



**Haigh Huddleston & Associates**

**Civil & Structural Engineering Consultants**

Firth Buildings, 99 - 101 Leeds Road, Dewsbury, WF12 7BU

t 01924 464342 f 01924 450662 e [trevor.haigh@haighhuddleston.co.uk](mailto:trevor.haigh@haighhuddleston.co.uk)

# **Phase 1 Desk Top Geo-environmental Report**

**ON**

**PROPOSED DEVELOPMENT**

**AT**

**FORMER DEWSBURY FIRE STATION,  
HUDDERSFIELD ROAD, DEWSBURY**

**FOR**

**WSG HOLDINGS LTD**

**FEBRUARY 2018**

**E17/6874/R001B  
Rev B**

Prepared by

**M.Huddleston MEng**

## **INDEX**

|            |                                                      |         |
|------------|------------------------------------------------------|---------|
| 1.0        | Introduction                                         | Page 3  |
| 2.0        | The Site                                             | Page 3  |
| 3.0        | Site History                                         | Page 5  |
| 4.0        | Site Geology and Mining                              | Page 6  |
| 5.0        | Environmental Considerations                         | Page 7  |
| 5.1        | Radon                                                | Page 7  |
| 5.2        | Landfill Sites                                       | Page 7  |
| 5.3        | Flood Risk                                           | Page 7  |
| 5.4        | Groundwater                                          | Page 7  |
| 6.0        | Preliminary Site Conceptual Model                    | Page 8  |
| 7.0        | Conclusions                                          | Page 11 |
| Appendix A | Site Location Plan<br>Site Survey<br>Planning Layout |         |
| Appendix B | Coal Authority Report<br>Geology Report              |         |
| Appendix C | Groundsure Report<br>Historical Plans                |         |

## **1.0 INTRODUCTION**

- 1.1 This report is commissioned to examine the risk of contamination for the above site in line with the recommendations of Part II of the Environmental Protection Act 1990 PPS 23. It is based on information provided by both the client and statutory bodies in both written and verbal format. It is assumed that all information given is correct and factual at the time of writing this report. No liabilities can be accepted for information provided by third parties and subsequently found to be in error.

## **2.0 THE SITE**

- 2.1 The site is located to the south of Huddersfield Road, Dewsbury. It is situated around Ordnance Survey grid reference 423331, 420770. A site location plan is included in Appendix A.
- 2.2 The site is approximately square in shape, with access from Huddersfield Road along the northern boundary and Broad Street on the southern boundary. There are residential properties to the north, east and south and a mix of commercial and residential properties to the west. The overall site area is approximately 0.38ha.
- 2.3 The northern boundary is open with Huddersfield Road and leads to an area of concrete hardstanding and a tarmac access road along the western boundary that extends to a parking area in the south of the site that contains a diesel pump with above ground storage tank. The tarmac was in generally good condition with some deformation noted in the south west of the site. There is a smaller gated access in the southern boundary leading from the parking area to Broad Street.
- 2.4 In the centre of the site is the brick built three-storey office block of the fire station with single storey equipment storage areas and a firefighting training tower located in the south east. An above ground tank, used for storing foam, is located near the tower. In the south west of the site, there is a smoke house training building. There are small areas of soft landscaping located in the northern and eastern areas of the site.
- 2.5 The southern, eastern and western boundaries are formed by a mix of steel fencing and brick walls with gated access located in the south west. The northern boundary is open onto Huddersfield Road.

- 2.6 The site is relatively flat with slight falls from north to south and localised falls towards the gullies in the hardstanding areas. A high point of 56.10m AOD is located in the north western corner and a low point of 55.09m AOD in the south eastern corner. The majority of the southern parking area is retained approximately 0.5m above Broad Street to the south.
- 2.7 It is proposed to develop the site for mixed commercial/residential use. Commercial units with storage space are to be constructed where the engine house now stands and the existing three-storey office building is to be converted to apartments. The remainder of the site is to be hardstanding with small areas of soft landscaping.

### 3.0 SITE HISTORY

A number of historical Ordnance Survey plans from 1854-2014 have been consulted. These are contained for reference within Appendix C to the rear of the report. Below is a brief description outlining the significant developments that may effect future construction of the site.

|           | <b>Historical uses on site</b>                                                                                                    | <b>Historical findings within 100m perimeter of the site</b>                                                    | <b>Historical findings further than 100m perimeter of the site</b>                                                        |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1854      | i). The site is shown as open field.<br>ii) Northern boundary formed by highway.                                                  | i). The site is surrounded by fields.                                                                           | i). Railway heading north east to south west 130m south east of the site.<br>ii). Lime kilns 220m south west of the site. |
| 1892-1894 | i). Site shown as part of Ravens Lodge Colliery. Buildings and shafts shown on site.                                              | i). Ravens Lodge Colliery extends south and south east of site.<br>ii). Brick and Tile Works 50m south of site. | i). Mills 300m south east and south west of site.                                                                         |
| 1905-1907 | i). Railway line running north west to south east along north east boundary of site.<br>ii). Only two shafts still shown on site. | i). No significant developments within 100m of the site.                                                        | i). Pipe works 100m east of site.                                                                                         |
| 1922      | i). Few small structures shown on northern boundary.                                                                              | i). Residential development east of site.<br>ii). Brick works 50m south now an Engineering Works.               | i). Pipe works now labelled as warehouse.                                                                                 |
| 1931-1933 | i). Large building constructed in centre of site.                                                                                 | i). Iron Works constructed south of site.<br>ii). Residential development north of site.                        | i). Warehouse 100m east of site labelled as mill.                                                                         |
| 1948-1955 | i). Large building labelled as garage.<br>ii). Further buildings on western boundary and in north east and north west corners.    | i). No significant developments within 100m of the site.                                                        | i). No significant developments within 500m of the site.                                                                  |
| 1971-1976 | i). Fire station now shown on site.                                                                                               | i). No significant developments within 100m of the site.                                                        | i). Scrap metal yard 120m south of site.                                                                                  |
| 2014      | i). The on-site features are similar to the previous sheet.                                                                       | i). No significant developments within 100m of the site.                                                        | i) No significant developments within 500m of the site.                                                                   |

#### **4.0 SITE GEOLOGY & MINING**

- 4.1 The BGS Digital Geological Map of Great Britain at 1:50,000 scale has been consulted and we would report as follows:-
- 4.2 No superficial strata or artificial strata is shown overlying the site. However, the site is shown to be potentially infilled land associated with historical colliery workings.
- 4.3 The majority of the site is underlain by the Pennine Lower Coal Measures Formation consisting of Mudstone, Siltstone and Sandstone. The western edge of the site is shown to be underlain by the Birstall Rock Formation consisting of Sandstone.
- 4.4 The nearest fault line is located 62m south of the site and heads from west to east.
- 4.5 The Coal Authority Report is included in Appendix B and states that the property is in an area with probable unrecorded coal workings at shallow depth. Historically, shallow seams may have been worked by private individuals and the workings unrecorded by the Coal Authority.
- 4.6 The property is not in area where the Coal Authority has granted, or plans to grant, a licence to remove or otherwise work coal using underground methods.
- 4.7 There are three mineshafts recorded within the site boundaries. One is located adjacent the northern boundary, two are located adjacent the southern boundary. The Coal Authority has confirmed the shafts are approximately 80m deep. There are no records of what treatment, if any, has been undertaken to them.
- 4.8 There is a BGS borehole associated with Ravenslodge Colliery located 43m north east of the site. This shows clay and marl to a depth of 13.2m where the 300mm thick Brown Metal Coal seam was encountered. The 375mm thick Lousey Coal seam is recorded 20.5m below ground levels.
- 4.9 Coal seams are indicated to outcrop 24m north east and 65m south west of the site.

## **5.0 ENVIRONMENTAL CONSIDERATIONS**

### **5.1 Radon**

The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

No Radon Protective Measures are necessary.

### **5.2 Landfill Sites**

There are no recorded historical or current landfill sites located within 250m of the site.

There are waste treatment plants located 116-128m south and 132-154m south west of the site.

### **5.3 Flood Risk**

The site lies outside of current EA defined flood zones.

### **5.4 Groundwater**

The bedrock underlying the site is classified as a Secondary (A) Aquifer. These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flows to rivers. These are generally aquifers formerly classified as minor aquifers.

There are no recorded groundwater or surface water abstraction licences recorded within 250m of the site.

There are no recorded licensed discharge consents within 250m of the site.

There are four recorded pollution incidents in controlled waters within 250m of the site. Two are located 81m south of the site while the third and the fourth are located 102m and 148m south of the site respectively. These were all Category 3 (Minor) incidents.

The site is not located in a Source Protection Zone.

The nearest recorded surface water feature is 189m to the south of the site. This is the River Calder and is classified as a Primary River.

## **6.0 PRELIMINARY CONCEPTUAL SITE MODEL**

- 6.1 The initial stage in assessing the risks posed from contaminated land during the redevelopment of a site is to prepare a conceptual model. A generalised conceptual model can be developed highlighting the main pollutant linkages through a contaminant ► pathway ► receptor model for the construction of a commercial/residential development. In order to prepare the conceptual model for a particular site the following parameters need to be reviewed as discussed below.
- 6.2 Contamination of existing land can be caused by a number of factors, including:-
- i) Possible historical/current industrial activities.
  - ii) Disposal of waste materials.
  - iii) Storage of materials.
  - iv) A number of natural processes can also lead to hazardous gases and elevated heavy metals.
- 6.3 Potential pathways can include ground and surface water, permeable strata, existing services providing a conduit and voided ground. Potential receptors can include human health, ecosystems, controlled waters and building structures. There are a number of ways that a receptor can be exposed to the contaminant these include, inhalation, direct contact, ingestion, dermal contact and uptake.
- 6.4 Sources of potential contamination, that could affect the proposed development, from either on or off site activities would include the following:-
- i. Possible contaminants from the historical industrial use of the site and adjacent land. (Spillages from use as garage, materials from use as colliery).
  - ii. Fill material used for levelling areas of hardstanding on site.
  - iii. Ground gas migration from historical shallow mine workings.
  - iv. Construction materials from existing building on site.
  - v. Potential historical leakage from above ground tank associated with diesel pump located on site.
  - vi. Potential historical leakage from below ground petrol interceptor on site.
  - vii. Potential buried contamination associated with inspection pits/sumps from historical use as garage.

Therefore the potential for some contamination to exist on site is considered to be low.

- 6.5 Considering the proposed commercial/residential end use of the site, there will be two possible human receptor groups exposed to the existing onsite contamination:-
- a) Site operatives during development.
  - b) End users, future site users (the critical receptor is a 6 year old female).
- 6.6 Human receptors may be exposed to site contamination by a number of possible pathways. These pathways are summarised in Table 1 below.

**Table 1- Potential Human Exposure Pathways**

| <u>Human Exposure Pathway</u>               | <u>Site Users</u> | <u>Construction<br/>Workers</u> |
|---------------------------------------------|-------------------|---------------------------------|
| <b>Soil Ingestion</b>                       | YES               | YES                             |
| <b>Consumption of Home Grown Vegetables</b> | NO                | NO                              |
| <b>Dermal Contact</b>                       | YES               | YES                             |
| <b>Dust Inhalation</b>                      | YES               | YES                             |
| <b>Gases/Vapours</b>                        | YES               | NO                              |

- 6.7 The construction workers will come into contact with any contaminated soil to a far greater extent than future residents. The exposure pathways are generally through dermal contact and indirect ingestion. However their exposure will be for a limited time and the provision and correct use of personnel protective equipment and adequate welfare facilities during construction should restrict their risks to acceptable levels.
- 6.8 The risk of pollution to controlled waters by existing contamination is considered low. The nearest recorded borehole indicates the site will be underlain by relatively impermeable clays and marls. There are no licensed ground water or surface water abstractions within 250m of the development. The nearest recorded surface water feature is 189m south of the site.
- 6.9 No specific areas of ecological importance have been identified in the initial desk top study. Therefore the site is considered to be in a low risk environmental setting.
- 6.10 It is proposed to construct a commercial property with residential apartments above with small landscaped areas. The presence of elevated sulphates and hydrocarbons could affect the long term integrity of buried concrete structures, including

foundations and drainage pipes. Plastic water supply pipes can also be damaged by the presence of hydrocarbon contamination.

## **7.0 CONCLUSIONS**

- 7.1 The site has been developed since before 1892 and has been used as a colliery, brick works, garage and fire station, with similar usage noted immediately adjacent. Above ground diesel storage and a petrol interceptor are noted to exist on site, and there is the potential for buried contamination in inspection pits/sumps from the historical usage as a garage. In addition to this, the site is in an area of probably shallow mine workings and there is a risk of ground gas migration affecting the future residents/site-users. We therefore believe the risk of contamination to the site to be medium.
- 7.2 We would recommend that a Stage II Ground Investigation is undertaken following the demolition of the existing buildings to determine the underlying strata and foundations for the new development to be specified.
- 7.3 Prior to the demolition of the existing buildings, an asbestos survey should be undertaken to determine the presence of any asbestos containing materials. These should be removed from site prior to any demolition works commencing.
- 7.4 Due to the possibility of shallow mine workings beneath the site, a rotary borehole investigation should be undertaken to determine the presence of any workings. This should be undertaken using water flush methods due to the proximity of the adjacent residential properties. A minimum of two gas monitoring stations should be installed, as part of the borehole investigations, to allow the gas regime for the site to be established.
- 7.5 Additionally, as the presence of three shafts is indicated on the site, it is recommended that a site scrape is undertaken to determine the location of the shafts and confirm any historical treatment works. As the rotary borehole investigations and site scrape will disturb/enter Coal Authority property, application should be made for permission to undertake these works.
- 7.6 Soil samples from any made ground present or natural strata should be taken for contamination testing for metals, metalloids, PAH, TPH and asbestos. In particular, samples should be taken from the vicinity of any above ground tanks and in the vicinity of the petrol interceptor. If possible, trial pits should be undertaken within the footprint of the former garage to establish and buried contamination associated with former inspection pits/sumps. If any contamination is found, a site remediation report

should outline the most effective method of dealing with the contamination and any validation requirements.

- 7.7 Plasticity testing should also be undertaken to determine the shrinkage of the existing clays, to enable the new foundations to be designed and constructed in accordance with the current standards.

Prepared by



M. Huddleston. MEng

Checked by



T. Haigh. BSc.,C.Eng.M.I.C.E.

FEBRUARY 2018

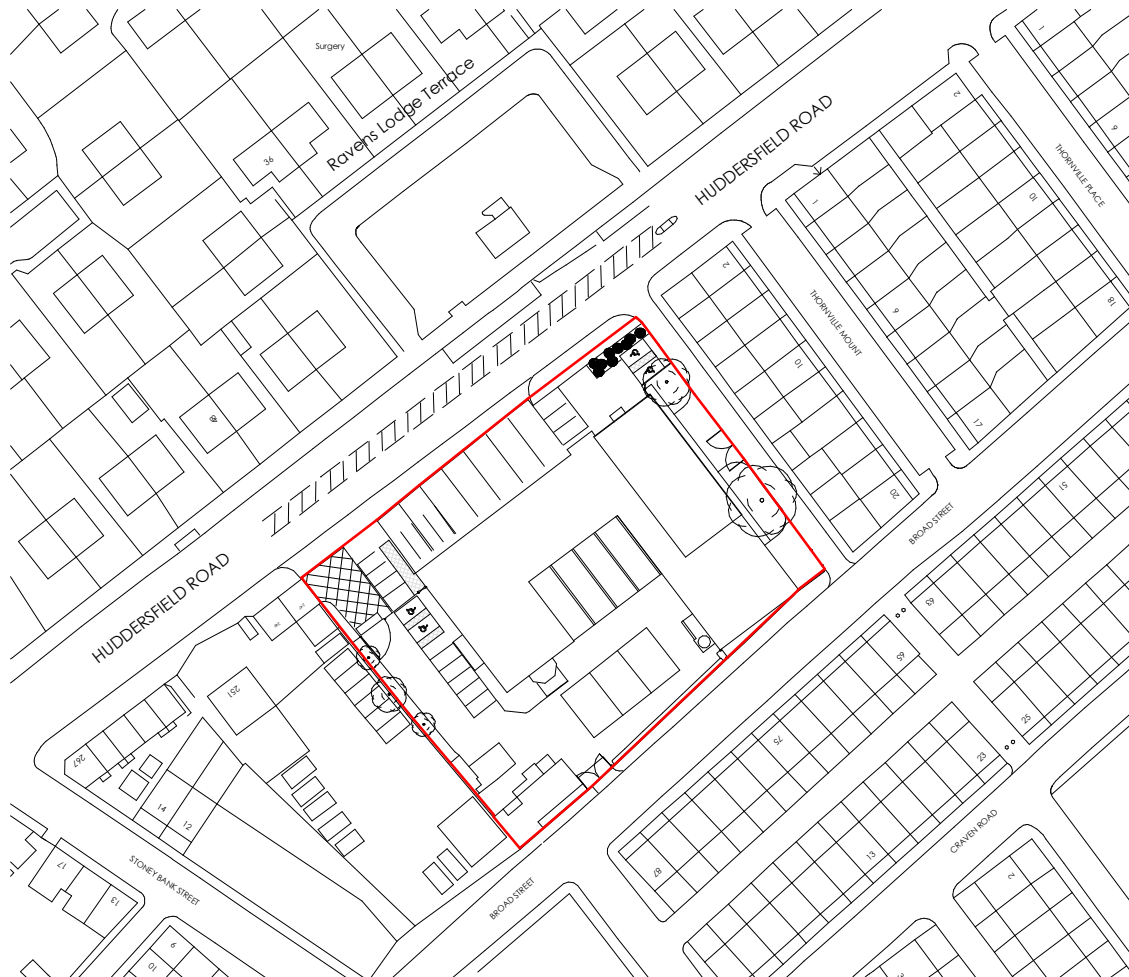
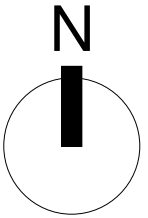
This report is subject to the provisions of the Copyright Acts and is for the sole benefit of WSG Holdings Ltd in respect of the proposals described.

# APPENDIX A

LOCATION PLAN

SITE SURVEY

PLANNING LAYOUT



**MWA Martin Walsh Architectural**

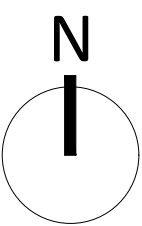
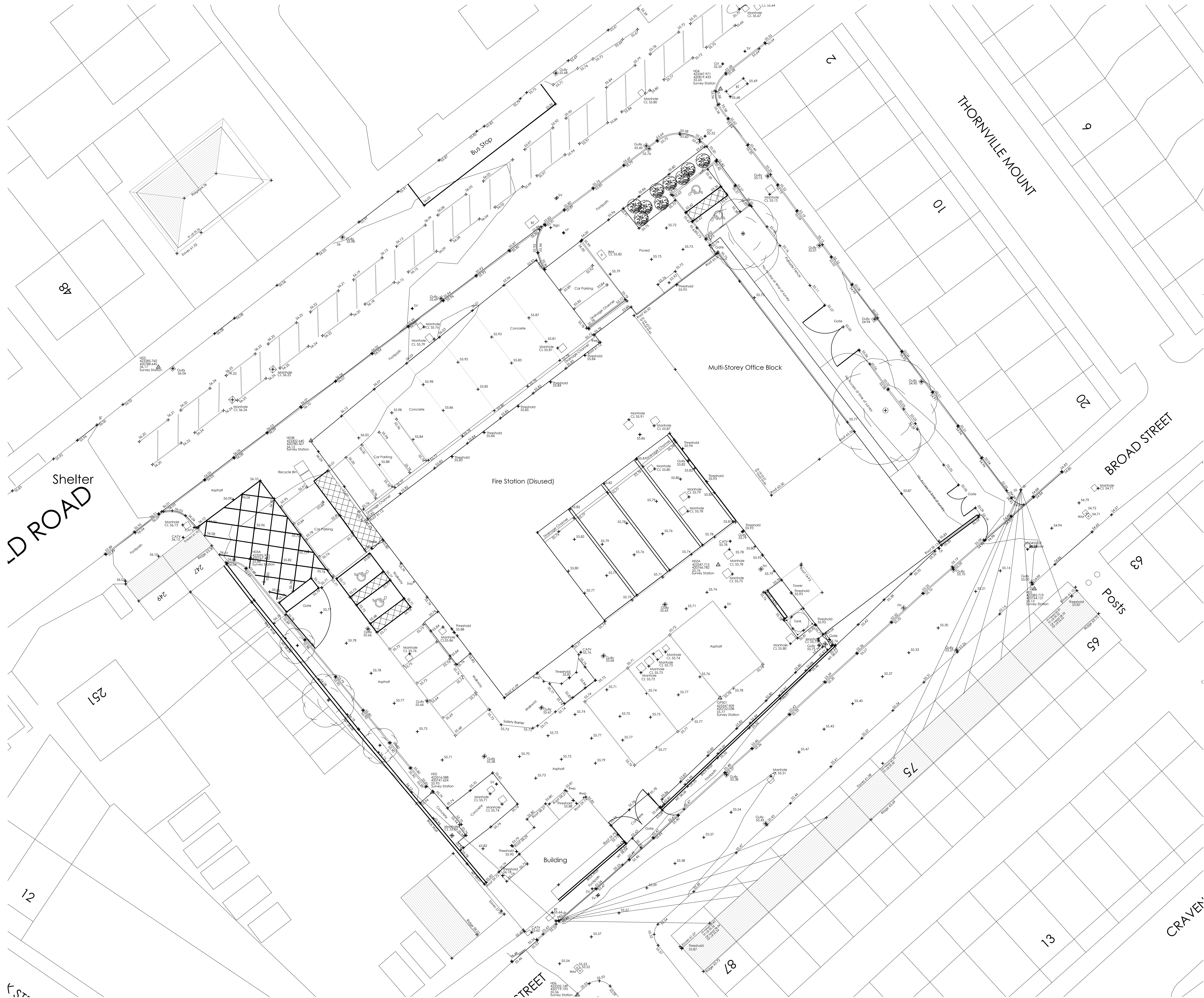
architecture ■ planning ■ engineering

Firth Buildings, 99 - 103 Leeds Rd, Dewsbury, WF12 7BU t: 01924 464342

e: info@martinwalsh.co.uk

w: www.martinwalsh.co.uk

|                                        |                       |                     |             |                                                        |         |
|----------------------------------------|-----------------------|---------------------|-------------|--------------------------------------------------------|---------|
| B                                      | Planning issue        | DLV                 | MW          | 22.03.17                                               |         |
| A                                      | First issue to client | DLV                 | MW          | 14.02.17                                               |         |
| Rev                                    | Description           |                     | Drawn       | Checked                                                | Date    |
| Document Status :                      |                       | Purpose of Issue:   |             | Client Approval                                        |         |
| S2                                     |                       | Planning            |             | X A - Approved<br>B - Approved w/com<br>C - Do not use |         |
| Title                                  |                       |                     |             |                                                        |         |
| Location Plan                          |                       |                     |             |                                                        |         |
| MWA project ref                        | Scale                 | Original Paper Size | Orientation | Drawn                                                  | Checked |
| 6002                                   | 1 : 1250              | @A4                 | Portrait    | DLV                                                    | MW      |
| Drawing Number:                        |                       |                     |             |                                                        |         |
| Revision                               |                       |                     |             |                                                        |         |
| GTDE - MWA - XX - XX - DR - A - 0001 B |                       |                     |             |                                                        |         |



Revisions:  
No. Comment Date By

Drawing Status:  
☐ Preliminary ☒ Planning Permission ☐ Building Regulation ☐ Tender ☐ Construction

**MWA** Martin Walsh Architectural  
architecture ■ planning ■ engineering  
Firth Buildings, 99-103 Leeds Road, Dewsbury, WF12 7BU t 01924 464342  
e info@martinwalsh.co.uk w www.martinwalsh.co.uk

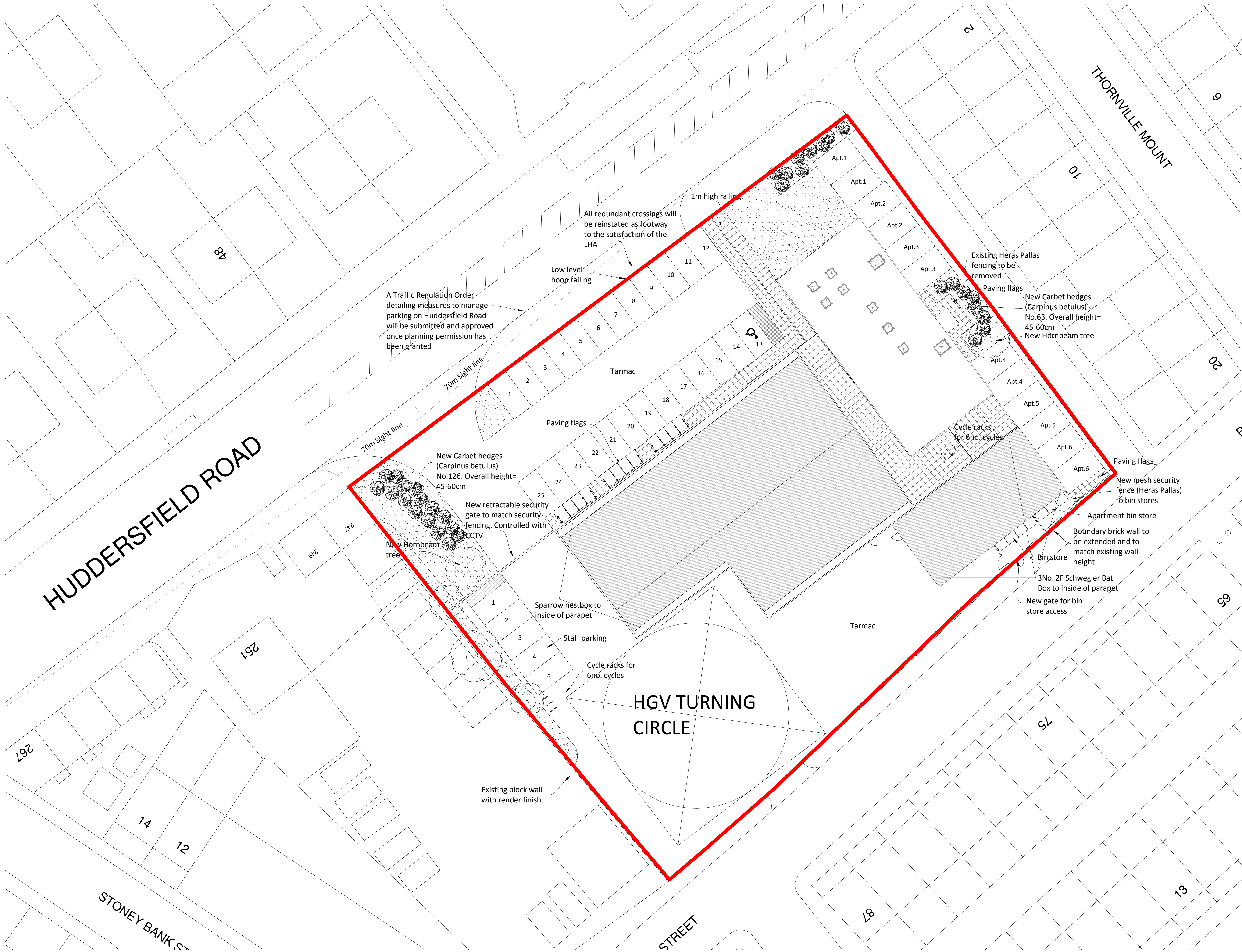
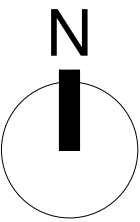
Job Title  
Proposed Development at Former Dewsbury Fire Station, Huddersfield Road, Dewsbury, WF13 3RN

Drawing Title  
Existing Site Survey

Client  
G-Tuft

| Drawn | Checked | Date  | Scale | Sheet Size | Drawing No.   | Rev. |
|-------|---------|-------|-------|------------|---------------|------|
| DLV   | MW      | 01/17 | 1:200 | A1         | 3/K16/6002/10 |      |

Copyright © 2017 Martin Walsh Architectural. All Rights Reserved.  
Martin Walsh Architectural is the trading name of Martin Walsh Architectural Limited. Registered in England Number 468069



| Rev | Planning Issue | Description | DLV | MD | 01/2018 |
|-----|----------------|-------------|-----|----|---------|
| A   |                |             |     |    |         |

Document Status: **S2** Purpose of Issue: **PLANNING**



Firth Buildings, 99 - 103 Leeds Rd, Dewsbury, WF12 7BU t: 01924 464342  
e: info@martinwalsh.co.uk w: www.martinwalsh.co.uk

Project: Proposed Development at Former Dewsbury Fire Station, Huddersfield Road, Dewsbury, WF13 3RN

Title: Proposed Site Plan

Client: G-Tuft

MWA Project: 6002 Scale: 1 : 200 Original Paper Size: @A1 Paper Orientation: Landscape Drawn: DLV

File Identifier: GTDE - MWA - XX - XX - DR - A - 0038 A

Copyright © 2018 Martin Walsh Architectural. All Rights Reserved. Martin Walsh Architectural is the trading name of Martin Walsh Architectural Limited. Registered in England Number 4496049

# APPENDIX B

## MINING REPORT

## GEOLOGICAL REPORT



The Coal  
Authority

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG

Website: [www.groundstability.com](http://www.groundstability.com) Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**PSA DESIGN  
OLD BANK HOUSE  
6 BERRY LANE  
LONGRIDGE  
PRESTON  
PR3 3JA**

|                                |                          |
|--------------------------------|--------------------------|
| Our reference:                 | <b>51001007993001</b>    |
| Your reference:                | <b>G2169</b>             |
| Date of your enquiry:          | <b>28 September 2015</b> |
| Date we received your enquiry: | <b>28 September 2015</b> |
| Date of issue:                 | <b>28 September 2015</b> |
| Grid Reference                 | <b>423326 420776</b>     |

This report is for the property described in the address below and the attached plan.

### **Non-Residential Coal Mining Consultants Report**

**FIRE STATION, HUDDERSFIELD ROAD, DEWSBURY, WF13 3RN**

This report is based on and limited to the records held by the Coal Authority, at the time we answer the search.

#### **Past underground mining**

| COLLIERY | SEAM           | MINERAL | PANEL | DEPTH (m) | DIRECTION TO WORKING | DISPOSITION | EXTRACTION THICKNESS (cm) | YEAR |
|----------|----------------|---------|-------|-----------|----------------------|-------------|---------------------------|------|
| unnamed  | MIDDLETON MAIN | Coal    | 6ZKR  | 54        | Beneath Property     | 0.0         | 94                        | 1872 |
| unnamed  | WHEATLEY LIME  | Coal    | 6ZKS  | 71        | NW                   | 0.2         | 79                        | 1890 |

| COLLIERY | SEAM          | MINERAL | PANEL | DEPTH (m) | DIRECTION TO WORKING | DISPOSITION | EXTRACTION THICKNESS (cm) | YEAR |
|----------|---------------|---------|-------|-----------|----------------------|-------------|---------------------------|------|
| unnamed  | WHEATLEY LIME | Coal    | 6ZFR  | 72        | Beneath Property     | 0.0         | 79                        | 1890 |
| unnamed  | SILKSTONE     | Coal    | 6ZKV  | 98        | Beneath Property     | 0.0         | 41                        | 1891 |
| unnamed  | WHINMOOR      | Coal    | 6ZL1  | 147       | Beneath Property     | 0.0         | 56                        | 1902 |
| unnamed  | BLACK BED     | Coal    | 6ZL6  | 239       | Beneath Property     | 0.0         | 76                        | 1893 |
| unnamed  | BLACK BED     | Coal    | 62N8  | 247       | N                    | 0.7         | 76                        | 1897 |
| unnamed  | BETTER BED    | Coal    | 62N4  | 277       | NW                   | 0.7         | 92                        | 1897 |
| unnamed  | BETTER BED    | Coal    | 6ZL9  | 281       | Beneath Property     | 0.0         | 92                        | 1897 |

#### **Probable unrecorded shallow workings**

Probable unrecorded coal workings at shallow depth.

#### **Outcrops**

No outcrops recorded.

#### **Spine roadways at shallow depth**

No spine roadway recorded at shallow depth.

#### **Future underground mining**

No future mining recorded.

#### **Licence details (AOR)**

No AOR recorded.

#### **Section 46 notices**

No current notification.

## Geology

No faults, fissures or breaklines recorded.

## Mine entries

| ENTRY TYPE | REFERENCE  | GRID<br>REFERENCE | TREATMENT DESCRIPTION | MINERAL | CONVEYANCE DETAILS |
|------------|------------|-------------------|-----------------------|---------|--------------------|
| Shaft      | 423420-004 | 423344 420750     |                       | Coal    |                    |
| Shaft      | 423420-001 | 423315 420786     |                       | Coal    |                    |
| Shaft      | 423420-002 | 423352 420760     |                       | Coal    |                    |

## Court orders

No court orders recorded.

## Worked out opencast sites

No worked out opencast site recorded.

## Coal mining related hazards

No coal mining related hazard recorded.

## Coal mining subsidence

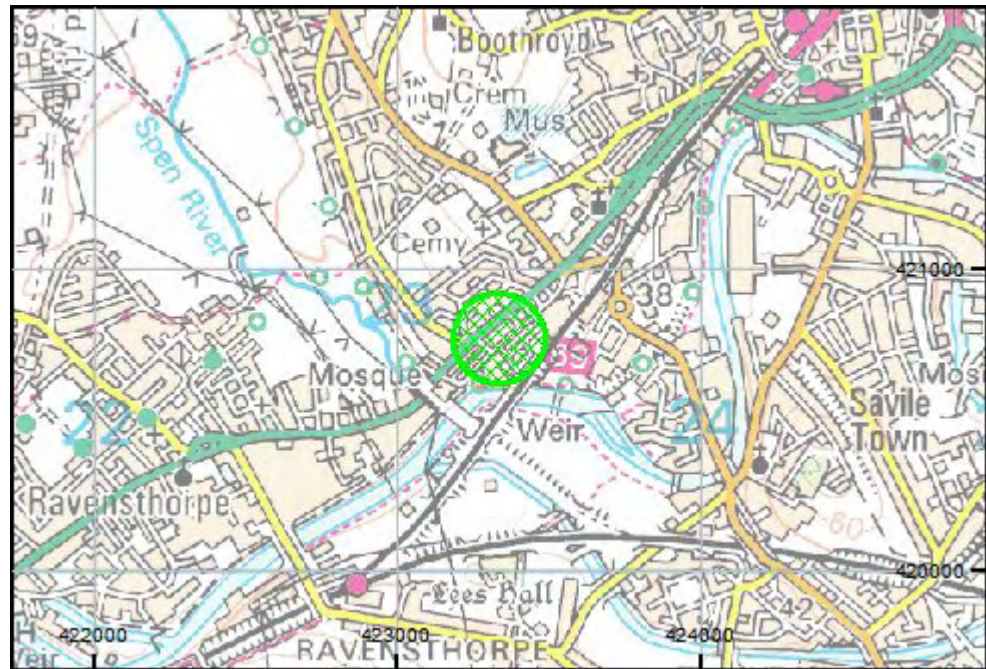
The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

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

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

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Issued by:           | The Coal Authority, 200 Lichfield Lane,<br>Mansfield, Nottinghamshire, NG18 4RG |
| Tax Point Date:      | 28 September 2015                                                               |
| Issued to:           | PSA DESIGN<br>OLD BANK HOUSE<br>6 BERRY LANE<br>LONGRIDGE<br>PRESTON<br>PR3 3JA |
| Property Search for: | FIRE STATION, HUDDERSFIELD<br>ROAD, DEWSBURY, WF13 3RN                          |
| Reference Number:    | 51001007993001                                                                  |
| Date of Issue:       | 28 September 2015                                                               |
| Cost:                | £64.00                                                                          |
| VAT @ 20%:           | £12.80                                                                          |
| Total Received:      | £76.80                                                                          |
| VAT Registration     | 598 5850 68                                                                     |

Location map



Approximate position of property 

This plan shows the approximate location of the disused mine entry / entries referred to in the attached mining report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by telephoning 0345 762 6848.

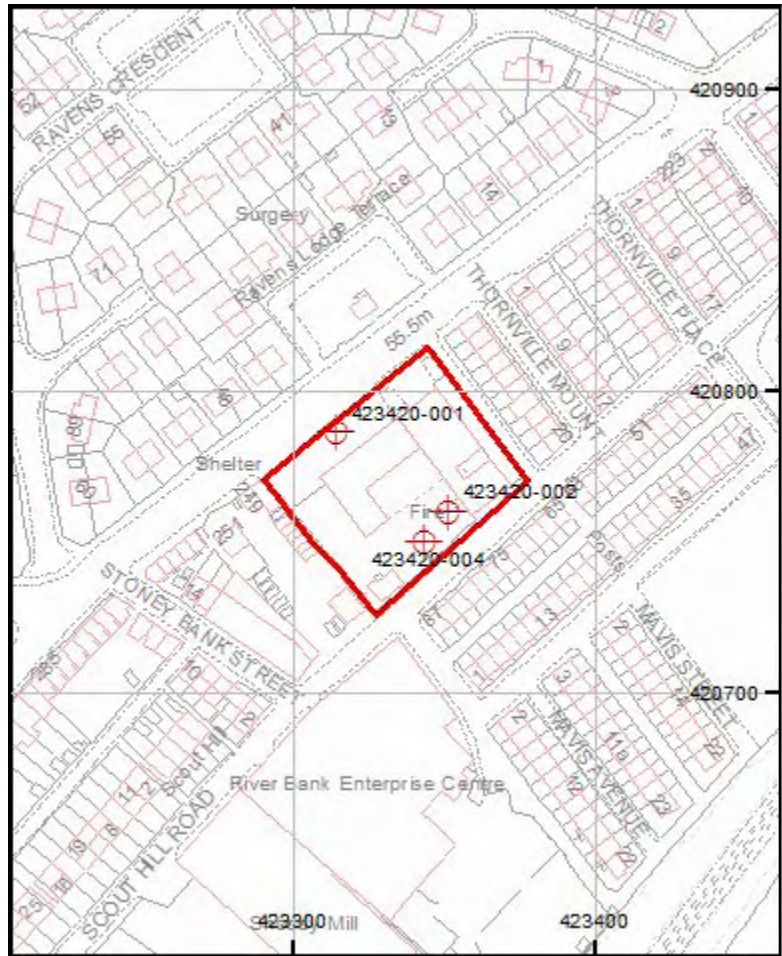
If you wish to discuss the relevance of any of the information contained in the attached report you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken these are available at our Mansfield office, free of charge by prior appointment, telephone 01623 637225. Should you or your advisor wish to carry out any physical investigations that may enter, disturb or interfere with any disused mine entry the prior permission of the owner must be sought. For coal mine entries the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries).

Our emergency telephone number at all times is 01623 646333.



