



**Prestwich Village
Prestwich
Manchester
M25 1AY**

Desk Study Report

The Prestwich Regeneration LLP

January 2024

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Contents

Executive Summary

1.0	Introduction.....	1
2.0	The Site	2
3.0	Ground Conditions	6
4.0	Risk Assessment	7
5.0	Conclusions.....	9

Appendix



Executive summary

This executive summary contains an overview of the key findings and conclusions. No reliance should be placed on any part of the executive summary until the whole of the report has been read. Other sections of the report may contain information that puts into context the findings that are summarised in the executive summary.

Brief

This report describes the findings of a desk study carried out by Geotechnical and Environmental Associates Limited (GEA) has been carried out on behalf of The Prestwich Regeneration LLP. It is understood that it is proposed to redevelop the site as described in the planning application as follows:

“Hybrid application comprising: Full planning application proposing demolition of existing buildings and structures and the erection of a phased mixed use development including a Community Hub comprising flexible uses including library, offices, medical or health services (Use Classes F1 (a-f), F2(b), E(c), E(e), E(g)) and retail uses (Use Classes E(a), E(b) F2(a)) and Sui Generis (hot food takeaway and bar), a new Market Hall (Use Classes E(a), E(b) and Sui Generis (hot food takeaway and bar)), a Commercial Building comprising flexible uses including retail, offices, gymnasium (Use Classes E(a), E(b), E(c), E(d), E(g), F2(a), a Travel Hub comprising car parking and cycle parking (Sui Generis), a public square and public realm and associated landscaping, car parking provision, cycle storage and other associated works; and part Outline planning application (with all matters reserved) proposing a phased residential led mixed use development comprising residential (Use Class C3), flexible commercial, business, service, local community and learning uses (Use Classes E, F) and Sui Generis (hot food takeaway and bar), engineering works to Rectory Lane, new public realm, associated landscaping, car parking provision, cycle storage and other associated works”.

The purpose of the work has been to determine the history of the site, to assess the potential for contamination, to provide preliminary information on the expected ground conditions and to provide preliminary information on foundation options with regard to the proposed development of the site.

Desk Study Findings

The earliest map studied, dated 1848, shows the northern half of the site to have been occupied by a section of a large field and by the next available map dated 1891, a cricket ground had been established within this part of the site. Between 1909 and 1952, this part of the site was gradually developed with small buildings of unknown use increasing in number over time and by 1952, it is noted as being a corporation yard. The site remained relatively unchanged until 1983, by which point the corporation yard had been converted into the car park which is present at the time of this investigation.

Within southern areas of the site, the 1848 map shows a section to have contained what are understood to have been terraced residential properties located along roads named Longfield and Clayton Street, which ran approximately east-west and northeast-southwest respectively. The next available map, dated 1891, shows further residential properties had been constructed directly to the south and north of the existing properties, and were located along new roads named Park Terrace and Poppythorn Lane. Within the centre of the site, two further roads named Barrow Street and Fairfax Road had been constructed, running approximately north-south and east-west respectively. This map also shows the edge of the newly constructed Prestwich railway station

and associated railway yard to have been located within the southeastern corner of the site. By 1909, further properties had been constructed within the areas along the previously mentioned roads. The site remained relatively unchanged until some time between 1968 and 1974, when all of the residential properties and roads located within this area apart from Fairfax Road and Poppythorn Lane had been replaced by the Longfield Shopping Centre and Health Centre as well as the car park in the southeast. This area of the site has remained relatively unchanged until the time of this investigation.

The site was surrounded to the north, northwest and east by open fields and to the south and west by the town of Prestwich in 1848. Approximately 30 m to the east, a river flowing towards the east was present and approximately 30 m to the west, the Chester and Bury New Road was present running approximately northwest-southeast. A stream named Prestwich Bank flowed towards the east approximately 500 m to the south, and what are believed to be gravel pits are located approximately 400 m to the north with sand pits present 800 m to the south. By 1891, active railway lines are shown on an embankment along the eastern boundary of the site. To the southeast of the site, Prestwich railway station and associated rail yard had been constructed. To the west of the site, properties had been constructed around the Chester and Bury New Road and further to the east, the County Lunatic Asylum, which consists of a large number of buildings, had been constructed. Furthermore, Prestwich Hills Reservoir had been constructed 900 m to the south. The river to the east, gravel pits to the north and sand pits to the south are no longer shown. Between 1891 and 1955, the surrounding area underwent residential development in all directions and the County Lunatic Asylum had been renamed Prestwich Hospital and the Chester and Bury New Road had been renamed Bury New Road. By 1977, the railway yard to the south of Prestwich railway station had been replaced by a builders yard and residential properties, and by 1992, the railway station and lines were converted into the Metrolink station and tram lines. By 1999, the Prestwich Hills Reservoir had been replaced by further residential development.

The site is expected to be underlain by the Glaciofluvial Deposits and Hummocky Glacial Deposits over the Pennine Upper Coal Measures Formation, with the Worsley Delf Rock located across the majority of the site. A search of the BGS borehole database has identified that no historic boreholes are located within 500 m of the site.

Groundwater is likely within the Glaciofluvial Deposits and Hummocky Glacial Deposits, flowing in a southerly direction towards Prestwich Bank.

Contamination Risk Assessment

On the basis of the findings of the research carried out and following the CIRIA guidelines, there is considered to be a MODERATE to LOW risk of there being a contamination linkage at this site. A risk from soil gas is not envisaged.

Foundation Assessment

In view of the anticipated moderate loads, it would be expected that two-storey buildings could be supported on spread foundations, provided there is not a significant thickness of made ground, whilst the loads from the proposed seven-storey building may require the use of piled foundations.



1.0 Introduction

Geotechnical and Environmental Associates Limited (GEA) on behalf of The Prestwich Regeneration LLP, to carry out a desk study at Prestwich Village, Prestwich, Manchester, M25 1AY.

1.1 Proposed Development

It is understood that it is proposed to redevelop the site as described in the planning application as follows:

“Hybrid application comprising: Full planning application proposing demolition of existing buildings and structures and the erection of a phased mixed use development including a Community Hub comprising flexible uses including library, offices, medical or health services (Use Classes F1 (a-f), F2(b), E(c), E(e), E(g)) and retail uses (Use Classes E(a), E(b) F2(a)) and Sui Generis (hot food takeaway and bar), a new Market Hall (Use Classes E(a), E(b) and Sui Generis (hot food takeaway and bar)), a Commercial Building comprising flexible uses including retail, offices, gymnasium (Use Classes E(a), E(b), E(c), E(d), E(g), F2(a), a Travel Hub comprising car parking and cycle parking (Sui Generis), a public square and public realm and associated landscaping, car parking provision, cycle storage and other associated works; and part Outline planning application (with all matters reserved) proposing a phased residential led mixed use development comprising residential (Use Class C3), flexible commercial, business, service, local community and learning uses (Use Classes E, F) and Sui Generis (hot food takeaway and bar), engineering works to Rectory Lane, new public realm, associated landscaping, car parking provision, cycle storage and other associated works”.

This report is specific to the proposed development and the advice herein should be reviewed if the development proposals are amended.

Figure 1 on the next page shows the approximate proposed layout of the development.

1.2 Purpose of work

The principal technical objectives of the work carried out were as follows:

- check the history of the site and surrounding area, particularly with respect to any previous or present potentially contaminative uses;
- to provide an assessment of the risk of encountering unexploded ordnance (UXO);
- to research the geology and hydrogeology of the site;
- to research the coal mining risk to the site;
- to check records of data on groundwater, surface water and other publicly available environmental data;
- to use the information obtained in the above searches to carry out a qualitative risk assessment with respect to subsurface contamination; and
- to provide preliminary comments on foundation options.

1.3 Scope of work

In order to meet the above objectives, a desk study was carried out, comprising, in summary, the following activities:

- a review of historical Ordnance Survey (OS) maps supplied from the Envirocheck database;
- a review of publicly available environmental data sourced from Envirocheck;
- a detailed unexploded ordnance (UXO) risk assessment carried out by 1st Line Defence;
- sourcing a Consultants Coal Mining risk assessment from the Coal Authority;
- a review of readily available geology maps; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.



Figure 1: Plan of the proposed development

2.0 The Site

2.1 Site Description

The site is located in the town of Prestwich, approximately 40 m west of Prestwich railway station and is occupied by buildings and car parks associated with Longfield Shopping Centre. The site is bounded directly to the northeast by active Metrolink lines running approximately northwest-southeast, which are on a 2 m to 3 m high embankment separated from the site by a chain-link fence. To the east, the site is bounded by Prestwich Metrolink stop and its car park and to the southeast by three-storey residential buildings surrounded by areas of soft landscaping and sporadic mature trees.

Rectory Lane runs along the southern boundary of the site, with St Mary's C of E Primary School to the south of the road.

The site is bounded to the west and southwest by commercial properties including public houses and a supermarket, which are front onto the A58, Bury New Road, which is situated further to the west.

To the northwest of the site, residential properties and a church are present, and to the north, a series of allotments are separated from the site by a small area of hardstanding and Highfield Place, a road which runs parallel with Fairfax Road. Three medium-rise mixed use buildings containing small areas of soft landscaping are present directly to the northwest of the centre of the site.

The site is irregularly shaped and covers a plan area of approximately 2.48 hectares. Due to its size, the site is considered in three parts which are shown on Figure 2 on the next page. The site may be additionally located by National Grid Reference 381270, 404150.

2.1.1 Longfield Shopping Centre

The shopping centre occupies the southwestern part of the site and consists of various single storey to three-storey brick buildings containing a series of existing shops and retail units, with the buildings separated by pedestrianised areas. A substantial water fountain surrounded by an area of decorative paving is located to the north of these buildings. A small, cobbled road named Poppythorn Lane connects a car park located in the centre of the shopping centre to the A58 trunk road to the west, and appears to be a service road to the commercial units. This road connects to Rectory Lane in the east of the site

2.1.3 Southern Car Park and Prestwich Health Centre

The southeastern and central parts of the site are occupied by large, roughly rectangular-shaped surface asphalt car parks and the Prestwich Health Centre, which consists of single storey and two-storey brick buildings. Both areas are accessed from the east by Rectory Lane, which wraps around the southern and eastern edges of the site and both locations are separated by an access road leading to a car park associated with the Health Centre. Areas of soft landscaping and mature trees surround Prestwich Health Centre and further trees are located along the access road. This part of the site is separated from another large, open car park to the north by Fairfax Road, which runs roughly east-west.

2.1.3 Northern Car Park

The northernmost part of the site is occupied by a second large, roughly rectangular-shaped surface asphalt car park and is accessed from Fairfax Road to the south. Mature trees are present along the western and northern edges of the car park, and the car park is separated from the buildings to the west by a brick wall approximately 2 m in height.

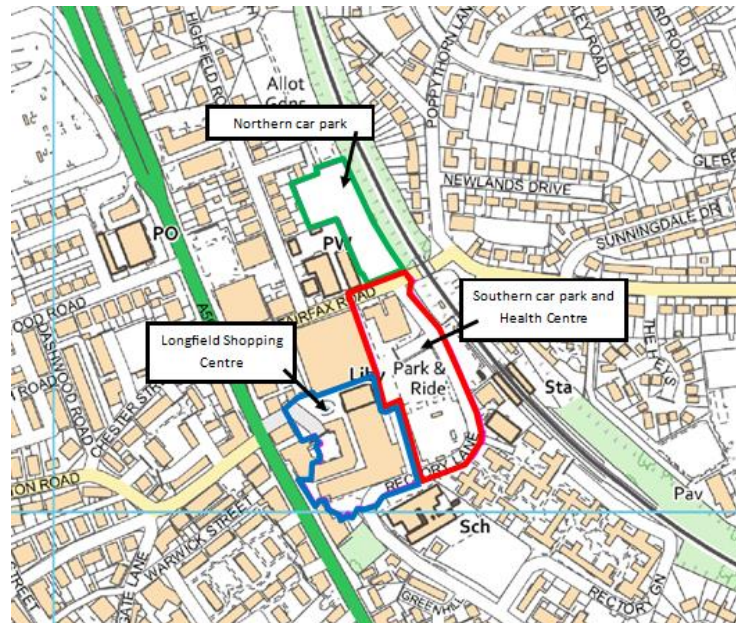


Figure 2: Plan showing the site divided into three sections

2.2 Site History

The site history has been researched by reference to internet sources and historical Ordnance Survey (OS) maps obtained from the Envirocheck database are located in Section 2 of the Appendix.

2.2.1 Northern part of the site

The earliest map studied, dated 1848, shows the northern half of the site to have been occupied by a section of a large field and by the next available map dated 1891, a cricket ground had been established within this part of the site. Between 1909 and 1952, this part of the site was gradually developed with small buildings of unknown use increasing in number over time and by 1952, it is noted as being a corporation yard. The site remained relatively unchanged until 1983, by which point the corporation yard had been converted into the car park which is present at the time of this investigation.

2.2.2 Southern and western parts of the site

The 1848 map, shows a section to have contained what are understood to have been terraced residential properties located along roads named Longfield and Clayton Street, which ran approximately east-west and northeast-southwest respectively. The next available map, dated 1891, shows further residential properties had been constructed directly to the south and north of the existing properties, and were located along new roads named Park Terrace and Poppythorn Lane. Within the centre of the site, two further roads named Barrow Street and Fairfax Road had been constructed, running approximately north-south and east-west respectively. This map also shows the edge of the newly constructed Prestwich railway station and associated railway yard to have been located within the southeastern corner of the site. By 1909, further properties had been constructed within the areas along the previously mentioned roads.

