CBE+ Ltd, Enterprise Drive, Holmewood, Chesterfield

Ground Conditions Report

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Executive Summary

Site Location	The Site is approximately 1.48 ha in area, and is situated at Holmewood Industrial Estate near Chesterfield and centres on NGR E: 442660, N: 366520.
Current Site Use	The Site currently comprises an existing industrial building with external concrete hardstanding and limited soft landscaping.
Proposed Site Use	It is understood that the Site will continue to be used as industrial premises but may require new environmental permits to support some of its activities.
Previous Site Uses	The Site is shown to have remained undeveloped until 1917 when the Williamthorpe Colliery is shown. The colliery was subsequently expanded and included such site features as spoil heaps and railways, but was subsequently cleared from the Site by 1993. The current layout of the Site appears to have existed since 1999.
Geological Setting	No superficial deposits are recorded at the Site and ground investigation indicates that much of the expected colliery Made Ground has been removed. The underlying solid geology is comprised of the Pennine Middle Coal Measures. The Lowbright (Abdy) Coal outcrops on the south west edge of the Site.
Environmental Considerations	No pollution incidents have been highlighted in close proximity to the Site. The Site is located over a Secondary A aquifer in the bedrock. . No historical landfill sites are recorded within 250 m of the Site. No radon protection measures are required for any new buildings. The Site does lie within 1 km of a COMAH site, located 151 m to the south west.
Contamination Assessment	The risk of future site workers being exposed to potentially contaminated soils is considered to be low. The risk from hazardous ground gases (incl. radon) is considered to be low. The risk of pollution to controlled waters is considered to be low. The risk posed by ground gases is considered to be low.
Recommendations	No further investigations are recommended at this time. Based on the findings of the desk study and ground investigation, the Site appears to be in a good condition from a geo-environmental perspective.

1. Introduction

1.1 Terms of Reference

1.1.1 Ecus Limited (hereafter 'Ecus') was commissioned by CBE+ Ltd (the 'Client') to undertake a Phase 1 Desk Study and Phase 2 Ground Investigation at CBE+ Ltd, Enterprise Drive, Holmewood, Chesterfield (hereafter referred to as 'the Site').

1.1.2 This report was produced on behalf of the Client and their advisors and financiers. It should not be transferred to or relied upon by any unauthorised third parties without the express permission of Ecus and our Client. If any unauthorised third party comes into possession of this report they rely on it entirely at their own risk.

1.2 Objectives

1.2.1 The assessment has been carried out in general accordance with the requirements of British Standards BS5930 (2015) – *Code of Practice for Ground Investigations* and BS10175 (2011+A1:2013) – *Investigation of Potentially Contaminated Sites*. *Code of Practice.*

1.2.2 The general objectives of the assessment are as follows:

- Provide information on past and current uses of the Site and surrounding area, and the nature of potential resulting hazards and physical constraints.
- Identify potential linkages between potential sources of contamination and receptors through likely pathways.
- Formulate an initial conceptual model highlighting the potential risks to future receptors for different geo-environmental aspects.
- Confirm the ground conditions across the site by means of carrying out intrusive exploratory holes.
- Obtain representative samples of the existing soils to facilitate chemical laboratory testing.
- Provide an interpretation of the ground conditions encountered and associated laboratory testing results.
- Update the initial conceptual site model formulated as part of the Phase 1 Desk Study assessment.
- Establish whether any additional investigation or assessment is required to further define any identified environmental constraints.

1.3 Future Site Use

1.3.1 The Site comprises established industrial premises and it is understood that baseline environmental conditions at the Site were required to be known as part of a new environmental permit for continued industrial operations at the Site.

1.3.2 This report has been written in relation to this land end-use; should the proposed land use change then the conclusions and recommendations of the report will require reassessment.

1.4 Sources of Information

1.4.1 Table 1 presents sources of information that have been consulted during this assessment.

Table 1: Sources of Information

Source	Details
Client	The Client provided information in relation to the proposed use of the Site.
Site Walkover	Information about the Site was gained from visual inspection during a site walkover survey.
Landmark Envirocheck Report	Presented in Appendices 2 and 3 containing historical mapping and records of environmental and geological information for the surrounding area.
British Geological Survey (BGS)	BGS 1:50,000 scale Geological Map No. 112, Chesterfield (Bedrock & Drift editions) and the BGS Geoindex website were consulted for geological information relating to the Site and surrounding area.

1.5 Limitations

1.5.1 The recommendations presented in this report are based on the findings of the available information reviewed when compiling the Phase I Desk Study and Phase 2 Ground Investigation report.

1.5.2 Ecus cannot be held responsible for any recommendations or conclusions based on the published information if it is later proven to be inaccurate.

1.5.3 It should also be noted that there may be other conditions prevailing on the Site which are not disclosed by the available information and therefore could not be taken into account when writing this report. Ecus cannot be responsible for unrecorded information.