Enquiry boundary



Reproduced by permission of Ordnance Survey on behalf of HMSO. © Crown copyright and database right 2015. All rights reserved. Ordnance Survey Licence number: 100020315

Approximate position of enquiry boundary shown 

Disused Adit or Mineshaft 



PSA Design

The Old Bank House, 6 Berry Lane,  
Longridge,  
Preston, PR33JA

Groundsure  
Reference:

HMD-336-2474668

Your Reference: G2169\_-\_Dewsbury\_FS

Report Date 1 Oct 2015

Report Delivery Method: Email - pdf

## Groundsure Geoinsight

Address: WEST YORKSHIRE FIRE & RESCUE SERVICE, FIRE STATION, HUDDERSFIELD ROAD,  
DEWSBURY, WF13 3RN

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Geoinsight** 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 Geoinsight

# Groundsure Geoinsight

**Address:** WEST YORKSHIRE FIRE & RESCUE SERVICE, FIRE STATION,  
HUDDERSFIELD ROAD, DEWSBURY, WF13 3RN

**Date:** 1 Oct 2015

**Reference:** HMD-336-2474668

**Client:** PSA Design

NW N NE



SW S SE

Aerial Photograph Capture date: 26-Mar-2012  
Grid Reference: 423331,420770  
Site Size: 0.37ha

# Contents Page

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| Overview of Findings.....                                                           | 5  |
| 1 Geology.....                                                                      | 8  |
| 1.1 Artificial Ground Map.....                                                      | 8  |
| 1 Geology.....                                                                      | 9  |
| 1.1 Artificial Ground.....                                                          | 9  |
| 1.1.1 Artificial/ Made Ground.....                                                  | 9  |
| 1.1.2 Permeability of Artificial Ground.....                                        | 9  |
| 1.2 Superficial Deposits and Landslips Map.....                                     | 10 |
| 1.2 Superficial Deposits and Landslips.....                                         | 11 |
| 1.2.1 Superficial Deposits/ Drift Geology.....                                      | 11 |
| 1.2.2 Permeability of Superficial Ground.....                                       | 11 |
| 1.2.3 Landslip.....                                                                 | 11 |
| 1.2.4 Landslip Permeability.....                                                    | 11 |
| 1.3 Bedrock and Faults Map.....                                                     | 12 |
| 1.3 Bedrock, Solid Geology & Faults.....                                            | 13 |
| 1.3.1 Bedrock/ Solid Geology.....                                                   | 13 |
| 1.3.2 Permeability of Bedrock Ground.....                                           | 13 |
| 1.3.3 Faults.....                                                                   | 14 |
| 1.4 Radon Data.....                                                                 | 15 |
| 1.4.1 Radon Affected Areas.....                                                     | 15 |
| 1.4.2 Radon Protection.....                                                         | 15 |
| 2 Ground Workings Map.....                                                          | 16 |
| 2 Ground Workings.....                                                              | 17 |
| 2.1 Historical Surface Ground Working Features derived from Historical Mapping..... | 17 |
| 2.2 Historical Underground Working Features derived from Historical Mapping.....    | 19 |
| 2.3 Current Ground Workings.....                                                    | 19 |
| 3 Mining, Extraction & Natural Cavities Map.....                                    | 21 |
| 3 Mining, Extraction & Natural Cavities.....                                        | 22 |
| 3.1 Historical Mining.....                                                          | 22 |
| 3.2 Coal Mining.....                                                                | 22 |
| 3.3 Johnson Poole and Bloomer.....                                                  | 22 |
| 3.4 Non-Coal Mining.....                                                            | 23 |
| 3.5 Non-Coal Mining Cavities.....                                                   | 23 |
| 3.6 Natural Cavities.....                                                           | 23 |
| 3.7 Brine Extraction.....                                                           | 23 |
| 3.8 Gypsum Extraction.....                                                          | 23 |
| 3.9 Tin Mining.....                                                                 | 24 |
| 3.10 Clay Mining.....                                                               | 24 |
| 4 Natural Ground Subsidence.....                                                    | 25 |
| 4.1 Shrink-Swell Clay Map.....                                                      | 25 |
| 4.2 Landslides Map.....                                                             | 26 |
| 4.3 Ground Dissolution Soluble Rocks Map.....                                       | 27 |
| 4.4 Compressible Deposits Map.....                                                  | 28 |
| 4.5 Collapsible Deposits Map.....                                                   | 29 |
| 4.6 Running Sand Map.....                                                           | 30 |
| 4 Natural Ground Subsidence.....                                                    | 31 |
| 4.1 Shrink-Swell Clays.....                                                         | 31 |
| 4.2 Landslides.....                                                                 | 31 |
| 4.3 Ground Dissolution of Soluble Rocks.....                                        | 31 |

|                                                  |    |
|--------------------------------------------------|----|
| 4.4 Compressible Deposits.....                   | 32 |
| 4.5 Collapsible Deposits.....                    | 32 |
| 4.6 Running Sands.....                           | 32 |
| 5 Borehole Records Map.....                      | 33 |
| 5 Borehole Records.....                          | 34 |
| 6 Estimated Background Soil Chemistry.....       | 35 |
| 7 Railways and Tunnels Map.....                  | 36 |
| 7 Railways and Tunnels.....                      | 37 |
| 7.1 Tunnels .....                                | 37 |
| 7.2 Historical Railway and Tunnel Features ..... | 37 |
| 7.3 Historical Railways.....                     | 38 |
| 7.4 Active Railways.....                         | 38 |
| 7.5 Railway Projects.....                        | 39 |

# Overview of Findings

The Groundsure Geosight 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 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow 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

|                                       |                                                                                                                                                                                                           |                                                                                                        |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1.1 Artificial Ground                 | 1.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?                                                                                                                         | No                                                                                                     |
|                                       | 1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary?                                                                                                | No                                                                                                     |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?                                                                                                                       | No                                                                                                     |
|                                       | 1.2.2 Are there any records relating to permeability of superficial geology within the study site boundary?                                                                                               | No                                                                                                     |
|                                       | 1.2.3 Are there any records of landslip within 500m of the study site boundary?                                                                                                                           | No                                                                                                     |
|                                       | 1.2.4 Are there any records relating to permeability of landslips within the study site boundary?                                                                                                         | No                                                                                                     |
| 1.3 Bedrock, Solid Geology & Faults   | 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 relating to permeability of bedrock within the study site boundary?                                                                                                           | Yes                                                                                                    |
|                                       | 1.3.3 Are there any records of faults within 500m of the study site boundary?                                                                                                                             | Yes                                                                                                    |
| 1.4 Radon data                        | 1.4.1 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 property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level |
|                                       | 1.4.2 Is the property in an area where Radon Protection Measures 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 2:Ground Workings                                               | On-site | 0-50m | 51-250 | 251-500      | 501-1000     |
|-------------------------------------------------------------------------|---------|-------|--------|--------------|--------------|
| 2.1 Historical Surface Ground Working Features from Small Scale Mapping | 4       | 2     | 36     | Not Searched | Not Searched |
| 2.2 Historical Underground Workings from Small Scale Mapping            | 1       | 0     | 0      | 0            | 4            |
| 2.3 Current Ground Workings                                             | 0       | 0     | 0      | 1            | 5            |

| Section 3: Mining, Extraction & Natural Cavities | On-site | 0-50m | 51-250 | 251-500 | 501-1000 |
|--------------------------------------------------|---------|-------|--------|---------|----------|
| 3.1 Historical Mining                            | 1       | 0     | 0      | 0       | 2        |
| 3.2 Coal Mining                                  | 1       | 0     | 0      | 0       | 0        |
| 3.3 Johnson Poole and Bloomer Mining Area        | 0       | 0     | 0      | 0       | 0        |
| 3.4 Non-Coal Mining                              | 0       | 0     | 0      | 0       | 0        |
| 3.5 Non-Coal Mining Cavities                     | 0       | 0     | 0      | 0       | 0        |
| 3.6 Natural Cavities                             | 0       | 0     | 0      | 0       | 0        |
| 3.7 Brine Extraction                             | 0       | 0     | 0      | 0       | 0        |
| 3.8 Gypsum Extraction                            | 0       | 0     | 0      | 0       | 0        |
| 3.9 Tin Mining                                   | 0       | 0     | 0      | 0       | 0        |
| 3.10 Clay Mining                                 | 0       | 0     | 0      | 0       | 0        |

| Section 4: Natural Ground Subsidence    | On-site    |
|-----------------------------------------|------------|
| 4.1 Shrink Swell Clay                   | Very Low   |
| 4.2 Landslides                          | Very Low   |
| 4.3 Ground Dissolution of Soluble Rocks | Negligible |
| 4.4 Compressible Deposits               | Negligible |
| 4.5 Collapsible Deposits                | Very Low   |
| 4.6 Running Sand                        | Negligible |

| Section 5: Borehole Records | On-site | 0-50m | 51-250 |
|-----------------------------|---------|-------|--------|
| 5 BGS Recorded Boreholes    | 0       | 1     | 4      |

| Section 6: Estimated Background Soil Chemistry | On-site | 0-50m | 51-250 |
|------------------------------------------------|---------|-------|--------|
| 6 Records of Background Soil Chemistry         | 2       | 1     | 23     |

| Section 7: Railways and Tunnels            | On-site | 0-50m | 51-250 | 251-500      |
|--------------------------------------------|---------|-------|--------|--------------|
| 7.1 Tunnels                                | 0       | 0     | 0      | Not Searched |
| 7.2 Historical Railway and Tunnel Features | 3       | 2     | 15     | Not Searched |
| 7.3 Historical Railways                    | 0       | 0     | 0      | Not Searched |
| 7.4 Active Railways                        | 0       | 0     | 7      | Not Searched |

| Section 7:Railways and Tunnels | On-site | 0-50m | 51-250 | 251-500 |
|--------------------------------|---------|-------|--------|---------|
| 7.5 Railway Projects           | 0       | 0     | 0      | 0       |

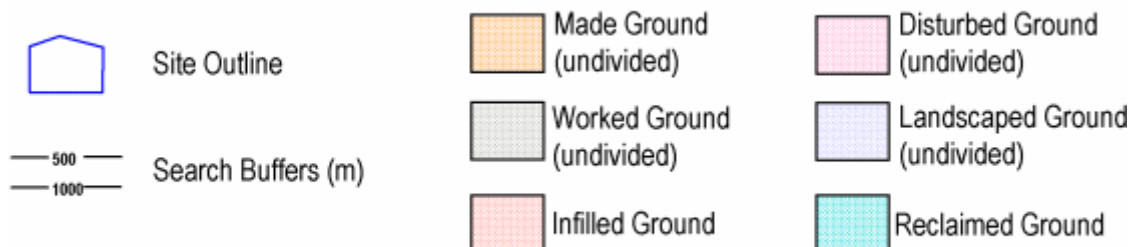
# 1 Geology

## 1.1 Artificial Ground Map



Artificial Ground Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



# 1 Geology

## 1.1 Artificial Ground

### 1.1.1 Artificial/ Made Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:077

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  | 213.0        | S         | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 2  | 253.0        | SW        | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 3  | 288.0        | SE        | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

### 1.1.2 Permeability of Artificial Ground

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

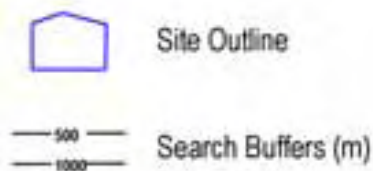
Database searched and no data found.

# 1.2 Superficial Deposits and Landslips Map



Superficial Deposits and Landslips  
Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



# 1.2 Superficial Deposits and Landslips

## 1.2.1 Superficial Deposits/ Drift Geology

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

| ID | Distance (m) | Direction | LEX Code | Description                               | Rock Description                                                 |
|----|--------------|-----------|----------|-------------------------------------------|------------------------------------------------------------------|
| 1A | 166.0        | S         | ALV      | ALLUVIUM                                  | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 3A | 166.0        | S         | ALV      | ALLUVIUM                                  | CLAY, SILT, SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME] |
| 2  | 446.0        | S         | RTDU     | RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) | SAND AND GRAVEL [UNLITHIFIED DEPOSITS CODING SCHEME]             |

## 1.2.2 Permeability of Superficial Ground

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

Database searched and no data found.

## 1.2.3 Landslip

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

Database searched and no data found.

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.

## 1.2.4 Landslip Permeability

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

Database searched and no data found.

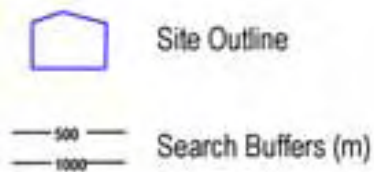
\* This includes an automatically generated 50m buffer zone around the site

# 1.3 Bedrock and Faults Map



Bedrock and Faults Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



# 1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:077

## 1.3.1 Bedrock/ Solid Geology

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

| ID  | Distance (m) | Direction | LEX Code  | Description                                                               | Rock Age    |
|-----|--------------|-----------|-----------|---------------------------------------------------------------------------|-------------|
| 1C  | 0.0          | On Site   | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 2B  | 0.0          | On Site   | BRSR-SDST | Birstall Rock - Sandstone                                                 | Langsettian |
| 3D  | 24.0         | NE        | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 4   | 62.0         | S         | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 5E  | 176.0        | NE        | LPE-SDST  | Lepton Edge Rock - Sandstone                                              | Langsettian |
| 6   | 178.0        | NE        | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 7   | 181.0        | NE        | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 8   | 276.0        | N         | ER-SDST   | Emley Rock - Sandstone                                                    | Langsettian |
| 9   | 281.0        | W         | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 10  | 301.0        | NW        | BRSR-SDST | Birstall Rock - Sandstone                                                 | Langsettian |
| 11F | 348.0        | NW        | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 12  | 375.0        | N         | BRSR-SDST | Birstall Rock - Sandstone                                                 | Langsettian |
| 13  | 408.0        | SW        | LPE-SDST  | Lepton Edge Rock - Sandstone                                              | Langsettian |
| 14  | 419.0        | N         | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian |
| 15  | 485.0        | SE        | LPE-SDST  | Lepton Edge Rock - Sandstone                                              | Langsettian |

## 1.3.2 Permeability of Bedrock Ground

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

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

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

### 1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary?

Yes

| ID  | Distance (m) | Direction | Category Description | Feature Description                   |
|-----|--------------|-----------|----------------------|---------------------------------------|
| 31B | 24.0         | NE        | ROCK                 | Coal seam, inferred                   |
| 32  | 62.0         | S         | FAULT                | Fault, inferred, displacement unknown |
| 33C | 65.0         | SW        | ROCK                 | Coal seam, inferred                   |
| 34  | 112.0        | SW        | ROCK                 | Coal seam, inferred                   |
| 35D | 157.0        | NE        | ROCK                 | Coal seam, inferred                   |
| 36  | 176.0        | NE        | FAULT                | Fault, inferred, displacement unknown |
| 37E | 194.0        | NE        | ROCK                 | Coal seam, inferred                   |
| 38  | 204.0        | SW        | ROCK                 | Coal seam, inferred                   |
| 39  | 256.0        | NE        | ROCK                 | Coal seam, inferred                   |
| 40  | 270.0        | E         | ROCK                 | Coal seam, inferred                   |
| 41  | 281.0        | W         | FAULT                | Fault, inferred, displacement unknown |
| 42  | 281.0        | W         | ROCK                 | Coal seam, inferred                   |
| 43  | 286.0        | SW        | ROCK                 | Coal seam, inferred                   |
| 44  | 308.0        | W         | ROCK                 | Coal seam, inferred                   |
| 45  | 333.0        | SE        | ROCK                 | Coal seam, inferred                   |
| 46F | 348.0        | NW        | ROCK                 | Coal seam, inferred                   |
| 47  | 458.0        | N         | ROCK                 | Coal seam, inferred                   |
| 48A | 470.0        | NW        | ROCK                 | Coal seam, 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 nationwide coverage.

# 1.4 Radon Data

## 1.4.1 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 in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level

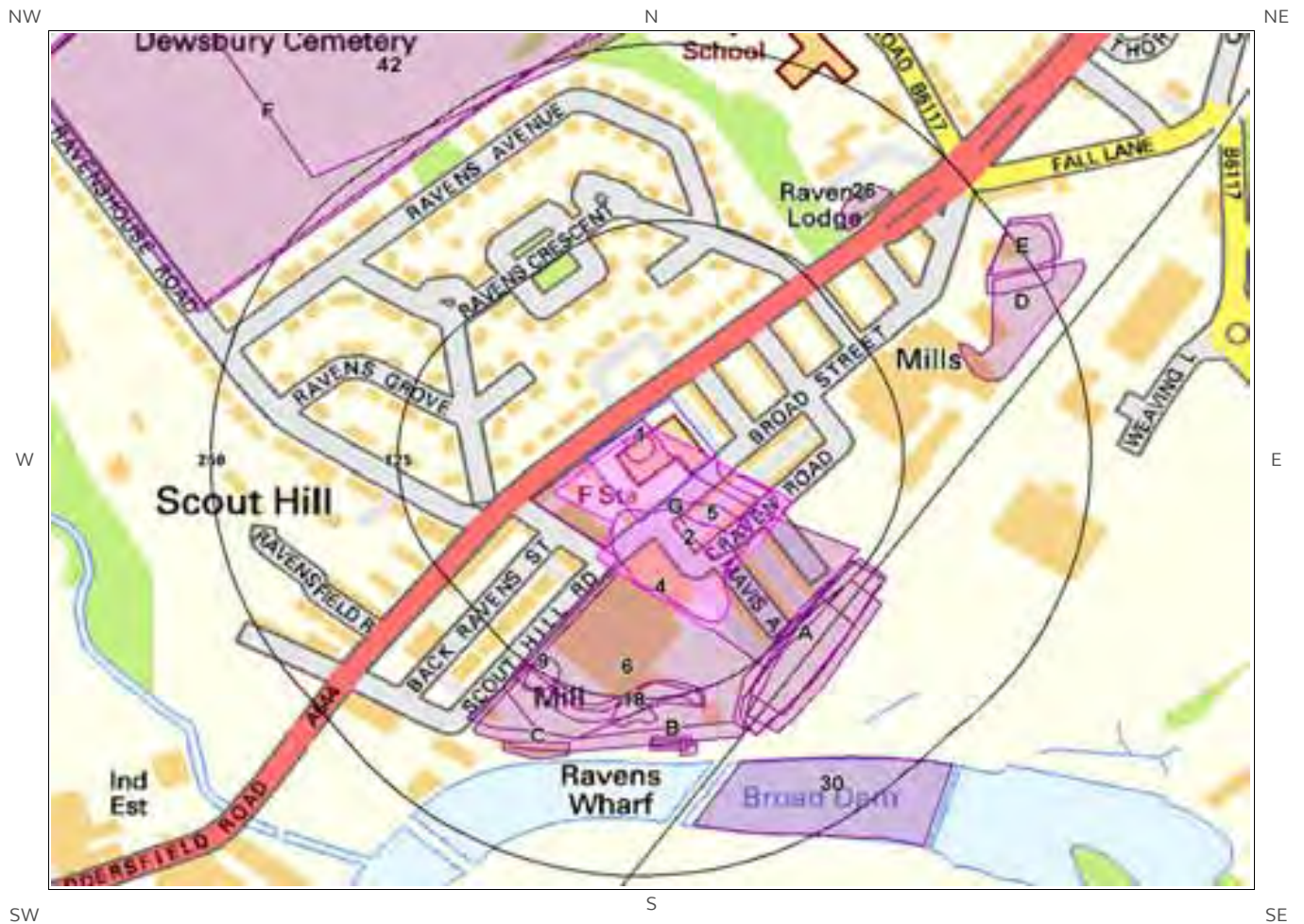
---

## 1.4.2 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

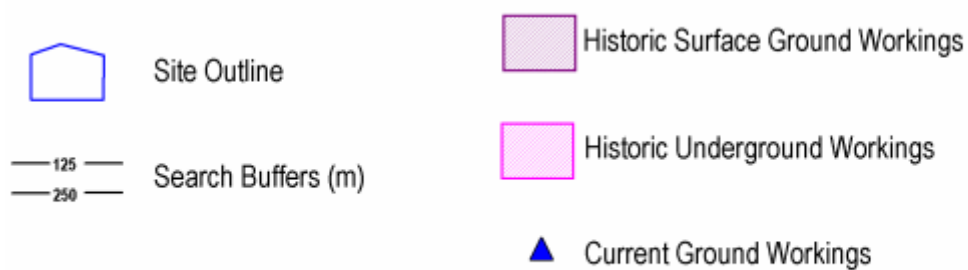
---

## 2 Ground Workings Map



Ground Workings Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



## 2 Ground Workings

### 2.1 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

The following Historical Surface Ground Working Features are provided by Groundsure:

| ID  | Distance (m) | Direction | NGR              | Use                         | Date |
|-----|--------------|-----------|------------------|-----------------------------|------|
| 1   | 0.0          | On Site   | 423326<br>420778 | Refuse Heap                 | 1892 |
| 2   | 0.0          | On Site   | 423362<br>420712 | Refuse Heap                 | 1892 |
| 3G  | 0.0          | On Site   | 423348<br>420722 | Colliery                    | 1892 |
| 4   | 0.0          | On Site   | 423341<br>420686 | Brick and Tile Works        | 1905 |
| 5   | 4.0          | SE        | 423372<br>420720 | Refuse Heap                 | 1905 |
| 6   | 39.0         | SW        | 423313<br>420607 | Brick and Tile Works        | 1892 |
| 7   | 113.0        | S         | 423260<br>420598 | Refuse Heap                 | 1905 |
| 8   | 113.0        | S         | 423269<br>420605 | Unspecified Ground Workings | 1951 |
| 9   | 114.0        | SW        | 423260<br>420619 | Refuse Heap                 | 1892 |
| 10A | 115.0        | SE        | 423439<br>420637 | Cuttings                    | 1905 |
| 11A | 116.0        | SE        | 423439<br>420637 | Cuttings                    | 1948 |
| 12A | 118.0        | SE        | 423440<br>420638 | Cuttings                    | 1951 |
| 13A | 121.0        | SE        | 423434<br>420631 | Cuttings                    | 1974 |
| 14A | 121.0        | SE        | 423434<br>420631 | Cuttings                    | 1988 |
| 15A | 121.0        | SE        | 423434<br>420631 | Cuttings                    | 1981 |
| 16A | 121.0        | SE        | 423434<br>420631 | Cuttings                    | 1967 |
| 17A | 125.0        | SE        | 423440<br>420630 | Cuttings                    | 1892 |
| 18  | 125.0        | S         | 423322<br>420591 | Refuse Heap                 | 1892 |
| 19B | 152.0        | S         | 423348<br>420571 | Unspecified Wharf           | 1967 |
| 20B | 152.0        | S         | 423348<br>420571 | Unspecified Wharf           | 1951 |

| ID  | Distance (m) | Direction | NGR              | Use                         | Date |
|-----|--------------|-----------|------------------|-----------------------------|------|
| 21B | 154.0        | S         | 423345<br>420568 | Unspecified Wharf           | 1948 |
| 22B | 154.0        | S         | 423345<br>420568 | Unspecified Wharf           | 1905 |
| 23B | 156.0        | S         | 423358<br>420567 | Unspecified Wharf           | 1974 |
| 24C | 163.0        | S         | 423257<br>420566 | Unspecified Wharf           | 1988 |
| 25C | 163.0        | S         | 423257<br>420566 | Unspecified Wharf           | 1981 |
| 26  | 167.0        | NE        | 423478<br>420946 | Unspecified Pit             | 1892 |
| 27D | 179.0        | E         | 423581<br>420868 | Unspecified Heap            | 1974 |
| 28D | 179.0        | E         | 423581<br>420868 | Unspecified Heap            | 1967 |
| 29D | 179.0        | E         | 423581<br>420868 | Unspecified Heap            | 1951 |
| 30  | 182.0        | S         | 423448<br>420529 | Water Body                  | 1951 |
| 31E | 214.0        | NE        | 423580<br>420911 | Unspecified Ground Workings | 1948 |
| 32E | 223.0        | NE        | 423584<br>420921 | Unspecified Heap            | 1967 |
| 33E | 223.0        | NE        | 423584<br>420921 | Unspecified Heap            | 1951 |
| 34E | 223.0        | NE        | 423584<br>420921 | Unspecified Heap            | 1974 |
| 35F | 237.0        | NW        | 423126<br>421054 | Cemetery                    | 1948 |
| 36F | 237.0        | NW        | 423126<br>421054 | Cemetery                    | 1905 |
| 37F | 240.0        | NW        | 423132<br>421060 | Cemetery                    | 1951 |
| 38F | 240.0        | NW        | 423132<br>421060 | Cemetery                    | 1981 |
| 39F | 240.0        | NW        | 423132<br>421060 | Cemetery                    | 1988 |
| 40F | 240.0        | NW        | 423132<br>421060 | Cemetery                    | 1967 |
| 41F | 240.0        | NW        | 423132<br>421060 | Cemetery                    | 1974 |
| 42  | 242.0        | NW        | 423171<br>421098 | Cemetery                    | 1892 |

## 2.2 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 |
|-----------|--------------|-----------|------------------|----------|------|
| 43G       | 0.0          | On Site   | 423348<br>420722 | Colliery | 1892 |
| Not shown | 809.0        | E         | 424253<br>420726 | Tunnel   | 1951 |
| Not shown | 811.0        | E         | 424248<br>420730 | Tunnel   | 1967 |
| Not shown | 938.0        | NW        | 422910<br>421760 | Colliery | 1905 |
| Not shown | 990.0        | N         | 422921<br>421840 | Colliery | 1892 |

## 2.3 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 | 427.0        | S         | 423300<br>420300 | Sand & Gravel      | Thornhill        | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 678.0        | N         | 423554<br>421458 | Sandstone          | Daw Green        | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 739.0        | E         | 424114<br>420825 | Sandstone          | Fernley's Wood   | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 879.0        | NE        | 423831<br>421546 | Sandstone          | Daw Green        | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 905.0        | N         | 423535<br>421698 | Sandstone          | Boothroyd        | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |
| Not shown | 959.0        | NE        | 423822<br>421645 | Sandstone          | Boothroyd Quarry | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |



# 3 Mining, Extraction & Natural Cavities Map



Mining, Extraction and  
Natural Cavities Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



# 3 Mining, Extraction & Natural Cavities

## 3.1 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 |
|-----------|--------------|-----------|------------------|----------|------|
| 1         | 0.0          | On Site   | 423348<br>420722 | Colliery | 1892 |
| Not shown | 938.0        | NW        | 422910<br>421760 | Colliery | 1905 |
| Not shown | 990.0        | N         | 422921<br>421840 | Colliery | 1892 |

## 3.2 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 study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848. |

## 3.3 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? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

### 3.4 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.

---

### 3.5 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.

---

### 3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

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

Database searched and no data found.

---

### 3.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of 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.

---

### 3.8 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.

---

### 3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

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

Database searched and no data found.

---

### 3.10 Clay Mining

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

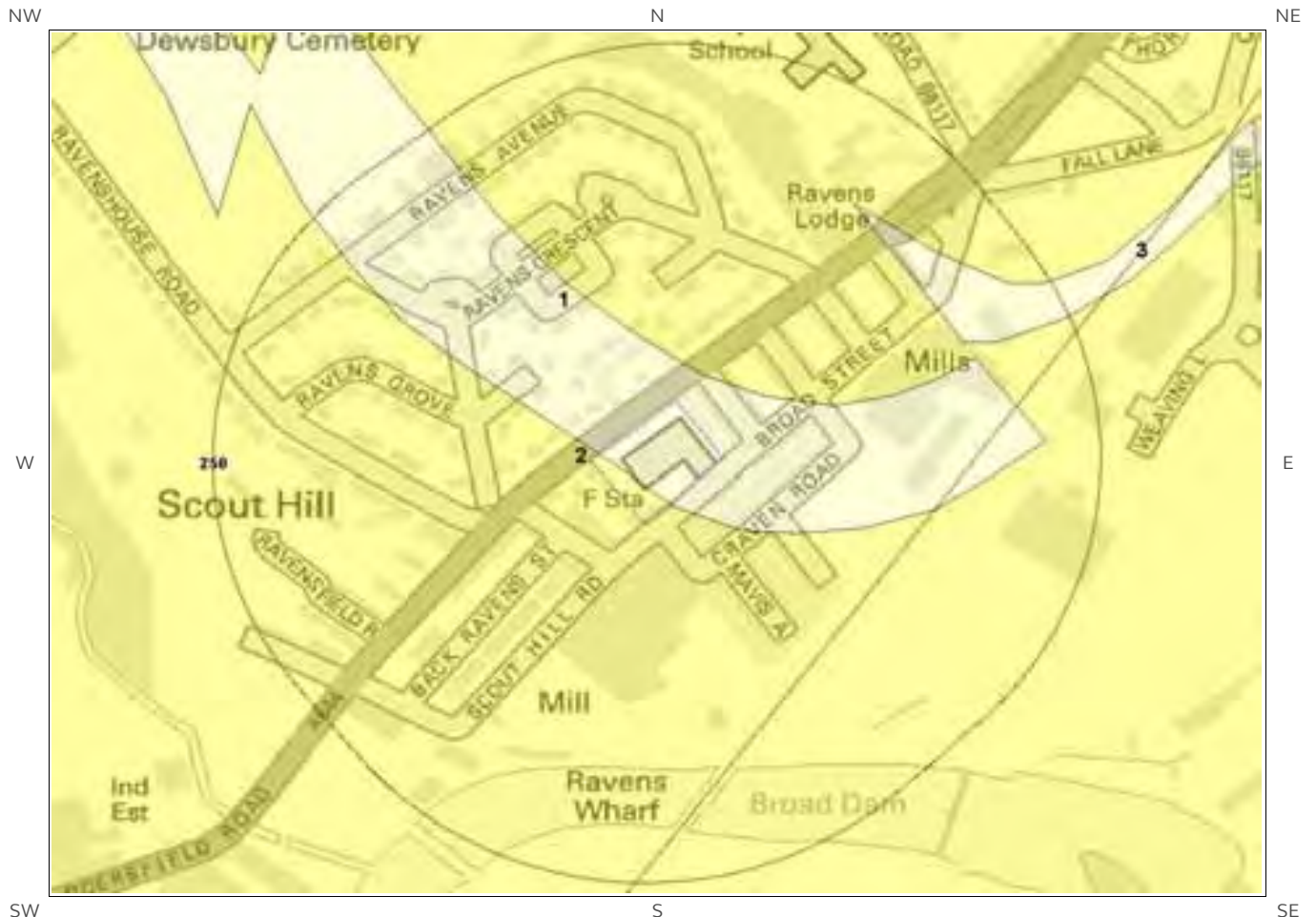
Are there any Clay Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

# 4 Natural Ground Subsidence

## 4.1 Shrink-Swell Clay Map



Shrink Swell Clay Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



## 4.2 Landslides Map



Landslides Legend

© Crown copyright and database rights 2015.  
 Ordnance Survey license 100035207.



## 4.3 Ground Dissolution Soluble Rocks Map



## 4.4 Compressible Deposits Map

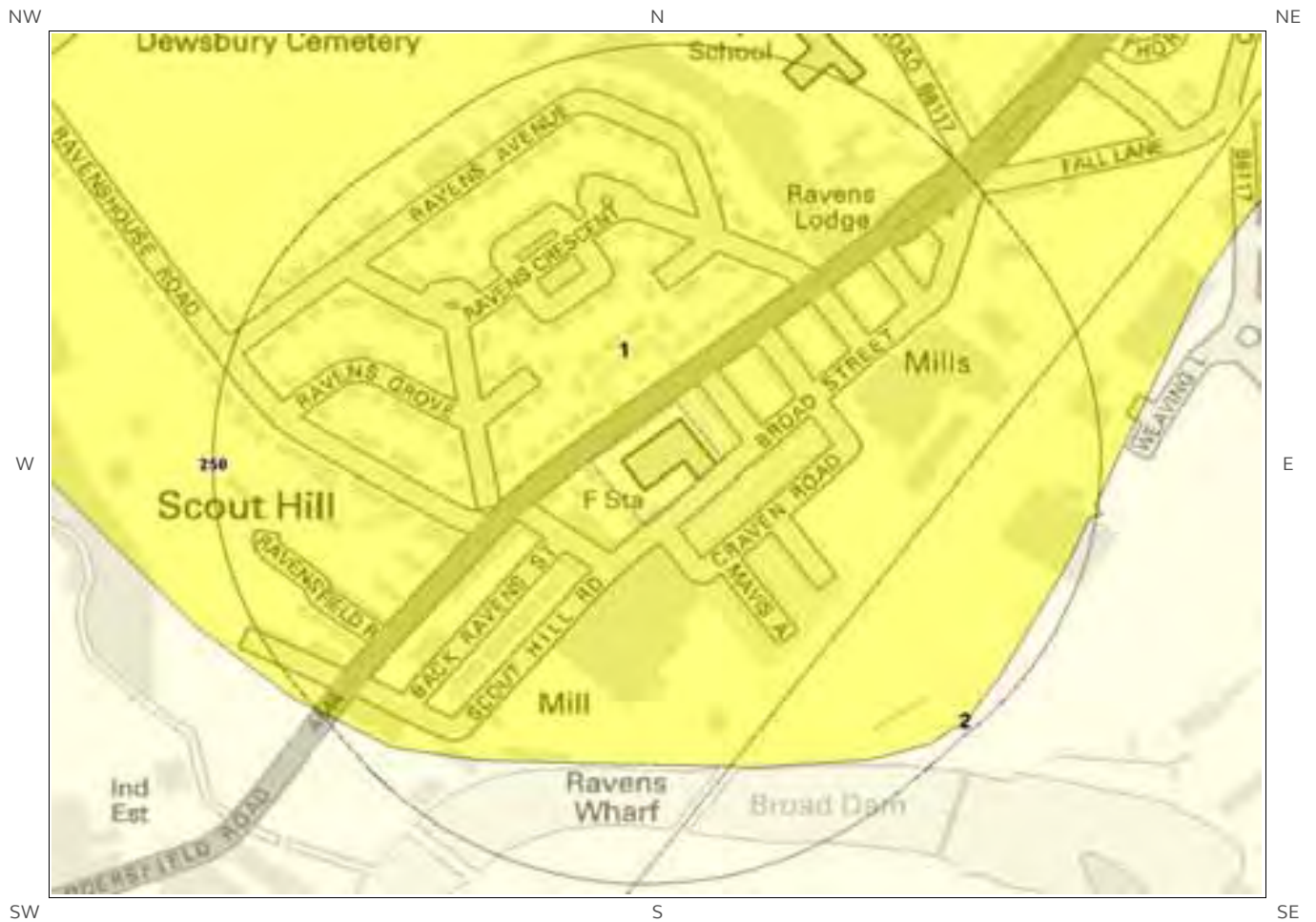


Compressible Deposits Legend

© Crown copyright and database rights 2015.  
 Ordnance Survey license 100035207.



## 4.5 Collapsible Deposits Map



Collapsible Deposits Legend

© Crown copyright and database rights 2015.  
 Ordnance Survey license 100035207.



## 4.6 Running Sand Map



Running Sand Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



## 4 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**

### 4.1 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   | Negligible    | Ground conditions predominantly non-plastic. 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.    |
| 2  | 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. |

### 4.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                 |
|----|--------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 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. |

### 4.3 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

#### 4.4 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 ground identified. No special actions required to avoid problems due to compressible ground. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible ground. |

#### 4.5 Collapsible Deposits

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

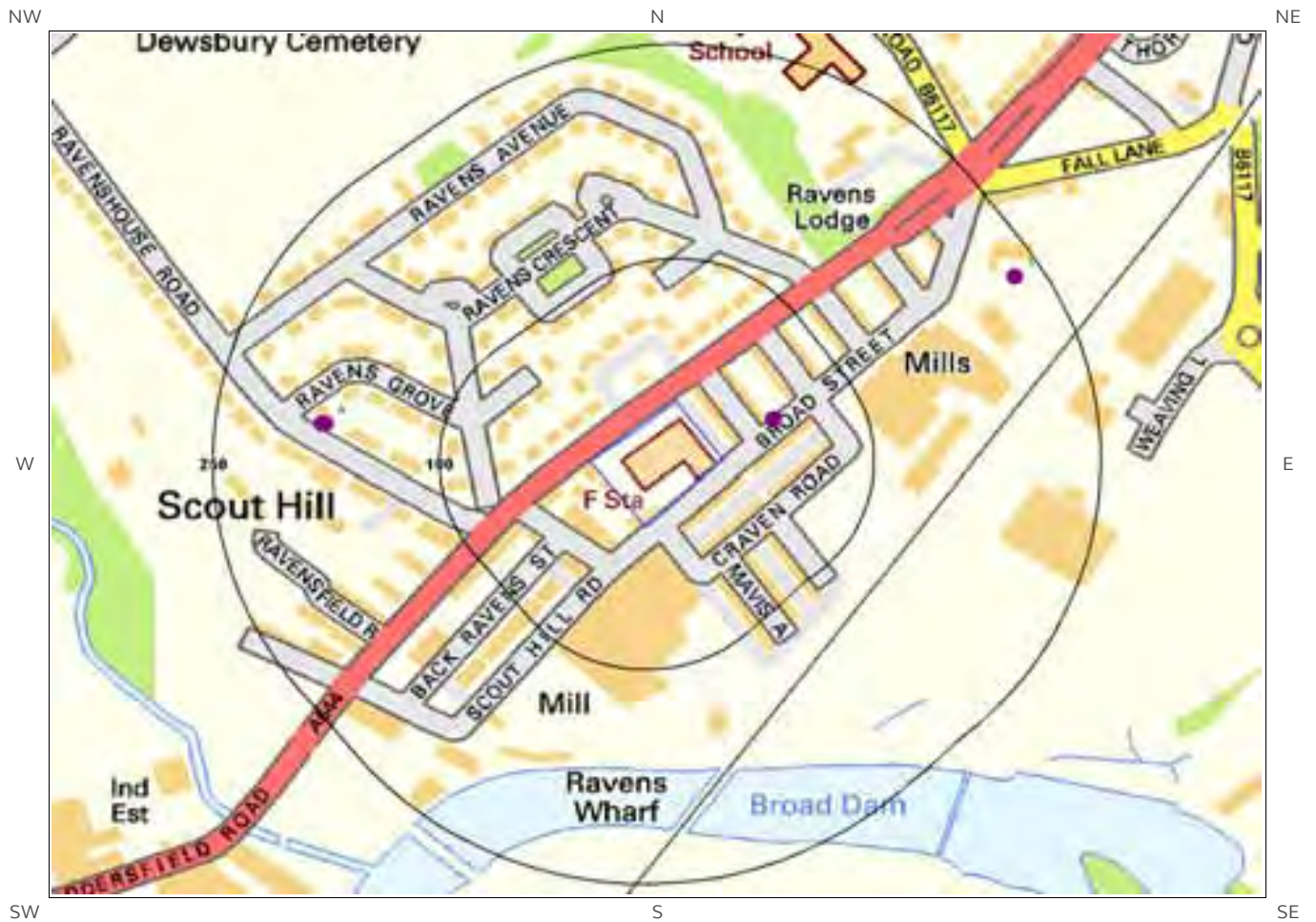
| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                             |
|----|--------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |

#### 4.6 Running Sands

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

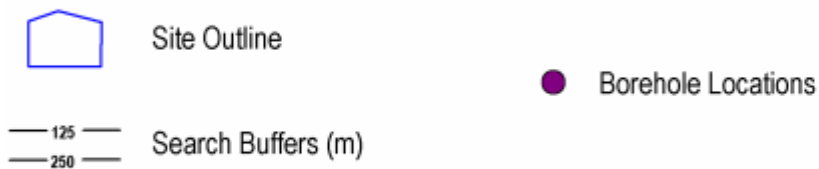
| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                         |
|----|--------------|-----------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Negligible    | No indicators for running sand identified. 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. |

# 5 Borehole Records Map



Borehole Records Legend

© Crown copyright and database rights 2015.  
 Ordnance Survey license 100035207.