The site remained relatively unchanged until some time between 1968 and 1974, when all of the residential properties and roads located within this area apart from Fairfax Road and Poppythorn Lane had been replaced by the Longfield Shopping Centre and Health Centre as well as the car park in the southeast. This area of the site has remained relatively unchanged until the time of this investigation.

2.2.3 Surrounding area

The site was surrounded to the north, northwest and east by open fields and to the south and west by the town of Prestwich in 1848. Approximately 30 m to the east, a river flowing towards the east was present and approximately 30 m to the west, the Chester and Bury New Road was present running approximately northwest-southeast.



A stream named Prestwich Bank flowed towards the east approximately 500 m to the south, and what are believed to be gravel pits are located approximately 400 m to the north with sand pits present 800 m to the south. By 1891, active railway lines are shown on an embankment along the eastern boundary of the site. To the southeast of the site, Prestwich railway station and associated rail yard had been constructed. To the west of the site, properties had been constructed around the Chester and Bury New Road and further to the east, the County Lunatic Asylum, which consists of a large number of buildings, had been constructed. Furthermore, Prestwich Hills Reservoir had been constructed 900 m to the south. The river to the east, gravel pits to the north and sand pits to the south are no longer shown.

Between 1891 and 1955, the surrounding area underwent residential development in all directions and the County Lunatic Asylum had been renamed Prestwich Hospital and the Chester and Bury New Road had been renamed Bury New Road. By 1977, the railway yard to the south of Prestwich railway station had been replaced by a builders yard and residential properties, and by 1992, the railway station and lines were converted into the Metrolink station and tram lines. By 1999, the Prestwich Hills Reservoir had been replaced by further residential development.

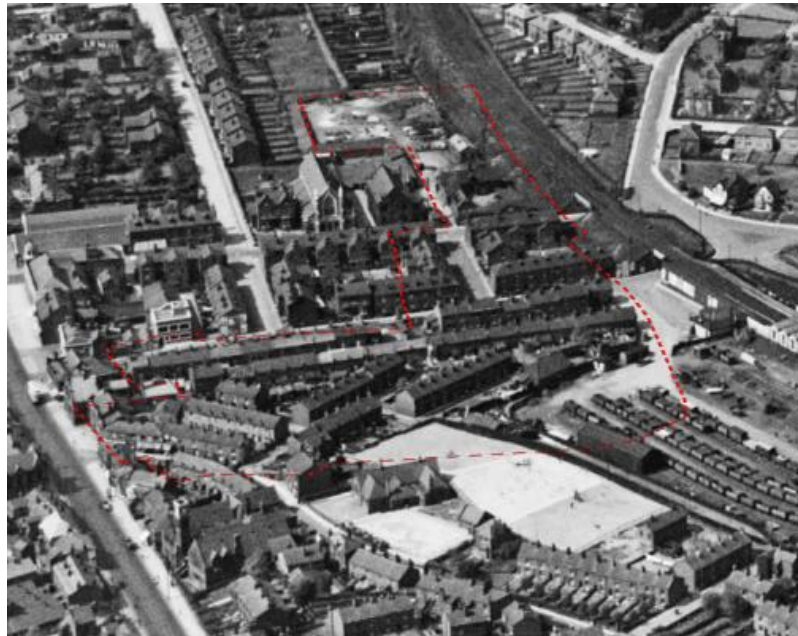


Figure 3: Aerial photograph dated 1935 looking north with site outlined in red, from *Historic England*

2.2.4 Planning History

A search of planning records held by Bury Council has shown the following planning applications in Table 1 below pertaining to the site.

Table 1: Summary of the planning applications relating to the site

Location	Planning Ref No	Registration Date	Details	Outcome
36 Longfield Shopping Centre	83/01091	05/08/1983	Internally illuminated shop sign and projecting signs	Approved
Longfield Shopping Centre	88/01831	25/04/1988	Internally illuminated wall sign	Approved
Sainsburys, Longfield Shopping Centre	89/22275	04/02/1989	Relocatable building	Approved
32 Longfield Shopping Centre	89/22639	25/04/1989	Change of use from Class A1 (shop) to dry cleaners	Approved
18-20 Longfield Shopping Centre	31840	09/02/1996	New shop front	Approved with conditions
Sainsburys, Longfield Shopping Centre	35880	11/10/2001	Installation of additional refrigeration packs & condensers situated on roof of store	Approved with conditions
Rooftop of Longfield Shopping Centre	37524	09/03/2001	Installation of 5 m stub mast, 3 cross polar antenna, 4 x 600 mm dishes and one equipment cabin	Approved
Unit 27 Longfield Shopping Centre	37879	30/05/2001	Change of use from retail (A1) to Class A3 (food & drink)	Approved with conditions
Longfield Shopping Centre/Car Park and Adjoining Land	51465	17/06/2009	Demolition of existing buildings and construction of a town centre mixed use development	Approved with conditions
Longfield Shopping Centre/Car Park and Adjoining Land	54978	16/03/2012	Extension of the previous application	Approved with conditions



2.3 Other Information

A search of public registers and databases has been made via the Envirocheck database and relevant extracts from the search are appended. Full results are located in Section 1 of the Appendix.

The Envirocheck report has indicated a single historic landfill within 1 km of the site. Drinkwater Park landfill was located approximately 908 m to the southwest and having accepted inert, household, industrial, commercial and special waste as well as liquid sludge and stopped accepting waste in 1984 and is located approximately 30 m down gradient of the site such that it is deemed not likely to have impacted the site. No recorded waste management facilities, waste transfer, waste treatment or disposal sites are present within 1 km of the site.

Two areas of potentially infilled land (non-water) are located approximately 304 m to the north and 428 m to the east of site. Both involve unknown filled ground that are thought to be the gravel pits infilled in the late 19th century. Furthermore, a total of eleven areas of potentially infilled water are located within 500 m of the site, with the closest located approximately 28 m east, 143 m north and 156 m northwest and is believed to be related to the river infilled prior to 1891.

No pollution incidents to controlled waters are recorded within 500 m of the site.

There are three contemporary trade directory entries listed on site and a further four within 100 m of the site. The trade directories are summarised in Table 2 opposite.

Table 2: Summary of the trade directories relating to the site

Distance	Location	Entry	Active / Inactive
On site	12 Longfield Centre	Dry Cleaners	Inactive
On site	40 Longfield Centre	Photographic Processors	Inactive
On site	Longfield Centre	Wallpaper and Wall Coverings	Inactive
25 m W	30 Longfield Centre	Dry Cleaners	Inactive
28 m W	468 Bury New Road	Wallpaper and Wall Coverings	Inactive
39 m SW	3 Warwick Street	Printers	Inactive
58 m N	468 Bury New Road	Ironing & Home Laundry Services	Inactive

There is a single fuel filling station within 250 m of the site, which was located 113 m northeast but is listed as obsolete. The nearest operational fuel filling station is 319 m to the northwest of the site, but it is unlikely to have an impact on the site at this distance.

Information on Urban Soil Chemistry provided by the BGS indicates that background concentrations for arsenic, cadmium and lead on site are likely to range between 15 mg/kg and 25mg/kg, 30mg/kg and 45 mg/kg and 200 mg/kg and 300 mg/kg respectively. Therefore, relatively high concentrations of these metals may be encountered within any near surface soils present on the site will need to be taken into account in any subsequent risk assessment.

Reference to records compiled by the Health Protection Agency (formerly the National Radiological Protection Board) indicates that the site falls within an area where 1 % to 3 % of homes are affected by radon emissions and therefore radon protective measures should not be necessary.



2.4 Detailed UXO Risk Assessment

A Detailed UXO Risk Assessment has been completed by 1st Line Defence (report ref DA16882a-00, dated 13th October 2023), and the report is included in Section 3 of the Appendix. The risk assessment has been carried out in accordance with the guidelines provided by CIRIA¹, which state that the likelihood of encountering and detonating UXO below a site should be assessed along with establishing the consequences that may arise..

The report indicates that, during World War II (WWII), the site was within Prestwich Municipal Borough which according to official Home Office bombing statistics sustained an overall very low density of bombing, with an average of 6.6 items of ordnance per 1,000 acres. Prestwich was not bombed as extensively as other areas within the north-west of England, such as Manchester, and positive evidence of bombing has been found, with the closest incident recorded 600m north-east of the site. As such, the risk from UXO contamination is not thought to be above the 'background risk' for this area of the UK, and the site has been assessed as low risk, meaning no further action is recommend in this respect.

2.5 Coal Authority Mining Report

The Coal Authority Consultants Mining Report for the site, included in Section 4 of the Appendix notes that two historic underground mines were present beneath the site. Mining was undertaken at depths of 296 m and 476 m and ceased between 1970 and 1971.

The report also has no records of probable unrecorded shallow workings or mine entries within 100 m. There are no recorded coal outcrops on site or opencast mines within 500 m.

There is no recorded mine gas or mine water treatment within 500 m, but the report notes two claims of coal mining subsidence within 50 m and required that further research should be undertaken in the form of review of a Coal Authority Subsidence Claim reports and included in Section 5 of the Appendix.

The reports obtained from the Coal Authority revealed that investigations into the Subsidence Claims were conducted during March and September 1995. The claims were withdrawn and rejected respectively. On this basis, there is not considered to be a risk to the proposed development from coal mining activity.

3.0 Ground Conditions

3.1 Soil Conditions

The British Geological Survey (BGS) map of the area, obtained from Envirocheck in Figure 4 below, indicates that the site is directly underlain by Glaciofluvial Deposits in the northern part of the site and Hummocky Glacial Deposits in the central and southern parts. These materials are indicated to both comprise sand and gravels. Beneath the superficial deposits the Pennine Upper Coal Measures Formation is present, specifically the Worsley Delf Rock, which is expected beneath the majority of the site except the southernmost corner.

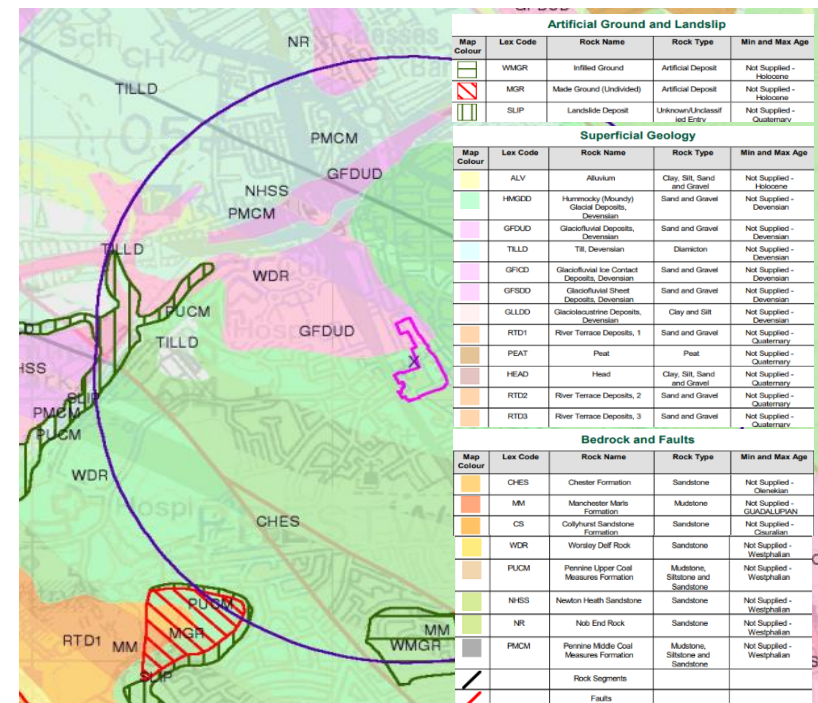


Figure 4: Geological map of the site and surrounding area.

1 CIRIA C681 (2009) *Unexploded ordnance (UXO) A guide for the construction industry*



A search of the BGS borehole database has not identified any records of historic boreholes drilled on site, but four are located 120 m to 150 m to the south. The boreholes encountered made ground to depths of between 0.35 m and 3.00 m (91.27 m OD and 96.77 m OD) underlain by Hummocky Glacial Deposits comprising silty clay and sand with fragments of coal were encountered to the maximum depth investigated of 11.50 m (85.80 m OD).

3.2 Hydrology and Hydrogeology

The Hummocky Glacial Deposits, Glaciofluvial Deposits and Pennine Upper Coal Measures Formation are classified by the Environment Agency as Secondary 'A' Aquifers, which refers to 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.

The nearest surface water feature is Prestwich Bank, located 450 m to the south, although a water feature in the form of a water fountain is present in the western corner of the site.

The aforementioned BGS boreholes encountered groundwater strikes locally within the Hummocky Glacial Deposits at depths of between 3.25 m and 4.20 m, standing at depths of between 3.00 m and 3.20 m and a seepage of 9.50 m. However, groundwater was not encountered within each borehole, suggesting that the groundwater table may not be continuous.

The site is not located within a Groundwater Source Protection Zone and is located within an area with limited potential for groundwater flooding to occur.

The site is almost entirely covered by areas of concrete and tarmac hardstanding and buildings, with a small number of areas of soft landscaping in the north and central parts of the site. Infiltration of rainwater is generally restricted to surface water drains, such that the majority of surface runoff drains into the drainage system currently on site. .

The proposed development will result in no significant change in the amount of hard coverage and therefore will cause no change in the amount of runoff or volume of water received into the existing sewer system. There should not, therefore, be any requirement for any mitigation measures.

