923**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




# Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1933**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1844
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1933
Edition 1933
Copyright N/A
Levelled 1927

Surveyed 1844
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** County Series

**Map date:** **1933-1938**

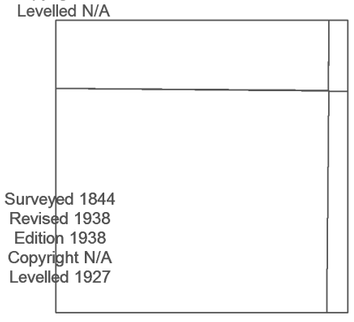
**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1844
Revised 1938
Edition 1938
Copyright N/A
Levelled 1927

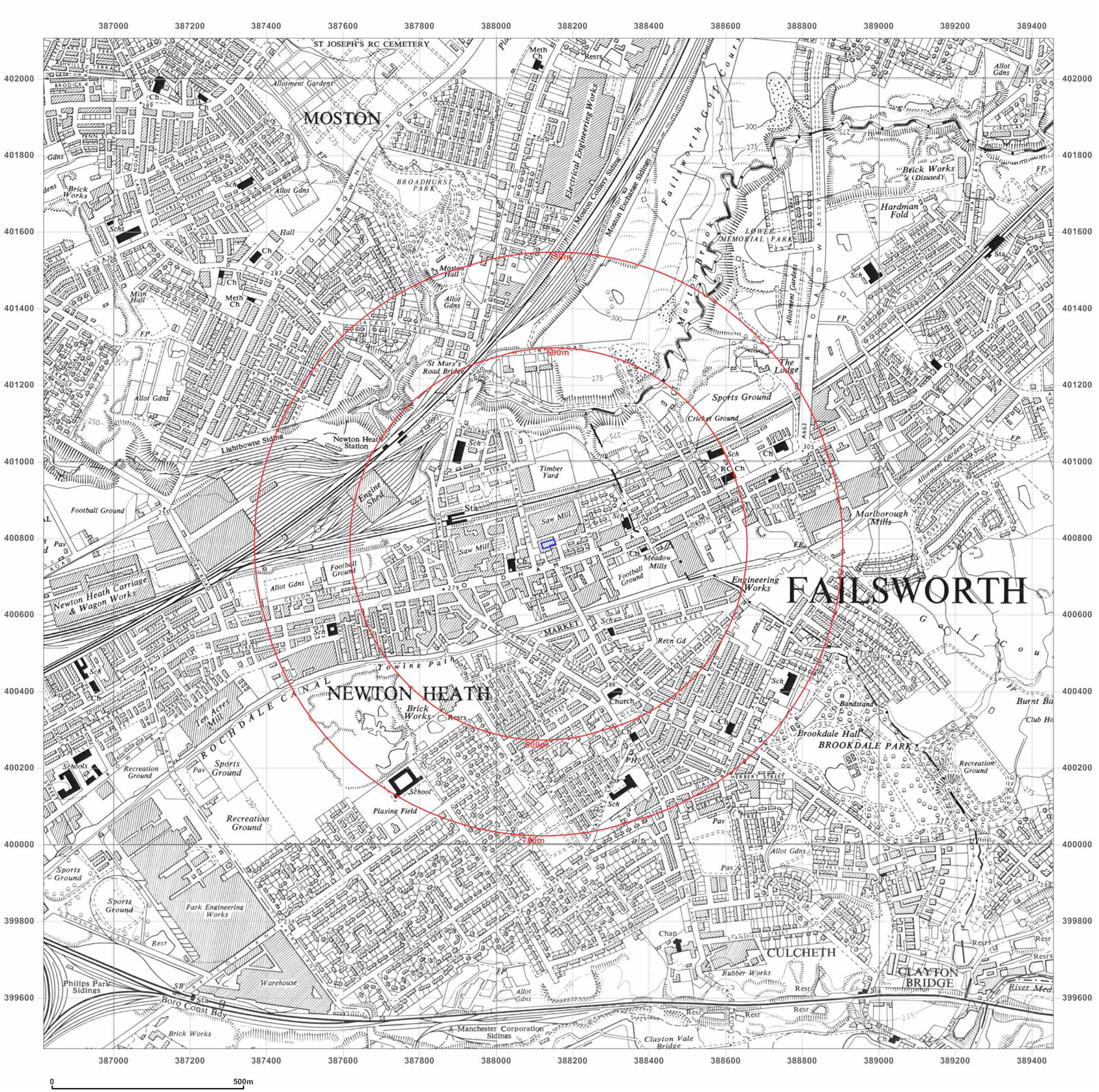
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** Provisional