## 5 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:

5

| ID | Distance (m) | Direction | NGR              | BGS Reference | Drilled Length | Borehole Name                                      |
|----|--------------|-----------|------------------|---------------|----------------|----------------------------------------------------|
| 1  | 43.0         | NE        | 423410<br>420800 | SE22SW960     | 287.0          | RAVENSLODGE COLLIERY                               |
| 2A | 178.0        | W         | 423113<br>420797 | SE22SW1587    | 0.9            | 22 RAVENSHOUSE ROAD,<br>SCOUT HILL DEWSBURY<br>TP2 |
| 3A | 180.0        | W         | 423111<br>420797 | SE22SW1585    | 2.6            | 22 RAVENSHOUSE ROAD,<br>SCOUT HILL DEWSBURY<br>1   |
| 4A | 180.0        | W         | 423111<br>420797 | SE22SW1586    | 0.8            | 22 RAVENSHOUSE ROAD,<br>SCOUT HILL DEWSBURY<br>TP1 |
| 5  | 232.0        | NE        | 423570<br>420900 | SE22SW26/A-D  | -1.0           | 4BHS FRANK<br>RICHARDSON<br>(TRANSPORT) LTD        |

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.

#1: [scans.bgs.ac.uk/sobi\\_scans/boreholes/78444](https://scans.bgs.ac.uk/sobi_scans/boreholes/78444)  
 #2A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18907820](https://scans.bgs.ac.uk/sobi_scans/boreholes/18907820)  
 #3A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18907818](https://scans.bgs.ac.uk/sobi_scans/boreholes/18907818)  
 #4A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/18907819](https://scans.bgs.ac.uk/sobi_scans/boreholes/18907819)  
 #5: [scans.bgs.ac.uk/sobi\\_scans/boreholes/77510](https://scans.bgs.ac.uk/sobi_scans/boreholes/77510)

# 6 Estimated Background Soil Chemistry

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

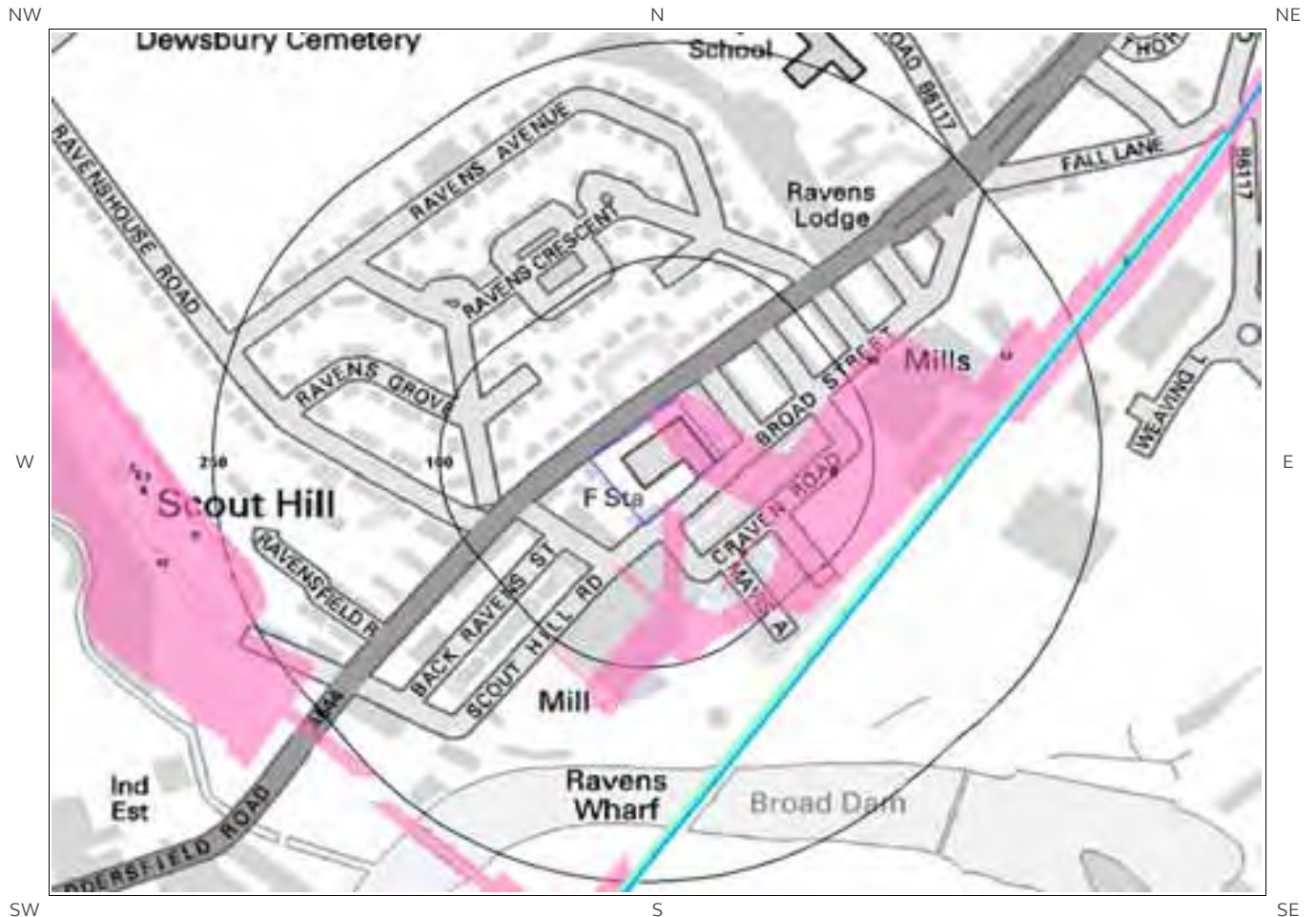
26

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geosight 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   | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 24.0         | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 62.0         | S         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 123.0        | E         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 129.0        | E         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 132.0        | E         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 142.0        | SE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 166.0        | S         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 120 - 180 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 176.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 176.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 178.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 181.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 187.0        | N         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 187.0        | N         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 192.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 203.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 203.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 226.0        | S         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 120 - 180 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 232.0        | SE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 120 - 180 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 242.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 242.0        | NE        | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 60 - 90 mg/kg   | 15 - 30 mg/kg | <100 mg/kg |
| 246.0        | E         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 120 - 180 mg/kg | 30 - 45 mg/kg | <100 mg/kg |
| 247.0        | NW        | RuralSoil   | 35 - 45 mg/kg | <1.8 mg/kg   | 90 - 120 mg/kg  | 30 - 45 mg/kg | <100 mg/kg |
| 247.0        | NW        | RuralSoil   | 35 - 45 mg/kg | <1.8 mg/kg   | 90 - 120 mg/kg  | 30 - 45 mg/kg | <100 mg/kg |
| 248.0        | E         | RuralSoil   | 25 - 35 mg/kg | <1.8 mg/kg   | 120 - 180 mg/kg | 30 - 45 mg/kg | <100 mg/kg |

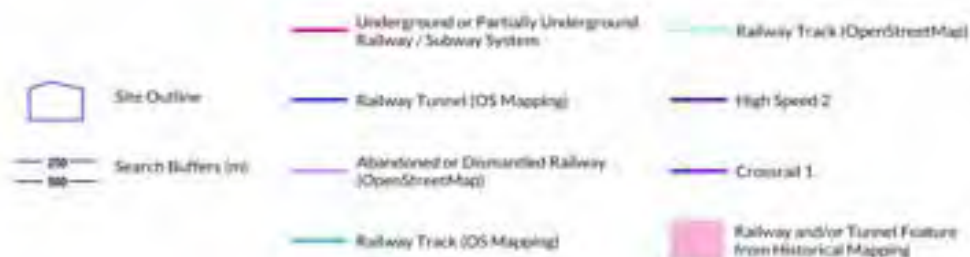
\*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# 7 Railways and Tunnels Map



Railways and Tunnels Legend

© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.  
© OpenStreetMapContributors



# 7 Railways and Tunnels

## 7.1 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.*

## 7.2 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? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

| ID  | Distance (m) | Direction | NGR              | Details         | Date |
|-----|--------------|-----------|------------------|-----------------|------|
| 1B  | 0            | On Site   | 423459<br>420745 | Railway Sidings | 1905 |
| 7B  | 0            | On Site   | 423461<br>420745 | Railway Sidings | 1907 |
| 8   | 0            | On Site   | 423336<br>420678 | Railway Sidings | 1893 |
| 2   | 3            | SE        | 423342<br>420665 | Railway Sidings | 1892 |
| 9   | 49           | SE        | 423391<br>420705 | Railway Sidings | 1907 |
| 10  | 93           | NE        | n/a              | Railway         | 1907 |
| 11C | 173          | E         | n/a              | Railway         | 1894 |

| ID  | Distance (m) | Direction | NGR              | Details         | Date |
|-----|--------------|-----------|------------------|-----------------|------|
| 12  | 174          | E         | n/a              | Railway         | 1907 |
| 13C | 190          | E         | n/a              | Railway         | 1907 |
| 14  | 230          | S         | n/a              | Railway         | 1937 |
| 15  | 232          | SW        | n/a              | Railway         | 1938 |
| 3   | 234          | W         | 422981<br>420784 | Railway Sidings | 1955 |
| 4A  | 234          | W         | 422972<br>420787 | Railway Sidings | 1892 |
| 5A  | 239          | W         | 422968<br>420790 | Railway Sidings | 1938 |
| 16D | 245          | SW        | 423032<br>420721 | Railway Sidings | 1955 |
| 6   | 246          | SW        | 422989<br>420758 | Railway Sidings | 1948 |
| 17D | 247          | SW        | 423031<br>420723 | Railway Sidings | 1954 |
| 18E | 248          | SW        | 422961<br>420778 | Railway Sidings | 1922 |
| 19E | 248          | SW        | 422961<br>420778 | Railway Sidings | 1933 |
| 20E | 249          | SW        | 422961<br>420778 | Railway Sidings | 1938 |

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

### 7.3 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.

Note: 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.*

### 7.4 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        |
|--------------|-----------|-------------------|-------------|
| 128          | SE        | Huddersfield Line | Rail        |
| 132          | SE        | Not given         | Rail        |
| 132          | SE        | Not given         | Multi Track |

| Distance (m) | Direction | Name              | Type |
|--------------|-----------|-------------------|------|
| 167          | S         | Huddersfield Line | Rail |
| 170          | S         | Not given         | Rail |
| 221          | S         | Huddersfield Line | Rail |
| 224          | S         | Not given         | Rail |

Note: 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.

## 7.5 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? No

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.

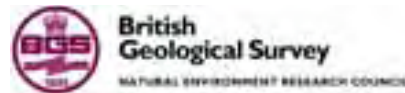
# Contact Details

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](mailto:enquiries@bgs.ac.uk)  
Web: [www.bgs.ac.uk](http://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](http://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](mailto: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](mailto:enquiries.gs@jpb.co.uk)  
Website: [www.jpb.co.uk](http://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/>



# Contact Details

---

**Peter Brett Associates**

Caversham Bridge House  
Waterman Place  
Reading  
Berkshire RG1 8DN

Tel: +44 (0)118 950 0761 E-mail: [reading@pba.co.uk](mailto: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

### 1 Definitions

In these terms and conditions unless the context otherwise requires:

**“Beneficiary”** means the person or entity for whose benefit the Client has obtained the Services.

**“Client”** means the party or parties entering into a Contract with Groundsure.

**“Commercial”** means any building or property which is not Residential.

**“Confidential Information”** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**“Support Services”** means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**“Contract”** means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**“Third Party Data Provider”** means any third party providing Third Party Content to Groundsure.

**“Data Reports”** means reports comprising factual data with no accompanying interpretation.

**“Fees”** has the meaning set out in clause 5.1.

**“Groundsure”** means Groundsure Limited, a company registered in England and Wales under number 03421028.

**“Groundsure Materials”** means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**“Intellectual Property”** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**“Mapping”** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**“Order”** means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.

**“Ordnance Survey”** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**“Order Website”** means the online platform through which Orders may be placed by the Client and accepted by Groundsure.

**“Report”** means a Risk Screening Report or Data Report for Commercial or Residential property.

**“Residential”** means any building or property used as or intended to be used as a single dwelling.

**“Risk Screening Report”** means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.

**“Services”** means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.

**“Site”** means the area of land in respect of which the Client has requested Groundsure to provide the Services.

**“Third Party Content”** means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.

**“User Guide”** means the user guide, as amended from time to time, available upon request from Groundsure and on the website ([www.Groundsure.com](http://www.Groundsure.com)) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.

2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure.

Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

### 3 The Client's obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1 The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

(i) the Beneficiary,  
(ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),  
(iv) the first purchaser or first tenant of the Site, and  
(v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1 Groundsure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together “Fees”).

5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client (“Payment Date”). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

### 6 Intellectual Property and Confidentiality

6.1 Subject to

(i) full payment of all relevant Fees and  
(ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.

6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure

acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

## **7.Liability: Particular Attention Should Be Paid To This Clause**

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 Groundsure shall not be liable for

(i) loss of profits;

(ii) loss of business;

(iii) depletion of goodwill and/or similar losses;

(iv) loss of anticipated savings;

(v) loss of goods;

(vi) loss of contract;

(vii) loss of use;

(viii) loss or corruption of data or information;

(ix) business interruption;

(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;

(xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;

(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;

(xiii) loss or damage to a computer, software, modem, telephone or other property; and

(xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

## **8 Groundsure's right to suspend or terminate**

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

## **9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event  
(b) by their nature cannot be returned.

## **10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

## **11 Anti-Bribery**

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

## **12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.

12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.

12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

- (i) the Client or Beneficiary's failure to provide facilities, access or information;
- (ii) fire, storm, flood, tempest or epidemic;
- (iii) Acts of God or the public enemy;
- (iv) riot, civil commotion or war;
- (v) strikes, labour disputes or industrial action;
- (vi) acts or regulations of any governmental or other agency;
- (vii) suspension or delay of services at public registries by Third Party Data Providers;
- (viii) changes in law; or
- (ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law

# APPENDIX C

## GROUNDSURE REPORT

### HISTORICAL MAPS



PSA Design

The Old Bank House, 6 Berry Lane,  
Longridge,  
Preston, PR33JA

Groundsure  
Reference:

HMD-336-2474667

Your Reference: G2169\_-\_Dewsbury\_FS

Report Date 1 Oct 2015

Report Delivery Method: Email - pdf

## Groundsure Enviroinsight

Address: WEST YORKSHIRE FIRE & RESCUE SERVICE, FIRE STATION, HUDDERSFIELD ROAD,  
DEWSBURY, WF13 3RN

Dear Sir/ Madam,

Thank you for placing your order with Groundsure. Please find enclosed the **Groundsure Enviroinsight** 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



# Groundsure Enviroinsight

Address: WEST YORKSHIRE FIRE & RESCUE SERVICE, FIRE STATION, HUDDERSFIELD ROAD,  
DEWSBURY, WF13 3RN

Date: 1 Oct 2015

Reference: HMD-336-2474667

Client: PSA Design

NW

N

NE

W

E



SW

S

SE

Aerial Photograph Capture date: 26-Mar-2012

Grid Reference: 423331,420770

Site Size: 0.37ha

# 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                                                                            | 16 |
| 1.3 Additional Information – Historical Energy Features Database                                                                 | 18 |
| 1.4 Additional Information – Historical Petrol and Fuel Site Database                                                            | 18 |
| 1.5 Additional Information – Historical Garage and Motor Vehicle Repair Database                                                 | 19 |
| 1.6 Potentially Infilled Land                                                                                                    | 19 |
| 2. Environmental Permits, Incidents and Registers Map                                                                            | 22 |
| 2. Environmental Permits, Incidents and Registers                                                                                | 23 |
| 2.1 Industrial Sites Holding Licences and/or Authorisations                                                                      | 23 |
| 2.1.1 Records of historic IPC Authorisations within 500m of the study site                                                       | 23 |
| 2.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site                                          | 23 |
| 2.1.3 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site | 24 |
| 2.1.4 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site                                       | 24 |
| 2.1.5 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site                                        | 24 |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site                                  | 25 |
| 2.1.7 Records of Category 3 or 4 Radioactive Substances Authorisations                                                           | 25 |
| 2.1.8 Records of Licensed Discharge Consents within 500m of the study site                                                       | 25 |
| 2.1.9 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site     | 28 |
| 2.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site                           | 28 |
| 2.2 Dangerous or Hazardous Sites                                                                                                 | 28 |
| 2.3 Environment Agency Recorded Pollution Incidents                                                                              | 29 |
| 2.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site                                       | 29 |
| 2.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site                                       | 30 |
| 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990                                                                 | 30 |
| 3. Landfill and Other Waste Sites Map                                                                                            | 31 |
| 3. Landfill and Other Waste Sites                                                                                                | 32 |
| 3.1 Landfill Sites                                                                                                               | 32 |
| 3.1.1 Records from Environment Agency landfill data within 1000m of the study site                                               | 32 |
| 3.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site                                       | 32 |
| 3.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site                                           | 34 |
| 3.1.4 Records of Landfills from Local Authority and Historical Mapping Records within 1500m of the study site                    | 34 |
| 3.2 Other Waste Sites                                                                                                            | 35 |
| 3.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site                                       | 35 |
| 3.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site                                          | 36 |
| 4. Current Land Use Map                                                                                                          | 42 |
| 4. Current Land Uses                                                                                                             | 43 |
| 4.1 Current Industrial Data                                                                                                      | 43 |
| 4.2 Petrol and Fuel Sites                                                                                                        | 44 |
| 4.3 National Grid High Voltage Underground Electricity Transmission Cables                                                       | 44 |
| 4.4 National Grid High Pressure Gas Transmission Pipelines                                                                       | 44 |
| 5. Geology                                                                                                                       | 45 |

|                                                                                                                                                |    |
|------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 5.1 Artificial Ground and Made Ground.....                                                                                                     | 45 |
| 5.2 Superficial Ground and Drift Geology .....                                                                                                 | 45 |
| 5.3 Bedrock and Solid Geology .....                                                                                                            | 45 |
| 6 Hydrogeology and Hydrology .....                                                                                                             | 46 |
| 6a. Aquifer Within Superficial Geology .....                                                                                                   | 46 |
| 6b. Aquifer Within Bedrock Geology and Abstraction Licenses .....                                                                              | 47 |
| 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses .....                                                        | 48 |
| 6d. Hydrogeology – Source Protection Zones within confined aquifer .....                                                                       | 49 |
| 6e. Hydrology – Detailed River Network and River Quality .....                                                                                 | 50 |
| 6. Hydrogeology and Hydrology .....                                                                                                            | 51 |
| 6.1 Aquifer within Superficial Deposits.....                                                                                                   | 51 |
| 6.2 Aquifer within Bedrock Deposits.....                                                                                                       | 51 |
| 6.3 Groundwater Abstraction Licences.....                                                                                                      | 51 |
| 6.4 Surface Water Abstraction Licences.....                                                                                                    | 54 |
| 6.5 Potable Water Abstraction Licences.....                                                                                                    | 56 |
| 6.6 Source Protection Zones.....                                                                                                               | 56 |
| 6.7 Source Protection Zones within Confined Aquifer.....                                                                                       | 56 |
| 6.8 Groundwater Vulnerability and Soil Leaching Potential.....                                                                                 | 56 |
| 6.9 River Quality.....                                                                                                                         | 56 |
| 6.9.1 Biological Quality:.....                                                                                                                 | 57 |
| 6.9.2 Chemical Quality:.....                                                                                                                   | 58 |
| 6.10 Detailed River Network.....                                                                                                               | 60 |
| 6.11 Surface Water Features.....                                                                                                               | 60 |
| 7a. Environment Agency Flood Map for Planning (from rivers and the sea) .....                                                                  | 61 |
| 7b. Environment Agency Risk of Flooding from Rivers and the Sea (RoFRaS) Map .....                                                             | 62 |
| 7 Flooding .....                                                                                                                               | 63 |
| 7.1 River and Coastal Zone 2 Flooding.....                                                                                                     | 63 |
| 7.2 River and Coastal Zone 3 Flooding.....                                                                                                     | 63 |
| 7.3 Risk of Flooding from Rivers and the Sea (RoFRaS) Flood Rating.....                                                                        | 63 |
| 7.4 Flood Defences.....                                                                                                                        | 64 |
| 7.5 Areas benefiting from Flood Defences.....                                                                                                  | 64 |
| 7.6 Areas benefiting from Flood Storage.....                                                                                                   | 64 |
| 7.7 Groundwater Flooding Susceptibility Areas.....                                                                                             | 64 |
| 7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes..... | 64 |
| 7.7.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?.....        | 64 |
| 7.8 Groundwater Flooding Confidence Areas.....                                                                                                 | 65 |
| 8. Designated Environmentally Sensitive Sites Map .....                                                                                        | 66 |
| 8. Designated Environmentally Sensitive Sites .....                                                                                            | 67 |
| 8.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....                                                | 67 |
| 8.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....                                                             | 67 |
| 8.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....                                                        | 67 |
| 8.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....                                                             | 67 |
| 8.5 Records of Ramsar sites within 2000m of the study site:.....                                                                               | 67 |
| 8.6 Records of Ancient Woodland within 2000m of the study site: .....                                                                          | 68 |
| 8.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....                                                                | 68 |
| 8.8 Records of World Heritage Sites within 2000m of the study site:.....                                                                       | 68 |
| 8.9 Records of Environmentally Sensitive Areas within 2000m of the study site: .....                                                           | 68 |
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site: .....                                               | 68 |
| 8.11 Records of National Parks (NP) within 2000m of the study site: .....                                                                      | 68 |

|                                                                               |    |
|-------------------------------------------------------------------------------|----|
| 8.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....  | 69 |
| 8.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:..... | 69 |
| 8.14 Records of Green Belt land within 2000m of the study site:.....          | 69 |
| 9. Natural Hazards Findings.....                                              | 70 |
| 9.1 Detailed BGS GeoSure Data.....                                            | 70 |
| 9.1.1 Shrink Swell.....                                                       | 70 |
| 9.1.2 Landslides.....                                                         | 70 |
| 9.1.3 Soluble Rocks.....                                                      | 70 |
| 9.1.4 Compressible Ground.....                                                | 71 |
| 9.1.5 Collapsible Rocks.....                                                  | 71 |
| 9.1.6 Running Sand.....                                                       | 71 |
| 9.2 Radon.....                                                                | 71 |
| 9.2.1 Radon Affected Areas.....                                               | 71 |
| 9.2.2 Radon Protection.....                                                   | 72 |
| 10. Mining.....                                                               | 73 |
| 10.1 Coal Mining.....                                                         | 73 |
| 10.2 Non-Coal Mining.....                                                     | 73 |
| 10.3 Brine Affected Areas .....                                               | 73 |
| Contact Details.....                                                          | 74 |
| Standard Terms and Conditions.....                                            | 76 |

# 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        | 8       | 9    | 68     | 98      |
| 1.2 Additional Information – Historical Tank Database                            | 0       | 3    | 12     | 65      |
| 1.3 Additional Information – Historical Energy Features Database                 | 0       | 0    | 6      | 9       |
| 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 | 2       | 0    | 4      | 5       |
| 1.6 Potentially Infilled Land                                                    | 4       | 2    | 44     | 56      |

| 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     | 0      | 5       |
| 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      | 2       |
| 2.1.6 Records of Part A(2) and Part B Activities and Enforcements                                      | 0       | 0     | 1      | 1       |
| 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      | 21      |
| 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     | 0      | 0       |
| 2.2 Records of COMAH and NIHHS sites                                                                   | 0       | 0     | 0      | 0       |
| 2.3 Environment Agency Recorded Pollution Incidents                                                    |         |       |        |         |
| 2.3.1 National Incidents Recording System, List 2                                                      | 0       | 0     | 4      | 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 Registered Landfill Sites                                 | 0       | 0     | 0      | 1       | 1            | Not searched |
| 3.1.2 Environment Agency Historic Landfill Sites                                   | 0       | 0     | 0      | 0       | 5            | 5            |
| 3.1.3 BGS/DoE Landfill Site Survey                                                 | 0       | 0     | 0      | 0       | 1            | 2            |
| 3.1.4 Records of Landfills in Local Authority and Historical Mapping Records       | 0       | 0     | 0      | 1       | 9            | 2            |
| 3.2 Landfill and Other Waste Sites Findings                                        |         |       |        |         |              |              |
| 3.2.1 Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites | 0       | 0     | 6      | 0       | Not searched | Not searched |
| 3.2.2 Environment Agency Licensed Waste Sites                                      | 0       | 0     | 1      | 3       | 13           | 10           |

| Section 4: Current Land Use                      | On-site | 0-50m | 51-250 | 251-500      |
|--------------------------------------------------|---------|-------|--------|--------------|
| 4.1 Current Industrial Sites Data                | 1       | 0     | 15     | Not searched |
| 4.2 Records of Petrol and Fuel Sites             | 0       | 0     | 0      | 0            |
| 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 Are there any records of Artificial Ground and Made Ground present beneath the study site?         | No   |
| 5.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?      | None |
| 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 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site? | Yes     |       |        |         |              |              |
| 6.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?     | Yes     |       |        |         |              |              |
|                                                                                                              | 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      | 2       | 6            | 8            |
| 6.4 Surface Water Abstraction Licences (within 2000m of the study site)                                      | 0       | 0     | 0      | 2       | 6            | 5            |
| 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 |
|                                                                                                              | On-site | 0-50m | 51-250 | 251-500 | 501-1000     | 1000-1500    |

| Section 6: Hydrogeology and Hydrology                                                            |    |    |     | 0-500m       |              |              |
|--------------------------------------------------------------------------------------------------|----|----|-----|--------------|--------------|--------------|
| 6.9 Is there any Environment Agency information on river quality within 1500m of the study site? | No | No | No  | Yes          | Yes          | Yes          |
| 6.10 Detailed River Network entries within 500m of the site                                      | 0  | 0  | 4   | 7            | 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 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?        | Yes                     |  |  |
| 7.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site         | Yes                     |  |  |
| 7.3 What is the Risk of flooding from Rivers and the Sea (RoFRaS) rating for the study site?  | Very Low                |  |  |
| 7.4 Are there any Flood Defences within 250m of the study site?                               | No                      |  |  |
| 7.5 Are there any areas benefiting from Flood Defences within 250m of the study site?         | No                      |  |  |
| 7.6 Are there any areas used for Flood Storage within 250m of the study site?                 | Yes                     |  |  |
| 7.7 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site? | Potential below Surface |  |  |
| 7.8 What is the 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       | 0        | 0         |
| 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       | 0        | 0         |
| 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        | 0         |
| 8.7 Records of Local Nature Reserves (LNR)                 | 0       | 0     | 0      | 1       | 0        | 1         |
| 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         |
| 8.10 Records of Areas of Outstanding Natural Beauty (AONB) | 0       | 0     | 0      | 0       | 0        | 0         |

| Section 8: Designated Environmentally Sensitive Sites | On-site | 0-50m | 51-250 | 251-500 | 501-1000 | 1000-2000 |
|-------------------------------------------------------|---------|-------|--------|---------|----------|-----------|
| 8.11 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              | 0       | 0     | 1      | 0       | 0        | 0         |
| 8.14 Records of Green Belt land                       | 0       | 0     | 0      | 1       | 0        | 4         |

## Section 9: Natural Hazards

|                                                                                                                                                                                                  |                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 9.1 What is the maximum risk of natural ground subsidence?                                                                                                                                       | Very Low                                                                                                |
| 9.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?                                                                                                               | Very Low                                                                                                |
| 9.1.2 What is the maximum Landslides hazard rating identified on the study site?                                                                                                                 | Very Low                                                                                                |
| 9.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?                                                                                                              | Negligible                                                                                              |
| 9.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?                                                                                                        | Negligible                                                                                              |
| 9.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?                                                                                                          | Very Low                                                                                                |
| 9.1.6 What is the maximum Running Sand hazard rating identified on the study site?                                                                                                               | Negligible                                                                                              |
| 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 property is in a Radon Affected Area, as between 1 and 3% 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 Are there any coal mining areas within 75m of the study site?              | Yes |
| 10.2 Are there any Non-Coal Mining areas within 50m of the study site boundary? | No  |
| 10.3 Are there any brine affected areas within 75m of the study site?           | No  |

# 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 licenses, 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

NW

N

NE

W

E

SW

S

SE



© Crown copyright and database rights 2015. Ordnance Survey license 100035207.



# 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: 183

| ID   | Distance [m] | Direction | Use                               | Date |
|------|--------------|-----------|-----------------------------------|------|
| 1C   | 0            | On Site   | Refuse Heap                       | 1892 |
| 2A   | 0            | On Site   | Refuse Heap                       | 1892 |
| 3A   | 0            | On Site   | Fire Station                      | 1974 |
| 4A   | 0            | On Site   | Fire Station                      | 1988 |
| 5A   | 0            | On Site   | Fire Station                      | 1981 |
| 6BP  | 0            | On Site   | Colliery                          | 1892 |
| 7B   | 0            | On Site   | Brick and Tile Works              | 1905 |
| 8    | 0            | On Site   | Railway Sidings                   | 1905 |
| 9B   | 3            | SE        | Railway Sidings                   | 1892 |
| 10C  | 4            | SE        | Refuse Heap                       | 1905 |
| 11B  | 9            | SE        | Iron Works                        | 1938 |
| 12D  | 13           | SE        | Unspecified Commercial/Industrial | 1967 |
| 13AO | 14           | S         | Unspecified Tanks                 | 1905 |
| 14B  | 16           | SE        | Unspecified Works                 | 1974 |
| 15D  | 16           | SE        | Unspecified Mills                 | 1974 |
| 16D  | 39           | SW        | Brick and Tile Works              | 1892 |
| 17F  | 43           | E         | Pipe Works                        | 1905 |
| 18B  | 64           | S         | Unspecified Tank                  | 1892 |
| 19E  | 67           | SW        | Unspecified Mill                  | 1955 |
| 20B  | 71           | S         | Unspecified Tank                  | 1892 |
| 21AQ | 72           | SW        | Unspecified Mill                  | 1948 |
| 22E  | 72           | SW        | Unspecified Mill                  | 1938 |
| 23F  | 81           | NE        | Unspecified Commercial/Industrial | 1974 |
| 24F  | 81           | NE        | Unspecified Mills                 | 1967 |
| 25F  | 81           | NE        | Unspecified Mills                 | 1955 |
| 26G  | 81           | NE        | Unspecified Mills                 | 1988 |
| 27G  | 81           | NE        | Unspecified Mills                 | 1981 |
| 28D  | 82           | S         | Unspecified Tanks                 | 1905 |
| 29F  | 93           | NE        | Unspecified Mills                 | 1948 |
| 30E  | 113          | S         | Refuse Heap                       | 1905 |
| 31E  | 113          | S         | Unspecified Ground Workings       | 1955 |
| 32BQ | 114          | SW        | Refuse Heap                       | 1892 |
| 33H  | 115          | SE        | Cuttings                          | 1905 |
| 34   | 115          | E         | Unspecified Tanks                 | 1905 |

|      |     |    |                                   |      |
|------|-----|----|-----------------------------------|------|
| 35E  | 116 | S  | Unspecified Ground Workings       | 1938 |
| 36E  | 116 | S  | Unspecified Ground Workings       | 1938 |
| 37H  | 116 | SE | Cuttings                          | 1948 |
| 38H  | 117 | SE | Cuttings                          | 1938 |
| 39H  | 118 | SE | Cuttings                          | 1955 |
| 40H  | 121 | SE | Cuttings                          | 1988 |
| 41H  | 121 | SE | Cuttings                          | 1981 |
| 42H  | 121 | SE | Cuttings                          | 1974 |
| 43H  | 121 | SE | Cuttings                          | 1967 |
| 44H  | 125 | SE | Cuttings                          | 1892 |
| 45BR | 125 | S  | Refuse Heap                       | 1892 |
| 46I  | 151 | S  | Unspecified Wharf                 | 1938 |
| 47I  | 151 | S  | Unspecified Wharf                 | 1938 |
| 48J  | 152 | S  | Unspecified Wharf                 | 1955 |
| 49J  | 152 | S  | Unspecified Wharf                 | 1967 |
| 50J  | 154 | S  | Unspecified Wharf                 | 1948 |
| 51J  | 154 | S  | Unspecified Wharf                 | 1905 |
| 52J  | 156 | S  | Unspecified Wharf                 | 1974 |
| 53K  | 163 | S  | Unspecified Wharf                 | 1988 |
| 54K  | 163 | S  | Unspecified Wharf                 | 1981 |
| 55BS | 167 | NE | Unspecified Pit                   | 1892 |
| 56L  | 179 | E  | Unspecified Heap                  | 1955 |
| 57L  | 179 | E  | Unspecified Heap                  | 1967 |
| 58L  | 179 | E  | Unspecified Heap                  | 1974 |
| 59L  | 180 | E  | Unspecified Ground Workings       | 1938 |
| 60L  | 180 | E  | Unspecified Ground Workings       | 1938 |
| 61M  | 189 | SW | Unspecified Commercial/Industrial | 1974 |
| 62M  | 189 | SW | Unspecified Mills                 | 1967 |
| 63M  | 189 | SW | Unspecified Commercial/Industrial | 1988 |
| 64M  | 189 | SW | Unspecified Commercial/Industrial | 1981 |
| 65M  | 193 | SW | Unspecified Mills                 | 1938 |
| 66M  | 194 | SW | Unspecified Mills                 | 1948 |
| 67AT | 205 | NE | Nursery                           | 1967 |
| 68N  | 214 | NE | Unspecified Ground Workings       | 1948 |
| 69N  | 223 | NE | Unspecified Heap                  | 1974 |
| 70N  | 223 | NE | Unspecified Heap                  | 1955 |
| 71N  | 223 | NE | Unspecified Heap                  | 1967 |
| 72O  | 234 | W  | Railway Sidings                   | 1955 |
| 73O  | 234 | W  | Railway Sidings                   | 1892 |
| 74P  | 237 | NW | Cemetery                          | 1948 |
| 75P  | 237 | NW | Cemetery                          | 1905 |
| 76P  | 238 | NW | Cemetery                          | 1938 |
| 77O  | 239 | W  | Railway Sidings                   | 1938 |

|       |     |    |                           |      |
|-------|-----|----|---------------------------|------|
| 78P   | 240 | NW | Cemetery                  | 1988 |
| 79P   | 240 | NW | Cemetery                  | 1974 |
| 80P   | 240 | NW | Cemetery                  | 1981 |
| 81P   | 240 | NW | Cemetery                  | 1967 |
| 82P   | 240 | NW | Cemetery                  | 1955 |
| 83BT  | 242 | NW | Cemetery                  | 1892 |
| 84O   | 246 | SW | Railway Sidings           | 1948 |
| 85    | 246 | SW | Railway Building          | 1955 |
| 86V   | 254 | SW | Railway Sidings           | 1905 |
| 87Q   | 267 | SW | Unspecified Disused Mills | 1955 |
| 88Q   | 267 | SW | Unspecified Mills         | 1974 |
| 89Q   | 267 | SW | Unspecified Mills         | 1981 |
| 90Q   | 267 | SW | Unspecified Mills         | 1967 |
| 91AW  | 271 | SW | Unspecified Mills         | 1938 |
| 92T   | 274 | W  | Disused Railway Station   | 1967 |
| 93Q   | 275 | SW | Unspecified Mills         | 1892 |
| 94S   | 278 | SE | Unspecified Mills         | 1938 |
| 95R   | 279 | SE | Unspecified Mills         | 1948 |
| 96R   | 279 | SE | Unspecified Disused Mills | 1905 |
| 97S   | 280 | SE | Unspecified Works         | 1974 |
| 98S   | 280 | SE | Unspecified Works         | 1981 |
| 99S   | 280 | SE | Unspecified Works         | 1988 |
| 100T  | 282 | W  | Railway Station           | 1955 |
| 101S  | 283 | SE | Unspecified Mills         | 1955 |
| 102S  | 283 | SE | Unspecified Works         | 1967 |
| 103S  | 285 | SE | Unspecified Mills         | 1892 |
| 104U  | 285 | W  | Railway Station           | 1948 |
| 105U  | 285 | W  | Railway Station           | 1905 |
| 106U  | 286 | W  | Railway Station           | 1938 |
| 107BA | 297 | W  | Sewage Works              | 1905 |
| 108   | 297 | SW | Railway Building          | 1967 |
| 109   | 299 | S  | Unspecified Tanks         | 1967 |
| 110   | 299 | NW | Hospital                  | 1892 |
| 111Q  | 309 | SW | Unspecified Mills         | 1905 |
| 112S  | 313 | E  | Unspecified Tank          | 1905 |
| 113AX | 320 | SW | Tannery                   | 1938 |
| 114V  | 324 | W  | Railway Station           | 1892 |
| 115AV | 327 | N  | Unspecified Tank          | 1905 |
| 116Q  | 336 | SW | Unspecified Mills         | 1988 |
| 117X  | 344 | W  | Railway Building          | 1967 |
| 118W  | 346 | W  | Sewage Works              | 1955 |
| 119W  | 346 | W  | Unspecified Works         | 1967 |
| 120W  | 346 | W  | Unspecified Works         | 1974 |
| 121W  | 346 | W  | Sewage Works              | 1981 |
| 122X  | 346 | W  | Railway Building          | 1892 |
| 123Y  | 348 | SE | Unspecified Pit           | 1981 |
| 124Y  | 348 | SE | Unspecified Pit           | 1988 |
| 125W  | 349 | W  | Sewage Works              | 1948 |

|       |     |    |                                      |      |
|-------|-----|----|--------------------------------------|------|
| 126W  | 350 | W  | Sewage Works                         | 1938 |
| 127W  | 350 | W  | Sewage Works                         | 1938 |
| 128X  | 351 | W  | Railway Building                     | 1955 |
| 129X  | 352 | W  | Railway Building                     | 1938 |
| 130Z  | 353 | SW | Unspecified Pit                      | 1892 |
| 131X  | 353 | W  | Railway Building                     | 1948 |
| 132X  | 353 | W  | Railway Building                     | 1905 |
| 133Q  | 355 | SW | Unspecified Mills                    | 1948 |
| 134Z  | 364 | SW | Unspecified Tank                     | 1974 |
| 135AB | 366 | SW | Unspecified Pit                      | 1892 |
| 136AA | 368 | SW | Tannery                              | 1948 |
| 137AA | 368 | SW | Tannery                              | 1955 |
| 138BX | 371 | SE | Old Canal                            | 1967 |
| 139AA | 374 | SW | Smithy                               | 1905 |
| 140AC | 375 | SW | Railway Sidings                      | 1938 |
| 141AB | 381 | SW | Railway Sidings                      | 1955 |
| 142AC | 388 | W  | Railway Sidings                      | 1948 |
| 143AE | 389 | S  | Railway Sidings                      | 1955 |
| 144AD | 390 | SE | Unspecified<br>Commercial/Industrial | 1967 |
| 145AD | 390 | SE | Unspecified<br>Commercial/Industrial | 1974 |
| 146AD | 390 | SE | Unspecified Mills                    | 1955 |
| 147AD | 390 | SE | Unspecified<br>Commercial/Industrial | 1981 |
| 148AD | 390 | SE | Unspecified<br>Commercial/Industrial | 1988 |
| 149BU | 401 | W  | Unspecified Pit                      | 1905 |
| 150AJ | 402 | W  | Unspecified Mills                    | 1905 |
| 151AE | 410 | S  | Railway Sidings                      | 1948 |
| 152AF | 415 | S  | Railway Sidings                      | 1981 |
| 153AF | 415 | S  | Railway Sidings                      | 1967 |
| 154AF | 415 | S  | Railway Sidings                      | 1974 |
| 155AG | 416 | SW | Unspecified Disused Mills            | 1948 |
| 156AG | 419 | SW | Unspecified Mills                    | 1938 |
| 157   | 420 | SW | Unspecified Mills                    | 1905 |
| 158AF | 426 | S  | Unspecified<br>Commercial/Industrial | 1955 |
| 159AF | 426 | S  | Unspecified<br>Commercial/Industrial | 1974 |
| 160AF | 426 | S  | Unspecified<br>Commercial/Industrial | 1967 |
| 161   | 431 | S  | Railway Sidings                      | 1938 |
| 162AH | 431 | S  | Unspecified Wharf                    | 1967 |
| 163AH | 431 | S  | Unspecified Wharf                    | 1974 |
| 164AI | 444 | W  | Unspecified Ground<br>Workings       | 1981 |
| 165AI | 444 | W  | Unspecified Ground<br>Workings       | 1967 |
| 166AI | 444 | W  | Unspecified Ground<br>Workings       | 1974 |
| 167AJ | 445 | W  | Unspecified Mills                    | 1892 |

|       |     |    |                   |      |
|-------|-----|----|-------------------|------|
| 168AK | 445 | SE | Unspecified Mills | 1938 |
| 169AK | 450 | SE | Unspecified Mills | 1948 |
| 170AK | 450 | SE | Unspecified Mills | 1905 |
| 171AF | 451 | S  | Power Station     | 1981 |
| 172AF | 451 | S  | Power Station     | 1988 |
| 173AL | 452 | S  | Unspecified Wharf | 1981 |
| 174AL | 452 | S  | Unspecified Wharf | 1988 |
| 175AK | 455 | SE | Unspecified Mills | 1892 |
| 176   | 455 | S  | Railway Sidings   | 1892 |
| 177CA | 476 | N  | Unspecified Heap  | 1892 |
| 178AM | 481 | W  | Unspecified Tanks | 1967 |
| 179AM | 481 | W  | Unspecified Tanks | 1974 |
| 180AM | 481 | W  | Unspecified Tanks | 1981 |
| 181   | 487 | SE | Unspecified Mill  | 1948 |
| 182AN | 488 | E  | Unspecified Pit   | 1988 |
| 183AN | 488 | E  | Unspecified Pit   | 1981 |