4.0 Risk Assessment

4.1 Environmental Risks

Part IIA of the Environmental Protection Act 1990, which was inserted into that Act by Section 57 of the Environment Act 1995, provides the main regulatory regime for the identification and remediation of contaminated land. The determination of contaminated sites is based on a "suitable for use" approach which involves managing the risks posed by contaminated land by making risk-based decisions. This risk assessment is carried out on the basis of a source-pathway-receptor approach.

4.1.1 Source

The desk study research has indicated that the majority of the site does not have a contaminative history, but the former presence of a railway yard in the southeastern corner between 1891 and some time prior to 1974 is a potential source of contamination. The relevant DOE Industry Profile² suggests contamination relating to oil and fuel, coolants, solvents as well as asbestos might be present with this area. Elsewhere on site, the presence of asbestos is likely, as a number of properties on the site were constructed during the period when the use of asbestos was at its peak in the 1930s and early 1960s. Areas of infilled land located within close proximity of the site could be a source of ground gas. It is not known specifically when these elements of land were infilled, but it is noted that this could be over 100 years ago. It follows that it is highly unlikely that ground gas is currently being generated.

4.1.2 Receptor

The proposed development includes a residential end use and therefore residents will be relatively high sensitivity receptors. As the site is directly underlain by a Secondary 'A' Aquifer, groundwater and adjacent sites are considered to be a moderately sensitive receptors. Buried services are likely to come into contact with any contaminants in the soils through which they pass and site workers are potential receptors during construction or maintenance works.



4.1.3 Pathway

As the southeastern of the site formed part of a larger railway yard for nearly 70 years within the 19th and 20th Century, it is likely the sensitive aquifers beneath the site have been exposed to potential contamination already. The proposed development is expected to result in ground coverage remaining relatively unchanged, so there is unlikely to be any significant increase in the volume of water entering the ground. New surface water drainage systems will mean that the risk to surface waters can be controlled. Buried services may be exposed to any contaminants present within the soil through direct contact and site workers will come into contact with the soils during construction works.

Within the site, end users will be isolated from direct contact with any contaminants present within the made ground by the presence of the buildings and the extent of the hardstanding, however any soft landscaping will present a potential exposure pathway. Furthermore, as there is not considered a significant source, there is not considered to be a significant potential for hazardous soil gas to be present on or migrating towards the site.

4.1.4 Preliminary Risk Appraisal

In accordance with the guidelines provided by CIRIA³, Table 3 opposite comprises the conceptual site model and summarises possible pollution linkages for the site.

This method of risk evaluation involves classification of the magnitude of the potential consequence (severity) and probability (likelihood) of the risk. The method by which these factors are classified is detailed in the Section 6 of the Appendix. On the basis of the consequence and probability the site can be attributed a level of risk, ranging from very low to very high and the procedure for making this assessment is shown in the Appendix, together with a description of each level of assessed risk and the actions that may be required to mitigate the risk.

Table 3: Conceptual Site Model

Source	Receptor	Pathway	Probability	Consequence
Inorganic and organic contamination within near surface soils resulting from existing and past activities on site including the sources described in Section 2.8.1	End users	Ingestion of contaminated soil or dust, through skin contact or inhalation	Low likelihood	Mild
	Vegetation	Uptake via soil through roots	Low likelihood	Mild
	Groundwater	Percolation and leaching of surface run-off	Unlikely	Mild
	Buried services / foundation concrete	Direct contact	Low likelihood	Mild
	Adjacent sites	Surface water flow or drain runs	Unlikely	Mild
	Site workers	Ingestion of contaminated soil or dust, skin contact, inhalation	Low likelihood	Mild
Inorganic and organic contamination within perched water resulting from existing and past activities on site including the sources described in Section 2.8.1	End users	Direct contact	Unlikely	Mild
	Vegetation	Uptake through roots	Low likelihood	Mild
	Groundwater	Percolation and leaching of surface run-off	Unlikely	Mild
	Buried services / foundation concrete	Direct contact	Low likelihood	Mild
	Adjacent sites	Surface water flow or drain runs	Low likelihood	Mild
	Site workers	Ingestion of contaminated soil or dust, skin contact, inhalation	Low likelihood	Mild
Asbestos	End users	Inhalation	Unlikely	Medium
	Site workers	Inhalation	Low likelihood	Medium

³ Rudland, DJ, Lancefield, RM and Mayell, PN (2001) *Contaminated land risk assessment. A guide to good practice. CIRIA C552*



On the basis of the above it is considered that there is a MODERATE to LOW risk of there being a significant contaminant linkage at this site that would result in a requirement for major remediation work. Furthermore, although areas of historic infilled ground are present on site, as there is no evidence of recently filled ground and no landfill sites, there is not considered to be a significant potential for hazardous soil gas to be present on or migrating towards the site.

As there is not considered to be a potential for hazardous ground gases to be present on or migrating towards the site, there should be no need to consider ground gas exclusion systems, or ground gas monitoring at this site, as outlined in Table 1 of RB17⁴.

4.2 Foundation Assessment

The proposed development of the site relates to the demolition of the existing buildings and construction of a number of two-storey to seven-storey mixed use buildings and a Travel Hub.

In view of the anticipated light to moderate loads and if the natural soil is encountered at a relatively shallow depth, then shallow spread foundations may be suitable. Historically however, terraced housing is likely to have contained cellars and during demolition, it was common for buildings to have been demolished into the cellars meaning a significant thickness of loose occasionally dense made ground. If this is the case, vibro-compaction or a recourse to piled foundations may be required. Piled foundations may in any case be required to support the loads from the seven-storey buildings.

A ground investigation should be carried out in order to determine the ground conditions and presence of groundwater beneath the site. This will enable the bearing capacity and engineering properties of the soil to be determined and will also provide an opportunity to recover samples for contamination testing. Contamination testing will need to be carried out to determine the presence and extent of any contamination within the soils beneath the site and to subsequently recommend remedial action for the protection of site workers and end users, where necessary.

5.0 Conclusions

On the basis of the findings of the research carried out there is considered to be a MODERATE to LOW risk of there being significant contamination linkage at this site.

A ground investigation should be carried out to allow the risks associated with any potentially contaminated soils that may be present due to past activities on the site to be determined. Measures to deal with any contamination can then be proposed. The ground investigation will also be required to confirm the ground conditions to inform the design of suitable foundations. It is recommended that deeper investigation is completed to confirm the ground conditions and to provide pile design parameters.

4 Card, G, Wilson S, Mortimer S (2012), *A Pragmatic Approach to Ground Gas Risk Assessment*. CL:AIRE Research Bulletin RB17. CL:AIRE, London, UK. ISSN 2047-6450 (online)



Appendix

1. Envirocheck Extracts
2. Historical Maps
3. UXO Detailed Risk Assessment
4. Consultants Coal Mining Report
5. Coal Authority Subsidence Claims Report
6. Risk Assessment Tables

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

319215542_1_1

Customer Reference:

J23254

National Grid Reference:

381270, 404150

Slice:

A

Site Area (Ha):

2.48

Search Buffer (m):

1000

Site Details:

Longfield Shopping Centre

Prestwich

MANCHESTER

M25 1AY

Client Details:

Mr M Cooper

GEA Ltd

Unit 1

Church Farm

Gotham Road

Kingston on Soar

NG11 0DE



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	18
Hazardous Substances	-
Geological	21
Industrial Land Use	32
Sensitive Land Use	47
Data Currency	48
Data Suppliers	55
Useful Contacts	56

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client. In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			5	23
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 8	1		3	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9	Yes			
Pollution Incidents to Controlled Waters	pg 9				6
Prosecutions Relating to Authorised Processes	pg 10				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 10				2
Water Abstractions	pg 11				(*17)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 15	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 15	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16			3	7

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 18				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 18	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 18			2	7
Potentially Infilled Land (Water)	pg 18		3	8	34
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 21	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 21	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 30				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 30	Yes	n/a	n/a	n/a
Mining Instability	pg 30	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 30	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas	pg 31	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 32	3	24	24	55
Fuel Station Entries	pg 41		1	2	2
Points of Interest - Commercial Services	pg 41		5	7	15
Points of Interest - Education and Health	pg 43			1	2
Points of Interest - Manufacturing and Production	pg 44				2
Points of Interest - Public Infrastructure	pg 44		3	11	9
Points of Interest - Recreational and Environmental	pg 46			2	3
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 47			1	2
Areas of Adopted Green Belt	pg 47			1	1
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 47				2
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 47	1			1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (N)	0	1	381274 404150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (NE)	0	1	381274 404147
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	32	1	381150 404050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	166	1	381450 404400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	246	1	381100 403800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	346	1	381000 403750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	382	1	380950 403750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	398	1	381200 403600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	408	1	381150 403600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	417	1	380950 403700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	445	1	380950 404650
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Prestwich Clough Cso 09034 Rear Of Winnats Knoll, St Anns Road, Prestwich, Manchester, M25 9gd Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0040 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Clough Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A8NW (S)	472	2	381170 403530
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Prestwich Clough Cso 09034 Rear Of Winnats Knoll, St Anns Road, Prestwich, Manchester, M25 9gd Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016983247 Permit Version: 2 Effective Date: 18th June 2018 Issued Date: 18th June 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	476	2	381173 403526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Prestwich Clough Crude Sewage Overflow Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016983247-01 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm Water Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Storm Sewage Effluent; Outlet To Watercourse; Prestwich Clough Brook Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	480	2	381180 403520
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Prestwich Clough Cso 09034 Rear Of Winnats Knoll, St Anns Road, Prestwich, Manchester, M25 9gd Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016983247 Permit Version: 1 Effective Date: 31st December 1998 Issued Date: Not Supplied Revocation Date: 17th June 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (S)	480	2	381180 403520
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: The Crescent Cso 091ej The Crescent, ., Prestwich, Manchester, M25 1fl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0043 Permit Version: 3 Effective Date: 11th January 2017 Issued Date: 11th January 2017 Revocation Date: 17th June 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Clough Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	487	2	381737 403727
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: The Crescent Cso 091ej The Crescent, ., Prestwich, Manchester, M25 1fl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0043 Permit Version: 4 Effective Date: 18th June 2018 Issued Date: 18th June 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Via Sws Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	515	2	381739 403688

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: The Crescent Cso 091ej The Crescent, ., Prestwich, Manchester, M25 1fl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0043 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 10th January 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Clough Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	515	2	381740 403690
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: The Crescent Cso 091ej The Crescent, ., Prestwich, Manchester, M25 1fl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0043 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Ditch Environment: Receiving Water: Clough Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	515	2	381740 403690
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bury New Road Cso 9 Bury New Road, ., Prestwich, Manchester, M25 9jz Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982879 Permit Version: 3 Effective Date: 31st October 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NE (S)	540	2	381450 403490
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bury New Road Cso 9 Bury New Road, ., Prestwich, Manchester, M25 9jz Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982879 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 10th May 1995 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NE (S)	540	2	381450 403490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bury New Road Cso 9 Bury New Road, ., Prestwich, Manchester, M25 9jz Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982879 Permit Version: 2 Effective Date: 11th May 1995 Issued Date: Not Supplied Revocation Date: 30th October 1995 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NE (S)	540	2	381450 403490
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood Road Cso 091yz 111 Heywood Road, ., Prestwich, Manchester, M25 1lp Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993905 Permit Version: 2 Effective Date: 4th June 2018 Issued Date: 4th June 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Culvert Of Prestwich Clough Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14SW (E)	546	2	381910 403931
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hampden Road Cso 091xv Bry0041 19 Hampden Road, ., Prestwich, Manchester, M25 1lq Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993787 Permit Version: 2 Effective Date: 4th June 2018 Issued Date: 4th June 2018 Revocation Date: 3rd August 2022 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Via Clvrt Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14SW (E)	546	2	381910 403930
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood Road Cso 091yz 111 Heywood Road, ., Prestwich, Manchester, M25 1lp Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993905 Permit Version: 1 Effective Date: 14th August 2006 Issued Date: 14th August 2006 Revocation Date: 3rd June 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Culvert Of Prestwich Clough Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	546	2	381910 403931

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hampden Road Cso 091xv Bry0041 19 Hampden Road, ., Prestwich, Manchester, M25 1lq Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993787 Permit Version: 1 Effective Date: 12th April 2006 Issued Date: 12th April 2006 Revocation Date: 3rd June 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Cul.Section Prestwich Clough Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	546	2	381910 403930
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Heywood Road Cso 091yz 111 Heywood Road, ., Prestwich, Manchester, M25 1lp Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 01BRY0042 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 13th August 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Clough Via Culvert Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A14SW (E)	546	2	381910 403930
4	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Hampden Road , PRESTWICH Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: BRY0041 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SW (E)	546	2	381910 403930
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hampden Road Cso 091xv Bry0041 19 Hampden Road, ., Prestwich, Manchester, M25 1lq Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 01BRY0041 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 11th April 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Clough Via Culvert Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A14SW (E)	552	2	381915 403925