**Map date:** **1956**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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

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

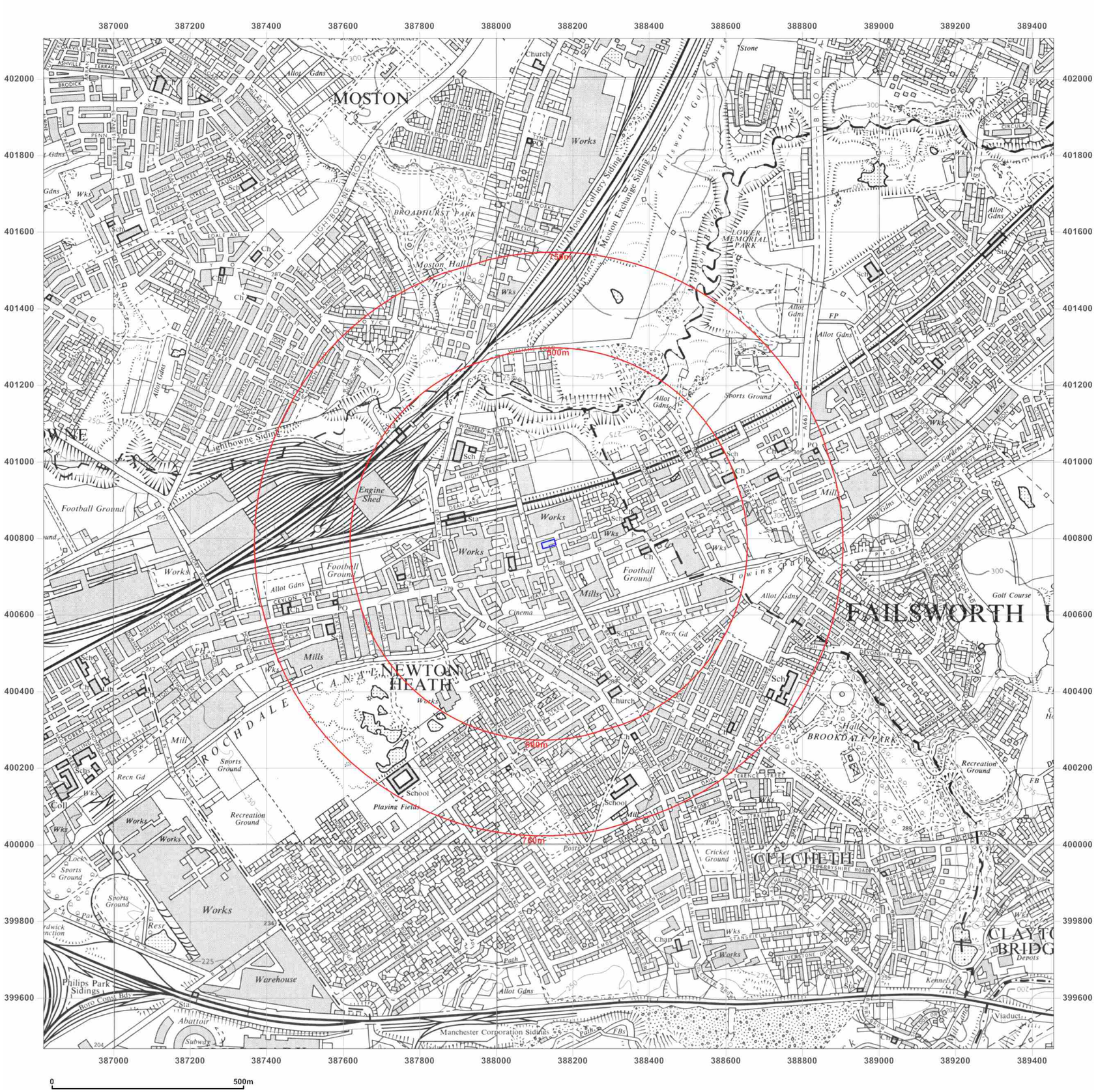
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** Provisional