## 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:

80

| ID    | Distance (m) | Direction | Use               | Date |
|-------|--------------|-----------|-------------------|------|
| 184AO | 19           | S         | Tanks             | 1907 |
| 185AP | 28           | SE        | Unspecified Tank  | 1907 |
| 186AP | 34           | SE        | Unspecified Tank  | 1893 |
| 187B  | 56           | S         | Unspecified Tank  | 1893 |
| 188B  | 63           | S         | Unspecified Tank  | 1893 |
| 189AQ | 79           | S         | Tanks             | 1907 |
| 190E  | 88           | S         | Tanks             | 1893 |
| 191F  | 117          | E         | Tanks             | 1907 |
| 192K  | 165          | S         | Tanks             | 1893 |
| 193AR | 187          | NE        | Unspecified Tank  | 1938 |
| 194AR | 192          | NE        | Unspecified Tank  | 1954 |
| 195AR | 194          | NE        | Unspecified Tank  | 1954 |
| 196AR | 194          | NE        | Unspecified Tank  | 1978 |
| 197AR | 198          | NE        | Unspecified Tank  | 1978 |
| 198AS | 250          | SW        | Tanks             | 1938 |
| 199AS | 251          | SW        | Tanks             | 1933 |
| 200AS | 252          | SW        | Unspecified Tanks | 1933 |
| 201AS | 252          | SW        | Unspecified Tanks | 1937 |
| 202AT | 256          | NE        | Tank or Trough    | 1893 |
| 203S  | 310          | E         | Unspecified Tank  | 1933 |
| 204S  | 310          | E         | Unspecified Tank  | 1922 |

|       |     |    |                   |      |
|-------|-----|----|-------------------|------|
| 205S  | 310 | E  | Unspecified Tank  | 1907 |
| 206AU | 313 | SE | Unspecified Tank  | 1978 |
| 207R  | 319 | SE | Tanks             | 1954 |
| 208R  | 319 | SE | Tanks             | 1954 |
| 209AU | 325 | SE | Tanks             | 1978 |
| 210AU | 326 | SE | Tanks             | 1993 |
| 211S  | 327 | E  | Tanks             | 1978 |
| 212S  | 327 | E  | Tanks             | 1993 |
| 213AV | 329 | N  | Unspecified Tank  | 1955 |
| 214AV | 329 | N  | Unspecified Tank  | 1971 |
| 215AY | 332 | SW | Unspecified Tank  | 1954 |
| 216AW | 332 | SW | Unspecified Tank  | 1954 |
| 217S  | 333 | E  | Tanks             | 1993 |
| 218AX | 334 | SW | Tanks             | 1938 |
| 219AY | 335 | SW | Unspecified Tank  | 1954 |
| 220AW | 335 | SW | Unspecified Tank  | 1954 |
| 221AX | 335 | SW | Tanks             | 1933 |
| 222AZ | 337 | SW | Unspecified Tanks | 1937 |
| 223AZ | 338 | SW | Unspecified Tanks | 1933 |
| 224   | 338 | SE | Tanks             | 1978 |
| 225BK | 352 | E  | Tanks             | 1978 |
| 226BA | 367 | W  | Tanks             | 1893 |
| 227BA | 368 | W  | Tanks             | 1938 |
| 228BA | 368 | W  | Tanks             | 1933 |
| 229BA | 368 | W  | Tanks             | 1922 |
| 230BB | 407 | SW | Unspecified Tank  | 1954 |
| 231BB | 407 | SW | Unspecified Tank  | 1954 |
| 232BC | 407 | NE | Unspecified Tank  | 1938 |
| 233BB | 407 | SW | Unspecified Tank  | 1955 |
| 234BB | 408 | SW | Unspecified Tank  | 1993 |
| 235BC | 410 | NE | Unspecified Tank  | 1922 |
| 236BC | 410 | NE | Unspecified Tank  | 1933 |
| 237AC | 415 | SW | Tanks             | 1955 |
| 238BD | 415 | W  | Detritus Tanks    | 1955 |
| 239BD | 417 | W  | Detritus Tanks    | 1955 |
| 240AC | 418 | SW | Tanks             | 1955 |
| 241BE | 420 | SW | Tanks             | 1955 |
| 242BE | 420 | SW | Tanks             | 1955 |
| 243AC | 421 | SW | Tanks             | 1938 |
| 244BF | 422 | W  | Equalising Tanks  | 1955 |
| 245BE | 422 | SW | Tanks             | 1955 |
| 246AC | 422 | SW | Tanks             | 1933 |
| 247BE | 422 | SW | Tanks             | 1955 |
| 248BF | 422 | W  | Equalising Tanks  | 1955 |
| 249AC | 423 | SW | Tanks             | 1955 |
| 250BE | 426 | SW | Tanks             | 1938 |
| 251BE | 427 | SW | Tanks             | 1933 |
| 252BF | 430 | W  | Detritus Tanks    | 1933 |

|       |     |    |                     |      |
|-------|-----|----|---------------------|------|
| 253BF | 430 | W  | Detritus Tanks      | 1938 |
| 254BB | 437 | SW | Unspecified Tank    | 1954 |
| 255BF | 438 | W  | Precipitation Tanks | 1955 |
| 256BF | 438 | W  | Precipitation Tanks | 1955 |
| 257BF | 446 | W  | Precipitating Tanks | 1933 |
| 258BF | 446 | W  | Precipitation Tanks | 1938 |
| 259BF | 447 | W  | Equalising Tanks    | 1933 |
| 260BG | 472 | W  | Humus Tanks         | 1955 |
| 261BG | 472 | W  | Humus Tanks         | 1955 |
| 262BG | 475 | W  | Humus Tanks         | 1938 |
| 263   | 486 | W  | Equalising Tanks    | 1938 |

### 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:

15

| ID    | Distance (m) | Direction | Use                     | Date |
|-------|--------------|-----------|-------------------------|------|
| 264BH | 166          | NW        | Electricity Substation  | 1955 |
| 265BH | 166          | NW        | Electricity Substation  | 1975 |
| 266BH | 166          | NW        | Electricity Substation  | 1993 |
| 267BH | 169          | NW        | Electricity Substation  | 1954 |
| 268BI | 249          | NE        | Electricity Substation  | 1984 |
| 269BI | 249          | NE        | Electricity Substation  | 1992 |
| 270BJ | 327          | E         | Electricity Substations | 1978 |
| 271BJ | 329          | E         | Electricity Substation  | 1993 |
| 272BK | 331          | E         | Electricity Substation  | 1993 |
| 273BL | 384          | E         | Electricity Substation  | 1978 |
| 274BL | 385          | E         | Electricity Substation  | 1993 |
| 275BM | 490          | NW        | Electricity Substation  | 1994 |
| 276BM | 490          | NW        | Electricity Substation  | 1971 |
| 277BM | 490          | NW        | Electricity Substation  | 1955 |
| 278BM | 490          | NW        | Electricity Substation  | 1955 |

### 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:

11

| ID    | Distance (m) | Direction | Use    | Date |
|-------|--------------|-----------|--------|------|
| 279A  | 0            | On Site   | Garage | 1954 |
| 280A  | 0            | On Site   | Garage | 1955 |
| 281   | 172          | NE        | Garage | 1954 |
| 282N  | 186          | NE        | Garage | 1993 |
| 283N  | 219          | NE        | Garage | 1978 |
| 284N  | 226          | NE        | Garage | 1954 |
| 285BN | 493          | SW        | Garage | 1973 |
| 286BN | 494          | SW        | Garage | 1993 |
| 287BN | 496          | SW        | Garage | 1988 |
| 288BO | 500          | NE        | Garage | 1984 |
| 289BO | 500          | NE        | Garage | 1992 |

## 1.6 Potentially Infilled Land

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

106

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

| ID    | Distance(m) | Direction | Use                         | Date |
|-------|-------------|-----------|-----------------------------|------|
| 290A  | 0           | On Site   | Refuse Heap                 | 1892 |
| 291AO | 0           | On Site   | Refuse Heap                 | 1892 |
| 292BP | 0           | On Site   | Colliery                    | 1892 |
| 293B  | 0           | On Site   | Brick and Tile Works        | 1905 |
| 294BP | 4           | SE        | Refuse Heap                 | 1905 |
| 295E  | 39          | SW        | Brick and Tile Works        | 1892 |
| 296E  | 113         | S         | Refuse Heap                 | 1905 |
| 297E  | 113         | S         | Unspecified Ground Workings | 1955 |
| 298BQ | 114         | SW        | Refuse Heap                 | 1892 |
| 299H  | 115         | SE        | Cuttings                    | 1905 |
| 300E  | 116         | S         | Unspecified Ground Workings | 1938 |
| 301E  | 116         | S         | Unspecified Ground Workings | 1938 |
| 302H  | 116         | SE        | Cuttings                    | 1948 |
| 303H  | 117         | SE        | Cuttings                    | 1938 |
| 304H  | 118         | SE        | Cuttings                    | 1955 |
| 305H  | 121         | SE        | Cuttings                    | 1967 |
| 306H  | 121         | SE        | Cuttings                    | 1988 |
| 307H  | 121         | SE        | Cuttings                    | 1981 |
| 308H  | 121         | SE        | Cuttings                    | 1974 |

|       |     |    |                             |      |
|-------|-----|----|-----------------------------|------|
| 309H  | 125 | SE | Cuttings                    | 1892 |
| 310BR | 125 | S  | Refuse Heap                 | 1892 |
| 311I  | 151 | S  | Unspecified Wharf           | 1938 |
| 312I  | 151 | S  | Unspecified Wharf           | 1938 |
| 313J  | 152 | S  | Unspecified Wharf           | 1955 |
| 314J  | 152 | S  | Unspecified Wharf           | 1967 |
| 315J  | 154 | S  | Unspecified Wharf           | 1948 |
| 316J  | 154 | S  | Unspecified Wharf           | 1905 |
| 317J  | 156 | S  | Unspecified Wharf           | 1974 |
| 318K  | 163 | S  | Unspecified Wharf           | 1981 |
| 319K  | 163 | S  | Unspecified Wharf           | 1988 |
| 320BS | 167 | NE | Unspecified Pit             | 1892 |
| 321L  | 179 | E  | Unspecified Heap            | 1967 |
| 322L  | 179 | E  | Unspecified Heap            | 1955 |
| 323L  | 179 | E  | Unspecified Heap            | 1974 |
| 324L  | 180 | E  | Unspecified Ground Workings | 1938 |
| 325L  | 180 | E  | Unspecified Ground Workings | 1938 |
| 326   | 182 | S  | Water Body                  | 1955 |
| 327N  | 214 | NE | Unspecified Ground Workings | 1948 |
| 328N  | 223 | NE | Unspecified Heap            | 1974 |
| 329N  | 223 | NE | Unspecified Heap            | 1955 |
| 330N  | 223 | NE | Unspecified Heap            | 1967 |
| 331P  | 237 | NW | Cemetery                    | 1948 |
| 332P  | 237 | NW | Cemetery                    | 1905 |
| 333P  | 238 | NW | Cemetery                    | 1938 |
| 334P  | 240 | NW | Cemetery                    | 1974 |
| 335P  | 240 | NW | Cemetery                    | 1967 |
| 336P  | 240 | NW | Cemetery                    | 1981 |
| 337P  | 240 | NW | Cemetery                    | 1955 |
| 338P  | 240 | NW | Cemetery                    | 1988 |
| 339BT | 242 | NW | Cemetery                    | 1892 |
| 340BA | 297 | W  | Sewage Works                | 1905 |
| 341W  | 346 | W  | Sewage Works                | 1955 |
| 342W  | 346 | W  | Sewage Works                | 1981 |
| 343Y  | 348 | SE | Unspecified Pit             | 1981 |
| 344Y  | 348 | SE | Unspecified Pit             | 1988 |
| 345W  | 349 | W  | Sewage Works                | 1948 |
| 346BU | 350 | W  | Sewage Works                | 1938 |
| 347BU | 350 | W  | Sewage Works                | 1938 |
| 348Z  | 353 | SW | Unspecified Pit             | 1892 |
| 349BV | 353 | SE | Pond                        | 1938 |
| 350BV | 356 | SE | Pond                        | 1905 |
| 351BV | 356 | SE | Pond                        | 1948 |
| 352BV | 358 | SE | Pond                        | 1955 |
| 353AB | 366 | SW | Unspecified Pit             | 1892 |
| 354BV | 366 | SE | Pond                        | 1892 |

|       |     |    |                             |      |
|-------|-----|----|-----------------------------|------|
| 355BW | 368 | SE | Pond                        | 1981 |
| 356BW | 368 | SE | Pond                        | 1988 |
| 357BW | 368 | SE | Pond                        | 1967 |
| 358BW | 368 | SE | Pond                        | 1974 |
| 359BX | 368 | SE | Canal                       | 1938 |
| 360BX | 369 | SE | Canal                       | 1955 |
| 361BX | 370 | SE | Canal                       | 1948 |
| 362BX | 370 | SE | Canal                       | 1905 |
| 363BX | 371 | SE | Disused Old Canal           | 1974 |
| 364BX | 371 | SE | Old Canal                   | 1967 |
| 365BY | 371 | W  | Pond                        | 1955 |
| 366AB | 371 | SW | Pond                        | 1905 |
| 367BY | 373 | W  | Pond                        | 1948 |
| 368BY | 374 | W  | Pond                        | 1938 |
| 369   | 377 | SE | Canal                       | 1892 |
| 370   | 383 | S  | Canal                       | 1892 |
| 371BY | 385 | W  | Pond                        | 1981 |
| 372BY | 385 | W  | Pond                        | 1974 |
| 373BY | 386 | W  | Pond                        | 1967 |
| 374BU | 401 | W  | Unspecified Pit             | 1905 |
| 375AJ | 422 | W  | Pond                        | 1967 |
| 376AH | 431 | S  | Unspecified Wharf           | 1967 |
| 377AH | 431 | S  | Unspecified Wharf           | 1974 |
| 378BZ | 433 | N  | Pond                        | 1905 |
| 379BZ | 433 | N  | Pond                        | 1948 |
| 380BZ | 437 | N  | Pond                        | 1938 |
| 381BZ | 442 | N  | Pond                        | 1988 |
| 382BZ | 442 | N  | Pond                        | 1981 |
| 383BZ | 442 | N  | Pond                        | 1974 |
| 384BZ | 442 | N  | Pond                        | 1955 |
| 385BZ | 442 | N  | Pond                        | 1967 |
| 386AI | 444 | W  | Unspecified Ground Workings | 1967 |
| 387AI | 444 | W  | Unspecified Ground Workings | 1981 |
| 388AI | 444 | W  | Unspecified Ground Workings | 1974 |
| 389AL | 452 | S  | Unspecified Wharf           | 1988 |
| 390AL | 452 | S  | Unspecified Wharf           | 1981 |
| 391CA | 476 | N  | Unspecified Heap            | 1892 |
| 392AI | 478 | W  | Pond                        | 1892 |
| 393AJ | 485 | W  | Pond                        | 1905 |
| 394AN | 488 | E  | Unspecified Pit             | 1988 |
| 395AN | 488 | E  | Unspecified Pit             | 1981 |

## 2. Environmental Permits, Incidents and Registers Map



© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



## 2. Environmental Permits, Incidents and Registers

### 2.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency 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:

5

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                                                                                                                                                                |                                                                                                                                                                                                                  |
|-----|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 46G | 458          | SW        | 422960<br>420450 | Operator: William S Graham & Sons (dewsbury) Limited<br>Installation Name: W S Graham<br>Process: COATING, PRINTING AND TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY | Permit Number: BR4942IY<br>Original Permit Number: BR4942IY<br>EPR Reference: -<br>Issue Date: 21/3/2003<br>Effective Date: 31/3/2003<br>Last date noted as effective: 2015-04-01<br>Status: Superseded          |
| 47G | 458          | SW        | 422960<br>420450 | Operator: William S Graham & Sons (dewsbury) Limited<br>Installation Name: W S Graham<br>Process: COATING, PRINTING AND TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY | Permit Number: BU9394IU<br>Original Permit Number: BR4942IY<br>EPR Reference: -<br>Issue Date: 20/6/2003<br>Effective Date: 20/6/2003<br>Last date noted as effective: 2015-04-01<br>Status: Superseded          |
| 48G | 458          | SW        | 422960<br>420450 | Operator: William S Graham And Sons (dewsbury) Ltd<br>Installation Name: -<br>Process: COATING, PRINTING & TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY              | Permit Number: BR4942<br>Original Permit Number: BR4942<br>EPR Reference: -<br>Issue Date: 21-3-2003<br>Effective Date: 31-3-2003<br>Last date noted as effective: 2005-10-03<br>Status: Superseded By Variation |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                 |
|-----|--------------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49G | 458          | SW        | 422960<br>420450 | Operator: Lawton Yarns Limited<br>Installation Name: Ravens Ing Mills<br>Process: COATING, PRINTING AND TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY<br>Permit Number: BP3731ZS<br>Original Permit Number: BP3731ZS<br>EPR Reference: -<br>Issue Date: 1/3/2013<br>Effective Date: 1/3/2013<br>Last date noted as effective: 2015-04-01<br>Status: Transfer Effective |
| 50G | 458          | SW        | 422960<br>420450 | Operator: William S Graham And Sons (dewsbury) Ltd<br>Installation Name: -<br>Process: COATING, PRINTING & TEXTILES; PRE-TREATING BY WASHING ETC >10T/DAY<br>Permit Number: BU9394<br>Original Permit Number: BR4942<br>EPR Reference: -<br>Issue Date: 20-6-2003<br>Effective Date: 20-6-2003<br>Last date noted as effective: 2004-10-01<br>Status: Superseded By Pas |

### 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:

2

The following List 2 Dangerous Substance Inventory Site records are represented as points on the Environmental Permits, Incidents and Registers Map:

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                    |
|-----|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16D | 320          | SW        | 423100<br>420500 | Name: New List2 Water Site 14<br>Status: Active<br>Receiving Water: Spen Beck<br>Authorised Substances: Dichlorvos, Atrazine & Simazine, Trifluralin, MCPA |
| 17  | 372          | SW        | 423100<br>420430 | Name: W.s. Graham & Sons Ltd, Dewsbury<br>Status: Not Active<br>Receiving Water: Unknown<br>Authorised Substances: Chromium, Permethrin                    |

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

2

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                                                                                                                                                                                                                                                                                                            |
|----|--------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 44 | 59           | SW        | 423299<br>420673 | Address: The Autocentre (Dewsbury) Ltd, 299 Huddersfield Road, Scout Hill, Dewsbury, WF13 3RW<br>Process: Waste Oil Burner <0.4 MW<br>Status: Current Permit<br>Permit Type: Part B<br>Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| 45 | 309          | E         | 423682<br>420721 | Address: British Millerrain Co Ltd, Calder Works, Thornhill Road, Dewsbury, WF12 9QQ<br>Process: Fabric Coating A2<br>Status: Historical Permit<br>Permit Type: Part B<br>Enforcement: No Enforcements Notified<br>Date of Enforcement: No Enforcements Notified<br>Comment: No Enforcements 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:

21

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

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----|--------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 18E | 294          | SW        | 423150<br>420490 | Address: SPENBOROUGH SPS STORM TANK SITE, SMITHIES LANE, LIVERSEDGE, CLECKHEATON, WEST YORKSHIRE, WF16 0PN<br>Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY<br>Permit Number: NPSWQD009808<br>Permit Version: 1<br>Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 15/03/2010<br>Effective Date: 15-Mar-2010<br>Revocation Date: -               |
| 19E | 294          | SW        | 423150<br>420490 | Address: SPENBOROUGH SPS STORM TANK SITE, SMITHIES LANE, LIVERSEDGE, CLECKHEATON, WEST YORKSHIRE, WF16 0PN<br>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: NPSWQD009808<br>Permit Version: 1<br>Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 15/03/2010<br>Effective Date: 15-Mar-2010<br>Revocation Date: - |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----|--------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20E | 300          | SW        | 423140<br>420490 | <p>Address: SPENBOROUGH WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE</p> <p>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY</p> <p>Permit Number: E56<br/>Permit Version: 6</p> <p>Receiving Water:<br/>Status: CONSENT EXPIRED - TIME LIMIT<br/>Issue date: 01/07/1999<br/>Effective Date: 01-Jul-1999<br/>Revocation Date: 31/03/2000</p>                                                      |
| 21E | 300          | SW        | 423140<br>420490 | <p>Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD</p> <p>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY</p> <p>Permit Number: WRA7549<br/>Permit Version: 3</p> <p>Receiving Water:<br/>Status: NEW CONSENT (WRA 91, S88 &amp; SCHED 10 AS AMENDED BY ENV ACT 1995)<br/>Issue date: 14/10/2008<br/>Effective Date: 01-Apr-2009<br/>Revocation Date: 30/03/2010</p>        |
| 22E | 300          | SW        | 423140<br>420490 | <p>Address: SPENBOROUGH WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE</p> <p>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY</p> <p>Permit Number: E56<br/>Permit Version: 6</p> <p>Receiving Water:<br/>Status: CONSENT EXPIRED - TIME LIMIT<br/>Issue date: 01/07/1999<br/>Effective Date: 01-Jul-1999<br/>Revocation Date: 31/03/2000</p>                                                             |
| 23E | 300          | SW        | 423140<br>420490 | <p>Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD</p> <p>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY</p> <p>Permit Number: WRA7549<br/>Permit Version: 2</p> <p>Receiving Water:<br/>Status: SURRENDERED UNDER EPR 2010<br/>Issue date: 25/02/2005<br/>Effective Date: 31-Mar-2010<br/>Revocation Date: 18/09/2010</p>                                          |
| 24E | 300          | SW        | 423140<br>420490 | <p>Address: SPENBOROUGH WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE</p> <p>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY</p> <p>Permit Number: E56<br/>Permit Version: 7</p> <p>Receiving Water:<br/>Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br/>Issue date: 22/10/1998<br/>Effective Date: 16-Nov-1998<br/>Revocation Date: 30/06/1999</p>                   |
| 25E | 300          | SW        | 423140<br>420490 | <p>Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD</p> <p>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY</p> <p>Permit Number: WRA7549<br/>Permit Version: 2</p> <p>Receiving Water:<br/>Status: SURRENDERED UNDER EPR 2010<br/>Issue date: 25/02/2005<br/>Effective Date: 31-Mar-2010<br/>Revocation Date: 18/09/2010</p>                                                 |
| 26E | 300          | SW        | 423140<br>420490 | <p>Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD</p> <p>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY</p> <p>Permit Number: WRA7549<br/>Permit Version: 3</p> <p>Receiving Water:<br/>Status: NEW CONSENT (WRA 91, S88 &amp; SCHED 10 AS AMENDED BY ENV ACT 1995)<br/>Issue date: 14/10/2008<br/>Effective Date: 01-Apr-2009<br/>Revocation Date: 30/03/2010</p> |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                          |                                                                                                                                                                                            |
|-----|--------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 27E | 300          | SW        | 423140<br>420490 | Address: NORTH BIERLEY WWTW, CLIFFE HOLLINS LANE, BRADFORD, WEST YORKSHIRE<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: E14<br>Permit Version: 11                              | Receiving Water:<br>Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br>Issue date: 16/03/1999<br>Effective Date: 30-Mar-1999<br>Revocation Date: 24/10/1999              |
| 28E | 300          | SW        | 423140<br>420490 | Address: SPENBOROUGH WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE<br>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: E56<br>Permit Version: 7               | Receiving Water:<br>Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br>Issue date: 22/10/1998<br>Effective Date: 16-Nov-1998<br>Revocation Date: 30/06/1999 |
| 29E | 300          | SW        | 423140<br>420490 | Address: NORTH BIERLEY WWTW, CLIFFE HOLLINS LANE, BRADFORD, WEST YORKSHIRE<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: E14<br>Permit Version: 10                              | Receiving Water:<br>Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995)<br>Issue date: 16/03/1999<br>Effective Date: 16-Mar-1999<br>Revocation Date: 29/03/1999              |
| 30E | 300          | SW        | 423140<br>420490 | Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: WRA7549<br>Permit Version: 1        | Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 25/10/1999<br>Effective Date: 01-Apr-2000<br>Revocation Date: 31/03/2009        |
| 31E | 300          | SW        | 423140<br>420490 | Address: SPEN VALLEY WWTW, THE BOTTOMS, SMITHIES LANE, HECKMONDWIKE, WEST YORKSHIRE, WF13 3RD<br>Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY<br>Permit Number: WRA7549<br>Permit Version: 1 | Receiving Water:<br>Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 25/10/1999<br>Effective Date: 01-Apr-2000<br>Revocation Date: 31/03/2009        |
| 32E | 300          | SW        | 423140<br>420490 | Address: NORTH BIERLEY WWTW, CLIFFE HOLLINS LANE, BRADFORD, WEST YORKSHIRE<br>Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY<br>Permit Number: E14<br>Permit Version: 12                              | Receiving Water:<br>Status: CONSENT EXPIRED - TIME LIMIT<br>Issue date: 25/10/1999<br>Effective Date: 25-Oct-1999<br>Revocation Date: 31/03/2000                                           |
| 33  | 327          | SW        | 423150<br>420450 | Address: THORNHILL SAND AND GRAVEL, CLADER ROAD, RAVENSTHORPE, DEWSBURY, WEST YORKSHIRE<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: WRA7279<br>Permit Version: 1                                        | Receiving Water:<br>Status: REVOKED - UNSPECIFIED<br>Issue date: 28/01/1997<br>Effective Date: 28-Jan-1997<br>Revocation Date: 09/03/2000                                                  |
| 34  | 335          | SE        | 423553<br>420480 | Address: FORGE LANE QUARRY, LAND ADJACENT TO FORGE LANE, DEWSBURY, WEST YORKSHIRE, WF12 9BU<br>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: EPRAB3499EV<br>Permit Version: 1                                | Receiving Water:<br>Status: NEW ISSUED UNDER EPR 2010<br>Issue date: 18/06/2014<br>Effective Date: 05-Sep-2014<br>Revocation Date: -                                                       |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                  |
|-----|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 35  | 344          | SE        | 423540<br>420457 | <p>Address: FORGE LANE QUARRY, LAND ADJACENT TO FORGE LANE, DEWSBURY, WEST YORKSHIRE, WF12 9BU</p> <p>Effluent Type: TRADE DISCHARGES - SITE DRAINAGE</p> <p>Permit Number: EPRAB3499EV</p> <p>Permit Version: 1</p> <p>Receiving Water:<br/>Status: NEW ISSUED UNDER EPR 2010<br/>Issue date: 18/06/2014<br/>Effective Date: 05-Sep-2014<br/>Revocation Date: -</p>                     |
| 36F | 353          | W         | 422940<br>420720 | <p>Address: SCOUT HILL CSO, SCOUT HILL, RAVENSTHORPE, DEWSBURY, WEST YORKSHIRE</p> <p>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY</p> <p>Permit Number: WADC1314</p> <p>Permit Version: 1</p> <p>Receiving Water:<br/>Status: TRANSFERRED FROM WATER ACT 1989<br/>Issue date: 18/09/1989<br/>Effective Date: 18-Sep-1989<br/>Revocation Date: 13/04/2009</p> |
| 37F | 353          | W         | 422940<br>420720 | <p>Address: SCOUT HILL CSO, SCOUT HILL, RAVENSTHORPE, DEWSBURY, WEST YORKSHIRE</p> <p>Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY</p> <p>Permit Number: WADC1314</p> <p>Permit Version: 2</p> <p>Receiving Water:<br/>Status: TRANSFERRED FROM WATER ACT 1989<br/>Issue date: 14/04/2009<br/>Effective Date: 14-Apr-2009<br/>Revocation Date: -</p>          |
| 38  | 397          | SW        | 423100<br>420400 | <p>Address: TARMAC ROADSTONE LIMITED THORNHILL, SAND AND GRAVEL WORKS RAVENSTHOR, PE DEWSBURY</p> <p>Effluent Type: TRADE DISCHARGES - UNSPECIFIED</p> <p>Permit Number: C5504</p> <p>Permit Version: 1</p> <p>Receiving Water:<br/>Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995<br/>Issue date: 28/04/1989<br/>Effective Date: 28-Apr-1989<br/>Revocation Date: 01/10/1996</p> |

#### 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:

0

Database searched and no data found.

## 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 Recorded Pollution Incidents

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

15

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

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                       |
|-----|--------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1A  | 81           | S         | 423310<br>420647 | Incident Date: 23-Apr-2002<br>Incident Identification: 74175<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor)                                         |
| 2A  | 81           | S         | 423310<br>420647 | Incident Date: 23-Apr-2002<br>Incident Identification: 74175<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 3 (Minor)                                         |
| 3   | 102          | S         | 423360<br>420630 | Incident Date: 13-May-2002<br>Incident Identification: 78394<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Commercial Waste<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                                   |
| 4   | 148          | S         | 423290<br>420582 | Incident Date: 07-Feb-2010<br>Incident Identification: 751593<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 2 (Significant)                                 |
| 5   | 297          | SW        | 423070<br>420570 | Incident Date: 22-May-2002<br>Incident Identification: 80505<br>Pollutant: Oils and Fuel<br>Pollutant Description: Unidentified Oil<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                                          |
| 6E  | 308          | SW        | 423138<br>420482 | Incident Date: 19-Aug-2001<br>Incident Identification: 25271<br>Pollutant: Oils and Fuel<br>Pollutant Description: Unidentified Oil<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                                          |
| 7D  | 317          | SW        | 423102<br>420501 | Incident Date: 28-Jun-2001<br>Incident Identification: 11969<br>Pollutant: Organic Chemicals/Products<br>Pollutant Description: Paints and Varnishes<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)                         |
| 8B  | 347          | SW        | 423166<br>420418 | Incident Date: 14-Mar-2002<br>Incident Identification: 64073<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 9   | 350          | SE        | 423630<br>420530 | Incident Date: 22-Apr-2002<br>Incident Identification: 73720<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Commercial Waste<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)                                   |
| 10B | 352          | SW        | 423170<br>420410 | Incident Date: 30-May-2002<br>Incident Identification: 82036<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes<br>Water Impact: Category 3 (Minor)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                 |                                                                                                               |
|-----|--------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 11  | 398          | SW        | 423130<br>420380 | Incident Date: 14-Apr-2002<br>Incident Identification: 71357<br>Pollutant: Oils and Fuel<br>Pollutant Description: Unidentified Oil                                                     | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 12C | 428          | SW        | 423001<br>420447 | Incident Date: 20-Jun-2002<br>Incident Identification: 86319<br>Pollutant: Atmospheric Pollutants and Effects: Contaminated Water<br>Pollutant Description: Smoke: Firefighting Run-Off | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)     |
| 13C | 428          | SW        | 423001<br>420447 | Incident Date: 20-Jun-2002<br>Incident Identification: 86319<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                           | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)     |
| 14C | 428          | SW        | 423001<br>420447 | Incident Date: 20-Jun-2002<br>Incident Identification: 86319<br>Pollutant: Contaminated Water<br>Pollutant Description: Firefighting Run-Off                                            | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)     |
| 15  | 438          | N         | 423291<br>421248 | Incident Date: 20-Aug-2003<br>Incident Identification: 183765<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) |

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

0

Database searched and no data found.

