

**Ordnance Survey Plan**

**Published 1955**

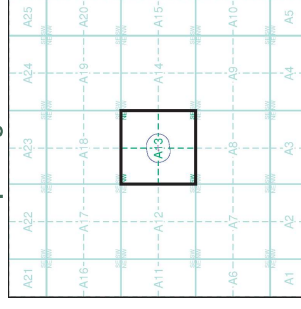
**Source map scale - 1:1,250**

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were used to create the maps shown in the 2000 single sheet maps. The maps were created by the Ordnance Survey, which created the single sheet maps, which were used to create the maps shown in the 2000 single sheet maps. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

|          |          |
|----------|----------|
| SD8408SW | SD8408SE |
| 1955     | 1955     |
| 1:1,250  | 1:1,250  |
| SD8405NW | SD8405NE |
| 1955     | 1955     |
| 1:1,250  | 1:1,250  |

**Historical Map - Segment A13**



**Order Details**

Order Number: 305211508\_1\_1  
Customer Ref: Heywood001  
National Grid Reference: 384550, 405920  
Slice: A  
Site Area (Ha): 0.05  
Search Buffer (m): 100

**Site Details**

190, Heywood Old Road, Middleton, Manchester, M24 4GR

**Ordnance Survey Plan**

**Published 1955**

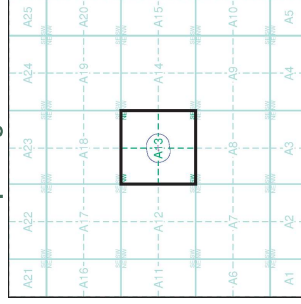
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey, which were adopted for England, Wales and Scotland in the 1840s. In 1854 the 2500 scale was applied for use in the Ordnance Survey. The maps were created by the Ordnance Survey, which was the national mapping authority for Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**

|        |      |
|--------|------|
| SD8406 | 1955 |
| 12,500 |      |
| SD8405 | 1955 |
| 12,500 |      |

**Historical Map - Segment A13**



**Order Details**

Order Number: 305211508\_1\_1  
Customer Ref: Heywood001  
National Grid Reference: 384550, 405920

Slice: A  
Site Area (Ha): 0.05  
Search Buffer (m): 100

**Site Details**

190, Heywood Old Road, Middleton, Manchester, M24 4GR



**Large-Scale National Grid Data**

**Published 1992**

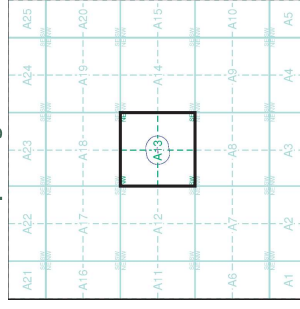
**Source map scale - 1:1,250**

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survival Information on Microfilm') in 1992, and continued to be produced until 1995. These maps were the forerunners of original mapping at 1:50,000 scale. They were produced from the same data as the 1:50,000 maps, but at a smaller scale. They were produced at 1:12,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

|          |          |
|----------|----------|
| SD8406SW | SD8406SE |
| 1992     | 1992     |
| 1:1,250  | 1:1,250  |
| SD8405NW | SD8405NE |
| 1992     | 1992     |
| 1:1,250  | 1:1,250  |

**Historical Map - Segment A13**



**Order Details**

Order Number: 305211508\_1\_1  
Customer Ref: Heywood001  
National Grid Reference: 384550, 405920  
Slice: A  
Site Area (Ha): 0.05  
Search Buffer (m): 100

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190, Heywood Old Road, Middleton, Manchester, M24 4GR

## APPENDIX C SITE RECONNAISSANCE PHOTOGRAPHS

| PHOTOGRAPHIC LOG                                         |          |                                                                                     |
|----------------------------------------------------------|----------|-------------------------------------------------------------------------------------|
| Photo no.                                                | Date:    |  |
| 1                                                        | 19.12.22 |                                                                                     |
| View East                                                |          |                                                                                     |
| Description:                                             |          |                                                                                     |
| Site, grass with some plant pots and timber around edges |          |                                                                                     |

|              |          |                                                                                      |
|--------------|----------|--------------------------------------------------------------------------------------|
| Photo No.    | Date:    |  |
| 2            | 19.12.22 |                                                                                      |
| View West    |          |                                                                                      |
| Description: |          |                                                                                      |
| Garden area  |          |                                                                                      |