**Map date:** **1966-1968**

**Scale:** 1:10,560

**Printed at:** 1:10,560

N
W E
S

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

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

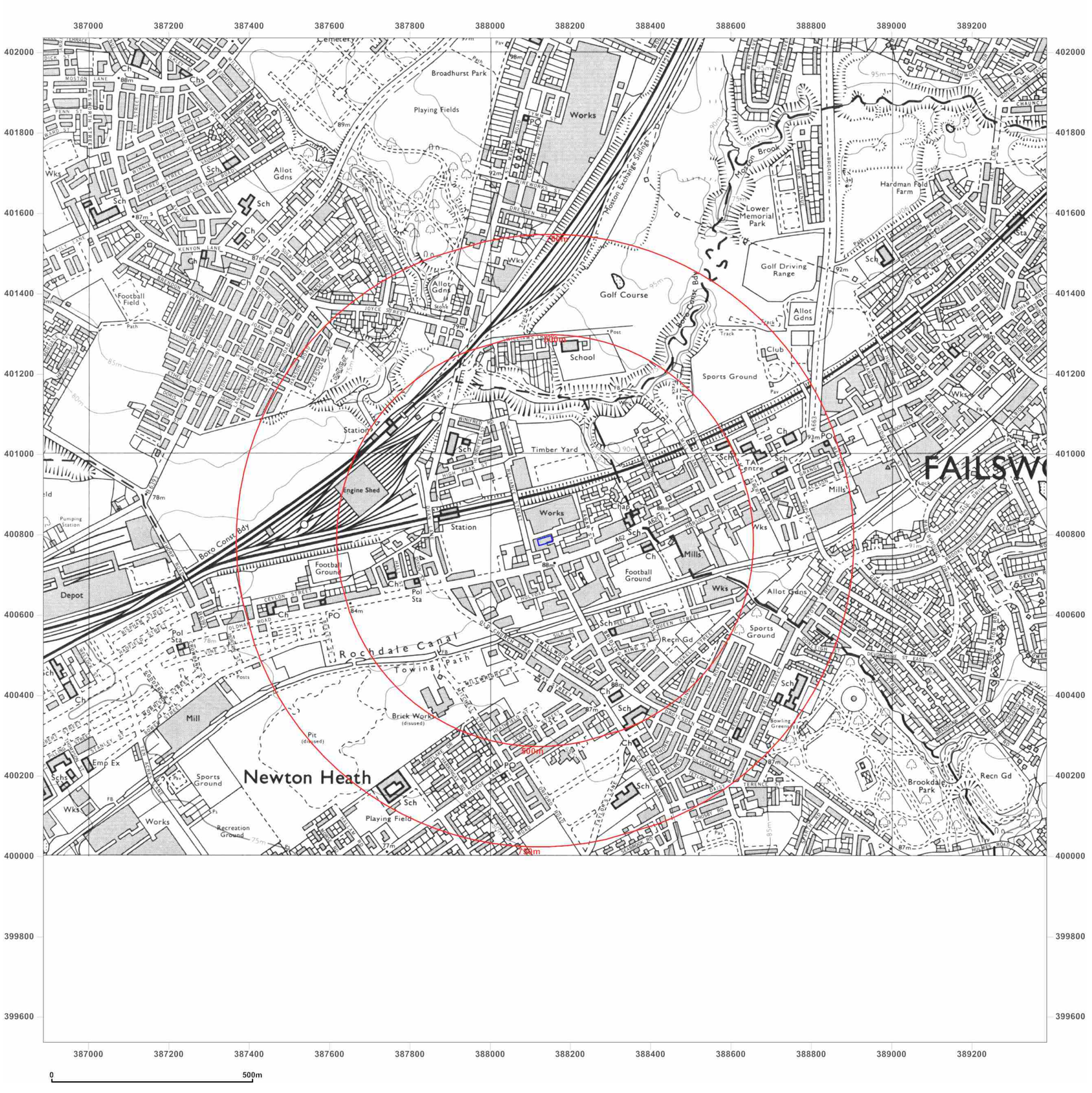
Powered by

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1975**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

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

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1980-1981**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

Surveyed 1980
Revised 1980
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1980
Edition N/A
Copyright 1981
Levelled 1976