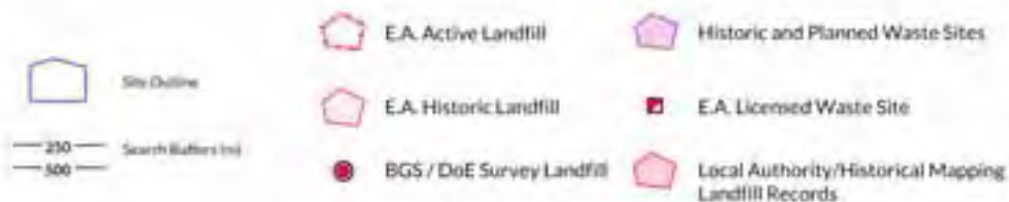
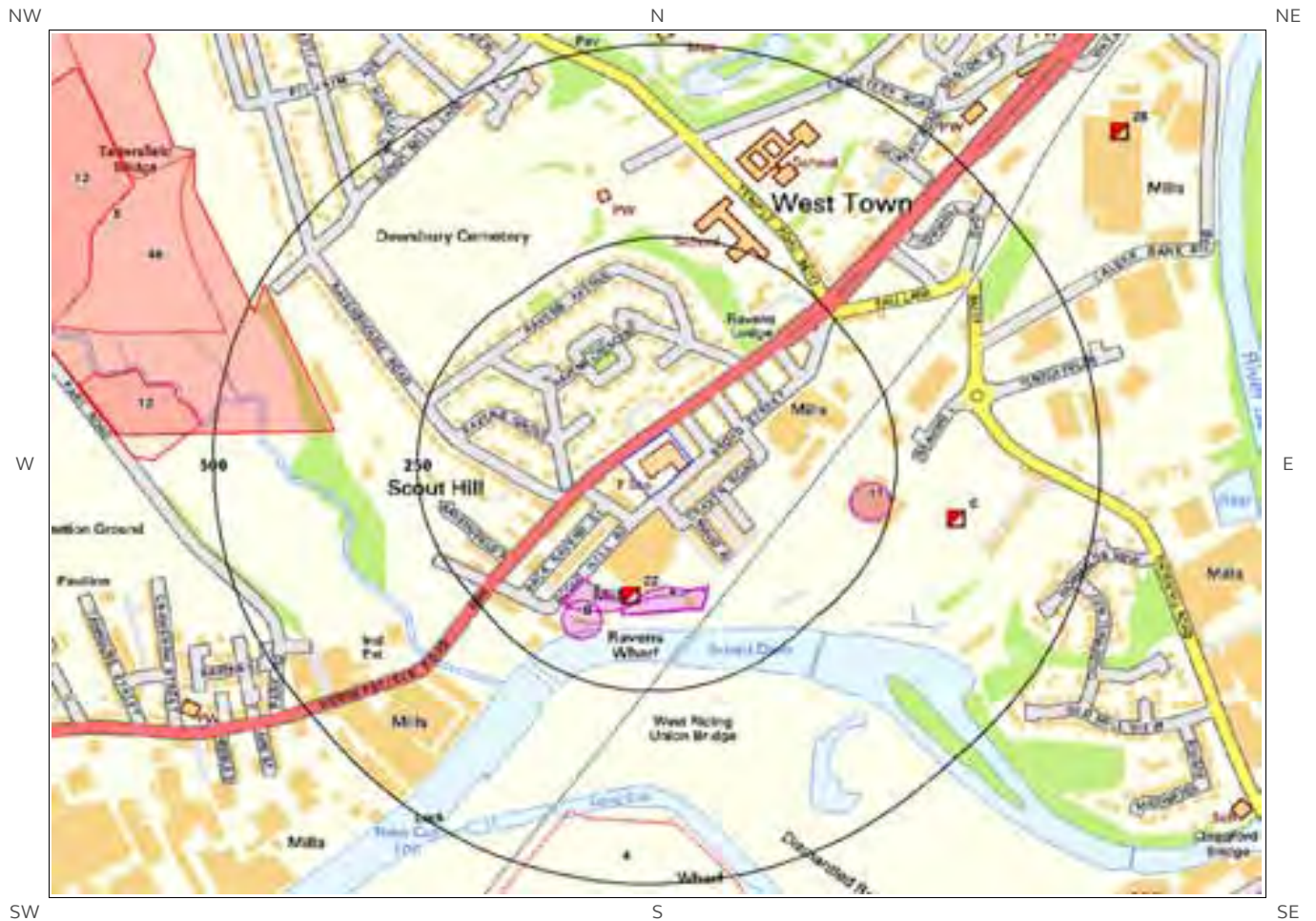
## 2.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many 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



# 3. Landfill and Other Waste Sites

## 3.1 Landfill Sites

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

2

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

| ID | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|--------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4  | 418          | S         | 423280<br>420170 | <p>Address: Thornhill Quarry Landfill Site, Calder Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12 9EA<br/>Landfill Reference: 61044.0<br/>Environmental Permitting Regulations (Waste) Reference: DEM002<br/>Landfill Type: WASTE LANDFILLING; &gt;10 T/D WITH CAPACITY &gt;25,000T EXCLUDING INERT WASTE</p> <p>Operator: Demex Limited<br/>Status: Effective<br/>IPPC Reference:<br/>EPR Reference:</p> |
| 5  | 513          | W         | 422500<br>421500 | <p>Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br/>Landfill Reference: 61058.0<br/>Environmental Permitting Regulations (Waste) Reference: KIR008<br/>Landfill Type: A4 : Household, Commercial &amp; Industrial Waste Landfill</p> <p>Operator: Kirklees Council<br/>Status: Issued<br/>IPPC Reference:<br/>EPR Reference:</p>                                       |

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

10

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                                                                                                                                                                                                                                                                                                                 |
|----|--------------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | 518          | W         | 422600<br>420800 | <p>Site Address: Park Road, Ravensthorpe<br/>Waste Licence: -<br/>Site Reference: -<br/>Waste Type: -<br/>Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue:<br/>Licence Surrendered:<br/>Licence Hold Address: -<br/>Operator: -<br/>First Recorded: 14-Feb-1951<br/>Last Recorded: -</p> |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                     |
|-----------|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13        | 694          | W         | 422500<br>421000 | Site Address: Pilgrim Tip, Off Ravenhouse Road, Dewsbury Moor, West Yorkshire<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Commercial, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: -                                     | Licence Issue:<br>Licence Surrendered:<br>Licence Hold Address: -<br>Operator: Dewsbury County Borough Council<br>First Recorded: 31-Dec-1934<br>Last Recorded: -                                                                   |
| Not shown | 817          | S         | 422900<br>419800 | Site Address: Land ar Ravensthorpe Road, Thornhill Lees, Dewsbury<br>Waste Licence: Yes<br>Site Reference: 500, 4700/0756<br>Waste Type: Inert, Commercial<br>Environmental Permitting Regulations (Waste) Reference: -                                          | Licence Issue: 02-Oct-1985<br>Licence Surrendered: 30-Apr-1994<br>Licence Hold Address: Ravensthorpe Road, Thornhill Lees, Dewsbury<br>Operator: -<br>First Recorded: 31-Oct-1985<br>Last Recorded: 31-Dec-1986                     |
| Not shown | 854          | S         | 423010<br>419838 | Site Address: C R Longley Ltd, Ravensthorpe Road, Dewsbury, Thornhill Lees, West Yorkshire<br>Waste Licence: Yes<br>Site Reference: 48, NE4654<br>Waste Type: Inert, Industrial, Special<br>Environmental Permitting Regulations (Waste) Reference: YQ1/L/JOH001 | Licence Issue: 13-Apr-1992<br>Licence Surrendered: 08-Jul-2010<br>Licence Hold Address: Ravensthorpe Road, Dewsbury, Thornhill Lees, West Yorkshire<br>Operator: C R Longley Ltd<br>First Recorded: 31-Dec-1900<br>Last Recorded: - |
| Not shown | 883          | E         | 424500<br>420300 | Site Address: Railway Cutting off Savile Road, Savile Town, Dewsbury<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial, Liquid sludge<br>Environmental Permitting Regulations (Waste) Reference: -                                       | Licence Issue:<br>Licence Surrendered:<br>Licence Hold Address: -<br>Operator: -<br>First Recorded: 01-Jan-1996<br>Last Recorded: 31-Dec-1999                                                                                       |
| Not shown | 1001         | SW        | 422600<br>419600 | Site Address: Thornhill Power Station, Calder Road, Ravensthorpe, West Yorkshire<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: -                                          | Licence Issue:<br>Licence Surrendered:<br>Licence Hold Address: -<br>Operator: Central Electricity Generating Board<br>First Recorded: 31-Dec-1923<br>Last Recorded: -                                                              |
| Not shown | 1005         | SE        | 423800<br>419600 | Site Address: Forge Lane, Thornhill Steel Works, Dewsbury<br>Waste Licence: Yes<br>Site Reference: 4700/0030<br>Waste Type: Inert, Industrial, Commercial<br>Environmental Permitting Regulations (Waste) Reference: -                                           | Licence Issue: 23-Jun-1977<br>Licence Surrendered: 10-Jul-1989<br>Licence Hold Address: Thornhill Steel Works, Dewsbury<br>Operator: -<br>First Recorded: 31-Dec-1947<br>Last Recorded: 30-Jun-1989                                 |
| Not shown | 1098         | NW        | 422000<br>421300 | Site Address: Northorpe Sewage Farm Refuse Tip, Mirfield, West Yorkshire<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Commercial<br>Environmental Permitting Regulations (Waste) Reference: -                                                         | Licence Issue:<br>Licence Surrendered:<br>Licence Hold Address: -<br>Operator: Mirfield Urban District Council<br>First Recorded: -<br>Last Recorded: -                                                                             |
| Not shown | 1243         | NW        | 422200<br>421700 | Site Address: Carr Lane, Off Heckmondwike Road, Dewsbury, Cleckheaton, West Yorkshire<br>Waste Licence: -<br>Site Reference: -<br>Waste Type: Commercial<br>Environmental Permitting Regulations (Waste) Reference: -                                            | Licence Issue:<br>Licence Surrendered:<br>Licence Hold Address: -<br>Operator: Spenborough Borough Council<br>First Recorded: 11-Jul-1972<br>Last Recorded: -                                                                       |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 1325         | E         | 424700<br>420600 | <p>Site Address: Disused Railway Cutting, Scarborough Street, Savile Town, Dewsbury</p> <p>Waste Licence: Yes</p> <p>Site Reference: 4700/0198</p> <p>Waste Type: Inert, Industrial, Commercial</p> <p>Environmental Permitting Regulations (Waste) Reference: -</p> <p>Licence Issue: 23-Jul-1979</p> <p>Licence Surrendered: 30-Sep-1982</p> <p>Licence Hold Address: Civic Centre, Huddersfield</p> <p>Operator: -</p> <p>First Recorded: 31-Dec-1979</p> <p>Last Recorded: 30-Sep-1982</p> |

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

3

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

| ID        | Distance (m) | Direction | NGR                  | Details                                                                                                                                            |
|-----------|--------------|-----------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 855          | NW        | 422500.0<br>421100.0 | <p>Address: Pilgrim Tip, off Ravenhouse Road, Dewsbury Moor</p> <p>BGS Number: 635.0</p> <p>Risk: Risk to minor aquifer</p> <p>Waste Type: N/A</p> |
| Not shown | 1297         | NW        | 422500.0<br>421800.0 | <p>Address: Carrlanes, off Heckmand Rd, Dewsbury, Cleckheaton</p> <p>BGS Number: 1883.0</p> <p>Risk: No risk to aquifer</p> <p>Waste Type: N/A</p> |
| Not shown | 1301         | NW        | 422100.0<br>421300.0 | <p>Address: North Sewage Farm Refuse Tip, Mirfield, W Yorks</p> <p>BGS Number: 859.0</p> <p>Risk: No risk to aquifer</p> <p>Waste Type: N/A</p>    |

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

12

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 |
|-----------|--------------|-----------|------------------|-------------------|-------------------------------|-----------|
| 49        | 353          | W         | 422393<br>421481 | Lower Spen Valley | Kirklees Metropolitan Council | Polygon   |
| Not shown | 752          | S         | 423510<br>419922 | Refuse Tip        | 1963 mapping                  | Polygon   |
| Not shown | 798          | SE        | 423675<br>419977 | Refuse Tip        | 1963 mapping                  | Polygon   |
| Not shown | 822          | SE        | 423737<br>419982 | Refuse Tip        | 1963 mapping                  | Polygon   |
| Not shown | 833          | S         | 423517<br>419837 | Refuse Tip        | 1963 mapping                  | Polygon   |
| Not shown | 845          | W         | 422454<br>420983 | Public Refuse Tip | 1993 mapping                  | Polygon   |
| Not shown | 845          | W         | 422454<br>420983 | Public Refuse Tip | 1994 mapping                  | Polygon   |

| ID        | Distance (m) | Direction | NGR              | Site Address | Source       | Data Type |
|-----------|--------------|-----------|------------------|--------------|--------------|-----------|
| Not shown | 849          | W         | 422318<br>420961 | Refuse Tip   | 1993 mapping | Polygon   |
| Not shown | 849          | W         | 422318<br>420961 | Refuse Tip   | 1994 mapping | Polygon   |
| Not shown | 919          | W         | 422332<br>420969 | Refuse Tip   | 1960 mapping | Polygon   |
| Not shown | 1236         | SW        | 422524<br>419688 | Refuse Tip   | 1971 mapping | Polygon   |
| Not shown | 1270         | SE        | 423950<br>419614 | Refuse Tip   | 1963 mapping | Polygon   |

## 3.2 Other Waste Sites

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

6

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                                                                                                       |                                                             |                                                                                                                                                                                                                                                                                        |
|----|--------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6A | 116          | S         | 423341<br>420593 | Type of Site: Scrap Metal 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                                                                                                                                                                                                            |
| 7A | 128          | S         | 423343<br>420593 | Type of Site: Scrap Metal Yard<br>Site Address: N/A                                                           | Planning Application Reference: N/A<br>Date: 1974           | Further Details: N/A<br>Data Source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                            |
| 8  | 132          | SW        | 423256<br>420599 | Type of Site: Scrap Metal 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                                                                                                                                                                                                            |
| 9B | 154          | SW        | 423241<br>420568 | Type of Site: Waste Transfer Stations<br>Site Address: Scout Hill Terrace, DEWSBURY, West Yorkshire, WF13 3RE | Planning Application Reference: 2004/62/91842/E0<br>Date: - | Further Details: Scheme comprises construction of building to house waste transfer station. An application (ref: 2004/62/91842/E0) for Detailed Planning permission was submitted to Kirklees B.C. on 25th May 2004.<br>Data Source: Historic Planning Application<br>Data Type: Point |

| ID  | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                |
|-----|--------------|-----------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10B | 154          | SW        | 423241<br>420568 | Type of Site: Waste Transfer Station<br>Site Address: Ravenswharfe Road, Scout Hill, DEWSBURY, West Yorkshire, WF13 3RD<br>Planning Application Reference: 2002/62/92786/E0<br>Date: -             | Further Details: Scheme comprises of use of land as waste transfer station and construction of a storage and work area building. An application (ref: 2002/62/92786/E0) for Detailed Planning permission was submitted to Kirklees B.C. on 28th August 2002.<br>Data Source: Historic Planning Application<br>Data Type: Point |
| 11  | 199          | E         | 423595<br>420721 | Type of Site: Waste Transfer Station<br>Site Address: Thornhill Road Transfer Stn, Thornhill Road, DEWSBURY, West Yorkshire, WF12 9<br>Planning Application Reference: 2007/62/93107/E0<br>Date: - | Further Details: Scheme comprises use of waste transfer station for external storage of sorted recyclable materials. An application (ref: 2007/62/93107/E0) for detailed planning permission was granted by Kirklees B.C.<br>Planning decision obtained<br>Data Source: Historic Planning Application<br>Data Type: Point      |

### 3.2.2 Records of Environment Agency 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                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                    |
|-----|--------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22  | 129          | S         | 423300<br>420600 | Site Address: Land/premises At, Ravenswharfe Road, Scout Hill, Dewsbury, West Yorkshire, WF13 3RD<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: >= 25000 tonnes < 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: HIN001<br>EPR reference: EA/EPR/KP3895ZL/T001<br>Operator: Hinchcliffe Roy<br>Waste Management licence No: 61022<br>Annual Tonnage: 70000.0 | Issue Date: 26/02/1993<br>Effective Date: 20/10/2000<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred<br>Site Name: Forge Plant Hire<br>Correspondence Address: -, -                            |
| 23C | 331          | E         | 423700<br>420700 | Site Address: Thornhill Transfer Station, Weaving Lane, Dewsbury, West Yorkshire, WF13 3RU<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR010<br>EPR reference: QP3494ZQ/V002<br>Operator: Sita (kirklees) Limited<br>Waste Management licence No: 65180<br>Annual Tonnage: 150000.0                     | Issue Date: 25/04/2001<br>Effective Date: -<br>Modified: 24/06/2005<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Thornhill Integrated Waste Management Facility<br>Correspondence Address: -, - |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                          |
|-----------|--------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24C       | 331          | E         | 423700<br>420700 | Site Address: Thornhill Transfer Station,<br>Weaving Lane, Dewsbury, West Yorkshire,<br>WF13 3RU<br>Type: Household, Commercial & Industrial<br>Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations<br>(Waste) Licence Number: KIR010<br>EPR reference: EA/EPR/QP3494ZQ/V002<br>Operator: Sita ( Kirklees ) Ltd<br>Waste Management licence No: 65180<br>Annual Tonnage: 150000.0          | Issue Date: 25/04/2001<br>Effective Date: -<br>Modified: 24/06/2005<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Thornhill Integrated Waste<br>Management Facility<br>Correspondence Address: -, -                    |
| 25C       | 331          | E         | 423700<br>420700 | Site Address: Thornhill Transfer Station,<br>Weaving Lane, Dewsbury, West Yorkshire,<br>WF13 3RU<br>Type: Household, Commercial & Industrial<br>Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations<br>(Waste) Licence Number: KIR010<br>EPR reference: EA/EPR/QP3494ZQ/V002<br>Operator: Sita ( Kirklees ) Limited<br>Waste Management licence No: 65180<br>Annual Tonnage: 150000.0      | Issue Date: 25/04/2001<br>Effective Date: -<br>Modified: 24/06/2005<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified<br>Site Name: Thornhill Integrated Waste<br>Management Facility<br>Correspondence Address: -, -                    |
| Not shown | 527          | S         | 423300<br>420200 | Site Address: Thornhill Quarry,<br>Ravensthorpe Road, Ravensthorpe,<br>Dewsbury, West Yorkshire, WF12 9EA<br>Type: Other Landfill Site taking Special<br>Waste<br>Size: >= 25000 tonnes < 75000 tonnes<br>Environmental Permitting Regulations<br>(Waste) Licence Number: DEM002<br>EPR reference: EA/EPR/HP3595ZA/V002<br>Operator: Demex Limited<br>Waste Management licence No: 61044<br>Annual Tonnage: 74999.0 | Issue Date: 10/01/1994<br>Effective Date: -<br>Modified: 30/06/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: To PPC<br>Site Name: Demex Ltd<br>Correspondence Address: -, -                                                              |
| Not shown | 527          | S         | 423300<br>420200 | Site Address: Thornhill Quarry,<br>Ravensthorpe Road, Ravensthorpe,<br>Dewsbury, West Yorkshire, WF12 9EA<br>Type: Co-Disposal Landfill Site<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations<br>(Waste) Licence Number: DEM002<br>EPR reference: -<br>Operator: Demex Limited<br>Waste Management licence No: 61044<br>Annual Tonnage: 0.0                                                          | Issue Date: 10/01/1994<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Demex Ltd<br>Correspondence Address: -, Bernera<br>Works, Psalters Lane, Rotherham, South<br>Yorkshire, S61 1DQ |
| 28        | 675          | NE        | 423900<br>421200 | Site Address: West End Mills, Watergate<br>Road, Dewsbury, West Yorkshire, WF12<br>9QB<br>Type: Household, Commercial & Industrial<br>Waste T Stn<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations<br>(Waste) Licence Number: CJB001<br>EPR reference: EA/EPR/KP3695ZQ/A001<br>Operator: C & J Blackburn<br>Waste Management licence No: 61026<br>Annual Tonnage: 24999.0                            | Issue Date: 06/06/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: C & J Blackburn<br>Correspondence Address: -, -                                                                 |

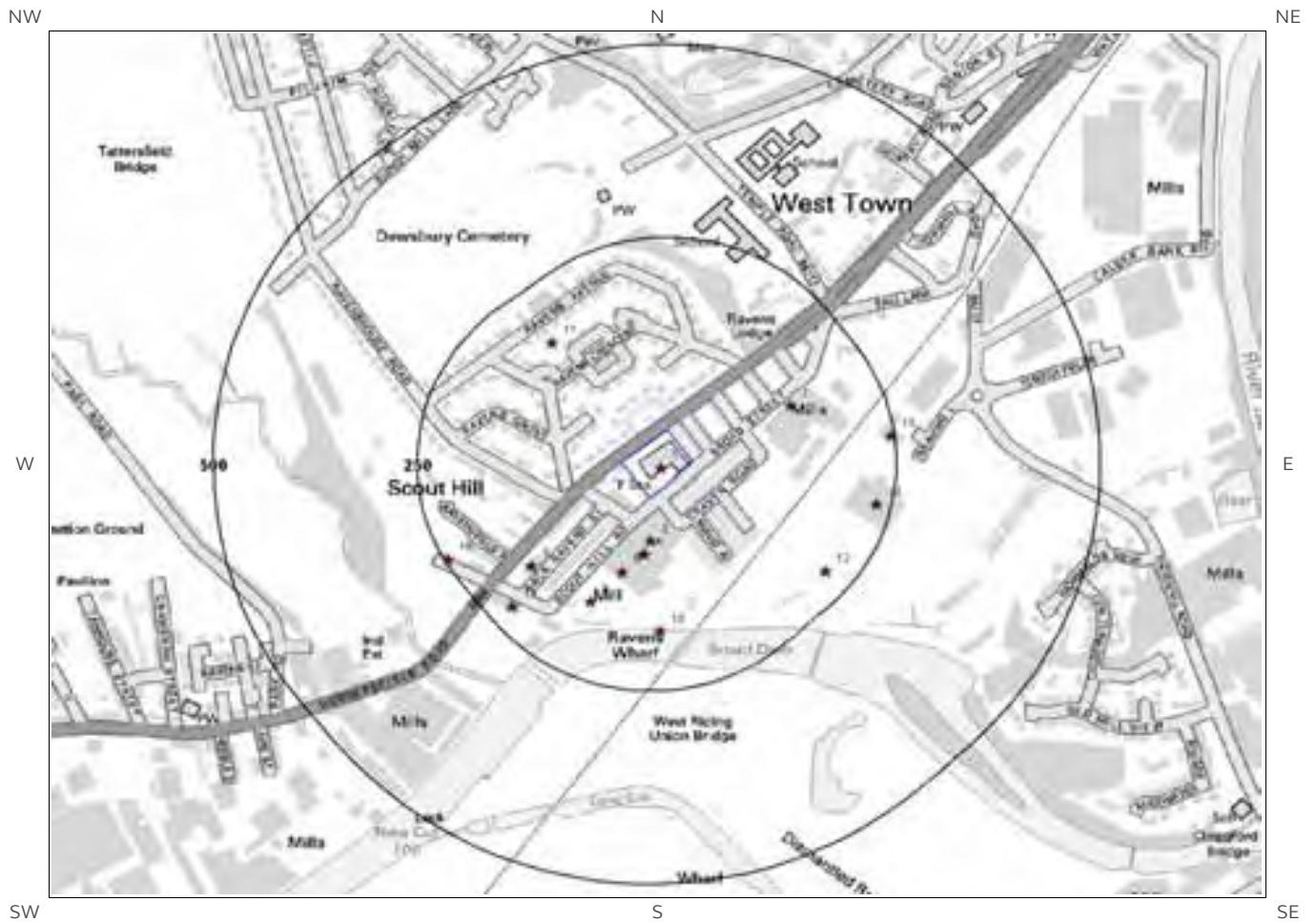
| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------|--------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 846          | W         | 422461<br>420946 | <p>Site Address: Lower Spen Valley Hws 2, Park Road, Dewsbury, West Yorkshire<br/>Type: Household Waste Amenity Site<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: KIR006<br/>EPR reference: EA/EPR/FP3895ZJ/S002<br/>Operator: Sita ( Kirklees ) Ltd<br/>Waste Management licence No: 61056<br/>Annual Tonnage: 12716.0</p> <p>Issue Date: 28/03/1998<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: 09/04/2003<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Surrendered<br/>Site Name: Lower Spen Valley H W S<br/>Correspondence Address: -, -</p>                                                |
| Not shown | 846          | W         | 422461<br>420946 | <p>Site Address: Lower Spen Valley Hws 2, Park Road, Dewsbury, West Yorkshire<br/>Type: Household Waste Amenity Site<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: KIR006<br/>EPR reference: EA/EPR/FP3895ZJ/S002<br/>Operator: Sita (kirklees) Limited<br/>Waste Management licence No: 61056<br/>Annual Tonnage: 12716.0</p> <p>Issue Date: 28/03/1998<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: 09/04/2003<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Surrendered<br/>Site Name: Lower Spen Valley H W S<br/>Correspondence Address: -, -</p>                                              |
| Not shown | 856          | NE        | 423995<br>421371 | <p>Site Address: Cartwright Mill, Watergate Road, Dewsbury, West Yorks, WF12 9QB<br/>Type: HCI Waste TS + treatment<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: PWS001<br/>EPR reference: EA/EPR/AB3402FA/A001<br/>Operator: Price Waste Services Limited<br/>Waste Management licence No: 400585<br/>Annual Tonnage: 74999.0</p> <p>Issue Date: 23/09/2013<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: Cartwright Mill<br/>Correspondence Address: -, -</p>                                                               |
| Not shown | 879          | NE        | 424025<br>421371 | <p>Site Address: Ing Mills, Watergate Road, Dewsbury, West Yorkshire, WF12 9QB<br/>Type: Household, Commercial &amp; Industrial Waste T Stn<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: MGS001<br/>EPR reference: EA/EPR/XP3192ZD/A001<br/>Operator: M &amp; G Skips Ltd<br/>Waste Management licence No: 65284<br/>Annual Tonnage: 24999.0</p> <p>Issue Date: 31/03/2004<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Expired<br/>Site Name: Ingham Works<br/>Correspondence Address: -, -</p>                                                   |
| Not shown | 880          | NE        | 424030<br>421366 | <p>Site Address: Cartwright Mills, Watergate Road, Dewsbury, West Yorkshire, WF12 9QB<br/>Type: Household, Commercial &amp; Industrial Waste T Stn<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: MGS002<br/>EPR reference: EA/EPR/QP3392ZW/V002<br/>Operator: M G Skip Hire Ltd<br/>Waste Management licence No: 65499<br/>Annual Tonnage: 9130.0</p> <p>Issue Date: 04/09/2006<br/>Effective Date: -<br/>Modified: 31/05/2008<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Modified<br/>Site Name: M G Skip Hire Ltd<br/>Correspondence Address: -, -</p>                                |
| Not shown | 892          | S         | 422987<br>419901 | <p>Site Address: Ravensthorpe Road, Thornhill Lees, Dewsbury, West Yorkshire, WF12 9EF<br/>Type: Industrial Waste Landfill (Factory curtilage)<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: CRL001<br/>EPR reference: -<br/>Operator: C R Longley Limited<br/>Waste Management licence No: 61017<br/>Annual Tonnage: 0.0</p> <p>Issue Date: 13/04/1992<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: C R Longley Ltd<br/>Correspondence Address: -, Ravensthorpe Road, Thornhill Lees, Dewsbury, West Yorkshire, WF12 9EF</p> |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 915          | NW        | 422937<br>421632 | <p>Site Address: 14, Heckmondwike Road, Dewsbury, West Yorkshire, WF13 3PN<br/>Type: Household, Commercial &amp; Industrial Waste T Stn<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: WIL004<br/>EPR reference: EA/EPR/HP3895ZP/A001<br/>Operator: J &amp; D Wilkinson<br/>Waste Management licence No: 61045<br/>Annual Tonnage: 12000.0</p> <p>Issue Date: 16/08/1994<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: Wilkinson Brothers<br/>Correspondence Address: -, -</p>                                                            |
| Not shown | 943          | S         | 423010<br>419838 | <p>Site Address: Ravensthorpe Road, Thornhill Lees, Dewsbury, West Yorkshire, WF12 9EF<br/>Type: Industrial Waste Landfill (Factory curtilage)<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: CRL001<br/>EPR reference: EA/EPR/GP3795ZY/S002<br/>Operator: C R Longley And Company Limited<br/>Waste Management licence No: 61017<br/>Annual Tonnage: 0.0</p> <p>Issue Date: 13/04/1992<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: 08/07/2010<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Surrendered<br/>Site Name: C R Longley Ltd<br/>Correspondence Address: -, -</p>                                  |
| Not shown | 993          | NW        | 422900<br>421700 | <p>Site Address: Land Adjacent Jilllane Farm, Jill Lane, Mirfield, Dewsbury, West Yorkshire, WF14 0QN<br/>Type: Landfill taking Non-Biodegradable Wastes<br/>Size: &gt;= 25000 tonnes &lt; 75000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: SNE001<br/>EPR reference: -<br/>Operator: Snee J Mr<br/>Waste Management licence No: 61033<br/>Annual Tonnage: 0.0</p> <p>Issue Date: 20/06/1994<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: Snee<br/>Correspondence Address: -, Jill Lane Farm, Jill Lane, Mirfield, Dewsbury, West Yorkshire, WF14 0QN</p> |
| Not shown | 993          | NW        | 422900<br>421700 | <p>Site Address: Land Adjacent Jilllane Farm, Jill Lane, Mirfield, Dewsbury, West Yorkshire, WF14 0QN<br/>Type: Landfill taking Non-Biodegradable Wastes<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: SNE001<br/>EPR reference: EA/EPR/TP3895ZC/A001<br/>Operator: Snee J Mr<br/>Waste Management licence No: 61033<br/>Annual Tonnage: 24999.0</p> <p>Issue Date: 20/06/1994<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: Snee<br/>Correspondence Address: -, -</p>                                                                   |
| Not shown | 1023         | SW        | 422649<br>419959 | <p>Site Address: Thornhill Works, Calder Road, Dewsbury, West Yorks, WF12 9HY<br/>Type: Treatment of waste to produce soil &lt;75,000 tpy<br/>Size: &lt; 25000 tonnes<br/>Environmental Permitting Regulations (Waste) Licence Number: NEW183<br/>EPR reference: EA/EPR/CB3536RY/A001<br/>Operator: Newlay Concrete Ltd<br/>Waste Management licence No: 103451<br/>Annual Tonnage: 74999.0</p> <p>Issue Date: 20/01/2012<br/>Effective Date: -<br/>Modified: -<br/>Surrendered Date: -<br/>Expiry Date: -<br/>Cancelled Date: -<br/>Status: Issued<br/>Site Name: Newlay Concrete Ltd<br/>Correspondence Address: -, -</p>                                                        |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                       |
|-----------|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 1074         | NW        | 422500<br>421500 | Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br>Type: Household, Commercial & Industrial Waste Landfill<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR008<br>EPR reference: -<br>Operator: Kirklees Metropolitan Council<br>Waste Management licence No: 61058<br>Annual Tonnage: 0.0                      | Issue Date: 01/04/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Lower Spen Valley<br>Correspondence Address: -, West Riding House, 9, Manchester Road, Huddersfield, West Yorkshire, HD1 3HH |
| Not shown | 1074         | NW        | 422500<br>421500 | Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br>Type: Household, Commercial & Industrial Waste Landfill<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR008<br>EPR reference: -<br>Operator: Kirklees Metropolitan Council<br>Waste Management licence No: 61058<br>Annual Tonnage: 0.0                       | Issue Date: 01/04/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Lower Spen Valley<br>Correspondence Address: -, Strategic Waste, Vine Street, Huddersfield, West Yorkshire, HD1 6NT          |
| Not shown | 1074         | NW        | 422500<br>421500 | Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br>Type: Co-Disposal Landfill Site<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR008<br>EPR reference: -<br>Operator: Kirklees Metropolitan Council<br>Waste Management licence No: 61058<br>Annual Tonnage: 0.0                                              | Issue Date: 01/04/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Lower Spen Valley<br>Correspondence Address: -, West Riding House, 9, Manchester Road, Huddersfield, West Yorkshire, HD1 3HH |
| Not shown | 1074         | NW        | 422500<br>421500 | Site Address: Lower Spen Valley, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br>Type: Household, Commercial & Industrial Waste Landfill<br>Size: < 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR008<br>EPR reference: EA/EPR/FP3295ZH/A001<br>Operator: Kirklees Council<br>Waste Management licence No: 61058<br>Annual Tonnage: 250000.0            | Issue Date: 01/04/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued<br>Site Name: Lower Spen Valley<br>Correspondence Address: -, -                                                                            |
| Not shown | 1074         | NW        | 422500<br>421500 | Site Address: Lower Spen Valley T L S, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12<br>Type: Household, Commercial & Industrial Waste T Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: KIR011<br>EPR reference: EA/EPR/CP3095ZL/S002<br>Operator: Sita (kirklees) Limited<br>Waste Management licence No: 61063<br>Annual Tonnage: 168241.0 | Issue Date: 01/04/1996<br>Effective Date: -<br>Modified: -<br>Surrendered Date: 09/04/2003<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered<br>Site Name: Lower Spen Valley T L S<br>Correspondence Address: -, -                                                        |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 1074         | NW        | 422500<br>421500 | <p>Site Address: Lower Spen Valley T L S, Park Road, Ravensthorpe, Dewsbury, West Yorkshire, WF12</p> <p>Type: Household, Commercial &amp; Industrial Waste T Stn</p> <p>Size: &gt;= 75000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: KIR011</p> <p>EPR reference: EA/EPR/CP3095ZL/S002</p> <p>Operator: Sita ( Kirklees ) Ltd</p> <p>Waste Management licence No: 61063</p> <p>Annual Tonnage: 168241.0</p> <p>Issue Date: 01/04/1996</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 09/04/2003</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Lower Spen Valley T L S</p> <p>Correspondence Address: -, -</p> |
| Not shown | 1195         | SW        | 422300<br>420100 | <p>Site Address: Ravensthorpe Industrial Estate, Low Mill Lane, Dewsbury, West Yorkshire, WF13 3LN</p> <p>Type: Metal Recycling Site (mixed MRS's)</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: ART003</p> <p>EPR reference: EA/EPR/HP3995ZS/A001</p> <p>Operator: Arthur Brook Limited</p> <p>Waste Management licence No: 61043</p> <p>Annual Tonnage: 26000.0</p> <p>Issue Date: 07/10/1993</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Issued</p> <p>Site Name: Arthur Brook Ltd</p> <p>Correspondence Address: -, -</p>                                        |
| Not shown | 1266         | E         | 424600<br>421100 | <p>Site Address: Unit 25/26 Savile Business Centre, Mill Street East, Dewsbury, West Yorkshire, WF12 9AH</p> <p>Type: Physico-Chemical Treatment Facility</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: HIL003</p> <p>EPR reference: EA/EPR/EP3094ZL/A001</p> <p>Operator: Darren Hill &amp; Peter Mcknight</p> <p>Waste Management licence No: 65093</p> <p>Annual Tonnage: 4900.0</p> <p>Issue Date: 27/03/2000</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: -</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Expired</p> <p>Site Name: Hills Containers (northern)</p> <p>Correspondence Address: -, -</p>          |
| Not shown | 1405         | E         | 424781<br>420711 | <p>Site Address: Scarborough Street, Savile Town, Dewsbury, West Yorkshire, WF12 9AY</p> <p>Type: Metal Recycling Site (Vehicle Dismantler)</p> <p>Size: &lt; 25000 tonnes</p> <p>Environmental Permitting Regulations (Waste) Licence Number: RAY001</p> <p>EPR reference: EA/EPR/XP3695ZC/S002</p> <p>Operator: Ray Allen &amp; Sons</p> <p>Waste Management licence No: 61004</p> <p>Annual Tonnage: 4500.0</p> <p>Issue Date: 02/05/1990</p> <p>Effective Date: -</p> <p>Modified: -</p> <p>Surrendered Date: 04/04/2006</p> <p>Expiry Date: -</p> <p>Cancelled Date: -</p> <p>Status: Surrendered</p> <p>Site Name: Premises &amp; Yard</p> <p>Correspondence Address: -, -</p>                               |

## 4. Current Land Use Map



© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



## 4. Current Land Uses

### 4.1 Current Industrial Data

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

16

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

| ID | Distance (m) | Direction | Company                       | NGR              | Address                                                                  | Activity                                     | Category                      |
|----|--------------|-----------|-------------------------------|------------------|--------------------------------------------------------------------------|----------------------------------------------|-------------------------------|
| 1  | 0            | On Site   | Dewsbury Fire Station         | 423338<br>420764 | Huddersfield Road, Dewsbury, WF13 3RN                                    | Fire Brigade Stations                        | Central and Local Government  |
| 2  | 55           | S         | River Bank Enterprise Centre  | 423325<br>420671 | WF13                                                                     | Business Parks and Industrial Estates        | Industrial Features           |
| 3A | 73           | S         | H S G Pump Services           | 423316<br>420653 | Unit 13 Riverbank Enterprise Centre, Scout Hill Road, Dewsbury, WF13 3RQ | Industrial Repairs and Servicing             | Repair and Servicing          |
| 4A | 73           | S         | World Trade Suppliers Ltd     | 423316<br>420653 | Unit 1 Riverbank Enterprise Centre, Scout Hill Road, Dewsbury, WF13 3RQ  | Furniture                                    | Consumer Products             |
| 5A | 73           | S         | Sonter Engineering            | 423316<br>420653 | Unit 1 Riverbank Enterprise Centre, Scout Hill Road, Dewsbury, WF13 3RQ  | Precision Engineers                          | Engineering Services          |
| 6  | 101          | S         | G Wilson Fibres               | 423289<br>420631 | Scout Hill Road, Dewsbury, WF13 3RQ                                      | Textiles, Fabrics, Silk and Machinery        | Industrial Products           |
| 7  | 140          | NE        | Nespoli UK Ltd                | 423496<br>420845 | Stross House, Broad Street, Dewsbury, WF13 3SA                           | Brushes                                      | Consumer Products             |
| 8  | 152          | SW        | Scrap Metal Yard              | 423252<br>420593 | WF13                                                                     | Scrap Metal Merchants                        | Recycling Services            |
| 9  | 169          | SW        | The Autocentre Dewsbury Ltd   | 423179<br>420639 | 299, Huddersfield Road, Dewsbury, WF13 3RW                               | Vehicle Repair, Testing and Servicing        | Repair and Servicing          |
| 10 | 172          | S         | Ravens Wharf                  | 423337<br>420554 | WF13                                                                     | Moorings and Unloading Facilities            | Water                         |
| 11 | 176          | NW        | Electricity Sub Station       | 423204<br>420927 | WF13                                                                     | Electrical Features                          | Infrastructure and Facilities |
| 12 | 215          | SE        | Waste Recycling Centre        | 423540<br>420632 | WF12                                                                     | Recycling Centres                            | Infrastructure and Facilities |
| 13 | 220          | SW        | Hudson's Office Furniture Ltd | 423155<br>420586 | 1, Ravenswharfe Road, Dewsbury, WF13 3RD                                 | Office and Shop Equipment                    | Industrial Products           |
| 14 | 232          | E         | SITA UK Ltd                   | 423602<br>420718 | Weaving Lane, Dewsbury, WF12 9QR                                         | Waste Storage, Processing and Disposal       | Infrastructure and Facilities |
| 15 | 245          | E         | Armley Chairworks Ltd         | 423619<br>420805 | Unit 1 Thornhill Industrial Estate, Weaving Lane, Dewsbury, WF12 9QR     | Carpets, Flooring, Rugs and Soft Furnishings | Consumer Products             |

| ID | Distance (m) | Direction | Company             | NGR              | Address                                                     | Activity                   | Category      |
|----|--------------|-----------|---------------------|------------------|-------------------------------------------------------------|----------------------------|---------------|
| 16 | 246          | SW        | Mabey Hire Services | 423076<br>420647 | 1-5, Railway Street,<br>Ravensthorpe, Dewsbury,<br>WF13 3EJ | Construction and Tool Hire | Hire Services |

## 4.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site: 0

Database searched and no data found.

## 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

Database searched and no data found.

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

---

## 5.3 Bedrock and Solid Geology

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

| Lex Code  | Description                              | Rock Type                            |
|-----------|------------------------------------------|--------------------------------------|
| BRSR-SDST | BIRSTALL ROCK                            | SANDSTONE                            |
| PLCM-MDSS | PENNINE LOWER COAL MEASURES<br>FORMATION | MUDSTONE, SILTSTONE AND<br>SANDSTONE |
| PLCM-MDSS | PENNINE LOWER COAL MEASURES<br>FORMATION | MUDSTONE, SILTSTONE AND<br>SANDSTONE |

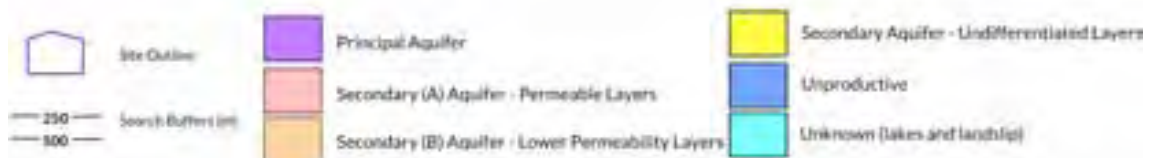
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

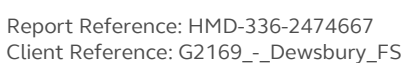
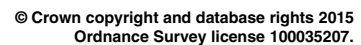
# 6 Hydrogeology and Hydrology

## 6a. Aquifer Within Superficial Geology

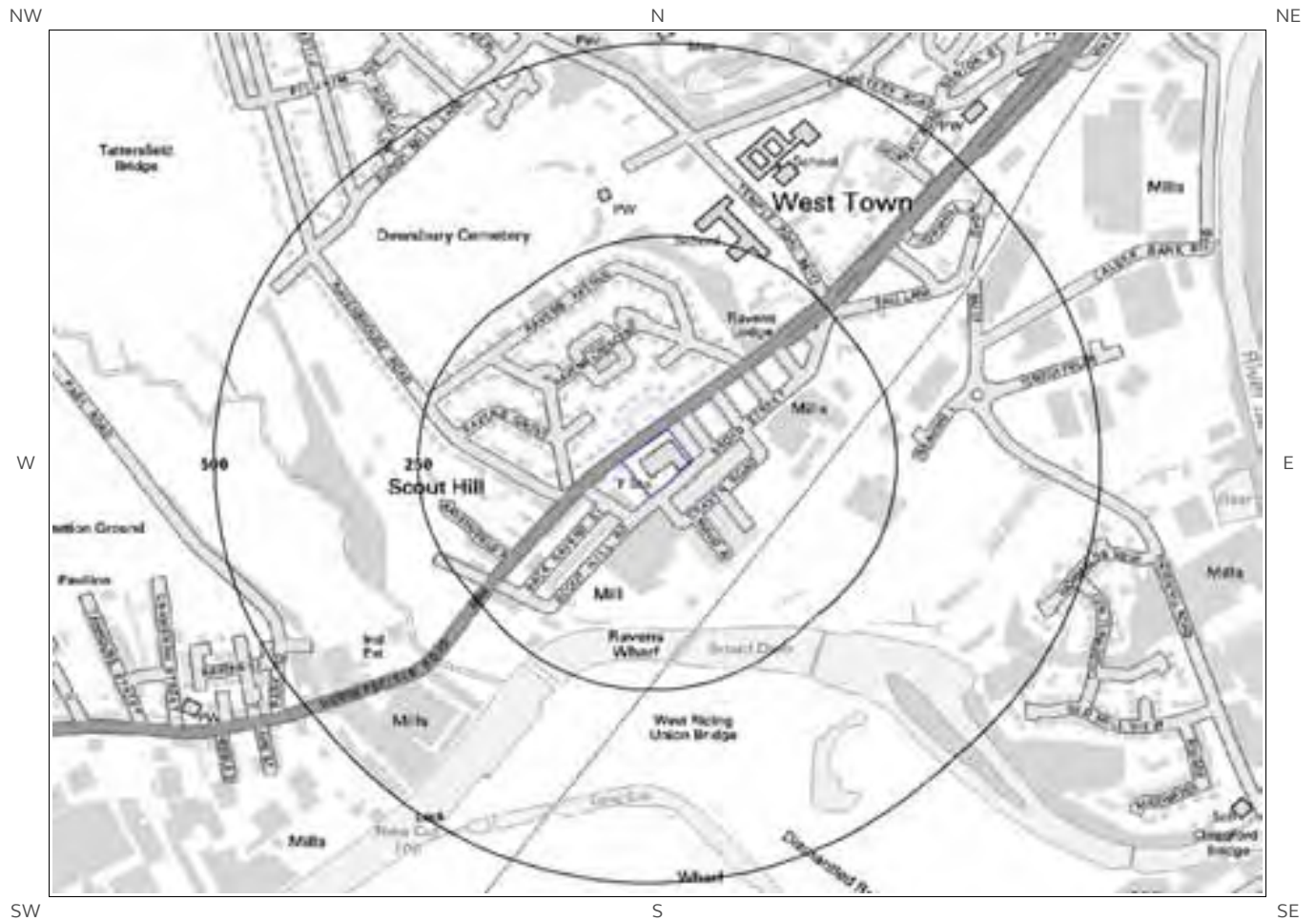


© Crown copyright and database rights 2015  
Ordnance Survey license 100035207.