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hampden Road Cso 091xv Bry0041 19 Hampden Road, ., Prestwich, Manchester, M25 1lq Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993787 Permit Version: 3 Effective Date: 4th August 2022 Issued Date: 4th August 2022 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Via Clvrt Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14SW (E)	573	2	381937 403928
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clifton Rd Leach St Cso 091kq Clifton Road, ., Prestwich, Manchester, M25 3jg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0039 Permit Version: 4 Effective Date: 9th June 2018 Issued Date: 9th June 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Prestwich Clough Via Sws Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	629	2	380584 403990
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clifton Rd Leach St Cso 091kq Clifton Road, ., Prestwich, Manchester, M25 3jg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0039 Permit Version: 3 Effective Date: 5th February 2016 Issued Date: 5th February 2016 Revocation Date: 8th June 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Prestwich Clough Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	629	2	380584 403990
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clifton Rd Leach St Cso 091kq Clifton Road, ., Prestwich, Manchester, M25 3jg Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0039 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 4th February 2016 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stream Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	654	2	380560 403980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clifton Rd Leach St Cso 091kq Clifton Road, ., Prestwich, Manchester, M25 3jg Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0039 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stream Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A12SW (W)	654	2	380560 403980
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Farm Hill Cso 091ko Clifton Road, ., Prestwich, Manchester, M25 3jx Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0038 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 4th February 2016 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stream Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	684	2	380530 403980
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Farm Hill Cso 091ko Clifton Road, ., Prestwich, Manchester, M25 3jx Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0038 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stream Via Culvert Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A12SW (W)	684	2	380530 403980
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Maple Avenue Cso 36-40 Maple Avenue, ., Whitefield, Manchester, M45 7fp Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01BRY0086 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 31st March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Bradley Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	768	2	380720 404880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Maple Avenue Cso 36-40 Maple Avenue, ., Whitefield, Manchester, M45 7fp Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0086 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	768	2	380720 404880
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Maple Avenue Cso 36-40 Maple Avenue, ., Whitefield, Manchester, M45 7fp Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01bry0086 Permit Version: 3 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Bradley Brook Suf Wtr Sew Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	801	2	380660 404870
9	Prosecutions Relating to Controlled Waters Location: Prestwich Clough, Bury Prosecution Text: Failing to stop a leaking pipe from discharging sewage into a watercourse Prosecution Act: Wra91 85(1) Hearing Date: 27th September 2006 Verdict: Guilty Fine: 11000 Cost: 1998 Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	720	2	380708 403513
10	Local Authority Pollution Prevention and Controls Name: Johnsons Cleaners Uk Ltd Location: 12 Longfield Centre, Prestwich, M25 1ay Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC0609 Dated: 1st December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A13SW (S)	0	3	381275 404031
11	Local Authority Pollution Prevention and Controls Name: Paddock Service Station Bp Connect Location: Bury New Road, Prestwich, MANCHESTER, M25 1AR Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC05-01 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8NE (S)	255	3	381372 403765
12	Local Authority Pollution Prevention and Controls Name: Tesco Petrol Station Location: Bury New Road, Prestwich, BURY, Lancashire, M25 8BL Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC05-16 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A12NE (NW)	318	3	380914 404399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Local Authority Pollution Prevention and Controls Name: F D Kitchens Ltd Location: Clough Saw Mills, Gardner Road, Prestwich, MANCHESTER, Lancasher, M25 3HU Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Lappc03-01 Dated: 1st August 1992 Process Type: Local Authority Pollution Prevention and Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation certificate surrendered by operator Positional Accuracy: Automatically positioned to the address	A12SE (SW)	407	3	380833 403899
14	Local Authority Pollution Prevention and Controls Name: Bridge GarageA Patel Location: 93 Heywood Road, Prestwich, BURY, Lancashire, M25 5FN Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: Ps21 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A9NW (SE)	567	3	381884 403803
15	Local Authority Pollution Prevention and Controls Name: Kirkhams Garage Location: 71-73 Bury Old Road, Prestwich, BURY, Lancashire, M45 6TB Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC05-10 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address	A18NW (N)	573	3	381214 404884
16	Local Authority Pollution Prevention and Controls Name: Polefield Valet Service Location: 448 Bury Road, Prestwich, M25 1pq Authority: Bury Metropolitan Borough Council, Environmental Health Department Permit Reference: LAPPC06-06 Dated: 1st January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	688	3	381925 404531
	Nearest Surface Water Feature	A13SW (SW)	0	-	381244 404093
17	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Prestwich Clough Incident Date: 22nd July 1993 Incident Reference: 93611494 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	557	2	381000 403500
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found Incident Date: 29th January 1996 Incident Reference: 96610170 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	599	2	380700 404600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Stream In, PRESTWICH Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Colour Note: Green In Colour; No Known Tributary Of Irk; Drain Tracing Dye, (Flouourosen) Incident Date: 3rd October 1997 Incident Reference: 97611740 Catchment Area: Irk Receiving Water: Freshwater Stream/River Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	735	2	380700 403500
20	Pollution Incidents to Controlled Waters Property Type: Construction: Demolition Location: Site Of The Old Prestwich Mental Health , Bury New Rd, PRESTWICH, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Inert : Rocks & Soils Note: Not Supplied Incident Date: 4th February 1999 Incident Reference: 695 Catchment Area: Middle Book (River Croal) Receiving Water: River Stretch (Freshwater) Cause of Incident: Deliberate Action Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	736	2	380800 404900
21	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Chemicals - Detergents/Surfactant Note: Bradley Brook and River Irwell; Detergent Incident Date: 20th January 1996 Incident Reference: 96610127 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	743	2	380500 404500
22	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Prestwich Clough Incident Date: 25th March 1994 Incident Reference: 94610545 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Inadequate Construction Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	891	2	380500 403500
23	Prosecutions Relating to Authorised Processes Location: Drinkwater Park, Clifton Road, Prestwich, MANCHESTER, Greater Manchester, M28 Prosecution Text: EA News Release 08/11/1996, Tipping household waste on an unlicensed site. Prosecution Act: EPA90 Hearing Date: 7th November 1996 Verdict: Guilty Fine: 50 Costs: 250 Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	644	2	380568 403995
24	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 16th April 2009 Incident Reference: 671041 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals/Products: Other Organic Chemical Or Product	A8NW (S)	516	2	381038 403526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 6th November 2005 Incident Reference: 358482 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A7SW (SW)	876	2	380572 403432
	Water Abstractions Operator: Whitefield Golf Club Ltd Licence Number: 2569004052 Permit Version: 101 Location: Borehole At Whitefield Golf Club, Higher Lane, Whitefield Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Whitefield Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 9th November 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SW (NW)	1348	2	380420 405380
	Water Abstractions Operator: Whitefield Golf Club Licence Number: 2569004052 Permit Version: 100 Location: Borehole At Whitefield Golf Club, Higher Lane, Whitefield Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 100 Yearly Rate (m3): 8000 Details: Land At Whitefield Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 19th April 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SW (NW)	1348	2	380420 405380
	Water Abstractions Operator: Onsite Central Limited Licence Number: Nw/069/0004/002 Permit Version: 1 Location: Point A Whitefield Brook At Whitefield, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 27 November Permit Start Date: 1st November 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1565	2	382063 405654
	Water Abstractions Operator: Onsite Central Limited Licence Number: Nw/069/0004/002 Permit Version: 1 Location: Point B On Whitefield Brooke Whitefield, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 27 November Permit Start Date: 1st November 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NW (N)	1604	2	381829 405811

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Prestwich Golf Company Ltd Licence Number: 2569004050 Permit Version: 101 Location: Borehole At Prestwich Golf Club, Hilton Lane, Prestwich Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Prestwich Golf Club Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 3rd October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	381580 402180
	Water Abstractions Operator: Prestwich Golf Club Licence Number: 2569004050 Permit Version: 100 Location: Borehole At Prestwich Golf Club, Hilton Lane, Prestwich Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 100 Yearly Rate (m3): 12000 Details: Land At Prestwich Golf Club Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 25th March 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1843	2	381580 402180
	Water Abstractions Operator: Onsite Central Limited Licence Number: Nw/069/0004/002 Permit Version: 1 Location: Point C On Whitfield Brook Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 27 November Permit Start Date: 1st November 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1845	2	381610 406123
	Water Abstractions Operator: Cussons (Uk) Ltd Licence Number: 25 Permit Version: Not Supplied Location: Drinkwater Park Isolation Hospital, PRESWITCH Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Reservoir/Pond Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Status: Revoked; Lapsed or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1910	2	380600 402200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cussons (UK) Ltd Licence Number: 2569004001 Permit Version: Not Supplied Location: Reservoir, Drinkwater Park Isolation Hospital, PRESTWICH Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: River Daily Rate (m3): 373 Yearly Rate (m3): 109104 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1915	2	380600 402195
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 103 Location: Borehole 4 At Clifton Junction, Swinton, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th May 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1953	2	379532 403044
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 103 Location: Borehole 4 At Clifton Junction, Swinton, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th May 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1953	2	379532 403044
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 102 Location: Borehole 4 At Clifton Junction, Swinton, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th May 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1953	2	379532 403044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 102 Location: Borehole 4 At Clifton Junction, Swinton, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th May 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(SW)	1953	2	379532 403044
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 103 Location: Bh 1 Clifton Junction, Swinton, Manchester. Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th May 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1982	2	379684 402769
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 103 Location: Bh 1 Clifton Junction, Swinton, Manchester. Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th May 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1982	2	379684 402769
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 102 Location: Bh 1 Clifton Junction, Swinton, Manchester. Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th May 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1982	2	379684 402769

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Magnesium Elektron Ltd Licence Number: 2569004002 Permit Version: 102 Location: Bh 1 Clifton Junction, Swinton, Manchester. Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clifton Junction Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th May 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1SW (SW)	1982	2	379684 402769
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: High	A13SW (S)	0	4	381274 404000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Medium	A13SW (NE)	0	4	381274 404147
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	4	381274 404147
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	4	381274 404147
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 144.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	367	5	381257 403628
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 304.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	469	5	381217 403527
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 951.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	476	5	381174 403525
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 349.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bradley Brook Catchment Name: Mersey Primacy: 1	A17SW (NW)	660	5	380592 404516
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: Underground Permanent: True Watercourse Name: Bradley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	856	5	380356 404301
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bradley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	858	5	380355 404300
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 633.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bradley Brook Catchment Name: Mersey Primacy: 1	A12NW (W)	862	5	380349 404282
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	862	5	380351 404296
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 207.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	865	5	380347 404299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 292.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	946	5	380285 404475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	Historical Landfill Sites Licence Holder: Greater Manchester Waste Disposal Authority Location: Buckely Lane, Prestwich Name: Drinkwater Park Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16320 First Input Date: 31st December 1953 Last Input Date: 31st January 1984 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9643 BGS Ref: Not Supplied Other Ref: C032, RD/RES/022/81	A7SE (SW)	908	2	380697 403273
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	6	381274 404147
	Local Authority Landfill Coverage Name: Manchester City Council - Had landfill data but passed it to the relevant environment agency		960	7	382292 404401
37	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A18SW (N)	304	-	381177 404606
38	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A14SW (E)	428	-	381808 404040
39	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A8NE (SE)	555	-	381552 403520
40	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A9NW (SE)	569	-	381729 403607
41	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A8SW (S)	723	-	381244 403272
42	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A8SW (S)	784	-	381058 403235
43	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1983	A18NE (N)	833	-	381541 405095
44	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A3NE (S)	902	-	381509 403129
45	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1986	A17NW (NW)	944	-	380498 404907
46	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NE (E)	28	-	381368 404171
47	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13NW (N)	143	-	381187 404438
48	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NW (NW)	156	-	381041 404296

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13NE (E)	253	-	381617 404164
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A8NE (SE)	286	-	381450 403769
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SE (W)	297	-	380909 404074
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SE (W)	364	-	380841 404090
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A8NE (S)	370	-	381451 403676
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SW (SE)	389	-	381691 403827
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (W)	392	-	380824 404238
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	398	-	381456 404657
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A9NW (SE)	526	-	381731 403665
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A14SW (SE)	527	-	381882 403884
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18NW (N)	542	-	381105 404832
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14NW (E)	547	-	381889 404298
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A9NW (SE)	550	-	381720 403623
62	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A12NE (W)	554	-	380655 404161
63	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SE (SW)	577	-	380661 403881
64	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14SE (E)	623	-	382004 404086
65	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SW (W)	687	-	380534 403944
66	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1932	A14SE (E)	692	-	382073 404089
67	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A17NE (NW)	699	-	380940 404937
68	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A7SE (SW)	735	-	380841 403384
69	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14NE (E)	744	-	382069 404357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14NE (E)	760	-	382090 404364
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A19SE (NE)	770	-	381972 404611
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14NE (E)	778	-	382133 404267
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A17NE (NW)	800	-	380740 404935
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SW (W)	802	-	380427 403896
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A17SW (NW)	807	-	380570 404779
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18NE (N)	813	-	381457 405100
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18NE (N)	858	-	381427 405153
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A9SW (SE)	863	-	381885 403354
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1910	A19SE (NE)	867	-	382050 404670
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A23SW (N)	890	-	381189 405200
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A17NE (NW)	916	-	380622 404991
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A3NW (S)	920	-	381070 403094
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A23SW (N)	928	-	381034 405213
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	948	-	380282 404470
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A23SE (N)	955	-	381367 405261
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A2NE (S)	955	-	380896 403110
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A17NW (NW)	977	-	380492 404951
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A23SW (N)	979	-	381118 405281
89	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A17NW (NW)	986	-	380457 404923
90	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17NW (NW)	997	-	380395 404861

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NE (NE)	0	1	381327 404233
	BGS 1:625,000 Solid Geology Description: Pennine Upper Coal Measures Formation	A13SW (NE)	0	1	381274 404147
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (NE)	0	1	381274 404147
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13NE (NE)	0	1	381313 404209
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	112	1	381393 404365
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	119	1	381500 404093
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SE (E)	121	1	381500 404147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NE (NE)	185	1	381428 404430
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	205	1	381000 404147
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	220	1	381000 404000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NW (NW)	244	1	381000 404411
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13NE (NE)	253	1	381500 404391
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	361	1	381000 404583