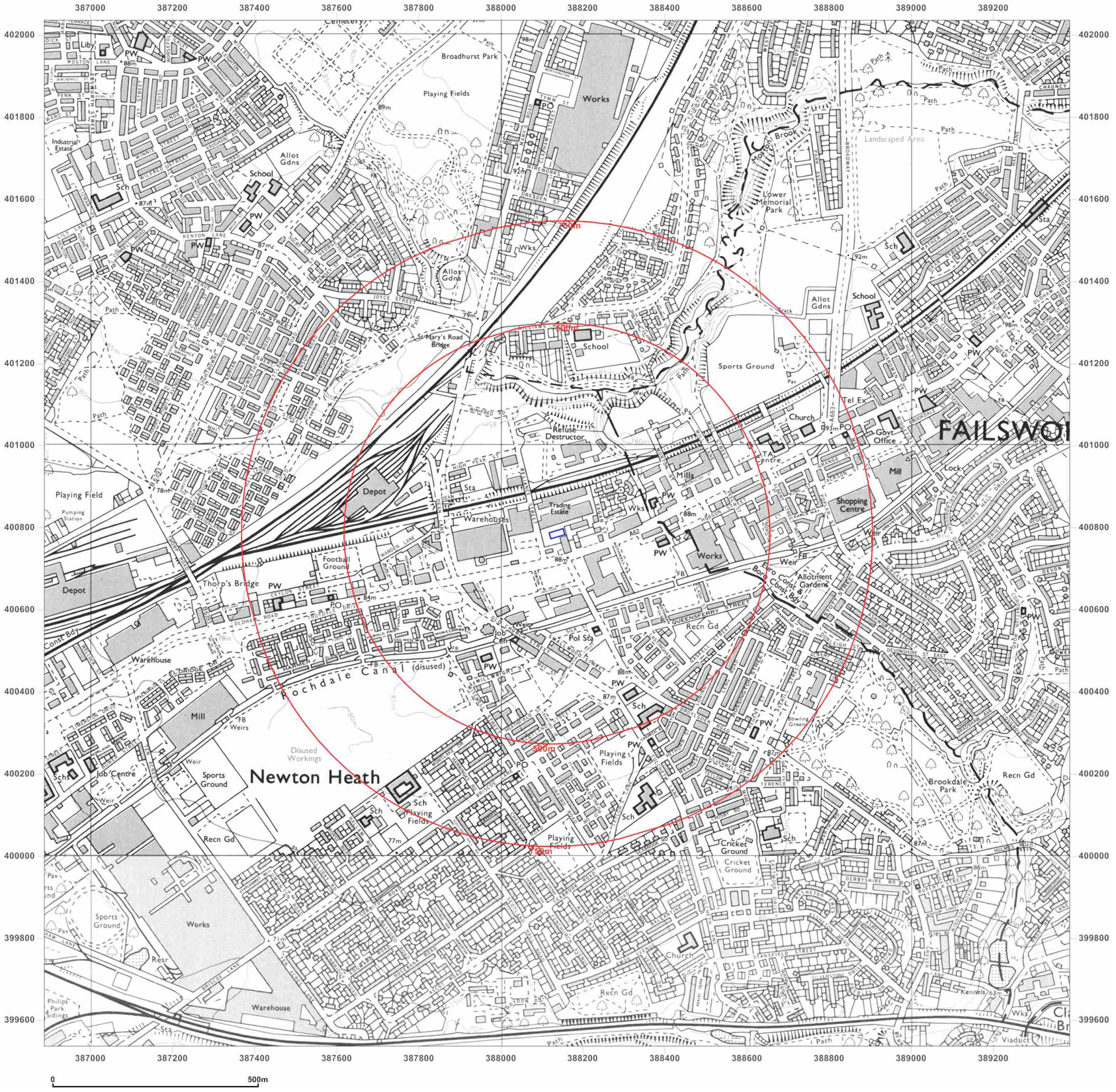
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid

**Map date:** **1988-1991**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

Surveyed 1987
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1985
Revised 1991
Edition N/A
Copyright 1991
Levelled 1981