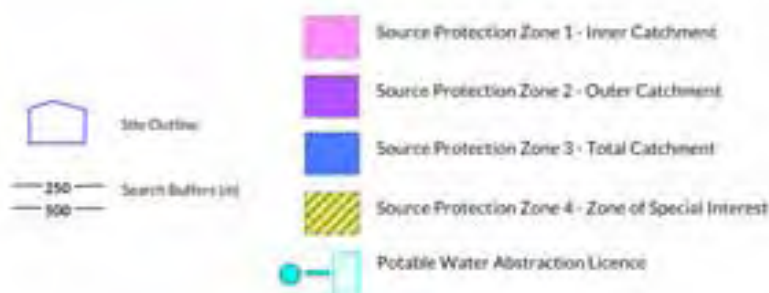




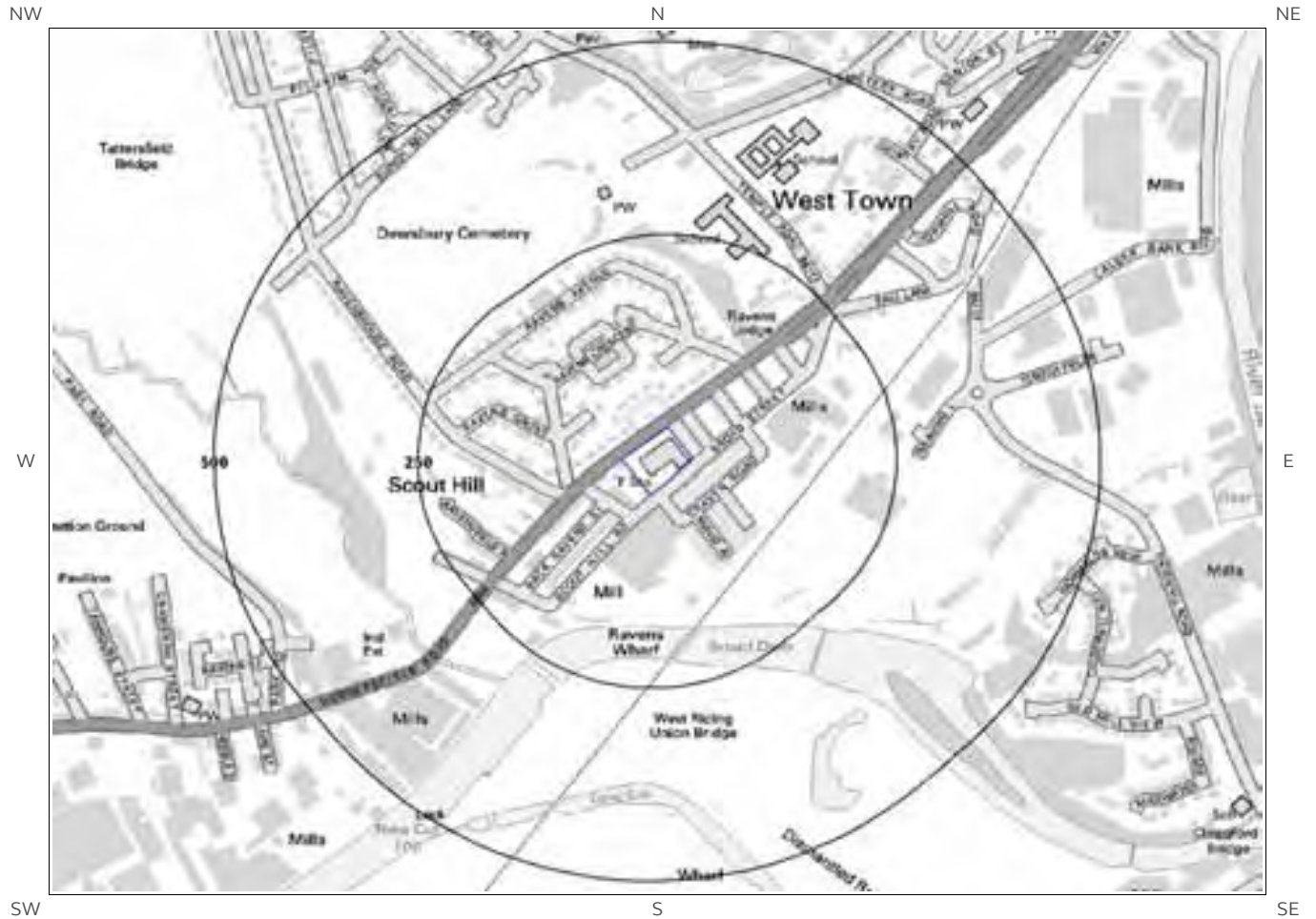
# 6c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses



© Crown copyright and database rights 2015  
Ordnance Survey license 100035207.

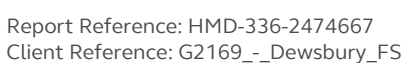
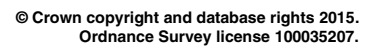


# 6d. Hydrogeology – Source Protection Zones within confined aquifer



© Crown copyright and database rights 2015  
Ordnance Survey license 100035207.





# 6. Hydrogeology and Hydrology

## 6.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency'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 Enviroinsight User Guide.

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

| ID | Distance (m) | Direction | Designation | Description                                                                                                                                                                                                                            |
|----|--------------|-----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 166          | S         | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

## 6.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? Yes

From 1 April 2010, the Environment Agency'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 Enviroinsight 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   | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

## 6.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site? Yes

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3A | 355          | SW        | 423080<br>420470 | <div> <div> Status: Active<br/> Licence No: 2/27/13/200<br/> Details: General Washing/Process Washing<br/> Direct Source: Groundwaters<br/> Point: Borehole - Coal Measures - Ravensthorpe - Dewsbury<br/> Data Type: Point<br/> Name: Lawton Yarns Ltd </div> <div> Annual Volume (m³): 28800<br/> Max Daily Volume (m³): 960<br/> Original Application No: NPS/WR/016408<br/> Original Start Date: 23/6/1999<br/> Expiry Date: -<br/> Issue No: 102<br/> Version Start Date: 6/8/2014<br/> Version End Date: </div> </div> |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
|-----------|--------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4A        | 355          | SW        | 423080<br>420470 | Status: Historical<br>Licence No: 2/27/13/200<br>Details: General Washing/Process Washing<br>Direct Source: Groundwaters<br>Point: Borehole<br>Data Type: Point<br>Name: WILLIAM S GRAHAM LIMITED                                                                     | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 6921<br>Original Start Date: 23/6/1999<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 23/6/1999<br>Version End Date:                    |
| Not shown | 778          | SE        | 424090<br>420460 | Status: Active<br>Licence No: 2/27/13/226/R01<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Dewsbury<br>Data Type: Point<br>Name: CALDER DYEING LTD                        | Annual Volume (m³): 75000<br>Max Daily Volume (m³): 330<br>Original Application No: NPS/WR/016837<br>Original Start Date: 1/4/2015<br>Expiry Date: 31/3/2027<br>Issue No: 1<br>Version Start Date: 1/4/2015<br>Version End Date: |
| Not shown | 778          | SE        | 424090<br>420460 | Status: Historical<br>Licence No: 2/27/13/226<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Dewsbury<br>Data Type: Point<br>Name: CALDER DYEING LTD                        | Annual Volume (m³): 75000<br>Max Daily Volume (m³): 330<br>Original Application No: 8279<br>Original Start Date: 19/10/2007<br>Expiry Date: 31/3/2015<br>Issue No: 1<br>Version Start Date: 19/10/2007<br>Version End Date:      |
| Not shown | 918          | SW        | 422620<br>420140 | Status: Historical<br>Licence No: NE/027/0013/005<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Ravensthorpe Mills, Dewsbury<br>Data Type: Point<br>Name: ULSTER YARNS LTD | Annual Volume (m³): 50000<br>Max Daily Volume (m³): 250<br>Original Application No: NPS/WR/004796<br>Original Start Date: 1/1/2011<br>Expiry Date: 31/3/2027<br>Issue No: 1<br>Version Start Date: 1/1/2011<br>Version End Date: |
| Not shown | 918          | SW        | 422620<br>420140 | Status: Historical<br>Licence No: NE/027/0013/005<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole At Ravensthorpe Mills, Dewsbury<br>Data Type: Point<br>Name: ULSTER YARNS LTD                | Annual Volume (m³): 50000<br>Max Daily Volume (m³): 250<br>Original Application No: NPS/WR/004796<br>Original Start Date: 1/1/2011<br>Expiry Date: 31/3/2027<br>Issue No: 1<br>Version Start Date: 1/1/2011<br>Version End Date: |
| Not shown | 918          | SW        | 422620<br>420140 | Status: Historical<br>Licence No: 2/27/13/218<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Dewsbury - Coal Measures<br>Data Type: Point<br>Name: ULSTER YARNS LTD                         | Annual Volume (m³): 100000<br>Max Daily Volume (m³): 500<br>Original Application No: 8155<br>Original Start Date: 1/1/2006<br>Expiry Date: 31/12/2010<br>Issue No: 2<br>Version Start Date: 23/3/2007<br>Version End Date:       |
| Not shown | 918          | SW        | 422620<br>420140 | Status: Historical<br>Licence No: 2/27/13/202<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Dewsbury - Coal Measures<br>Data Type: Point<br>Name: RIVERSTONE SPINNING LTD                  | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 06947<br>Original Start Date: 24/4/2000<br>Expiry Date: 31/12/2005<br>Issue No: 2<br>Version Start Date: 23/4/2002<br>Version End Date:            |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                             |                                                                                                                                                                                                                             |
|-----------|--------------|-----------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 1093         | SW        | 422390<br>420150 | Status: Historical<br>Licence No: 2/27/13/215<br>Details: Process Water<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Ravensthorpe - Dewsbury<br>Data Type: Point<br>Name: DEWSBURY DYEING CO LTD                             | Annual Volume (m³): 65000<br>Max Daily Volume (m³): 270<br>Original Application No: 8077<br>Original Start Date: 24/12/2003<br>Expiry Date: 31/3/2015<br>Issue No: 1<br>Version Start Date: 24/12/2003<br>Version End Date: |
| Not shown | 1093         | SW        | 422390<br>420150 | Status: Historical<br>Licence No: 2/27/13/215<br>Details: Process water<br>Direct Source: Groundwaters<br>Point: Borehole-coal Measures-ravensthorpe,dewsbury<br>Data Type: Point<br>Name: DEWSBURY DYEING CO LTD                                   | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 08077<br>Original Start Date: 24/12/2003<br>Expiry Date: 31/3/2015<br>Issue No: 1<br>Version Start Date: 24/12/2003<br>Version End Date:      |
| Not shown | 1582         | E         | 424900<br>421200 | Status: Active<br>Licence No: 2/27/13/169<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Dewsbury<br>Data Type: Point<br>Name: THOMAS CHADWICK & SONS LTD | Annual Volume (m³): 140000<br>Max Daily Volume (m³): 576<br>Original Application No: 6451<br>Original Start Date: 26/1/1993<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 25/4/1997<br>Version End Date:        |
| Not shown | 1582         | E         | 424900<br>421200 | Status: Historical<br>Licence No: 2/27/13/169<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole<br>Data Type: Point<br>Name: THOMAS CHADWICK & SONS LIMITED                    | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 6451<br>Original Start Date: 26/1/1993<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 25/4/1997<br>Version End Date:               |
| Not shown | 1707         | E         | 425000<br>421300 | Status: Active<br>Licence No: 2/27/13/169<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole - Coal Measures - Dewsbury<br>Data Type: Point<br>Name: THOMAS CHADWICK & SONS LTD | Annual Volume (m³): 140000<br>Max Daily Volume (m³): 576<br>Original Application No: 6451<br>Original Start Date: 26/1/1993<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 25/4/1997<br>Version End Date:        |
| Not shown | 1707         | E         | 425000<br>421300 | Status: Historical<br>Licence No: 2/27/13/169<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Groundwaters<br>Point: Borehole<br>Data Type: Point<br>Name: THOMAS CHADWICK & SONS LIMITED                    | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 6451<br>Original Start Date: 26/1/1993<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 25/4/1997<br>Version End Date:               |
| Not shown | 1857         | SW        | 421600<br>420000 | Status: Historical<br>Licence No: 2/27/13/063<br>Details: General Farming & Domestic<br>Direct Source: Groundwaters<br>Point: Well<br>Data Type: Point<br>Name: BROOK                                                                               | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 3103<br>Original Start Date: 27/1/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 12/1/1972<br>Version End Date:               |
| Not shown | 1857         | SW        | 421600<br>420000 | Status: Historical<br>Licence No: 2/27/13/063<br>Details: General Farming & Domestic<br>Direct Source: Groundwaters<br>Point: Well - Coal Measures - Mirfield<br>Data Type: Point<br>Name: BROOK                                                    | Annual Volume (m³): -<br>Max Daily Volume (m³): -<br>Original Application No: 03103<br>Original Start Date: 27/1/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 12/1/1972<br>Version End Date:              |

## 6.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site?

Yes

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

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------|--------------|-----------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 19B       | 298          | SW        | 423140<br>420493 | Status: Active<br>Licence No: 2/27/13/211/R01<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Surface Water<br>Point: River Calder-ravensing Mills-ravensthorpe<br>Data Type: Point<br>Name: Lawton Yarns Ltd<br>Annual Volume (m³): 350000<br>Max Daily Volume (m³): 960<br>Application No: NPS/WR/017905<br>Original Start Date: 1/4/2015<br>Expiry Date: 31/3/2027<br>Issue No: 1<br>Version Start Date: 1/4/2015<br>Version End Date:   |
| 20B       | 300          | SW        | 423140<br>420490 | Status: Historical<br>Licence No: 2/27/13/211<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Surface Water<br>Point: River Calder-ravensing Mills-ravensthorpe<br>Data Type: Point<br>Name: Lawton Yarns Ltd<br>Annual Volume (m³): 350000<br>Max Daily Volume (m³): 960<br>Application No: NPS/WR/016410<br>Original Start Date: 21/11/2002<br>Expiry Date: 31/3/2015<br>Issue No: 2<br>Version Start Date: 6/8/2014<br>Version End Date: |
| 21C       | 739          | SE        | 423890<br>420240 | Status: Historical<br>Licence No: 2/27/13/230<br>Details: Dust Suppression<br>Direct Source: Surface Water<br>Point: River Calder - Dewsbury<br>Data Type: Point<br>Name: LAFARGE AGGREGATES LTD<br>Annual Volume (m³): 680000<br>Max Daily Volume (m³): 2520<br>Application No: NPS/WR/014615<br>Original Start Date: 7/7/2008<br>Expiry Date: 31/3/2015<br>Issue No: 2<br>Version Start Date: 26/9/2013<br>Version End Date:                                                     |
| 22C       | 739          | SE        | 423890<br>420240 | Status: Historical<br>Licence No: 2/27/13/230<br>Details: Mineral Washing<br>Direct Source: Surface Water<br>Point: River Calder - Dewsbury<br>Data Type: Point<br>Name: LAFARGE AGGREGATES LTD<br>Annual Volume (m³): 680000<br>Max Daily Volume (m³): 2520<br>Application No: NPS/WR/014615<br>Original Start Date: 7/7/2008<br>Expiry Date: 31/3/2015<br>Issue No: 2<br>Version Start Date: 26/9/2013<br>Version End Date:                                                      |
| Not shown | 768          | SW        | 422830<br>420140 | Status: Active<br>Licence No: 2/27/13/179<br>Details: Non-Evaporative Cooling<br>Direct Source: Surface Water<br>Point: River Calder - Thornhill Power Station - Dewsbury<br>Data Type: Point<br>Name: Canal and River Trust<br>Annual Volume (m³): 25842000<br>Max Daily Volume (m³): 70800<br>Application No: 6708<br>Original Start Date: 22/4/1996<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 21/1/2008<br>Version End Date:                                    |
| Not shown | 768          | SW        | 422830<br>420140 | Status: Historical<br>Licence No: 2/27/13/179<br>Details: Non-Evaporative Cooling<br>Direct Source: Surface Water<br>Point: River Calder<br>Data Type: Point<br>Name: BRITISH WATERWAYS<br>Annual Volume (m³): 25842000<br>Max Daily Volume (m³): 70800<br>Application No: 6708<br>Original Start Date: 22/4/1996<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 28/8/1996<br>Version End Date:                                                                         |

| ID        | Distance (m) | Direction | NGR              | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|--------------|-----------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Not shown | 991          | SW        | 422400<br>419870 | <p>Status: Historical<br/>Licence No: 2/27/13/229<br/>Details: General Use Relating To Secondary<br/>Category (High Loss)<br/>Direct Source: Surface Water<br/>Point: River Calder - Ravensthorpe<br/>Data Type: Line<br/>Name: FORTICRETE LTD</p> <p>Annual Volume (m³): 22000<br/>Max Daily Volume (m³): 80<br/>Application No: 8286<br/>Original Start Date: 8/1/2008<br/>Expiry Date: 31/3/2015<br/>Issue No: 1<br/>Version Start Date: 1/4/2008<br/>Version End Date:</p>                  |
| Not shown | 991          | SW        | 422400<br>419870 | <p>Status: Historical<br/>Licence No: 2/27/13/229<br/>Details: Dust Suppression<br/>Direct Source: Surface Water<br/>Point: River Calder - Ravensthorpe<br/>Data Type: Line<br/>Name: FORTICRETE LTD</p> <p>Annual Volume (m³): 22000<br/>Max Daily Volume (m³): 80<br/>Application No: 8286<br/>Original Start Date: 8/1/2008<br/>Expiry Date: 31/3/2015<br/>Issue No: 1<br/>Version Start Date: 1/4/2008<br/>Version End Date:</p>                                                            |
| Not shown | 1276         | NE        | 424510<br>421360 | <p>Status: Historical<br/>Licence No: 2/27/13/129<br/>Details: Boiler Feed<br/>Direct Source: Surface Water<br/>Point: River Calder<br/>Data Type: Point<br/>Name: ARONSTEAD LIMITED</p> <p>Annual Volume (m³): -<br/>Max Daily Volume (m³): -<br/>Application No: 5085<br/>Original Start Date: 24/2/1971<br/>Expiry Date: -<br/>Issue No: 100<br/>Version Start Date: 16/3/1978<br/>Version End Date:</p>                                                                                     |
| Not shown | 1291         | NE        | 424560<br>421290 | <p>Status: Active<br/>Licence No: 2/27/13/163<br/>Details: General Use Relating To Secondary<br/>Category (Medium Loss)<br/>Direct Source: Surface Water<br/>Point: River Calder - Dewsbury<br/>Data Type: Point<br/>Name: HENRY DAY &amp; SONS LTD</p> <p>Annual Volume (m³): 15000<br/>Max Daily Volume (m³): 90.92<br/>Application No: 6210<br/>Original Start Date: 1/6/1989<br/>Expiry Date: -<br/>Issue No: 100<br/>Version Start Date: 1/4/2008<br/>Version End Date:</p>                |
| Not shown | 1291         | NE        | 424560<br>421290 | <p>Status: Historical<br/>Licence No: 2/27/13/163<br/>Details: General Use Relating To Secondary<br/>Category (Medium Loss)<br/>Direct Source: Surface Water<br/>Point: River Calder<br/>Data Type: Point<br/>Name: HENRY DAY &amp; SONS LTD</p> <p>Annual Volume (m³): 15000<br/>Max Daily Volume (m³): 90.92<br/>Application No: 6210<br/>Original Start Date: 1/6/1989<br/>Expiry Date: -<br/>Issue No: 100<br/>Version Start Date: 1/6/1989<br/>Version End Date:</p>                       |
| Not shown | 1391         | E         | 424700<br>421200 | <p>Status: Historical<br/>Licence No: 2/27/13/191<br/>Details: General use relating to Secondary<br/>Category (Medium Loss)<br/>Direct Source: Surface Water<br/>Point: River Calder<br/>Data Type: Point<br/>Name: CALDER MASONARY</p> <p>Annual Volume (m³): -<br/>Max Daily Volume (m³): -<br/>Application No: 6812<br/>Original Start Date: 23/5/1997<br/>Expiry Date: -<br/>Issue No: 100<br/>Version Start Date: 23/5/1997<br/>Version End Date:</p>                                      |
| Not shown | 1391         | E         | 424700<br>421200 | <p>Status: Active<br/>Licence No: 2/27/13/191<br/>Details: General Use Relating To Secondary<br/>Category (Medium Loss)<br/>Direct Source: Surface Water<br/>Point: River Calder - Dewsbury X 2 Abstraction<br/>Points<br/>Data Type: Point<br/>Name: CALDER MASONARY</p> <p>Annual Volume (m³): 9720<br/>Max Daily Volume (m³): 36<br/>Application No: 6812<br/>Original Start Date: 23/5/1997<br/>Expiry Date: -<br/>Issue No: 101<br/>Version Start Date: 1/4/2008<br/>Version End Date:</p> |

## 6.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site?

No

Database searched and no data found.

## 6.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site?

No

Database searched and no data found.

## 6.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site?

No

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

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site?

Yes

| Distance (m) | Direction | Classification                        | Soil Vulnerability Category | Description                                                                                                                                                           |
|--------------|-----------|---------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0            | On Site   | Minor 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

Is there any Environment Agency information on river quality within 1500m of the study site?

Yes

#### 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 |
|-----------|--------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|
| 23A       | 440          | SW        | 423114<br>420341 | River Name: River Calder<br>Reach: Spen Beck Batley Beck<br>End/Start of Stretch: Start of Stretch<br>NGR                                  | C    | C    | C    | C    | C    |
| 24A       | 440          | SW        | 423114<br>420341 | River Name: River Calder<br>Reach: Thornhill Flood Lockspen Beck<br>End/Start of Stretch: End of Stretch<br>NGR                            | C    | C    | C    | C    | C    |
| 25B       | 597          | SW        | 422951<br>420261 | River Name: River Calder<br>Reach: Greenwood Lock Thornhill Flood<br>Lock<br>End/Start of Stretch: End of Stretch<br>NGR                   | C    | C    | C    | C    | C    |
| 26B       | 597          | SW        | 422951<br>420261 | River Name: River Calder<br>Reach: Thornhill Flood Lockspen Beck<br>End/Start of Stretch: Start of Stretch<br>NGR                          | C    | C    | C    | C    | C    |
| 27B       | 597          | SW        | 422951<br>420261 | River Name: Calder & Hebble Navigatio<br>Reach: River Calder At Thorriver Calder<br>At Horb<br>End/Start of Stretch: End of Stretch<br>NGR | C    | C    | C    | C    | C    |
| Not shown | 855          | SE        | 424092<br>420303 | River Name: River Calder<br>Reach: Chickenley Beck Mitchell Laithes<br>End/Start of Stretch: Sample Point NGR                              | C    | C    | C    | C    | C    |
| Not shown | 855          | SE        | 424092<br>420303 | River Name: River Calder<br>Reach: Batley Beck Chickenley Beck<br>End/Start of Stretch: Sample Point NGR                                   | C    | C    | C    | C    | C    |
| Not shown | 855          | SE        | 424092<br>420303 | River Name: River Calder<br>Reach: Spen Beck Batley Beck<br>End/Start of Stretch: Sample Point NGR                                         | C    | C    | C    | C    | C    |
| Not shown | 1387         | E         | 424698<br>421196 | River Name: River Calder<br>Reach: Batley Beck Chickenley Beck<br>End/Start of Stretch: Start of Stretch<br>NGR                            | C    | C    | C    | C    | C    |
| Not shown | 1387         | E         | 424698<br>421196 | River Name: River Calder<br>Reach: Spen Beck Batley Beck<br>End/Start of Stretch: End of Stretch<br>NGR                                    | C    | C    | C    | C    | C    |
| Not shown | 1451         | SW        | 422300<br>419700 | River Name: River Calder<br>Reach: Low Mill Lane Greenwood Lock<br>End/Start of Stretch: End of Stretch<br>NGR                             | C    | C    | C    | C    | C    |
| Not shown | 1451         | SW        | 422300<br>419700 | River Name: River Calder<br>Reach: Greenwood Lock Thornhill Flood<br>Lock<br>End/Start of Stretch: Start of Stretch<br>NGR                 | C    | C    | C    | C    | C    |
| Not shown | 1451         | SW        | 422300<br>419700 | River Name: Calder & Hebble Navigatio<br>Reach: Lowmill Lane Greenwood Lock<br>End/Start of Stretch: End of Stretch<br>NGR                 | C    | C    | C    | C    | C    |

## 6.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

Yes

The following Detailed River Network records are represented on the Hydrology Map (6e):

| ID | Distance (m) | Direction | Details                                                                                                                                                            |
|----|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 189          | S         | River Name: River Calder<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                  |
| 2  | 205          | SE        | River Name: -<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Culvert<br>Main River Status: Currently Undefined                                   |
| 3  | 205          | SE        | River Name: -<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Tertiary River<br>Main River Status: Currently Undefined                            |
| 4  | 248          | SE        | River Name: River Calder<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                  |
| 5  | 292          | SW        | River Name: Spen River<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                    |
| 6  | 292          | SW        | River Name: River Calder<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                  |
| 7  | 338          | SE        | River Name: River Calder<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                  |
| 8  | 338          | SE        | River Name: River Calder<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                  |
| 9  | 385          | S         | River Name: Calder and Hebble Navigation Long Cut<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Canal<br>Main River Status: Currently Undefined |
| 10 | 472          | W         | River Name: Spen River<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Primary River<br>Main River Status: Currently Undefined                    |
| 11 | 472          | W         | River Name: -<br>Welsh River Name: -<br>Alternative Name: -<br><br>River Type: Secondary River<br>Main River Status: Currently Undefined                           |

## 6.11 Surface Water Features

Are there any surface water features within 250m of the study site?

Yes

The following surface water records are not represented on mapping:

| Distance (m) | Direction |
|--------------|-----------|
| 169          | S         |
| 180          | S         |
| 205          | SE        |

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



© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



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



© Crown copyright and database rights 2015.  
Ordnance Survey license 100035207.



# 7 Flooding

## 7.1 River and Coastal Zone 2 Flooding

Is the site within 250m of an Environment Agency Zone 2 floodplain? Yes

Environment Agency 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:

| ID | Distance (m) | Direction | Update      | Type                              |
|----|--------------|-----------|-------------|-----------------------------------|
| 1  | 161          | S         | 18-Jun-2015 | Zone 2 - (Fluvial / Tidal Models) |

## 7.2 River and Coastal Zone 3 Flooding

Is the site within 250m of an Environment Agency Zone 3 floodplain? Yes

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.

| ID | Distance (m) | Direction | Update      | Type                      |
|----|--------------|-----------|-------------|---------------------------|
| 1  | 164          | S         | 26-May-2015 | Zone 3 - (Fluvial Models) |

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

What is the highest risk of flooding onsite? Very Low

The Environment Agency 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

Are there any Flood Defences within 250m of the study site? No  
 Database searched and no data found.

---

## 7.5 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site? No

---

## 7.6 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site? Yes

---

## 7.7 Groundwater Flooding Susceptibility Areas

7.7.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site? Yes

Does this relate to 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 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential below Surface

Where potential for groundwater flooding of property situated below ground level is indicated, this means that given the geological conditions there may be a groundwater flooding hazard to basements and other below surface infrastructure. 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. If there are records of previous incidences of groundwater flooding, then is recommended that other information e.g. rainfall history, property type, and land drainage information in addition to previous records of flooding be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

---

## 7.8 Groundwater Flooding Confidence Areas

What is the 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 2015.  
Ordnance Survey license 100035207.



# 8. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

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

0

Database searched and no data found.

## 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:

0

Database searched and no data found.

## 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:

0

Database searched and no data found.

---

## 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     |
|----|--------------|-----------|--------------------------|-----------------|
| 1  | 368          | W         | Lower Spen Wildlife Area | Natural England |
| 2  | 1035         | SE        | Sparrow Wood             | 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:

1

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 |
|----|--------------|-----------|----------|-------------|
| 3  | 87           | NW        | Existing | DEFRA       |

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

5

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

| ID        | Distance | Direction | Green Belt Name                                | Local Authority Name  |
|-----------|----------|-----------|------------------------------------------------|-----------------------|
| 4         | 326      | SW        | Liverpool, Manchester and West Yorks Greenbelt | Kirklees District (B) |
| 5         | 1048     | SW        | Liverpool, Manchester and West Yorks Greenbelt | Kirklees District (B) |
| Not shown | 1672     | E         | Liverpool, Manchester and West Yorks Greenbelt | Kirklees District (B) |
| Not shown | 1952     | SW        | Liverpool, Manchester and West Yorks Greenbelt | Kirklees District (B) |
| Not shown | 1986     | NE        | Liverpool, Manchester and West Yorks Greenbelt | Kirklees 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 GeoInsight**, available from our **website**. The following information has been found:

### 9.1.1 Shrink Swell

What is the 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

What is the 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

What is the 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

What is the 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

What is the 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

What is the maximum Running Sand\*\* 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 running sand identified. 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. |

### 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 property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level.

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

### 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

Are there any coal mining areas within 75m of the study site?

Yes

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

| Distance (m) | Direction | Details                                                                                                                                                                                         |
|--------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0            | On Site   | The study site is located within the specified search distance of an identified mining area. Further details concerning this can be obtained from the Coal Authority Helpline on 0845 762 6848. |

## 10.2 Non-Coal Mining

Are there any Non-Coal Mining areas within 50m of the study site boundary?

No

Database searched and no data found.

## 10.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

No

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](http://www.bgs.ac.uk)

BGS Geological Hazards Reports and general geological enquiries:  
[enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk)

**Environment Agency**  
National Customer Contact Centre, PO Box 544  
Rotherham, S60 1BY  
Tel: 08708 506 506  
Web: [www.environment-agency.gov.uk](http://www.environment-agency.gov.uk)  
Email: [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk)

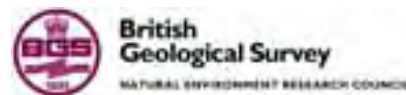
**Public Health England**  
Public information access office  
Public Health England, Wellington House  
133-155 Waterloo Road, London, SE1 8UG  
[www.gov.uk/phe](http://www.gov.uk/phe)  
Email: [enquiries@phe.gov.uk](mailto:enquiries@phe.gov.uk)  
Main switchboard: 020 7654 8000

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

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

**Local Authority**  
Authority: Kirklees Council  
Phone: 01484 221 000  
Web: <http://www.kirklees.gov.uk/>  
Address: Civic Centre 3, Market Street, Huddersfield, HD1 1WG

**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 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

### 1 Definitions

In these terms and conditions unless the context otherwise requires:

**“Beneficiary”** means the person or entity for whose benefit the Client has obtained the Services.

**“Client”** means the party or parties entering into a Contract with Groundsure.

**“Commercial”** means any building or property which is not Residential.

**“Confidential Information”** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by Groundsure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**“Support Services”** means Support Services provided by Groundsure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**“Contract”** means the contract between Groundsure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**“Third Party Data Provider”** means any third party providing Third Party Content to Groundsure.

**“Data Reports”** means reports comprising factual data with no accompanying interpretation.

**“Fees”** has the meaning set out in clause 5.1.

**“Groundsure”** means Groundsure Limited, a company registered in England and Wales under number 03421028.

**“Groundsure Materials”** means all materials prepared by Groundsure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**“Intellectual Property”** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**“Mapping”** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**“Order”** means an electronic, written or other order form submitted by the Client requesting Services from Groundsure in respect of a specified Site.

**“Ordnance Survey”** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**“Order Website”** means the online platform through which Orders may be placed by the Client and accepted by Groundsure.

**“Report”** means a Risk Screening Report or Data Report for Commercial or Residential property.

**“Residential”** means any building or property used as or intended to be used as a single dwelling.

**“Risk Screening Report”** means a risk screening report comprising factual data with an accompanying interpretation by Groundsure.

**“Services”** means any Report, Mapping and/or Support Services which Groundsure has agreed to provide by accepting an Order pursuant to clause 2.6.

**“Site”** means the area of land in respect of which the Client has requested Groundsure to provide the Services.

**“Third Party Content”** means data, database information or other information which is provided to Groundsure by a Third Party Data Provider.

**“User Guide”** means the user guide, as amended from time to time, available upon request from Groundsure and on the website ([www.Groundsure.com](http://www.Groundsure.com)) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 Groundsure agrees to provide the Services in accordance with the Contract.

2.2 Groundsure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of Groundsure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client’s order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, Groundsure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and Groundsure will have no liability therefor. In addition you acknowledge and agree that Groundsure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 Groundsure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by Groundsure. Groundsure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by Groundsure. Groundsure's acceptance of an Order shall be binding only when made in writing and signed by Groundsure's authorised representative or when accepted through the Order Website.

### 3 The Client’s obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to Groundsure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary’s needs.

3.3 The Client shall supply to Groundsure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as Groundsure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client’s approval or decision is required to enable Groundsure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the Groundsure Materials, or use the Groundsure Materials in a manner for which they were not intended. The Client may make the Groundsure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that Groundsure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1 The Client acknowledges that the Services provided by Groundsure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by Groundsure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents;

- (i) the Beneficiary,
- (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
- (iv) the first purchaser or first tenant of the Site, and
- (v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by Groundsure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1 Groundsure shall charge and the Client shall pay fees at the rate and

frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by Groundsure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to Groundsure in full without deduction, counterclaim or set off within 30 days of the date of Groundsure's invoice or such other period as may be agreed in writing between Groundsure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of Groundsure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

## 6 Intellectual Property and Confidentiality

### 6.1 Subject to

- (i) full payment of all relevant Fees and
- (ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the Groundsure Materials.

6.2 All Intellectual Property in the Groundsure Materials are and shall remain owned by Groundsure or Groundsure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the Groundsure Materials shall:

- (i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to Groundsure or any third party from the Services;
- (ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;
- (iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);
- (iv) not combine the Services with or incorporate such Services into any other information data or service;
- (v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);
- (vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and
- (vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey,

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the Groundsure Materials in order to advise the Beneficiary in a professional capacity. However, Groundsure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify Groundsure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

## 7.Liability: Particular Attention Should Be Paid To This Clause

7.1 This Clause 7 sets out the entire liability of Groundsure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

- (i) any breach of contract, including any deliberate breach of the Contract by Groundsure or its employees, agents or

subcontractors;

- (ii) any use made of the Reports, Services, Materials or any part of them; and
- (iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 Groundsure shall not be liable for

- (i) loss of profits;
- (ii) loss of business;
- (iii) depletion of goodwill and/or similar losses;
- (iv) loss of anticipated savings;
- (v) loss of goods;
- (vi) loss of contract;
- (vii) loss of use;
- (viii) loss or corruption of data or information;
- (ix) business interruption;
- (x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;
- (xi) loss or damage that arise as a result of the use of all or part of the Groundsure Materials in breach of the Contract;
- (xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the Groundsure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;
- (xiii) loss or damage to a computer, software, modem, telephone or other property; and
- (xiv) loss or damage caused by a delay or loss of use of Groundsure's internet ordering service.

7.5 Groundsure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 Groundsure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of Groundsure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against Groundsure in relation to the Services or other matters arising pursuant to the Contract.

## 8 Groundsure's right to suspend or terminate

8.1 If Groundsure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, Groundsure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 Groundsure shall be entitled to terminate the Contract immediately on written notice in the event that:

- (i) the Client fails to pay any sum due to Groundsure within 30 days of the Payment Date; or
- (ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or
- (iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or
- (iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

## 9. Client's Right to Terminate and Suspend

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon Groundsure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

- (a) supplied to the Client's specification(s) and in any event
- (b) by their nature cannot be returned.

## 10 Consequences of Withdrawal, Termination or Suspension

10.1 Upon termination of the Contract:

(i) Groundsure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in Groundsure's possession or control; and

(ii) the Client shall pay to Groundsure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay Groundsure any additional costs incurred in relation to the termination or suspension of the Contract.

## 11 Anti-Bribery

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of Groundsure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to Groundsure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

## 12 General

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through Groundsure.

12.3 Groundsure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of Groundsure.

12.4 No failure on the part of Groundsure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 Groundsure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond Groundsure's reasonable control.