1.5.4 The conclusions and recommendations of this report cannot be guaranteed to gain regulatory approval. This report should be passed to the relevant regulatory authorities for their comment and approval prior to undertaking any works on the Site if it is required as part of a Planning or Environmental Permit Application.

2. The Site

2.1 Location and Current Condition

2.1.1 The Site is approximately 1.48 hectares in area and comprises an active factory within Holmewood Industrial Estate, Holmewood, Chesterfield. Figure 1 shows the location of the Site which centres on National Grid Reference E: 442660, N: 366520.

2.1.2 A site walkover survey was carried out on 17th February 2020. Figure 2 shows the current layout of the Site and photographs of the Site are presented in Appendix 1.

2.2 Site Description

2.2.1 At the time of the walkover survey the Site comprised an active factory with associated car parking and soft-landscaped areas. (Photographs 1 to 10). A storage yard is located to the rear of the factory building within the north western part of the Site (Photographs 1 to 3).

2.2.2 Various containers (steel drums, intermediate bulk storage) were located within the storage yard (Photographs 1 to 4). The contents were either unclear (no label) or the containers were empty. No obvious signs of spillage were observed.

2.2.3 Four portable generator units were also present in the storage yard (Photographs 2 and 3). These appears to be in good condition and showed no signs of leaks or spills associated with fuel or oil.

2.2.4 Enterprise Drive runs parallel to the south western boundaries of the Site.

2.2.5 No obvious visual or olfactory signs of potential contamination were identified during the walkover survey.

2.3 Topography

2.3.1 The Site is flat lying and located at an elevation of approximately 135 m Above Ordnance Datum (AOD).

2.4 Access

2.4.1 Vehicular and pedestrian access is possible through the Site entrance from Enterprise Drive, located along the south western boundary of the Site (Photograph 8).

2.5 Underground Structures and Services

2.5.1 Drainage covers could be seen within the storage yard within the south western part of the Site, with several drainage covers and an interceptor sign were located along the south eastern boundary of the Site and the southernmost corner of the Site (Photographs 7, 9 and 10).

2.5.2 No evidence of other underground services was observed during the site walkover survey.

2.6 Surrounding Land Use

2.6.1 The Site is situated within the Holmewood Industrial Estate which is located on the northern edge of the village of Holmewood. Further industrial units are located north, east and south of the Site. The Five Pits Trail and Williamthorpe Nature Reserve are located to the west and north west of the Site.

3. Historical Setting

3.1 Historical Land Use

3.1.1 Historical Ordnance Survey mapping was obtained by commissioning a Landmark Envirocheck report for the Site.

3.1.2 The historical maps are presented in Appendix 2. A description of the historical use of the Site is presented in Table 2, along with a summary of surrounding land uses considered to have the potential to influence the contamination potential of the Site.

Table 2: Summary of Historical Land Use (all distances are approximate)

Map Date	Land Use within the Site Boundary	Potentially Significant Surrounding Land Use
1877-1878	The Site comprises undeveloped land.	Williamthorpe Hall, including a well and orchard, are located 250 m south-east of the Site.
1883-1884	No changes shown.	Lings Colliery is located 500 m west of the Site and Temple Normanton Colliery is located 500 m north-west. Owlcotes Colliery is located 1 km north-east of the Site.
1898-1900	No changes shown.	Railway lines have been constructed 800 m north and east of the Site. A Goods Shed is located 800 m east of the Site. Hardwick Colliery is shown 1 km south-east of the Site.
1917-1921	Railway sidings, associated with Williamthorpe Colliery, are shown across the Site.	Williamthorpe Colliery is located 100 m north-east of the Site with two shafts labelled 80 m and 100 m north-east of the Site. A railway line has been constructed 50 m north-west with several sidings shown within 100 m north and north-east of the Site. A reservoir is located 200 m south-west of the Site.
1938-1939	An area of spoil is shown within the south-eastern corner of the Site (possibly present in 1917).	A Sewage Works is located 500 m east of the Site.
1955	Several buildings, associated with Williamthorpe Colliery, have been constructed across the Site.	Spoil tips are located 250 m north, 250 m east and 500 m north-east of the Site.
1962-1970	No changes shown.	Tanks are shown 90 m and 130 m north-east of the Site. A large area of spoil is located between 100 m and 500 m north of the Site. Residential development has occurred 500 m south of the Site. The reservoir south-west of the Site appears to have been infilled.