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	395	1	381023 404639
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	396	1	381012 404633
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	399	1	381000 404628
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	415	1	380950 404611
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (NW)	418	1	381000 404650
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	431	1	380783 404000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	441	1	381000 403632
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	495	1	381274 403500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	497	1	380789 404550
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	557	1	381000 403500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	609	1	380868 403518
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	609	1	380895 403500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (NE)	661	1	381611 404870
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SW)	686	1	380618 403691
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	700	1	380574 403755
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	711	1	380500 404000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (NE)	719	1	381629 404935
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	719	1	381500 404989

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	719	1	381537 404974
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	728	1	381409 405024
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	737	1	381952 404581
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	737	1	380500 403863
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	738	1	380500 403860
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	739	1	381702 404903

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	740	1	382000 404500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (W)	740	1	380497 403864
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NW (SW)	758	1	380500 403787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	763	1	382000 404549
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 600 - 1200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	815	1	380500 403645
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	822	1	382000 404665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	829	1	382059 404580
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	830	1	382078 404544
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (W)	846	1	380363 404000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	866	1	380966 403178
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SW (NW)	871	1	380464 404736
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NW (NW)	874	1	380534 404842

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	891	1	380500 403500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19NW (NE)	892	1	381832 404994
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A23SW (N)	912	1	381041 405198
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	917	1	380300 404382
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NW (NW)	935	1	380479 404871
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NW (NW)	974	1	380444 404888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A23SE (N)	979	1	381328 405289
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A23SW (N)	997	1	381189 405307
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil and Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A3NE (S)	999	1	381347 403000
91	BGS Recorded Mineral Sites Site Name: Well Bank Sand Pit Location: Prestwich, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96906 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8SW (S)	778	1	381056 403242
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NE)	0	8	381274 404147
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	-	381274 404147
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	381350 404250
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	381274 404147
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	381350 404250

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	Contemporary Trade Directory Entries Name: Johnson Dry Cleaners Ltd Location: 12, Longfield Centre, Prestwich, Manchester, M25 1AY Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	0	-	381271 404026
93	Contemporary Trade Directory Entries Name: Photo Image Centre Location: 40, Longfield Centre, Prestwich, Manchester, M25 1AY Classification: Photographic Processors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	0	-	381339 404071
94	Contemporary Trade Directory Entries Name: Prestwich Paint & Paper Location: Prestwich, M25 1AY Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	0	-	381250 404078
95	Contemporary Trade Directory Entries Name: Sketchley Retail Ltd Location: 30, Longfield Centre, Prestwich, Manchester, M25 1AY Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	25	-	381254 404143
96	Contemporary Trade Directory Entries Name: Fads Location: 468, Bury New Road, Prestwich, Manchester, M25 1AX Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	28	-	381193 404117
96	Contemporary Trade Directory Entries Name: Prestwich Launderette Location: 491, Bury New Road, Prestwich, Manchester, M25 1AD Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	58	-	381148 404100
97	Contemporary Trade Directory Entries Name: Bronks Printer Location: 3, Warwick Street, Prestwich, Manchester, M25 3HN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	39	-	381186 404009
98	Contemporary Trade Directory Entries Name: Zeus Canapes Location: Old Coop Yard, Unit 1 Warwick St, Prestwich, Manchester, Lancashire, M25 3HB Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	127	-	381111 403962
98	Contemporary Trade Directory Entries Name: Pressboost Ltd Location: Old Coop Yard, Warwick Street, Prestwich, Manchester, M25 3HB Classification: Pumps - Sales, Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	159	-	381119 403895
98	Contemporary Trade Directory Entries Name: Knot Collective Manchester Ltd Location: Bank House Studios, Warwick Street, Prestwich, Manchester, M25 3HN Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	164	-	381086 403931
98	Contemporary Trade Directory Entries Name: Panoramic Presentations Ltd Location: Bank House Studios, Warwick Street, Prestwich, Manchester, M25 3HN Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	167	-	381088 403923

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Bury Metropolitan Borough Council - Environmental Health Department 3 Knowsley Place, Duke Street, Bury, Lancashire, BL9 0EJ	Telephone: 0161 253 5000 Fax: 0161 253 5563 Website: www.bury.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
7	Manchester City Council - Planning Department Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	Manchester City Council Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
12	Salford City Council Crompton House, 100 Chorley Road, Swinton, Manchester, Greater Manchester, M27 2AD	Telephone: 0161 794 4711 Fax: 0161 727 7162 Website: www.salford.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	HMGDD	Hummocky (Moundy) Glacial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFICD	Glaciofluvial Ice Contact Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GLLDD	Glaciolacustrine Deposits, Devensian	Clay and Silt	Not Supplied - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	RTD3	River Terrace Deposits, 3	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	MM	Manchester Marls Formation	Mudstone	Not Supplied - GUADALUPIAN
	CS	Collyhurst Sandstone Formation	Sandstone	Not Supplied - Cisuralian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WDR	Worsley Delf Rock	Sandstone	Not Supplied - Westphalian
	PUCM	Pennine Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	NHSS	Newton Heath Sandstone	Sandstone	Not Supplied - Westphalian
	NR	Nob End Rock	Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		



GEA

Geology 1:50,000 Maps

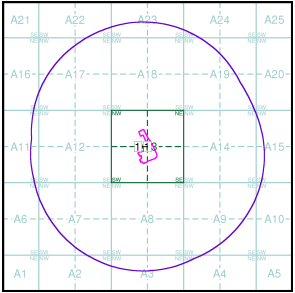
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	085
Map Name:	Manchester
Map Date:	2010
Bedrock Geology:	Available
Superficial Geology:	Not Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

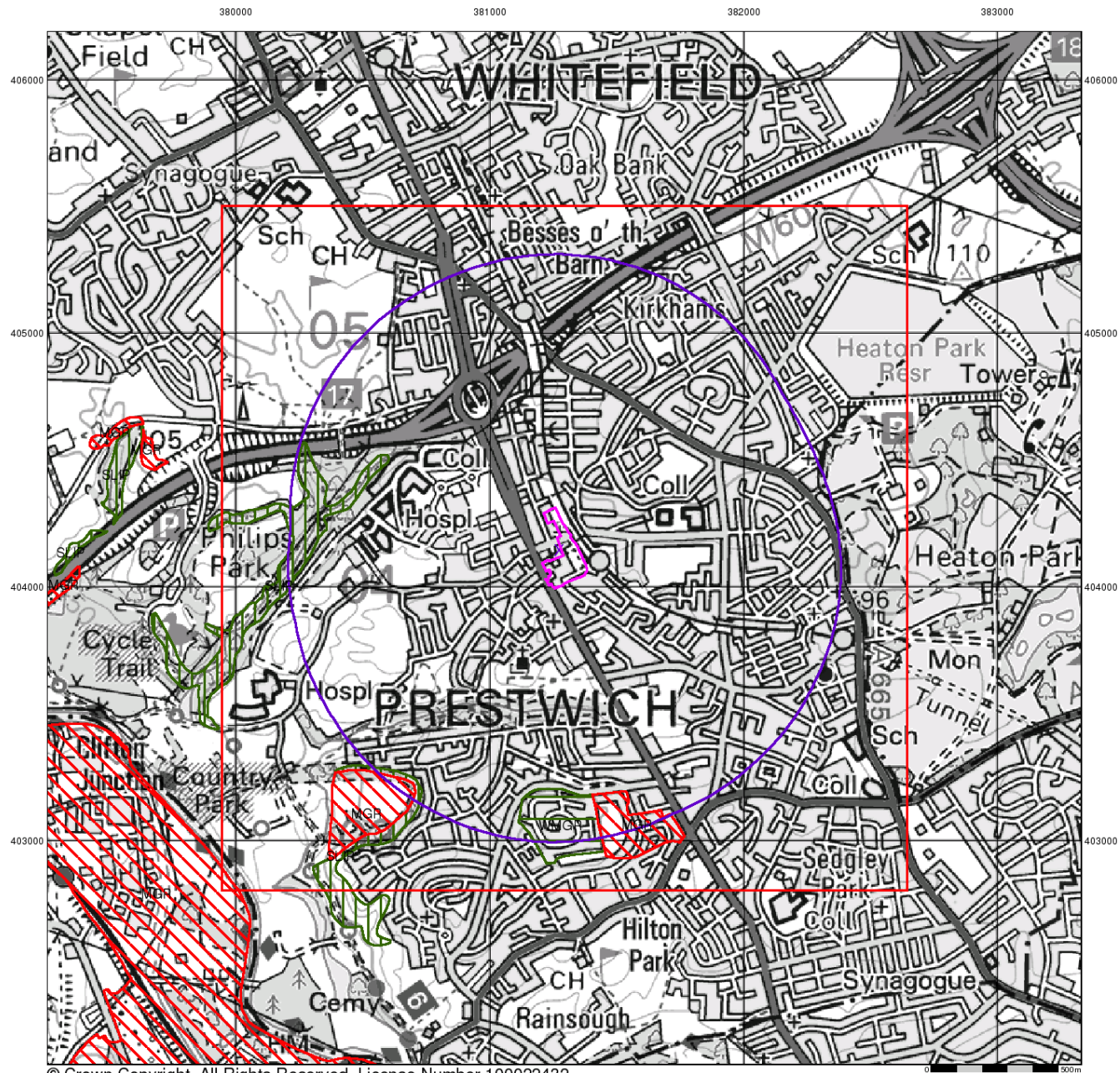
Order Number:	319215542_1_1
Customer Reference:	J23254
National Grid Reference:	381270, 404150
Slice:	A
Site Area (Ha):	2.48
Search Buffer (m):	1000

Site Details:

Longfield Shopping Centre, Prestwich, MANCHESTER, M25 1AY

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



Artificial Ground and Landslip

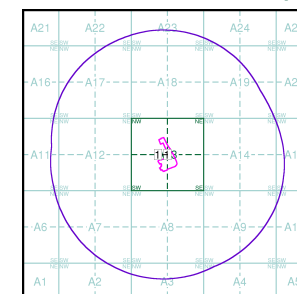
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

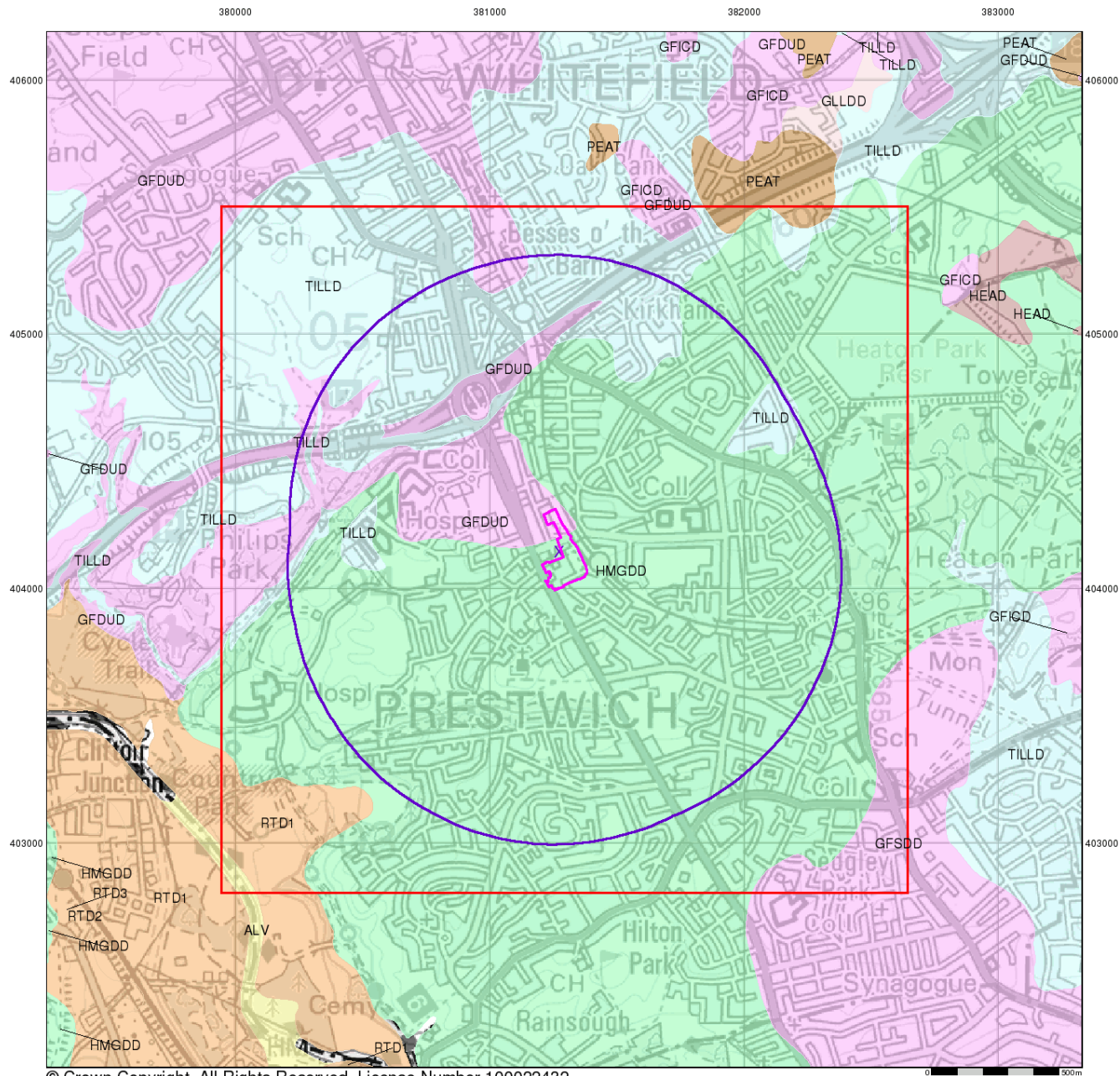
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Customer Reference:	J23254
National Grid Reference:	381270, 404150
Slice:	A
Site Area (Ha):	2.48
Search Buffer (m):	1000