In the event that Groundsure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then Groundsure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 Groundsure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at Groundsure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential Information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential Information to the extent required by law. © Groundsure Limited June 2013

#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

Client Ref: G2169\_-\_Dewsbury\_FS  
Report Ref: HMD-336-2474669  
Grid Ref: 423331, 420770

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1892  
Revised N/A  
Edition 1893  
Copyright N/A  
Levelled N/A

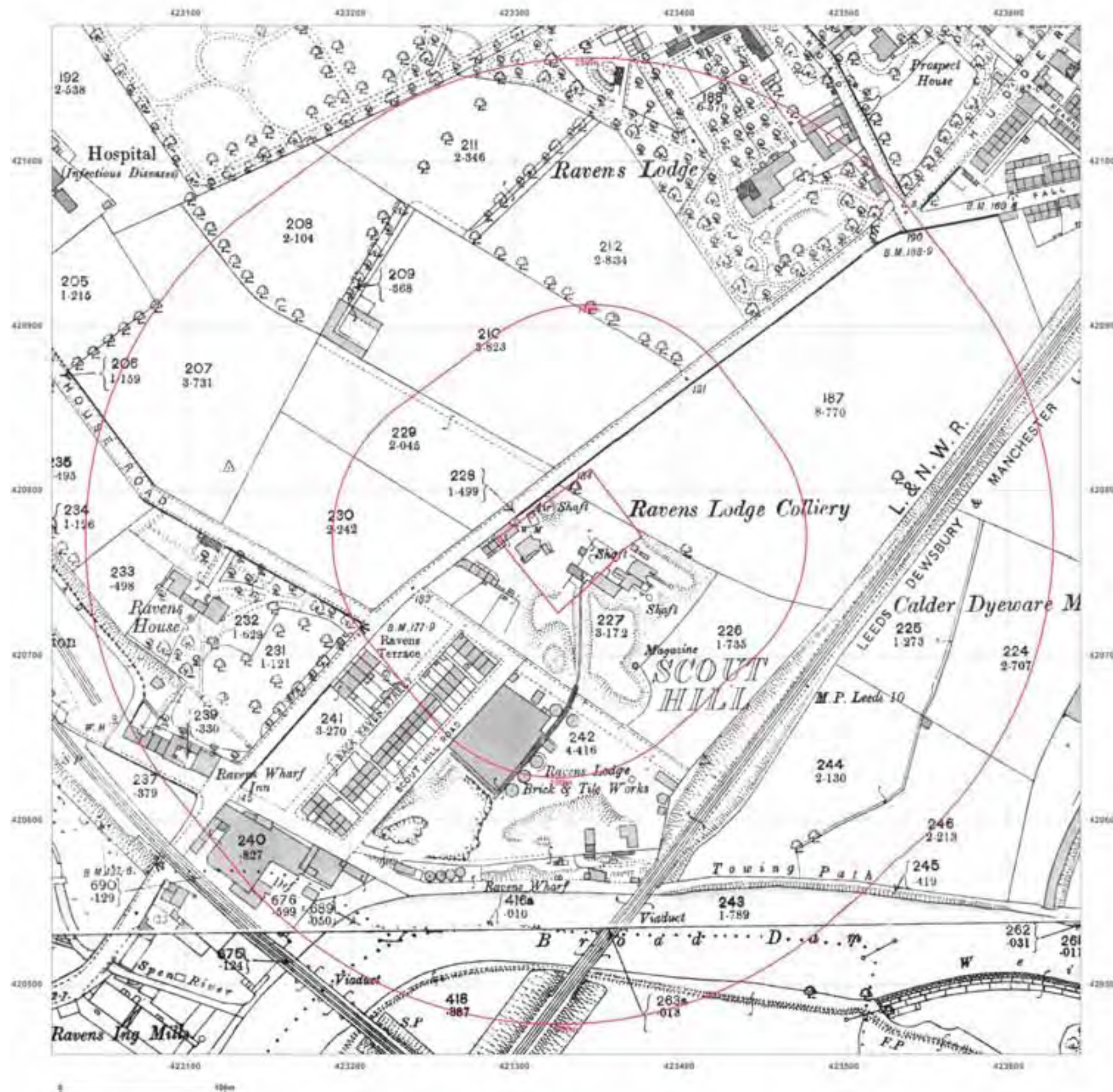


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

Client Ref: G2169\_-\_Dewsbury\_FS  
Report Ref: HMD-336-2474669  
Grid Ref: 423331, 420770

Map Name: County Series

Map date: 1907

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1907  
Revised 1907  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1907  
Revised 1907  
Edition N/A  
Copyright N/A  
Levelled N/A

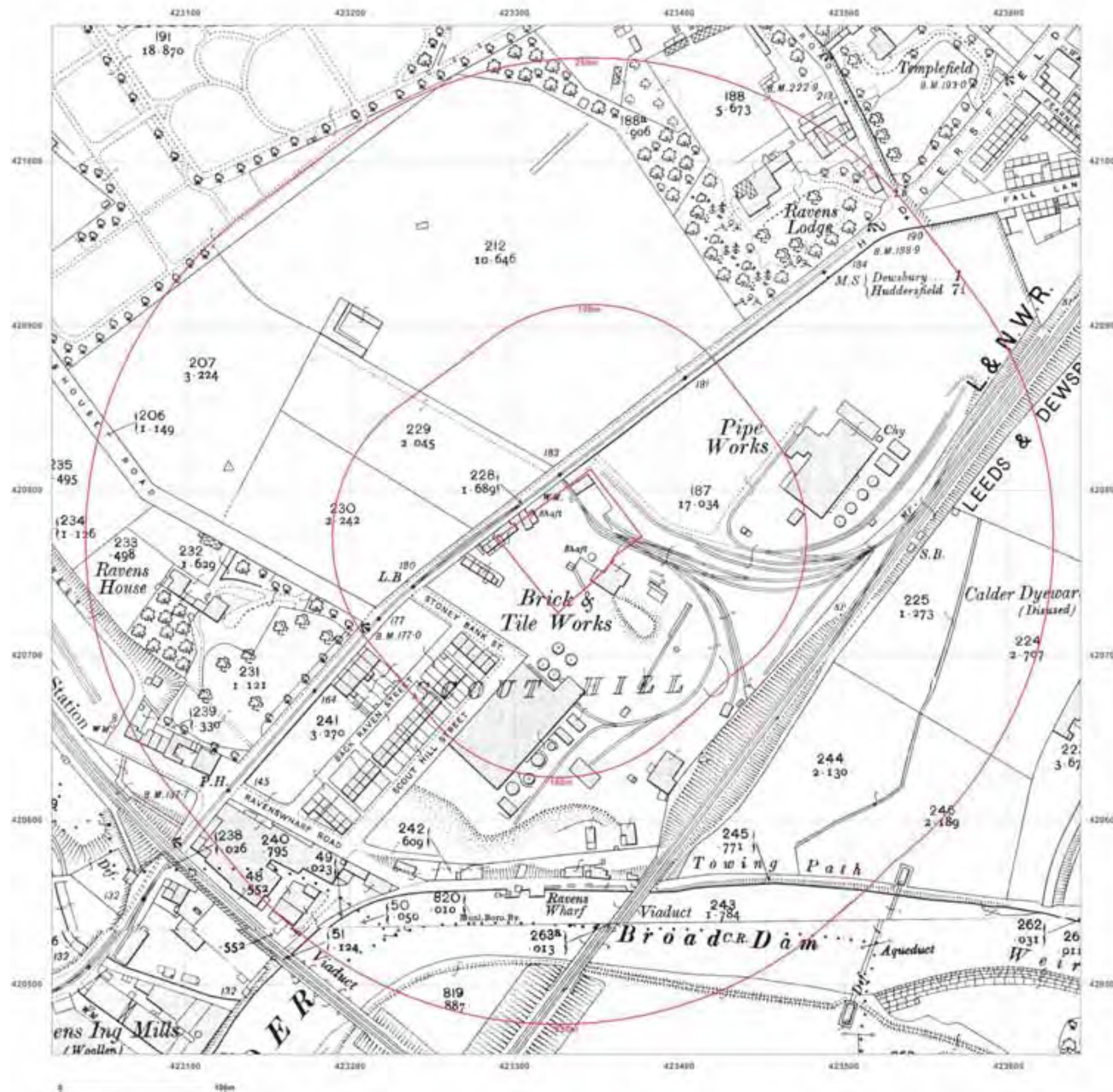


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1922

**Scale:** 1:2,500

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



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

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

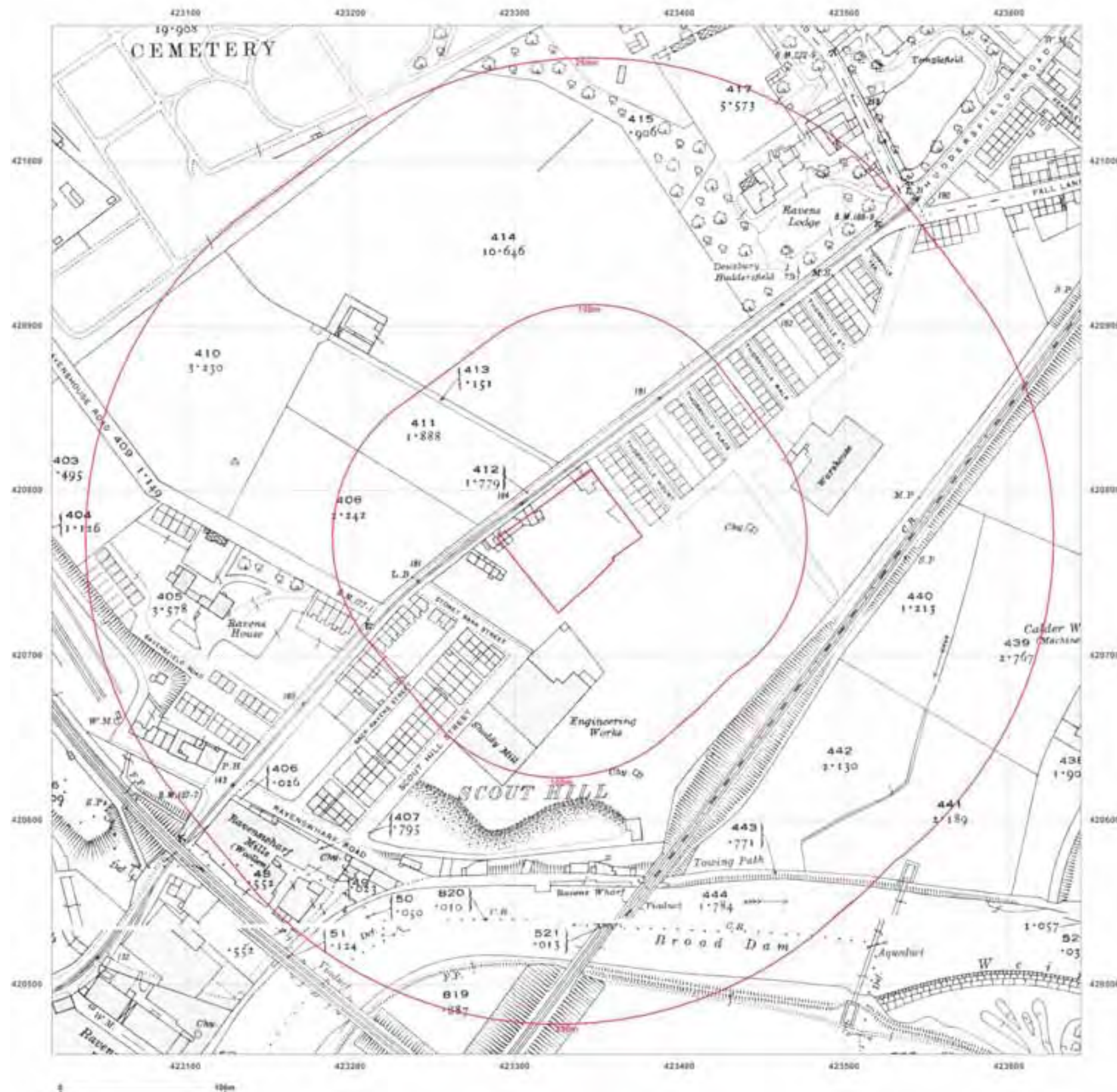


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1933

**Scale:** 1:2,500

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



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

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



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1937-1938

**Scale:** 1:2,500

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



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

Surveyed 1937  
Revised 1937  
Edition N/A  
Copyright N/A  
Levelled N/A

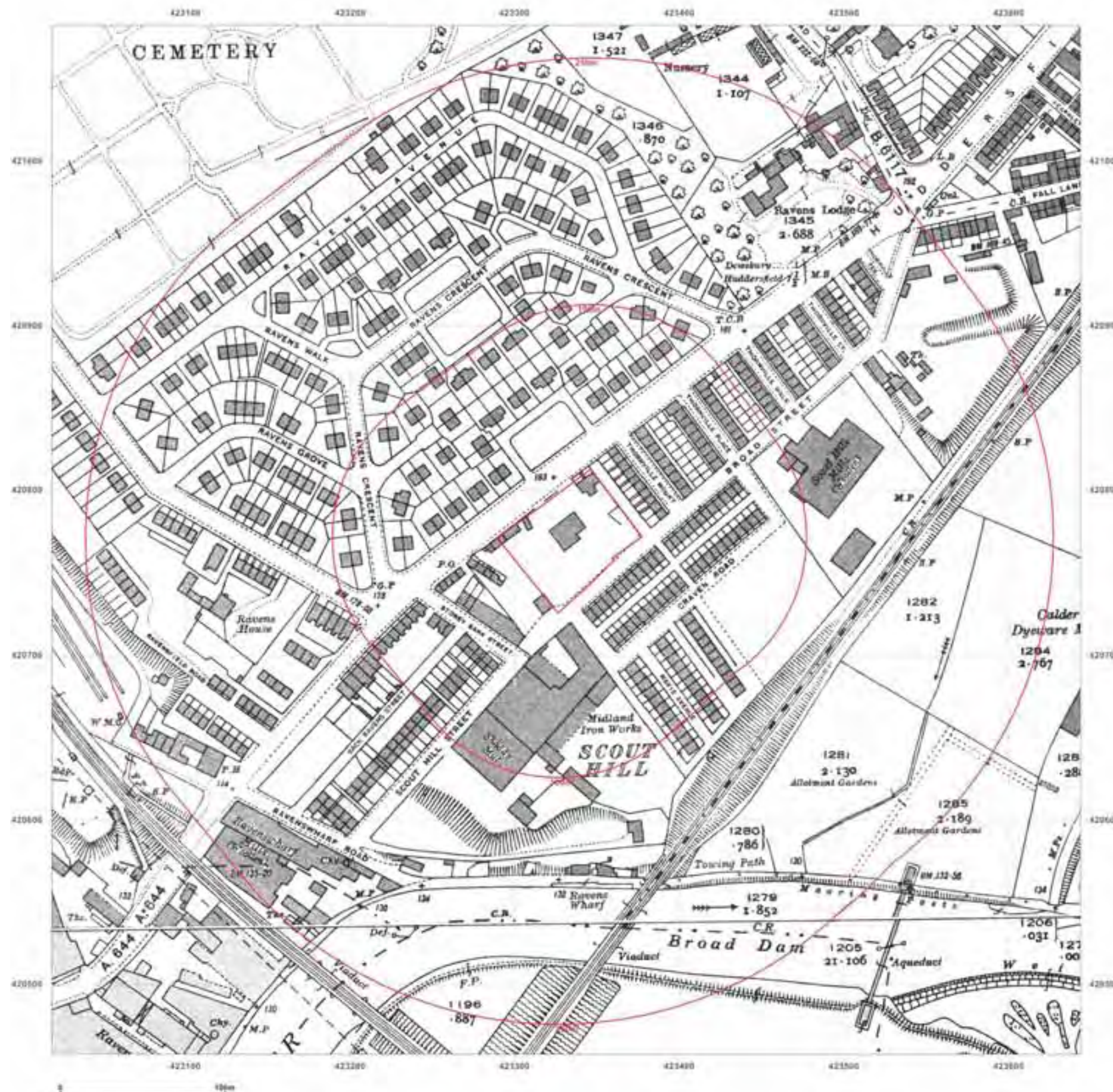


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1954-1955

**Scale:** 1:1,250

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



|                                                                                           |                                                                                           |
|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <p>Surveyed 1955<br/>Revised 1955<br/>Edition N/A<br/>Copyright N/A<br/>Levelled 1931</p> | <p>Surveyed 1955<br/>Revised 1955<br/>Edition N/A<br/>Copyright N/A<br/>Levelled 1931</p> |
| <p>Surveyed 1955<br/>Revised 1955<br/>Edition N/A<br/>Copyright N/A<br/>Levelled 1931</p> | <p>Surveyed 1954<br/>Revised 1954<br/>Edition N/A<br/>Copyright N/A<br/>Levelled 1931</p> |



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1954-1955

**Scale:** 1:2,500

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



Surveyed 1955  
Revised 1955  
Edition 1950  
Copyright N/A  
Levelled 1931

Surveyed 1954  
Revised 1954  
Edition 1955  
Copyright N/A  
Levelled 1931



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1971-1976

**Scale:** 1:1,250

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



|                                                                                            |                                                                                        |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <p>Surveyed 1955<br/>Revised 1971<br/>Edition N/A<br/>Copyright 1971<br/>Levelled 1982</p> | <p>Surveyed N/A<br/>Revised N/A<br/>Edition N/A<br/>Copyright N/A<br/>Levelled N/A</p> |
| <p>Surveyed 1955<br/>Revised 1974<br/>Edition N/A<br/>Copyright 1975<br/>Levelled 1983</p> | <p>Surveyed N/A<br/>Revised N/A<br/>Edition N/A<br/>Copyright N/A<br/>Levelled N/A</p> |



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:1,250

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



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

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

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

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

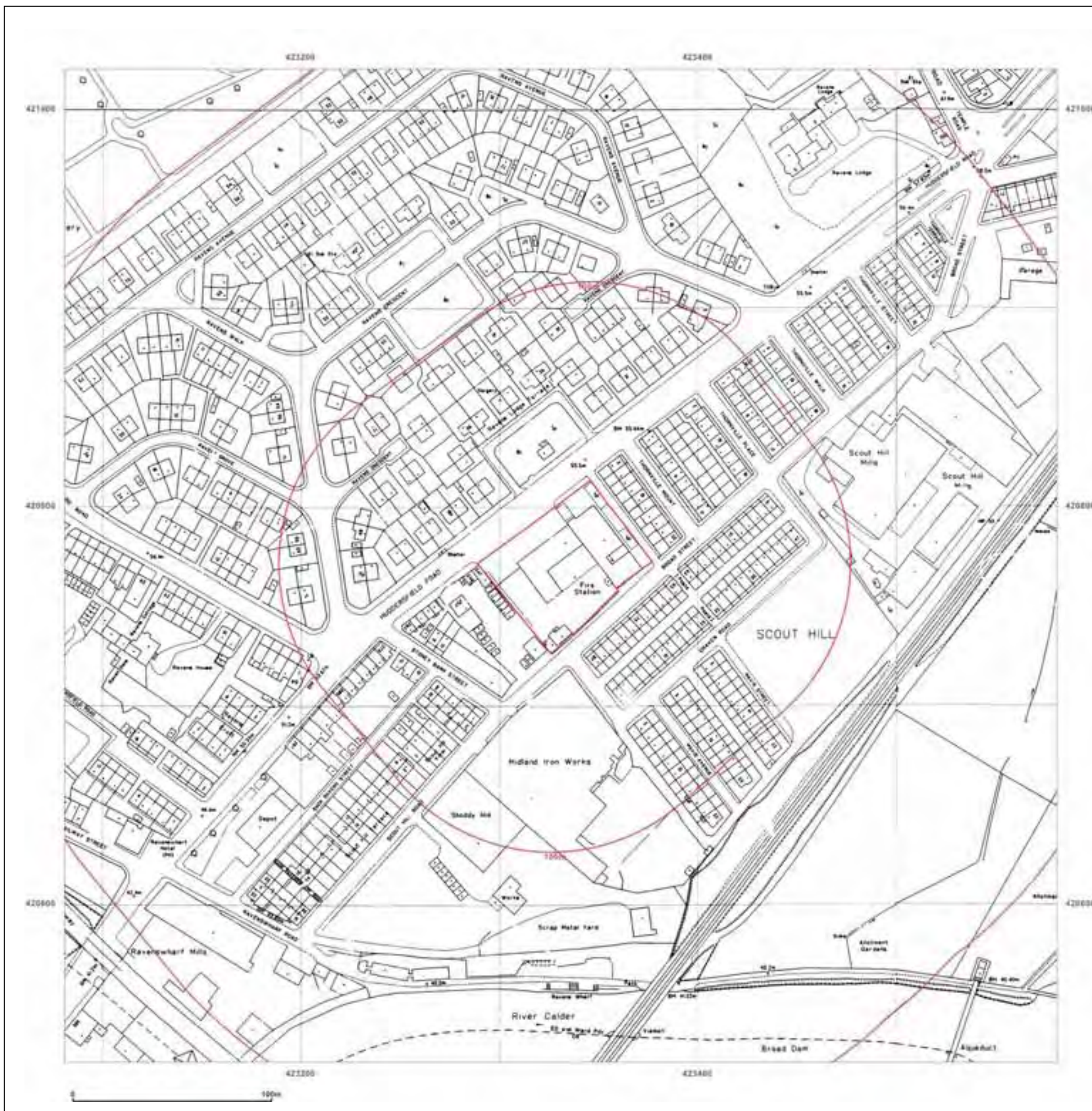


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1992-1994

**Scale:** 1:1,250

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



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

Surveyed 1983  
Revised 1992  
Edition N/A  
Copyright 1992  
Levelled 1993

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

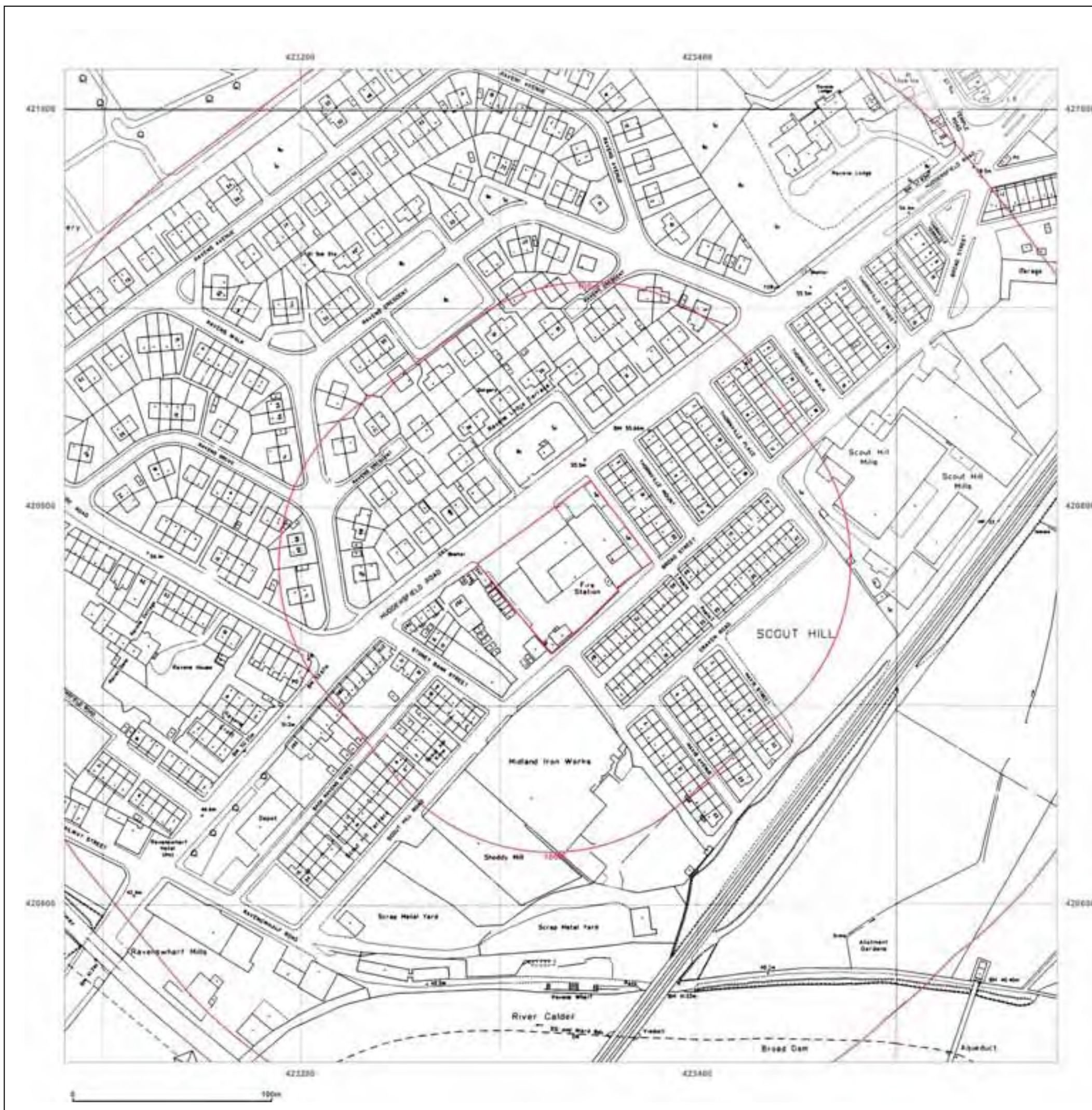


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1993-1994

**Scale:** 1:1,250

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



Surveyed 1994  
Revised 1994  
Edition N/A  
Copyright 1994  
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



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

Client Ref: G2169\_-Dewsbury\_FS  
Report Ref: HMD-336-2474669  
Grid Ref: 423331, 420770

Map Name: County Series

Map date: 1854

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1851  
Revised N/A  
Edition 1855  
Copyright N/A  
Levelled N/A

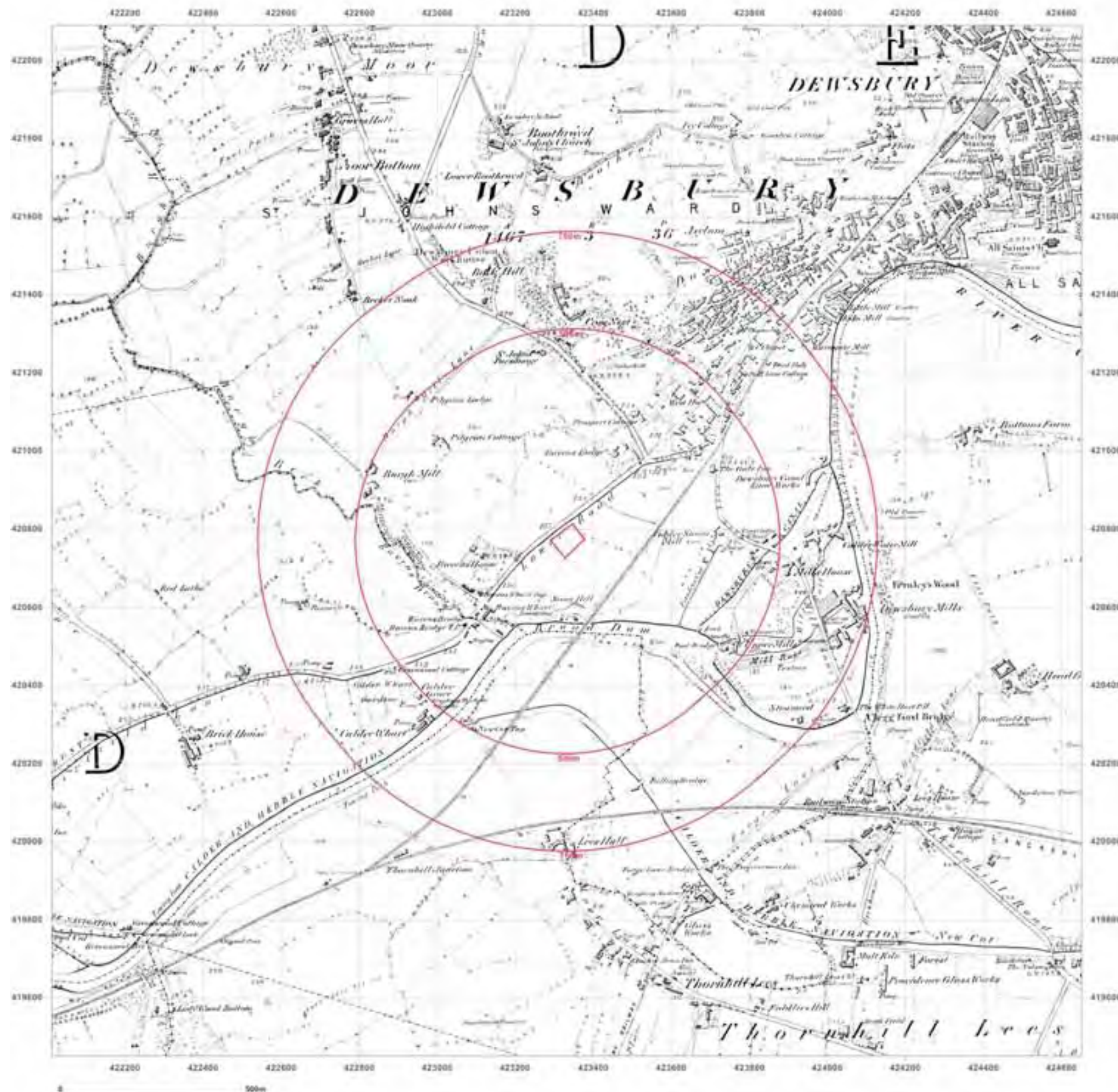


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1892

**Scale:** 1:10,560

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



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

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

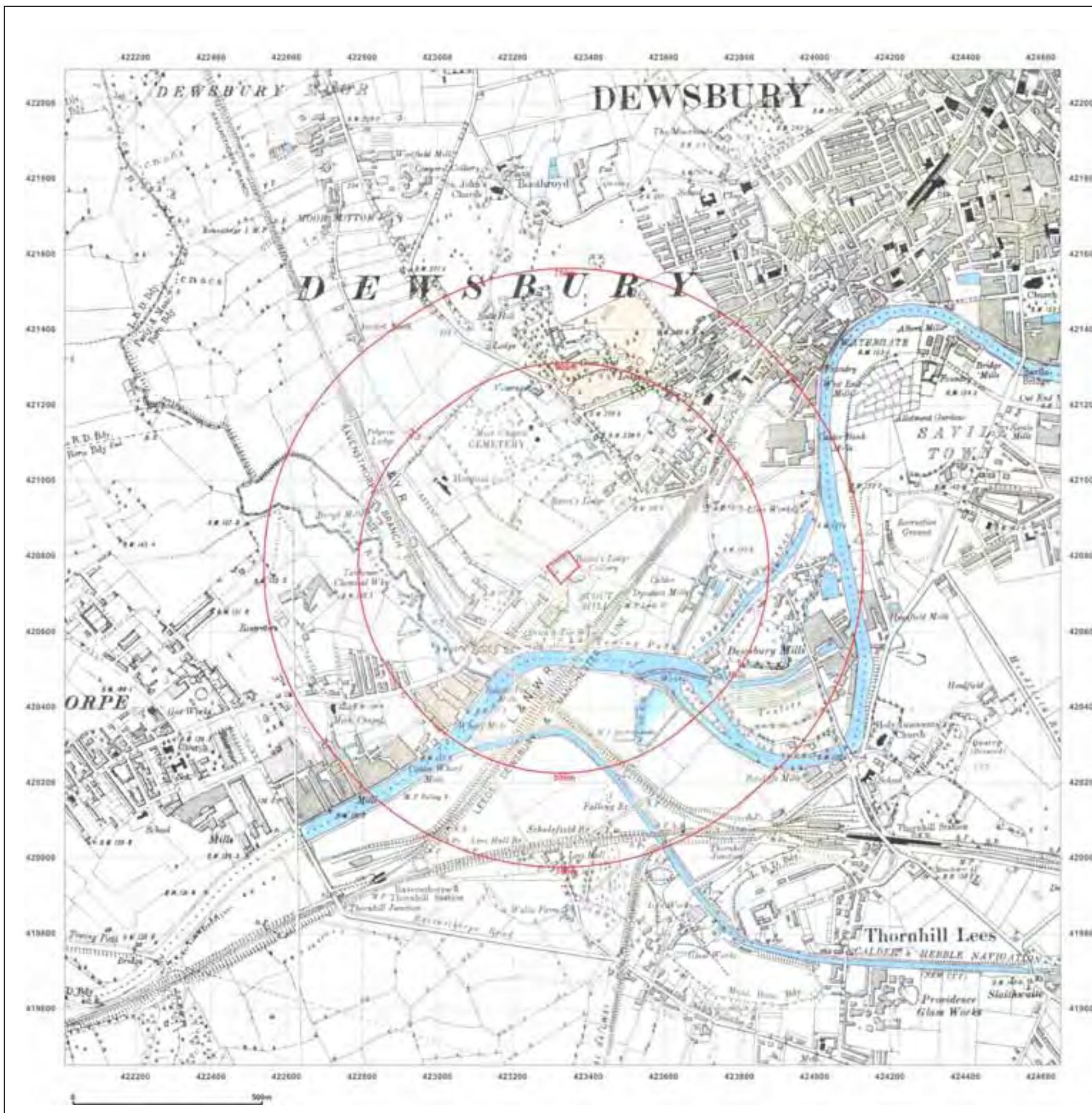


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

Client Ref: G2169\_-\_Dewsbury\_FS  
Report Ref: HMD-336-2474669  
Grid Ref: 423331, 420770

Map Name: County Series

Map date: 1894

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892  
Revised N/A  
Edition 1894  
Copyright N/A  
Levelled N/A

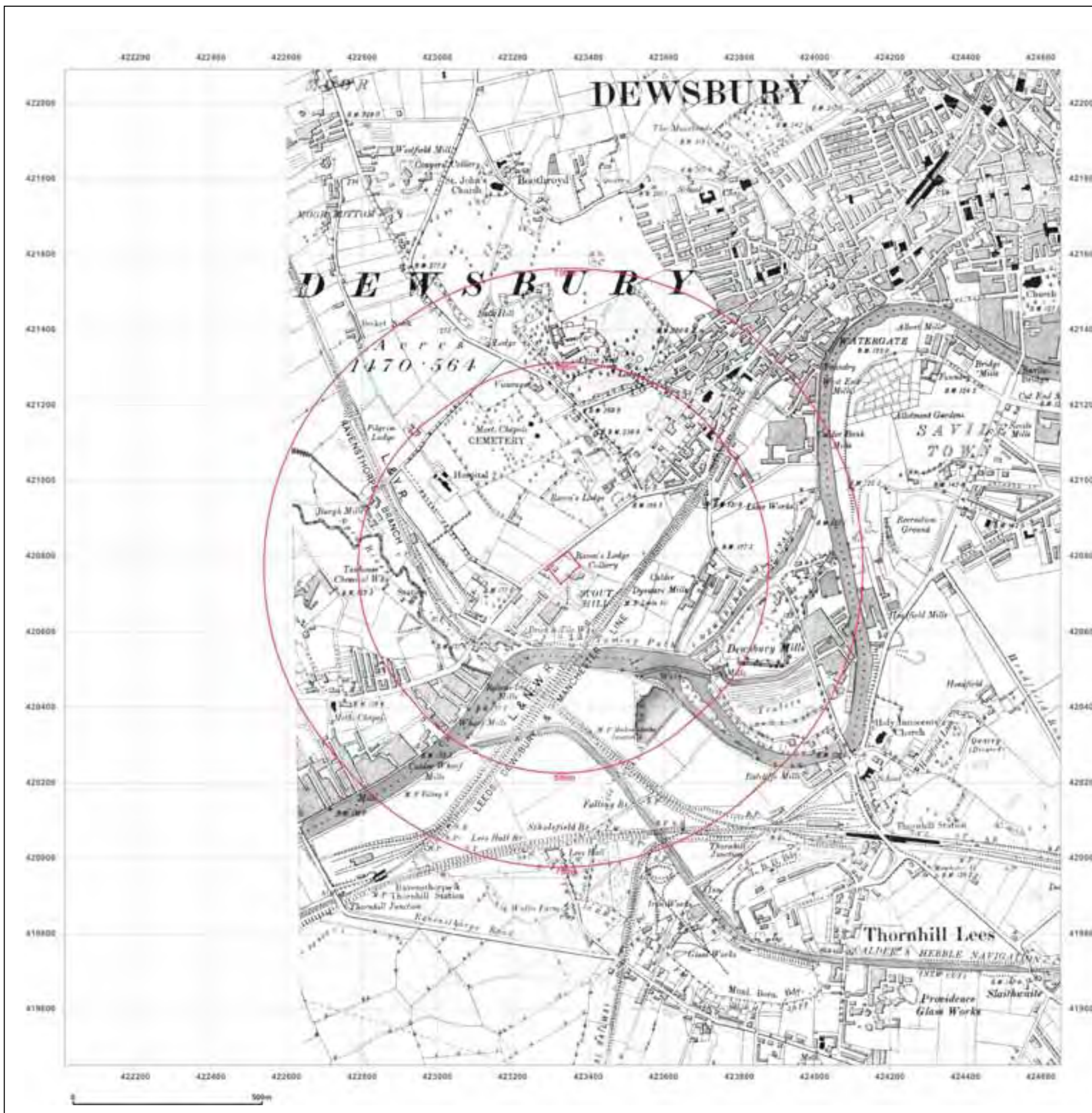


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1905

**Scale:** 1:10,560

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



Surveyed 1892  
Revised 1905  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1892  
Revised 1905  
Edition N/A  
Copyright N/A  
Levelled N/A