|                                                     |                          |                                                                                    |
|-----------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|
| <b>Photo No.</b><br><b>3</b>                        | <b>Date:</b><br>19.11.22 |  |
| View North West                                     |                          |                                                                                    |
| <b>Description:</b><br>Site entrance off Ellis Lane |                          |                                                                                    |

|                                                                    |                          |                                                                                      |
|--------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|
| <b>Photo No.</b><br>4                                              | <b>Date:</b><br>19.12.22 |  |
|                                                                    |                          |                                                                                      |
| <b>Description:</b><br>Grass over topsoil, no made ground present. |                          |                                                                                      |

## **APPENDIX D    TECHNICAL BACKGROUND**

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### **H1 Desk Study**

#### **Aquifer designation and Source protection zones**

Principal aquifer: layers of rock or drift deposit that have high intergranular and/or fracture permeability (usually providing a high level of water storage). They may support water supply and/or river base flow on a strategic scale.

Secondary A aquifer: 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.

Secondary B aquifer: predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering.

Secondary undifferentiated aquifer: it has not been possible to attribute either a category A or B to a rock type. In most cases this means that it was previously designated as both a minor and non-aquifer in different locations owing to the variable characteristics.

Unproductive' strata: low permeability with negligible significance for water supply or river base flow.

The EA generally adopts a three-fold classification of source protection zones (SPZ) surround abstractions for public water supply. The Site is situated in an area defined as follows:

- Zone 1 or the 'inner protection zone' is located immediately adjacent to the groundwater source and is based on a 50-day travel time from any point below the water table to the source. It is designed to protect against the effects of human activity and biological/chemical contaminants that may have an immediate effect on the source
- Zone 2 or the 'outer protection zone' is defined by a 400-day travel time from a point below the water table to the source. The travel time is designed to provide delay and attenuation of slowly degrading pollutants
- Zone 3 or the 'total catchment' is the area around the source within which all groundwater recharge is presumed to be discharged at the source.

#### **Preliminary risk assessment methodology**

LCRM outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) contaminant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the

likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in 'Draft Circular on Contaminated Land', DETR 2000)
- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem
- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment
- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

|             |                | Consequences |              |              |              |
|-------------|----------------|--------------|--------------|--------------|--------------|
|             |                | Severe       | Medium       | Mild         | Minor        |
| Probability | Highly likely  | Very high    | High         | Moderate     | Moderate/low |
|             | Likely         | High         | Moderate     | Moderate/low | Low          |
|             | Low likelihood | Moderate     | Moderate/low | Low          | Very low     |
|             | Unlikely       | Moderate/low | Low          | Very low     | Very low     |

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required
- high: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term
- moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term
- low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild
- very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.

### **Reuse of suitable materials**

*The Definition of Waste: Development Industry Code of Practice* (CL:AIRE, 2011) (CoP) was developed in consultation with the Environment Agency and development industry to enable the re-use of materials under certain scenarios and subject to demonstrating that specific criteria are met. The current reuse scenarios covered by the CoP comprise

- reuse on the site of origin (with or without treatment)
- direct transfer of clean and natural soils between sites
- use in the development of land other than the site of origin following treatment at an authorised Hub site (including a fixed soil treatment facility).

The importation of made ground soils (irrespective of contamination status) or crushed demolition materials is not permitted currently under the CoP and requires either a standard rules environmental permit or a U1 waste exemption (see below).

In the context of excavated materials used on-sites undergoing development, four factors are considered to be of particular relevance in determining if the material is a waste or when it ceases to be waste:

- the aim of the Waste Framework Directive is not undermined, i.e. if the use of the material will create an unacceptable risk of pollution of the environment or harm to human health it is likely to be waste
- the material is certain to be used
- the material is suitable for use both chemically and geotechnically
- only the required quantity of material will be used.

The CoP requires the preparation of a materials management plan (MMP) that confirms the above factors will be met. This plan needs to be reviewed by a 'Qualified Person' (QP) who will then issue



a declaration form to the EA. As the project progresses, data must be collated and on completion a verification report produced that shows the MMP was followed and describes any changes.

The MMP establishes whether specific materials are classified as waste and how excavated materials will be treated and/or reused in line with the CoP. The MMP is likely to form part of the site waste management plan.