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GEA

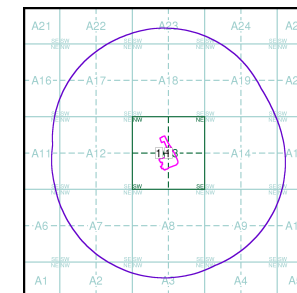
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

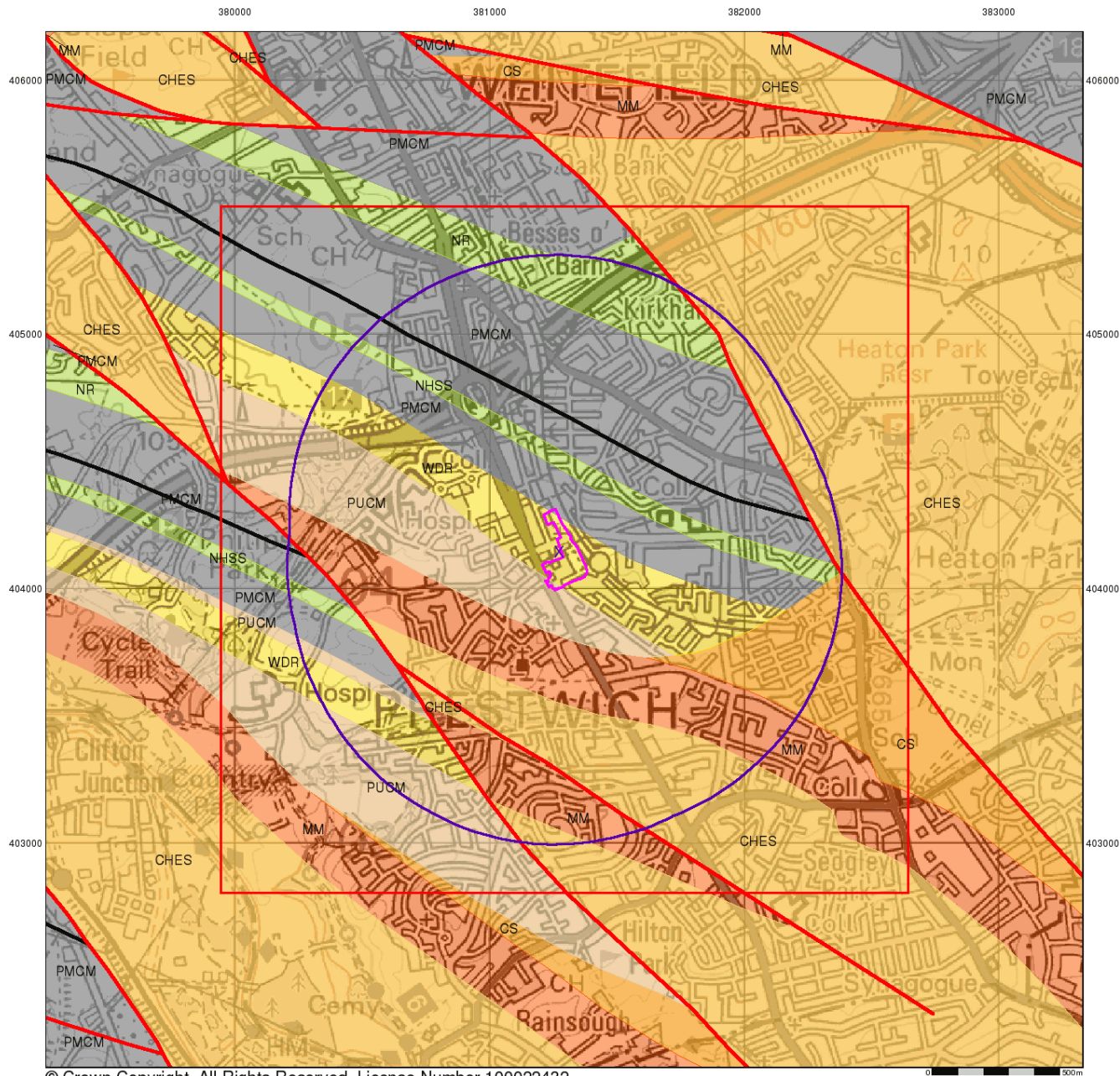
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 Customer Reference: J23254
 National Grid Reference: 381270, 404150
 Slice: A
 Site Area (Ha): 2.48
 Search Buffer (m): 1000

Site Details:

Longfield Shopping Centre, Prestwich, MANCHESTER, M25 1AY

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Bedrock and Faults

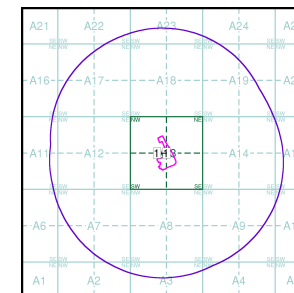
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

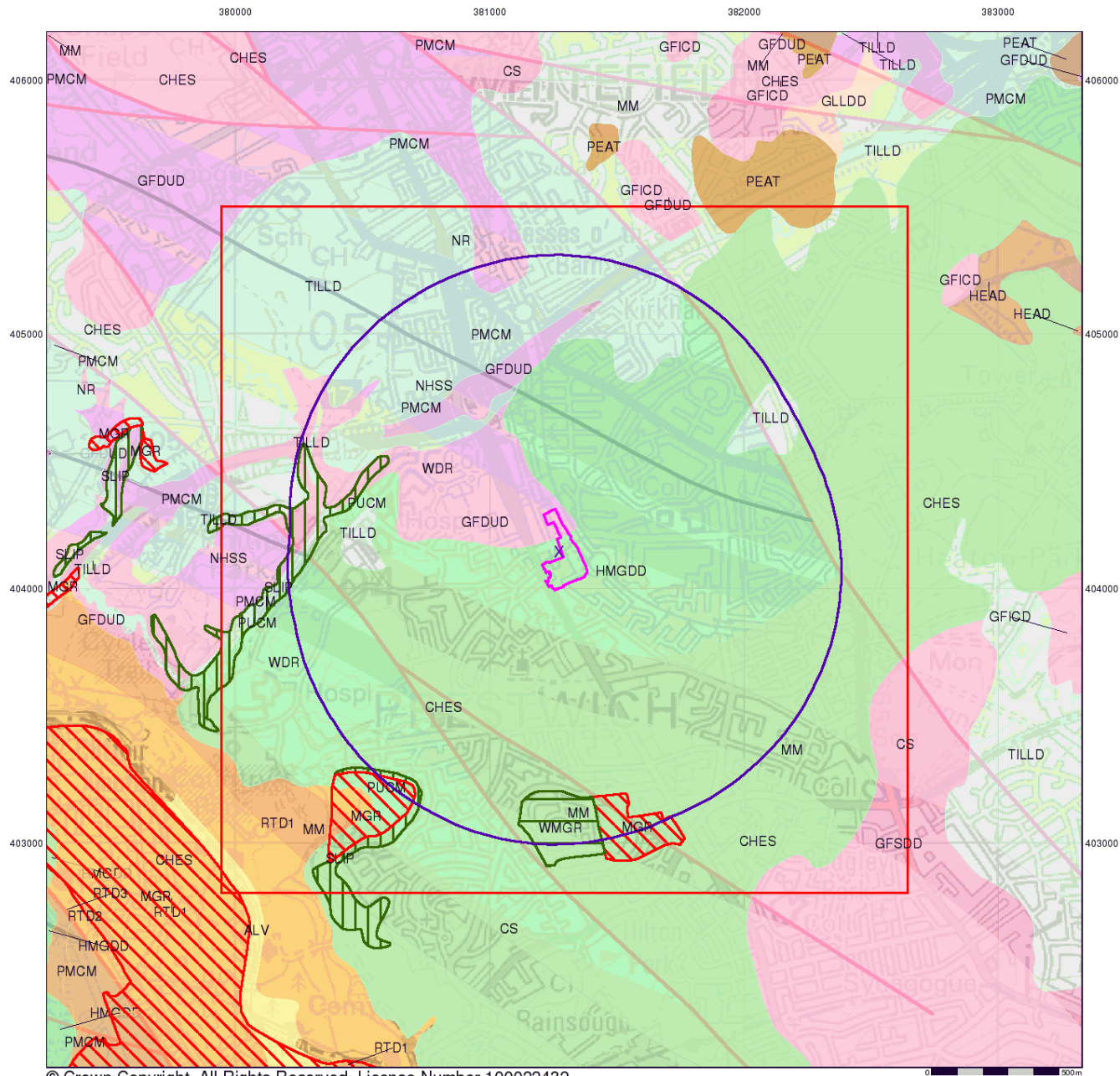
Order Number: 319215542_1_1
 Customer Reference: J23254
 National Grid Reference: 381270, 404150
 Slice: A
 Site Area (Ha): 2.48
 Search Buffer (m): 1000

Site Details:

Longfield Shopping Centre, Prestwich, MANCHESTER, M25 1AY



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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

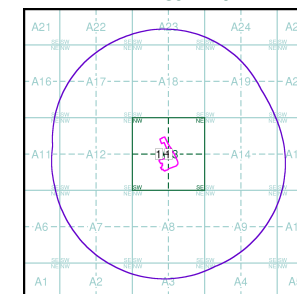
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

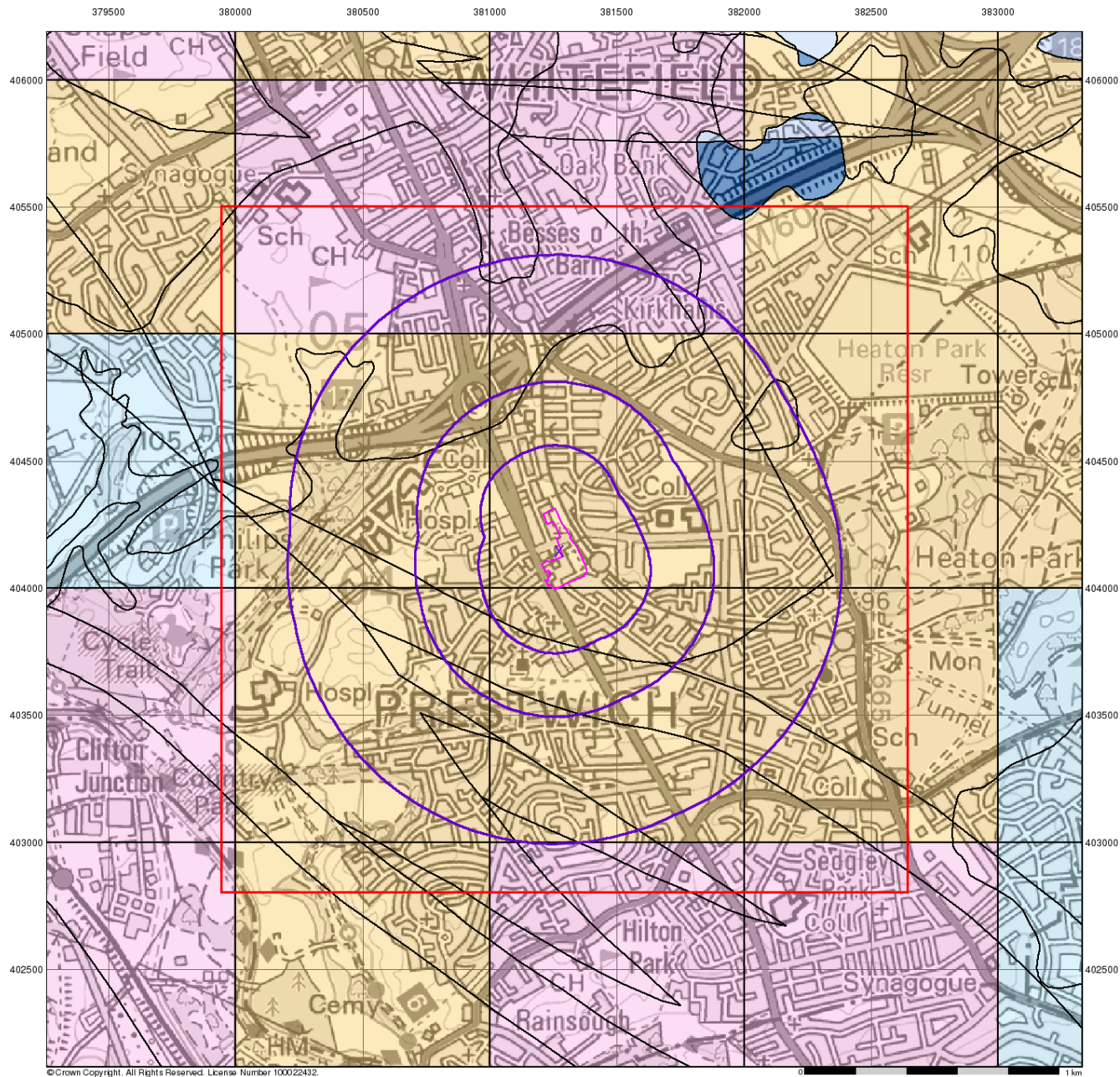
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Customer Reference: J23254
National Grid Reference: 381270, 404150
Slice: A
Site Area (Ha): 2.48
Search Buffer (m): 1000