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** 1:10,000 Raster

**Map date:** **2002**

**Scale:** 1:10,000

**Printed at:** 1:10,000

N
W E
S

2002

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

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

N
W E
S

2010

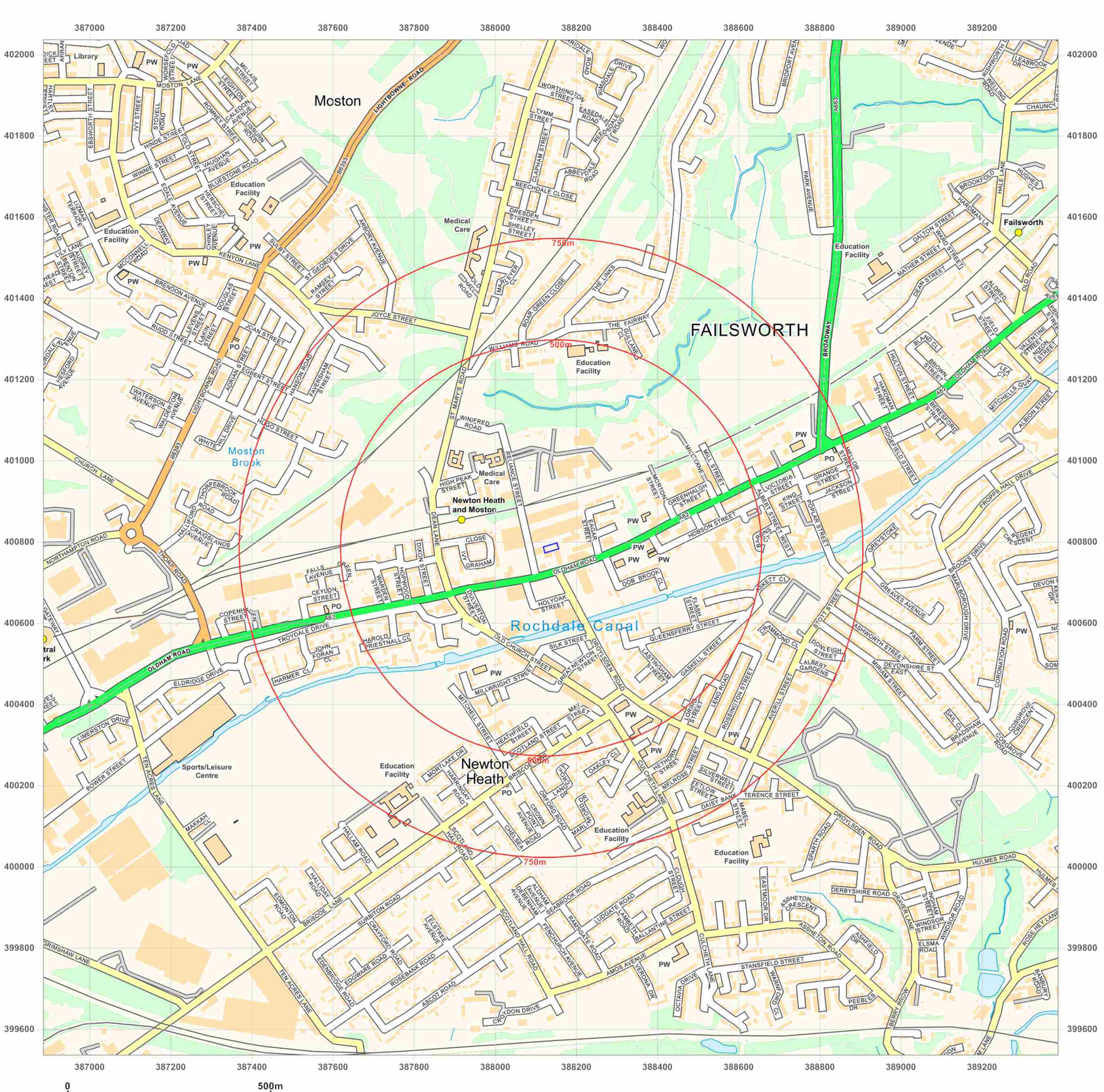
Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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




Groundsure INSIGHTS

**Site Details:**

UNITS AT RELIANCE STREET TRADING ESTATE, RELIANCE STREET, MANCHESTER, M40 3AG

**Client Ref:** 7473
**Report Ref:** GS-6157420
**Grid Ref:** 388136, 400786

**Map Name:** National Grid
**Map date:** **2014**
**Scale:** 1:10,000
**Printed at:** 1:10,000

N
W E
S

2014

Powered by OS

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

© Crown copyright and database rights 2018 Ordnance Survey 100035207

Production date: 09 July 2019

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