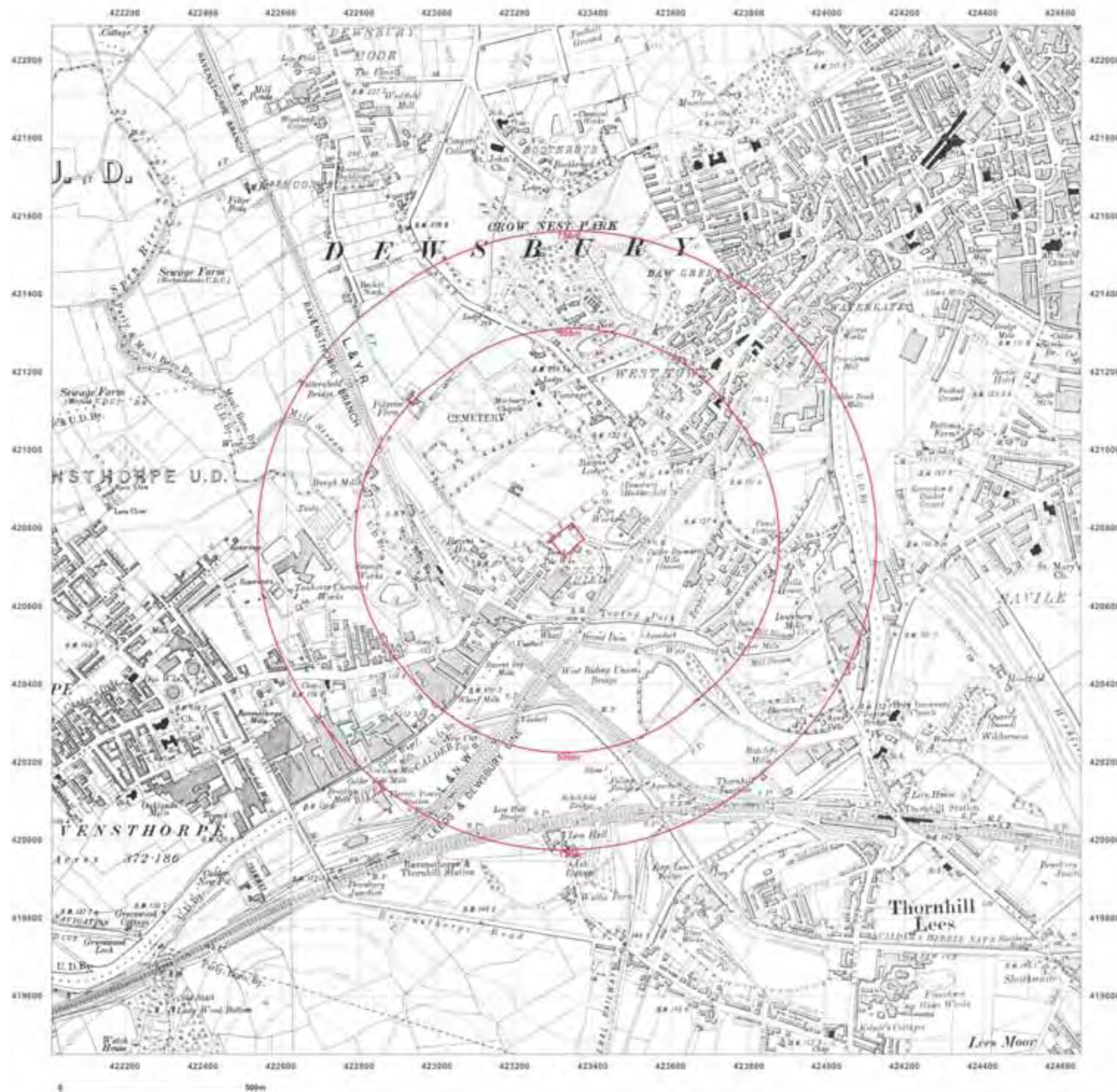


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1931

**Scale:** 1:10,560

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



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

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

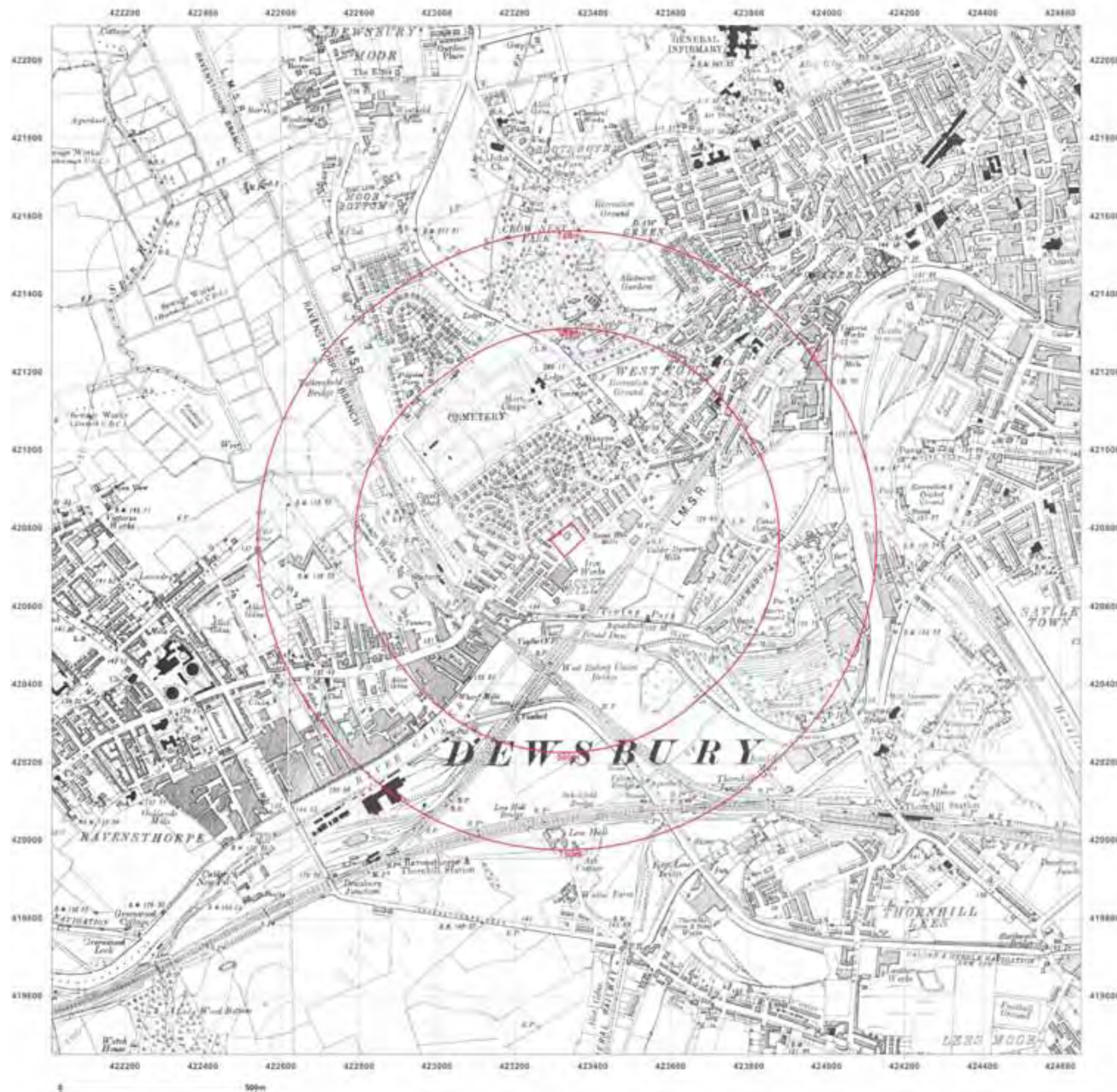


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

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



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

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

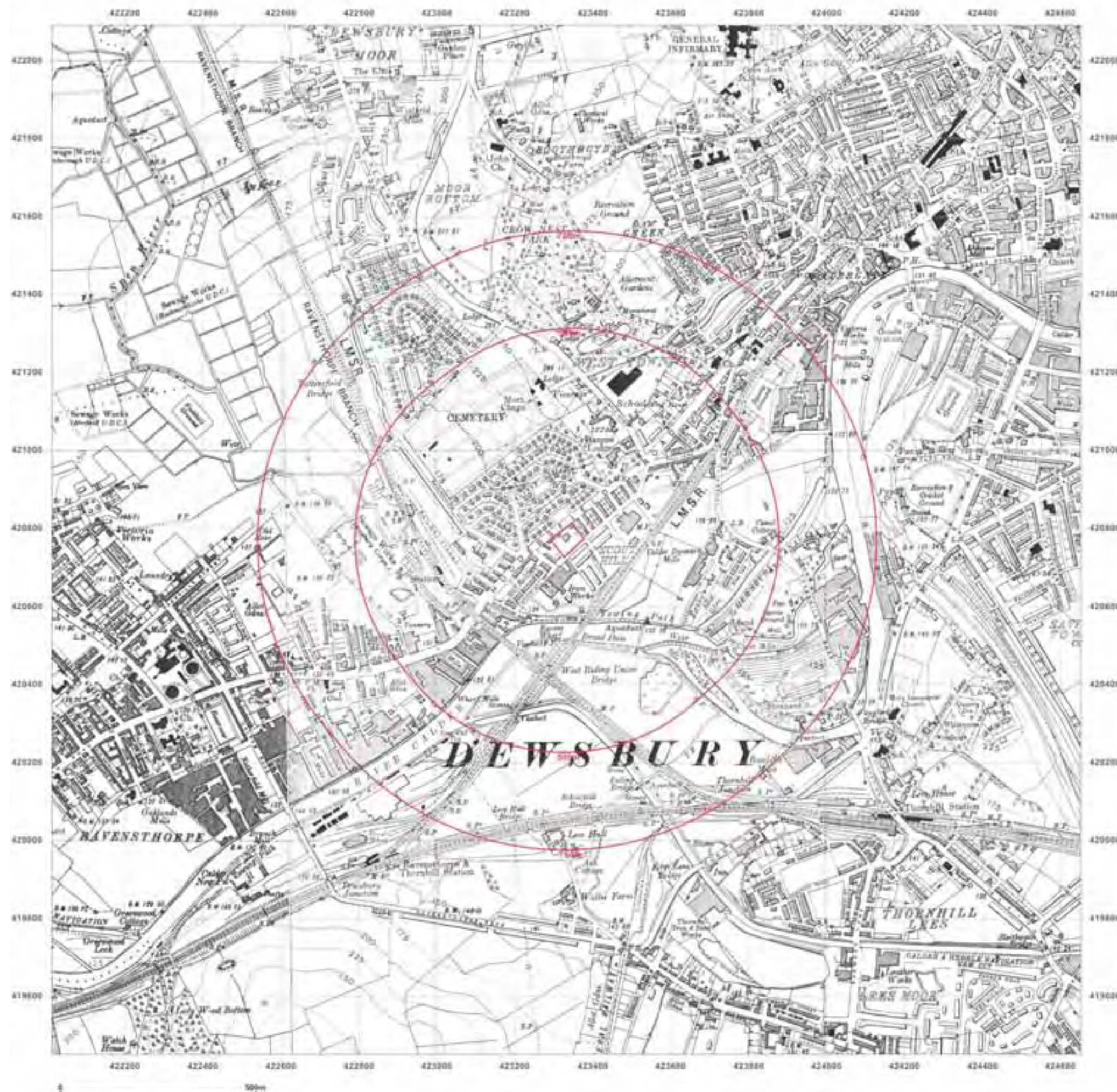


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** County Series

**Map date:** 1948

**Scale:** 1:10,560

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



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

Surveyed 1851  
Revised 1948  
Edition N/A  
Copyright N/A  
Levelled N/A

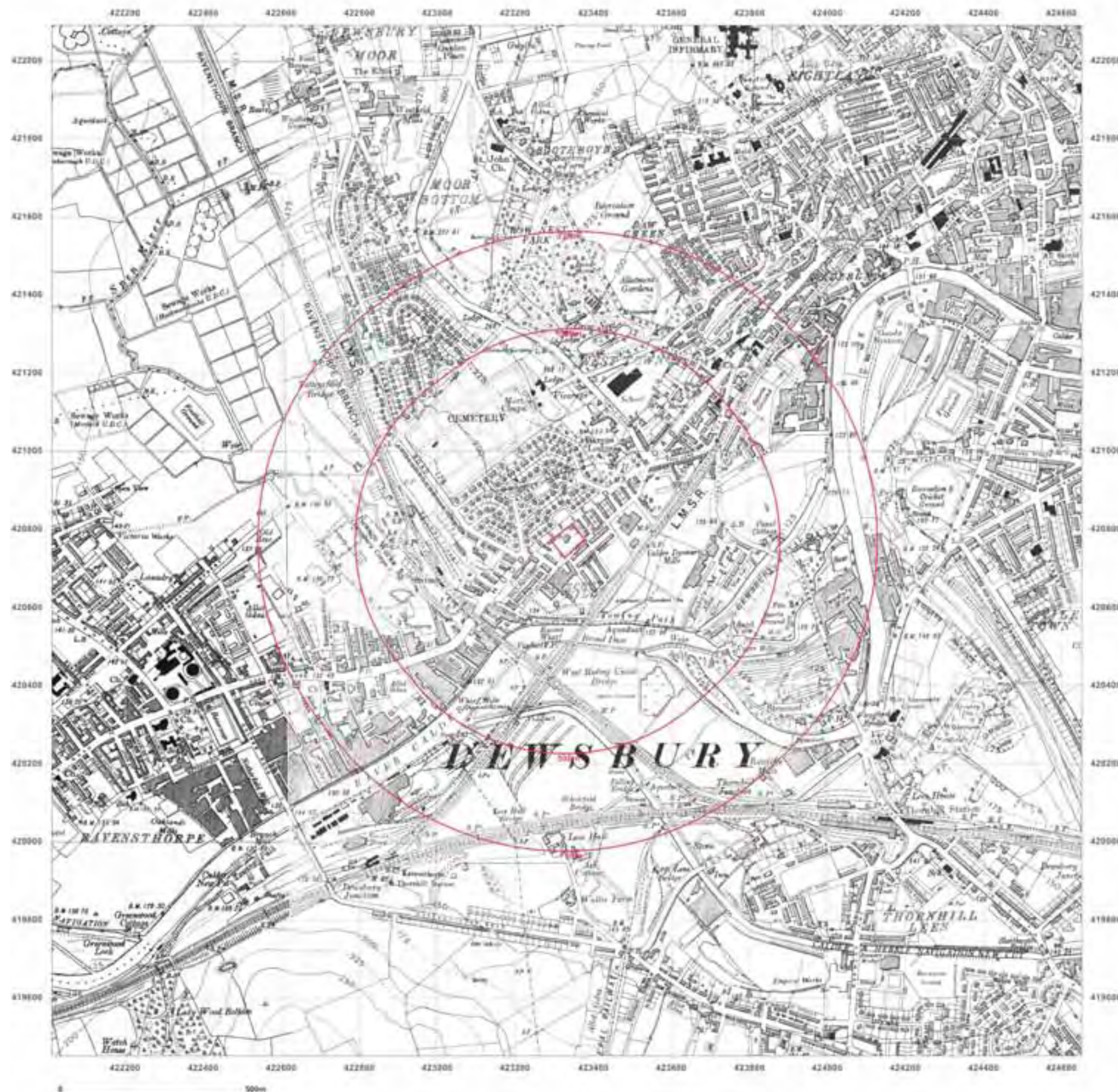


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** Provisional

**Map date:** 1951-1955

**Scale:** 1:10,560

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



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

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

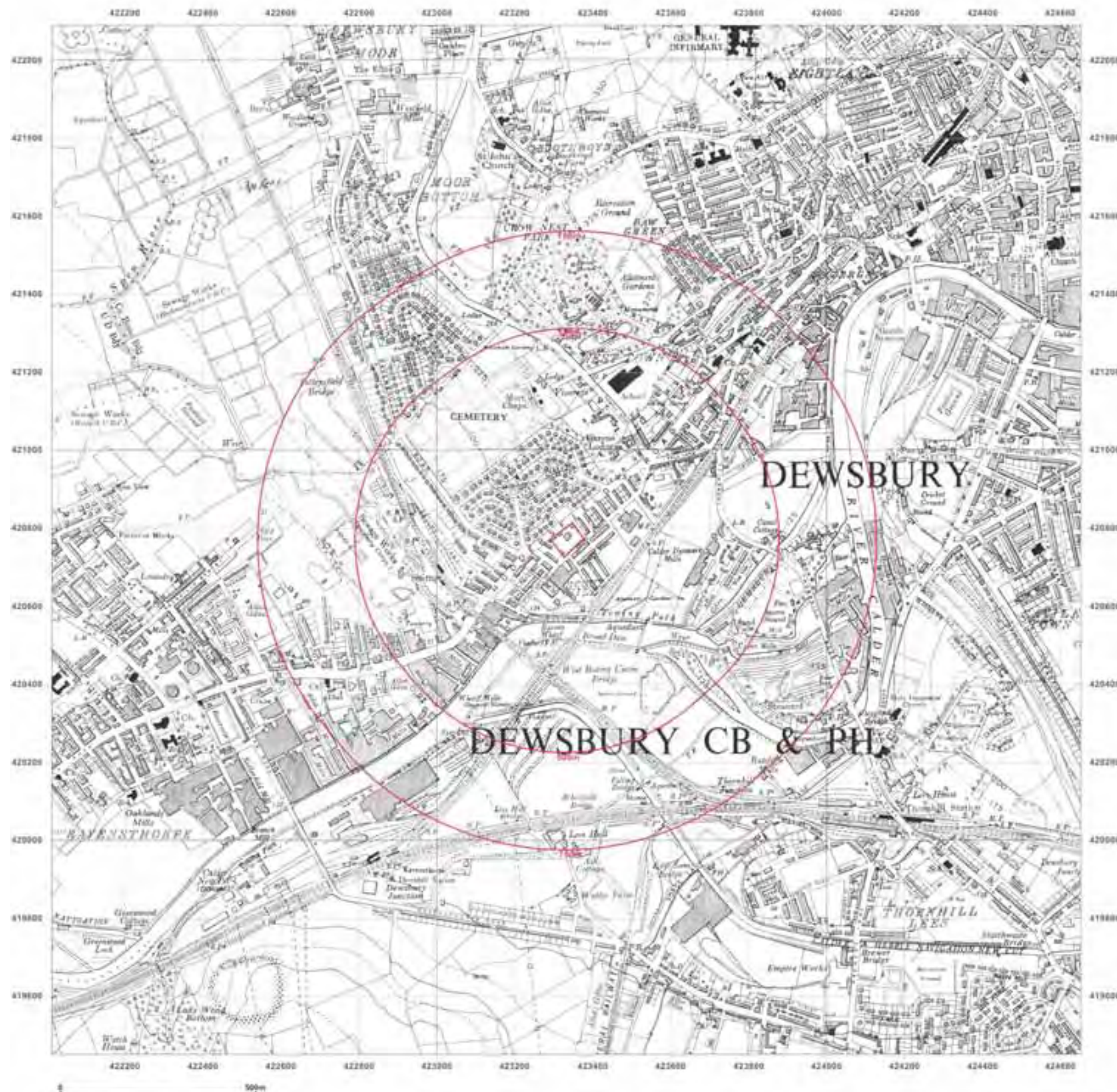


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** Provisional

**Map date:** 1966-1967

**Scale:** 1:10,560

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



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

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

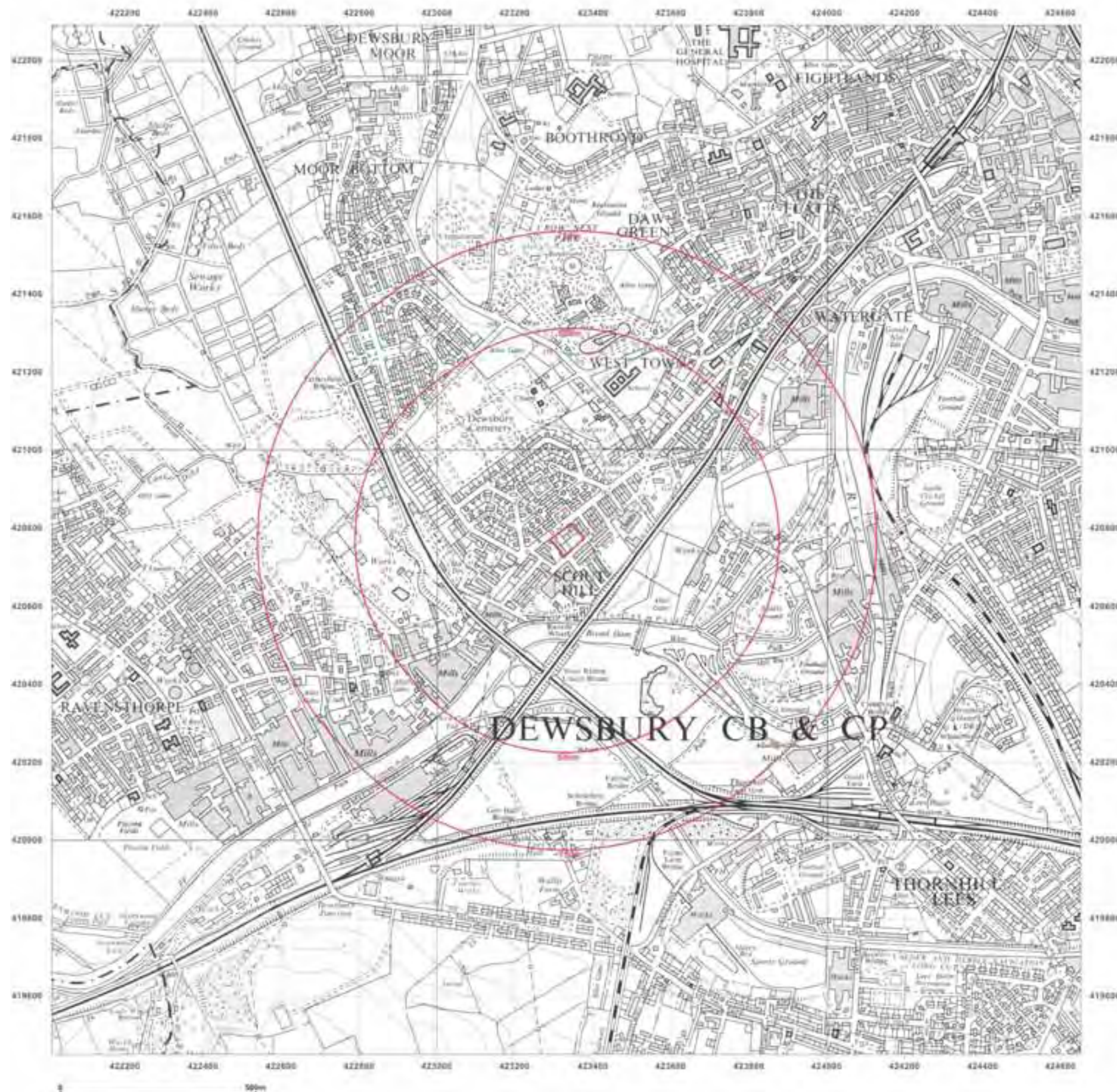


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

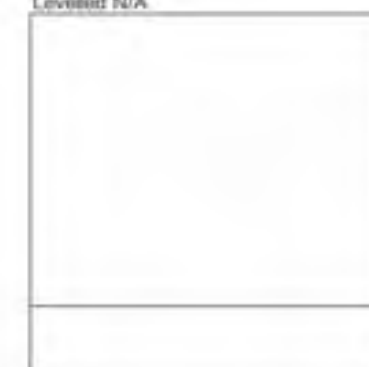
**Map date:** 1974

**Scale:** 1:10,000

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



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

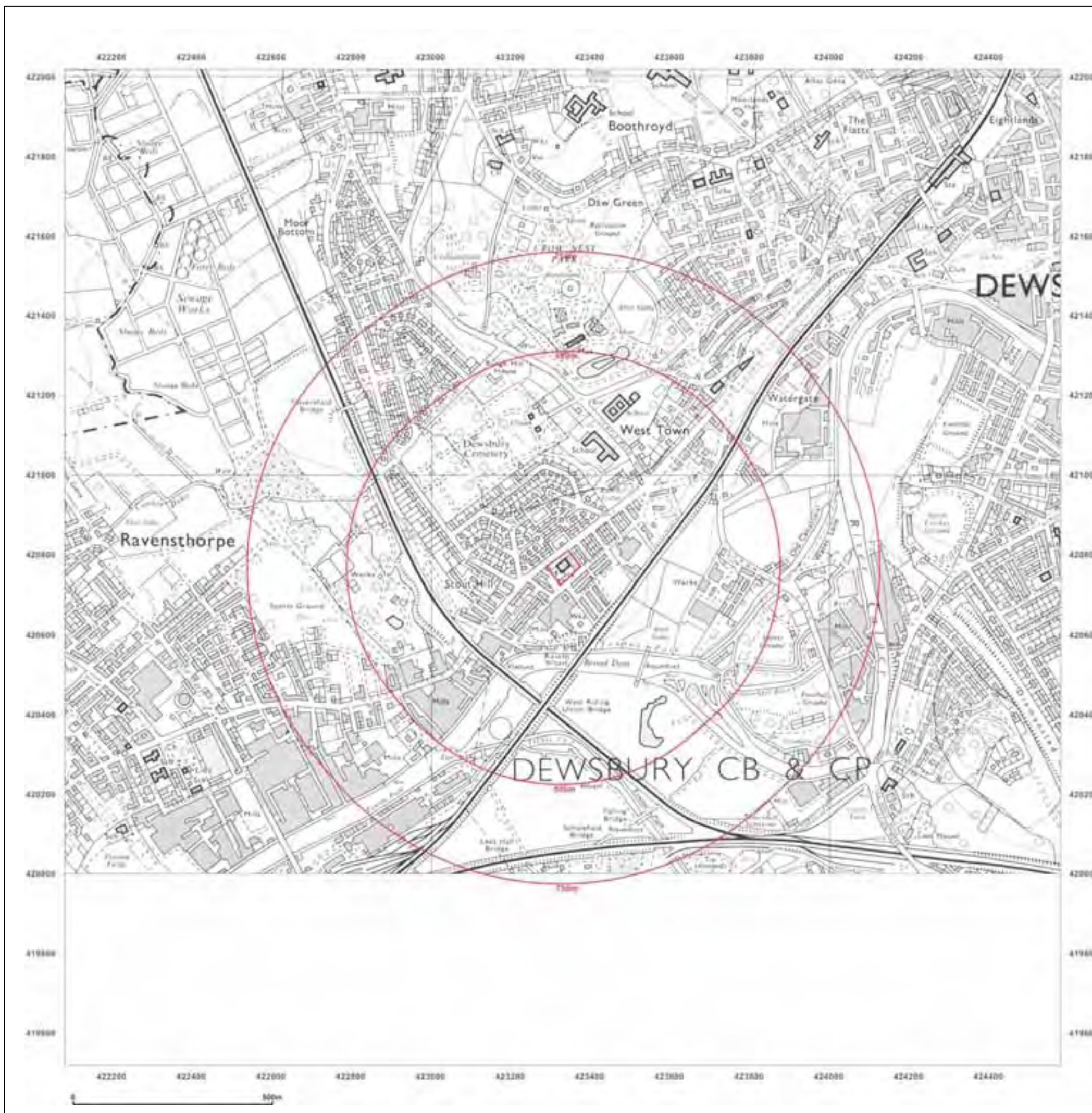


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1981-1982

**Scale:** 1:10,000

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



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

Surveyed 1977  
Revised 1982  
Edition N/A  
Copyright N/A  
Levelled N/A

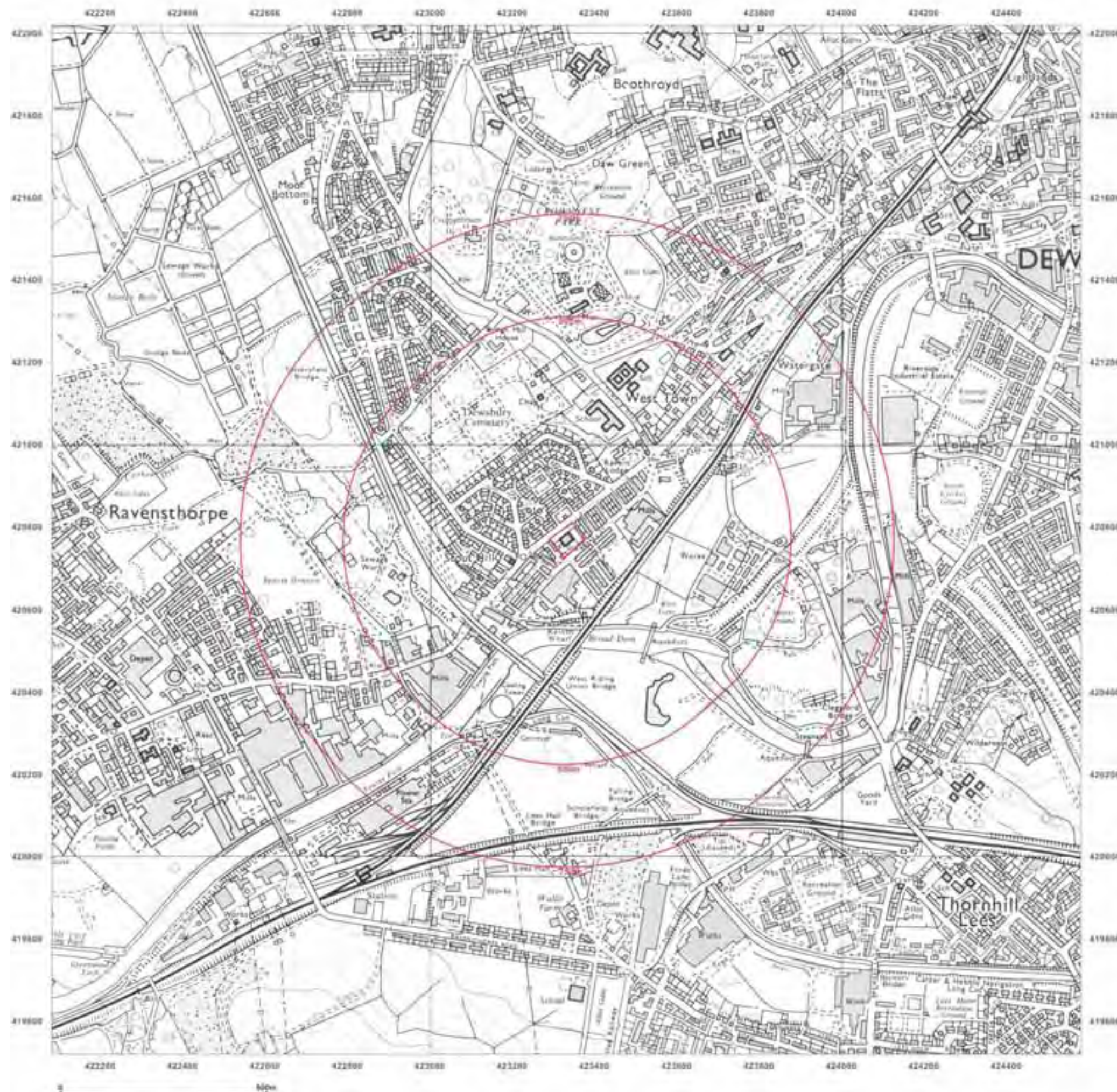


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 1988-1993

**Scale:** 1:10,000

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



Surveyed 1985  
Revised 1988  
Edition N/A  
Copyright N/A  
Levelled N/A

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

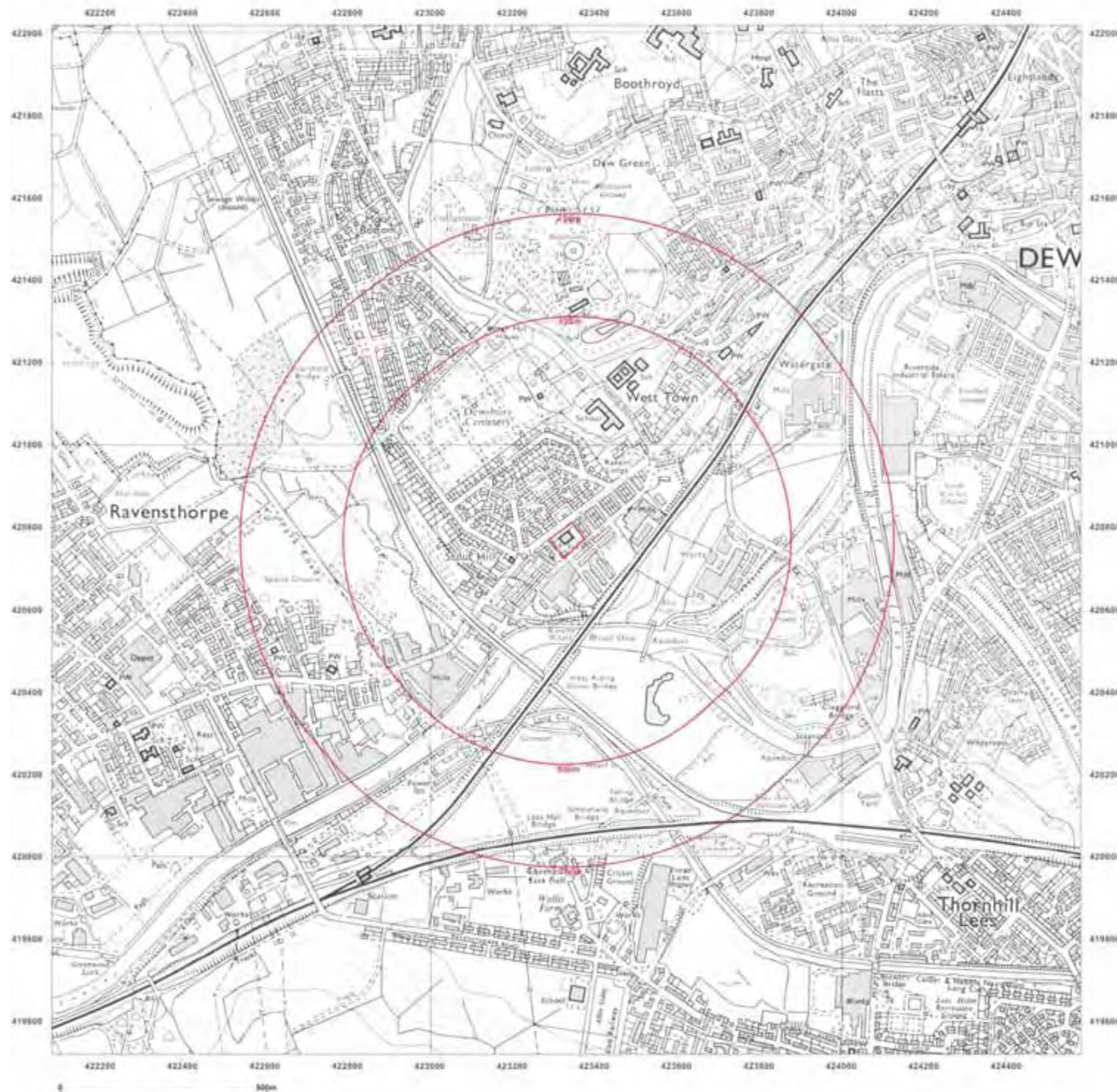


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

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

**Map date:** 2002

**Scale:** 1:10,000

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

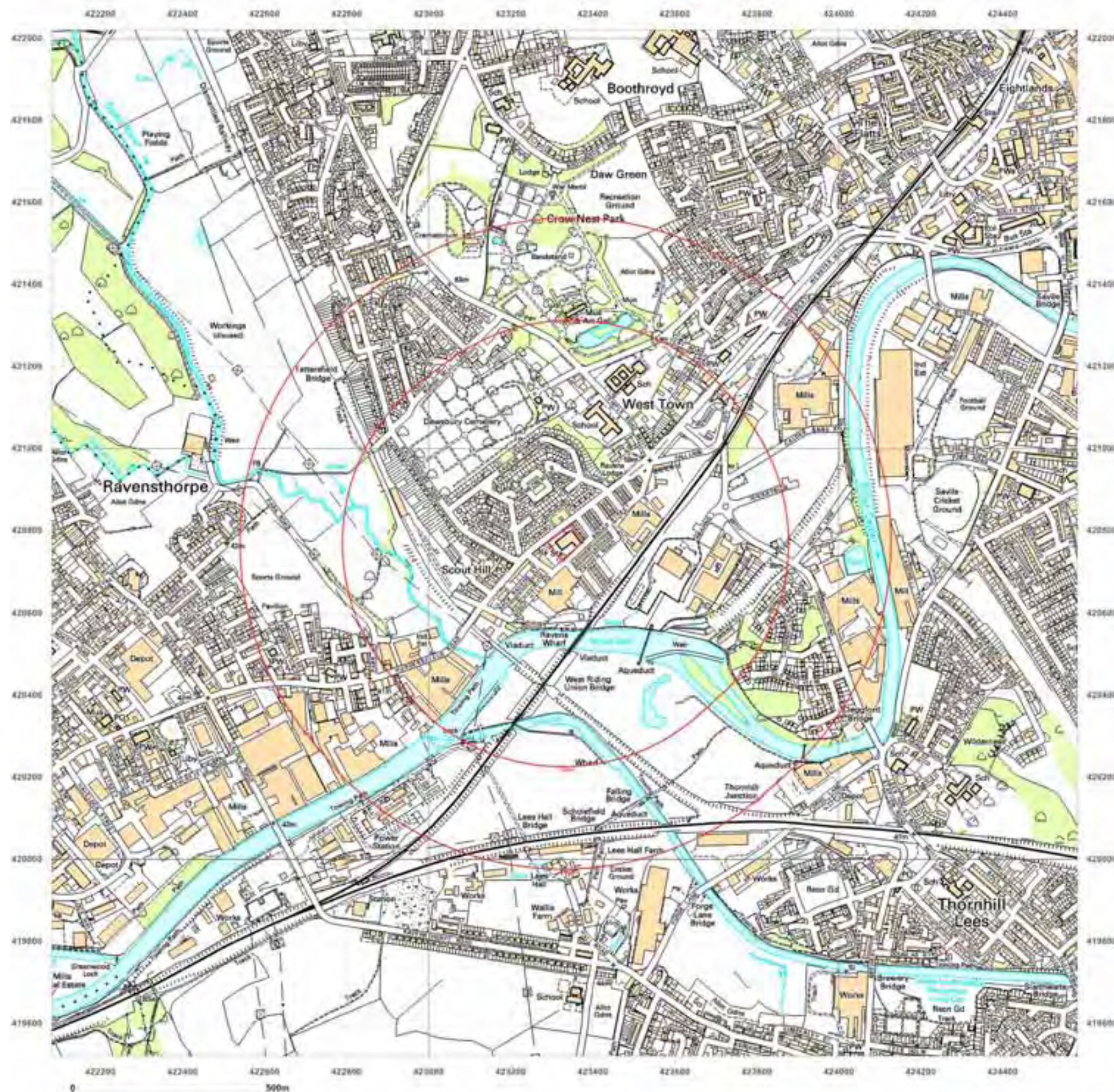


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

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

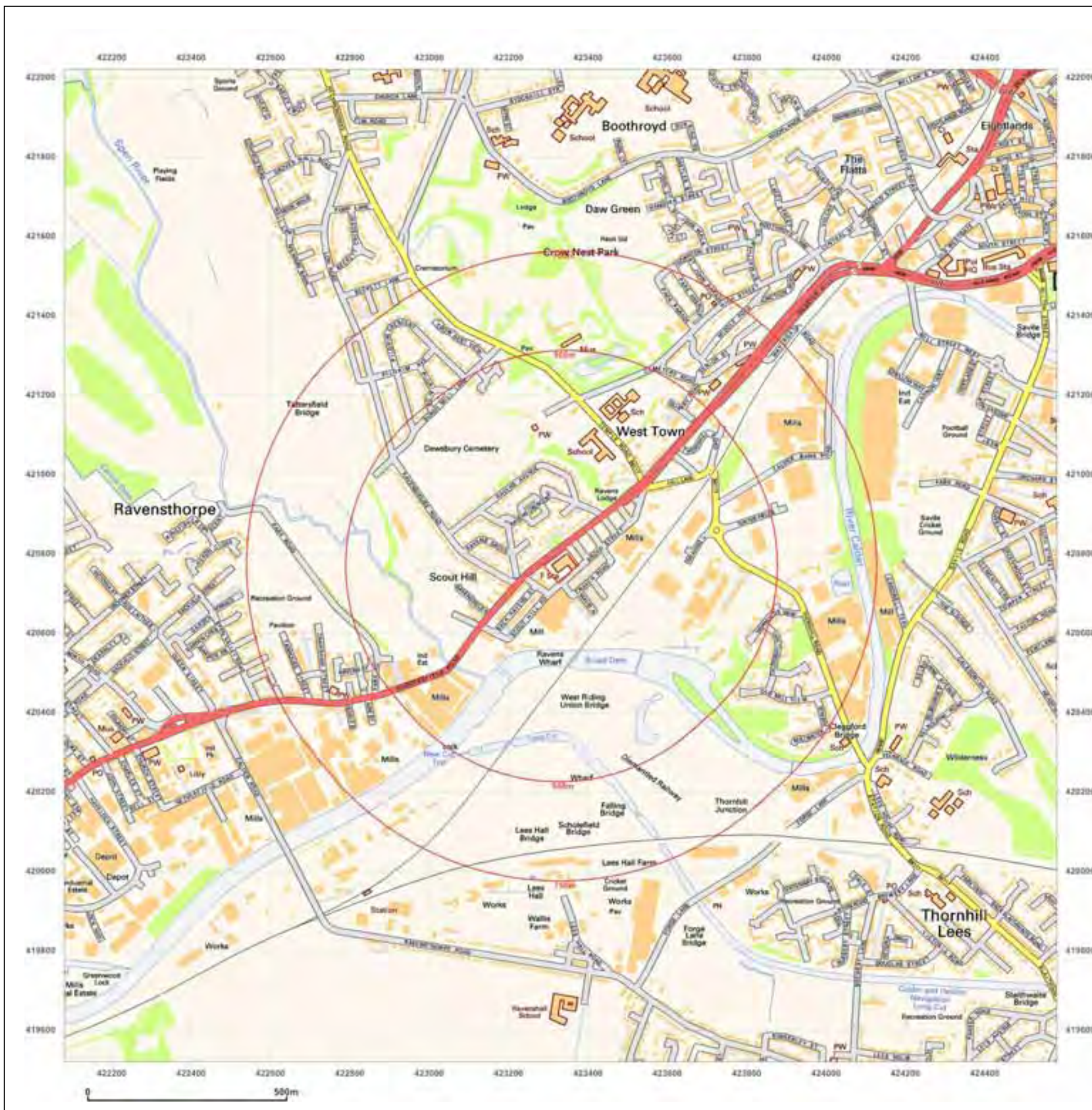


Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)



#### Site Details:

WEST YORKSHIRE FIRE &  
RESCUE SERVICE, FIRE  
STATION, HUDDERSFIELD  
ROAD, DEWSBURY, WF13 3RN

**Client Ref:** G2169\_-\_Dewsbury\_FS  
**Report Ref:** HMD-336-2474669  
**Grid Ref:** 423331, 420770

**Map Name:** National Grid

**Map date:** 2014

**Scale:** 1:10,000

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



Produced by  
Groundsure Insights  
T: 08444 159000  
E: [info@groundsure.com](mailto:info@groundsure.com)  
W: [www.groundsure.com](http://www.groundsure.com)

© Crown copyright and database rights 2015 Ordnance Survey 100035207

Production date: 01 October 2015

To view map legend click here [Legend](#)