Site Details:

Longfield Shopping Centre, Prestwich, MANCHESTER, M25 1AY



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Bedrock Aquifers

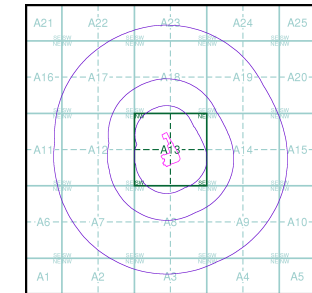
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A

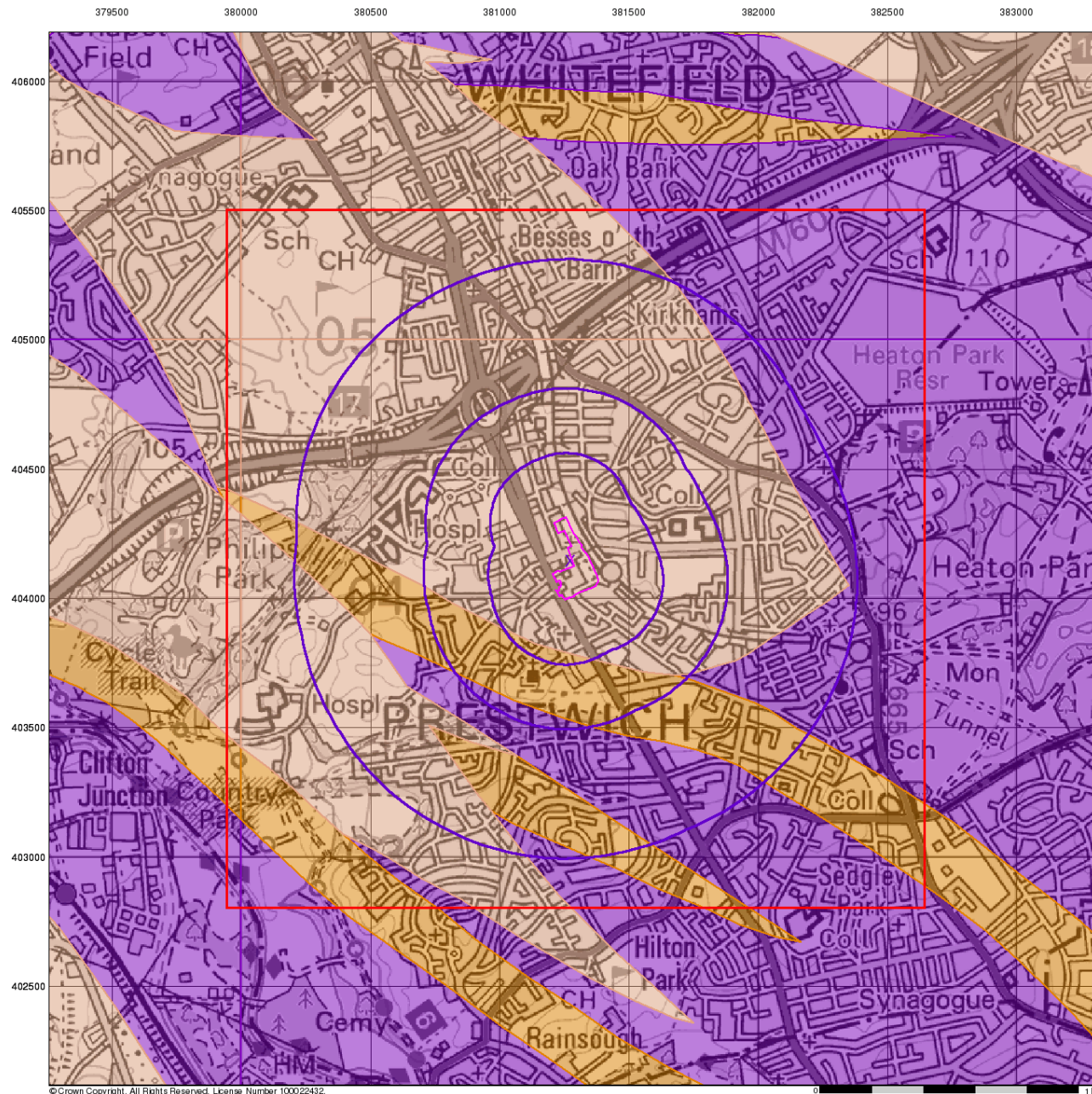


Order Details

Order Number: 319215542_1_1
 Customer Ref: J23254
 National Grid Reference: 381270, 404150
 Slice: A
 Site Area (Ha): 2.48
 Search Buffer (m): 1000

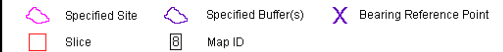
Site Details

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Bedrock Aquifer Designation

General

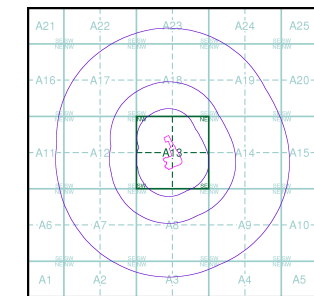


Agency and Hydrological

Geological Classes

-  Principal Aquifer
-  Secondary A Aquifer
-  Secondary B Aquifer
-  Secondary Undifferentiated
-  Unproductive Strata
-  Unknown
-  Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A

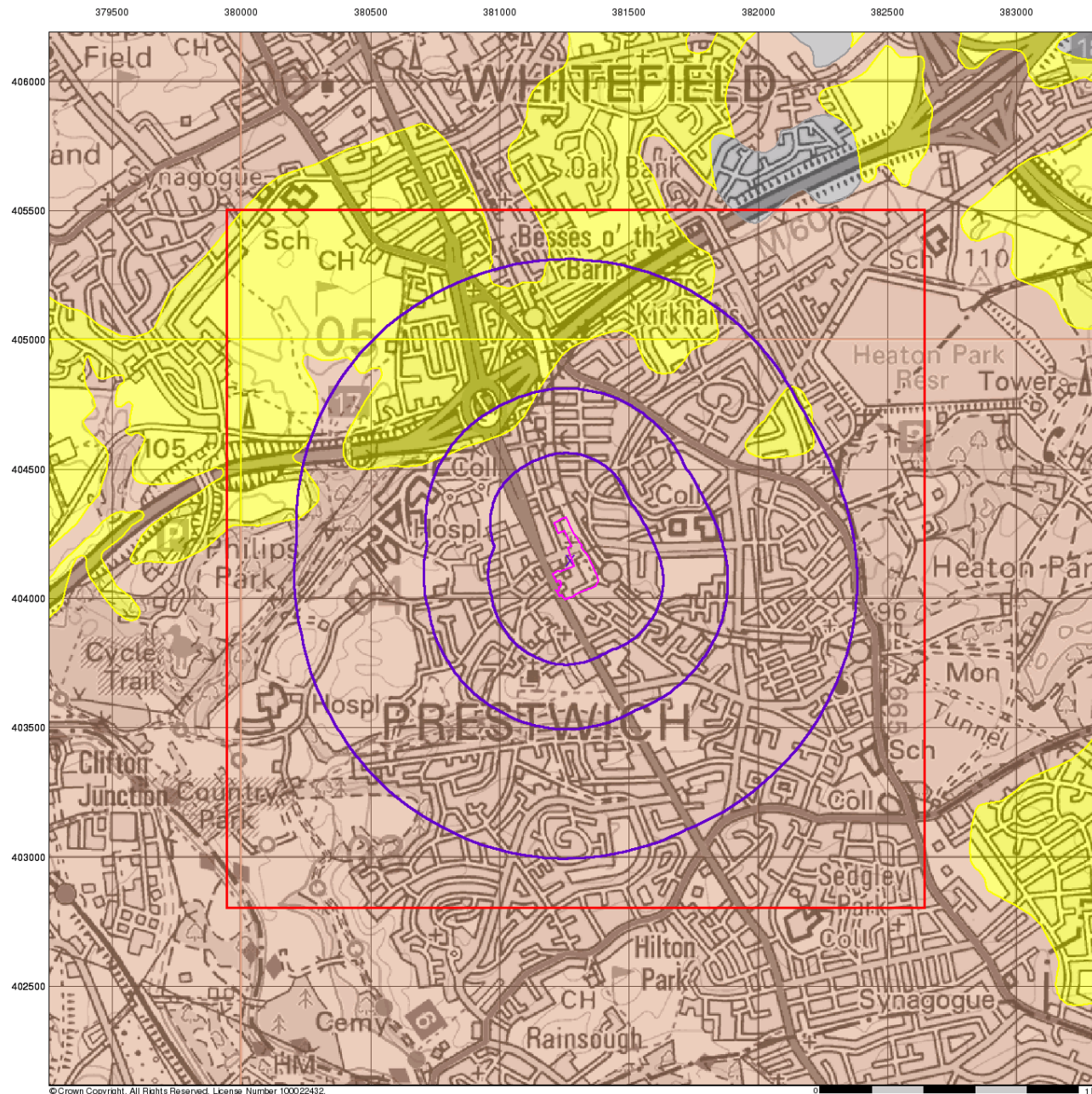


Order Details

Order Number:	319215542_1_1
Customer Ref:	J23254
National Grid Reference:	381270, 404150
Slice:	A
Site Area (Ha):	2.48
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

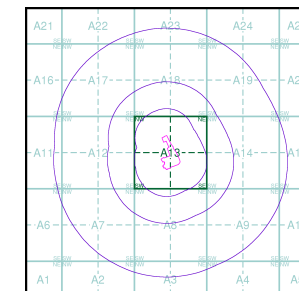
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

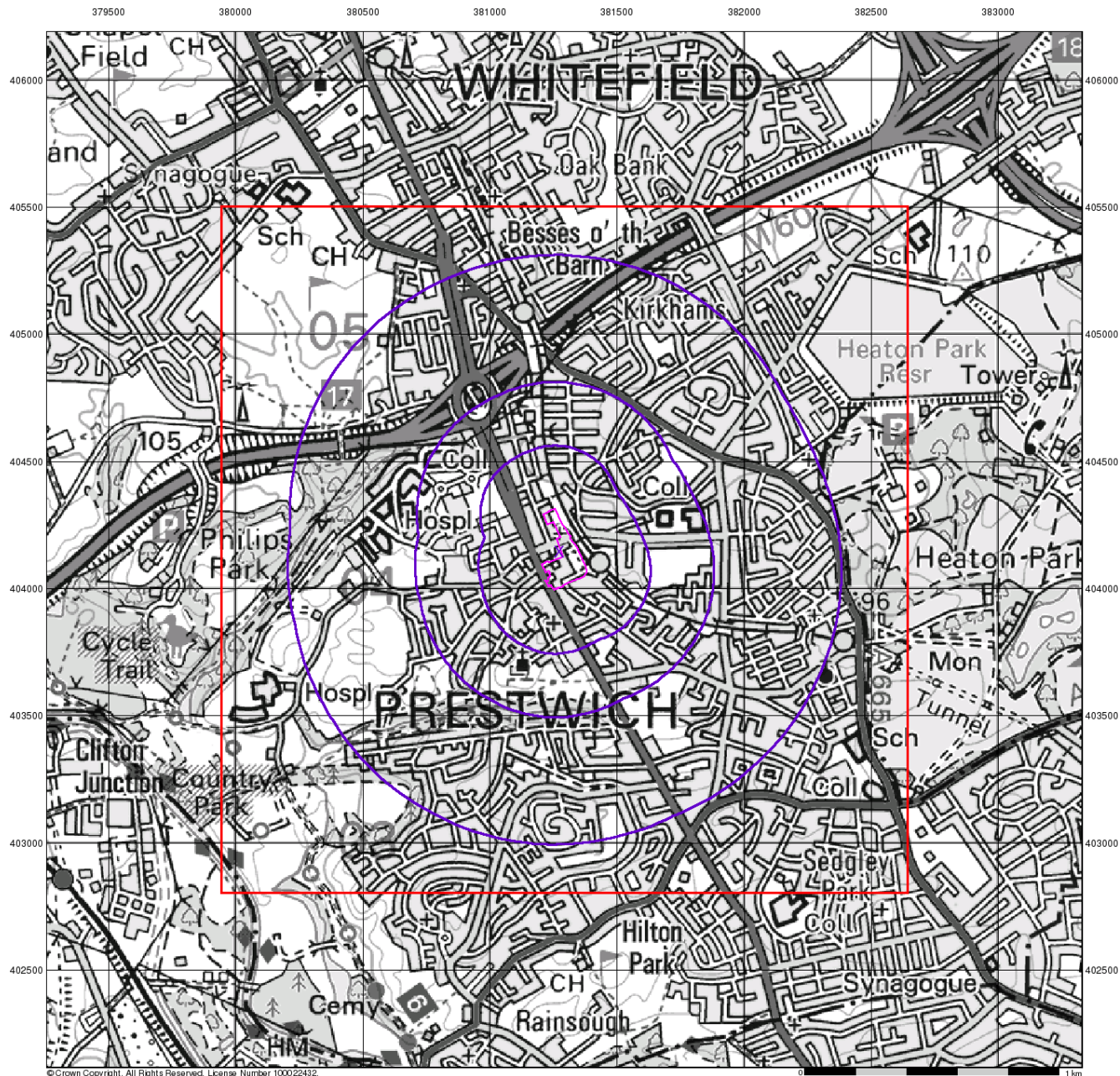
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 National Grid Reference: 381270, 404150
 Slice: A
 Site Area (Ha): 2.48
 Search Buffer (m): 1000

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Source Protection Zones

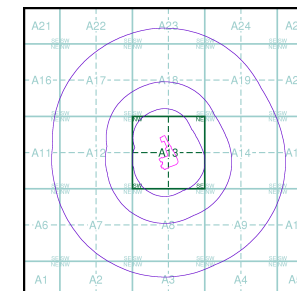
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A

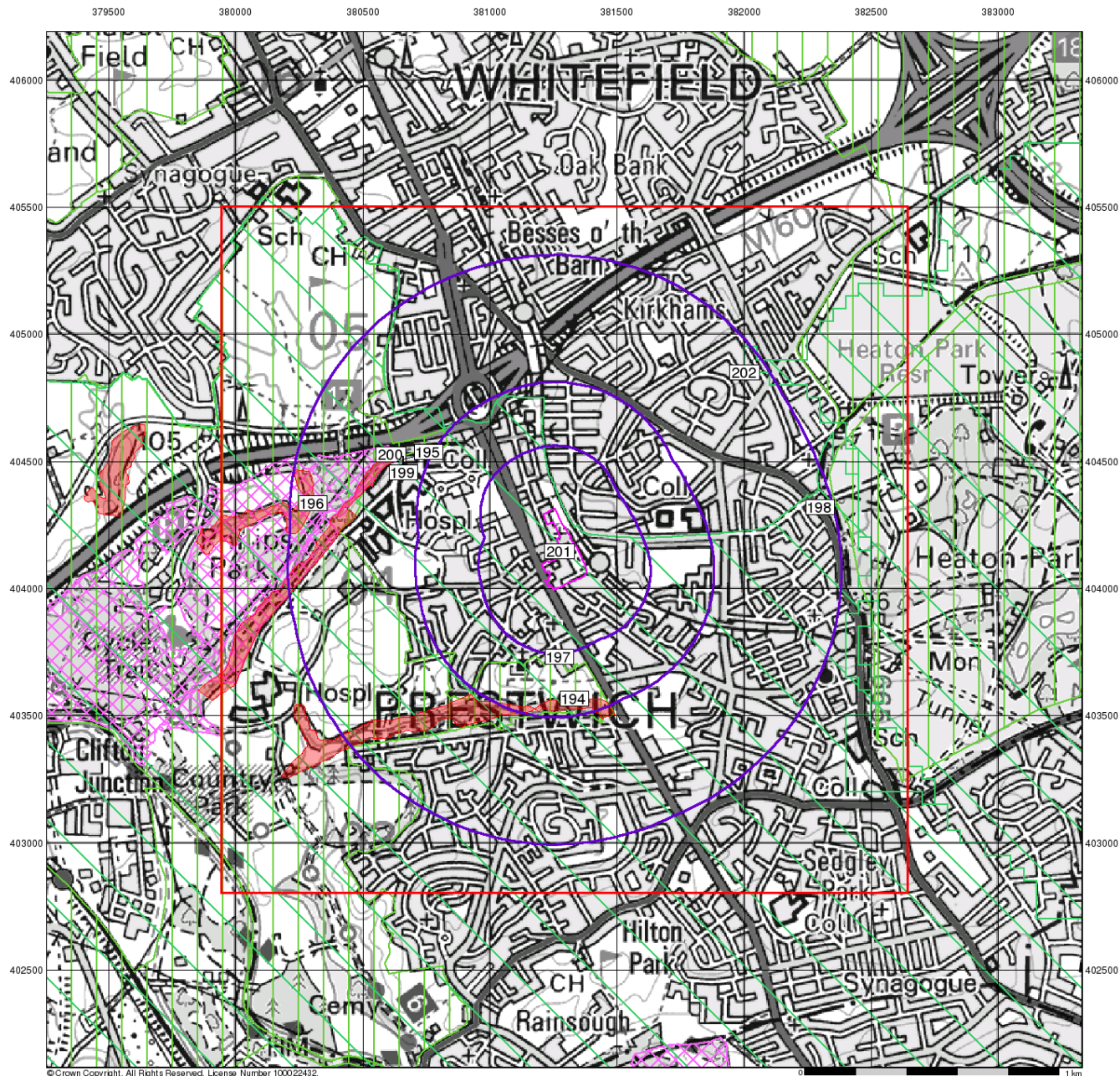


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Sensitive Land Uses

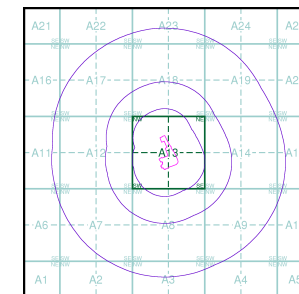
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Sensitive Land Uses

- Ancient Woodland
- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

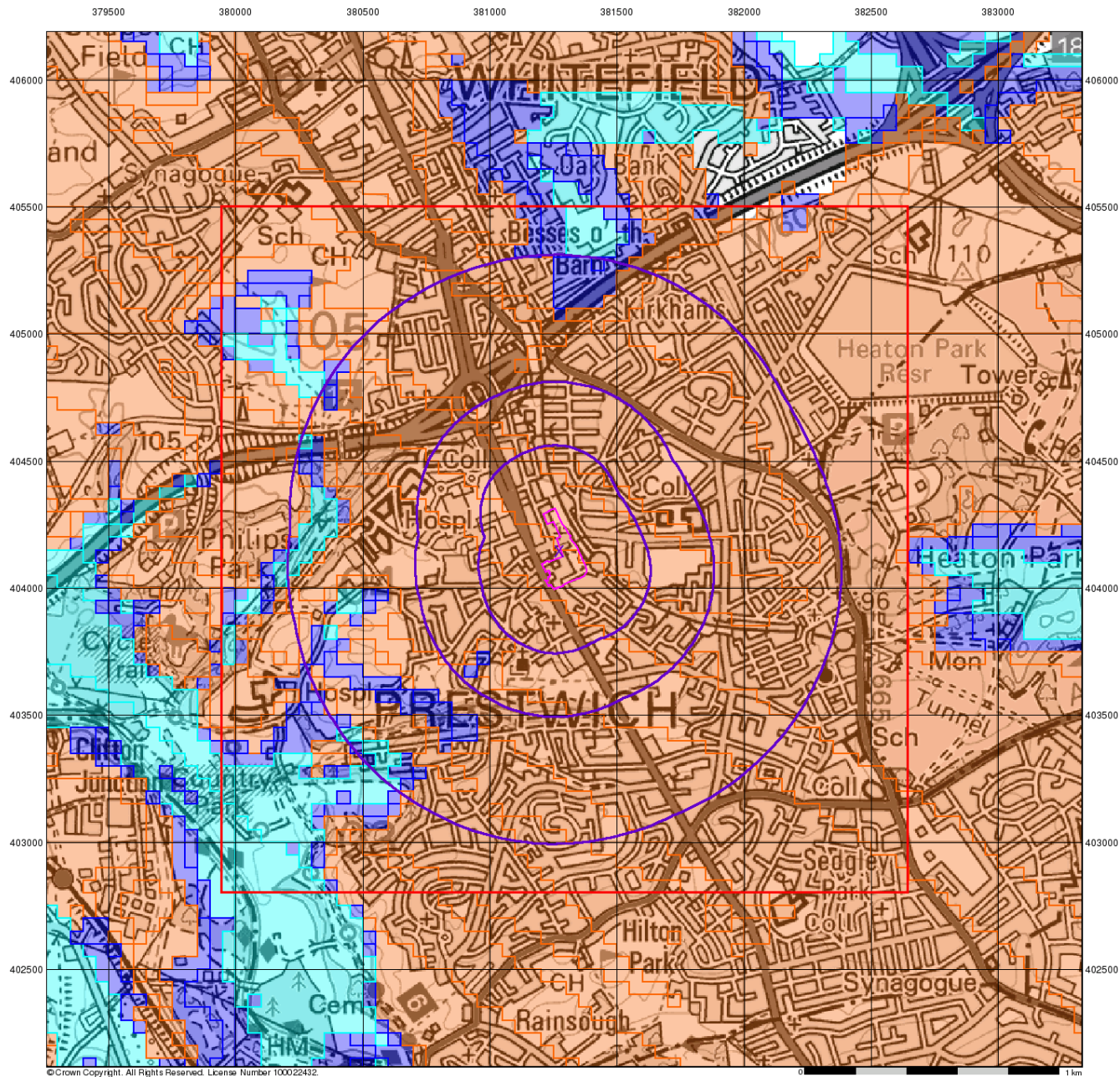
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0 1 km



BGS Flood GFS Data

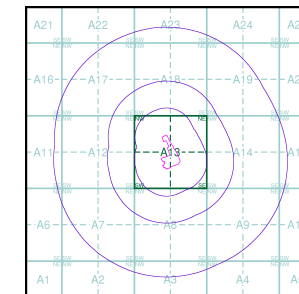
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

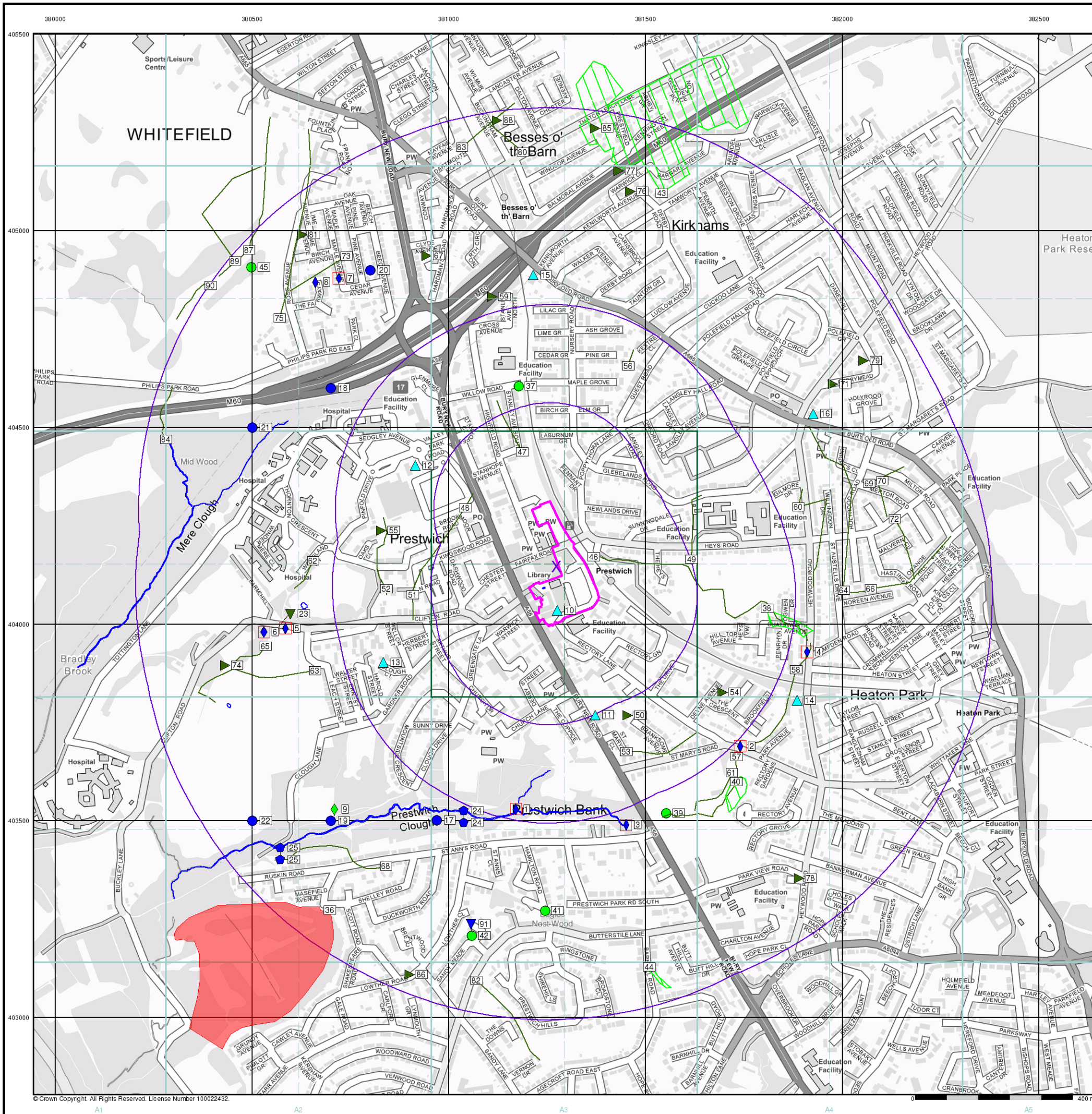
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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

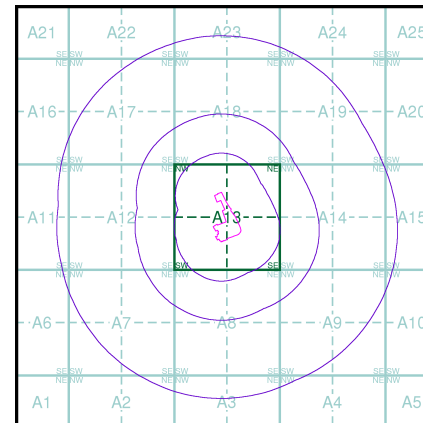
Geological

- BGS Recorded Mineral Site

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



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