Map Date	Land Use within the Site Boundary	Potentially Significant Surrounding Land Use
1974	The railway sidings are no longer shown on the Site.	The railway line and sidings north-west and sidings north and north-east of the Site are no longer shown. The railway line 800 m east of the Site is shown as dismantled.
1982-1988	The buildings on the Site are shown as Williamthorpe Colliery (Works and Depot)	Tanks are shown 20 m east of the Site. An industrial estate has been constructed 1 km south-east of the Site.
1993	The Site is shown as undeveloped and is part of Williamthorpe Industrial Park	Other that two buildings shown as shafts, Williamthorpe Colliery is no longer shown. An Industrial Park has been constructed 250 m south-east of the Site.
1995	No changes shown.	Roads have been constructed along the southern and south-eastern boundaries of the Site.
1999-2000	A single building has been constructed across the majority of the Site.	Further buildings have been constructed within the Industrial Park including a large building 100 m south-west of the Site.
2006-2020	The Site and area in proximity to the Site is shown as Williamthorpe Industrial Estate.	A building has been constructed immediately north-east of the Site and an air shaft is shown 80 m north-east of the Site.

3.2 Summary of Historical Land Use

3.2.1 The Site is shown to have remained undeveloped until 1917 when railway sidings, associated with Williamthorpe Colliery, are shown across the Site. The historical map dated 1938 shows an area of spoil within the south-eastern corner (possibly also present as early as 1917) and by 1955 several buildings associated with the Colliery were constructed across the Site. The railway sidings are no longer shown by 1974 and the Colliery buildings appear to have been used as a 'works and depot' until 1993 when the Site is shown to be clear of features, apparently having been prepared for redevelopment as part of Williamthorpe Industrial Park. A large building was constructed on the Site between 1995 and 1999 matching the outline of the current building, and the Site appears to have remained the same since.

3.2.2 The historical maps indicate that the nearest past industrial land use to the Site were the railway lines, sidings, shafts and buildings associated with Williamthorpe Colliery. Other industrial land uses in proximity to the Site include Lings Colliery, Temple Normanton Colliery, spoil tips and tanks.

4. Environmental Searches

4.1 Pollution Incidents

4.1.1 The Landmark Envirocheck report (Appendix 3) records six pollution incidents to controlled waters within 500 m of the Site. The nearest occurred 311 m south-east of the Site and was a Category 3 (minor impact) incident involving oils.

4.1.2 One record for a substantiated pollution incident is recorded within 500 m of the Site within the Envirocheck report. The incident was recorded 343 m east of the Site and were Category 1 (major impact) incidents to water involving inorganic chemicals.

4.1.3 No sites deemed as Contaminated Land under Part 2A of the Environmental Protection Act 1990 are recorded within 500 m of the Site.

4.2 Discharge Consents

4.2.1 Twenty nine records for licensed discharge consents to surface water are recorded within 500 m of the Site within the Envirocheck report. The nearest is located 253 m south-east of the Site and is sewage discharges into a tributary of the Muster Brook.

4.2.2 Within 250 m of the Site, no records for any Water Industry Referrals (potential harmful discharges to the public sewer) have been highlighted.

4.3 Landfill Sites and Waste Management Licences

4.3.1 The Envirocheck report does not identify any recorded active or historical landfill sites located within 250 m of the Site.

4.3.2 No entries for waste management facilities are recorded within 250 m of the Site within the Envirocheck report.

4.4 Potentially Infilled Land

4.4.1 The Site is shown to be underlain by potentially infilled land relating to the historical use of the Site.

4.5 Authorised Activities

4.5.1 The Envirocheck report records five Integrated Pollution and Prevention Control (IPPC) records within 1 km of the Site. The nearest is recorded 148 m south-west of the Site at Xtratherm Uk Limited.

4.6 Hazardous Substances

4.6.1 Within the Envirocheck report, there are no records of any Planning Hazardous Substances Consents or Explosive Sites within 1 km of the Site.

4.6.2 A single record for registered radioactive substances is recorded within the Envirocheck report within 500 m of the Site. The record is shown 298 m south-east of the Site at Baldwins Industrial Services Plc and is for the disposal of radioactive waste.

4.6.3 The Envirocheck report does not record any Notification of Installations Handling Hazardous Substance (NIHHS) sites within 1 km of the Site.

4.6.4 The Envirocheck report records two Control of Major Accident Hazards (COMAH) sites within 1km of the Site. The nearest is recorded 151 m south-west of the Site at Xtratherm UK Ltd.

4.7 Industrial Land Uses

4.7.1 Nine entries for Contemporary Trade Entries (potentially contaminative current and historical land uses) are recorded within 100 m of the Site. Two entries are recorded

on the Site, one for a Precision Engineers however the status is shown as inactive. The second entry recorded on the Site is for an active filter manufacturer and supplier. The remaining entries include a road haulage services, a manufacture and a drilling and boring equipment and supplies.

4.7.2 Two entries for fuel sites are recorded within the Enviroceck report within 1 km of the Site. The nearest is recorded 571 m south of the Site and the entry relates to a petrol station.

4.7.3 The Groundsure report does not identify any high voltage underground electricity cables or high pressure gas pipelines within 500 m of the Site.

4.8 Environmentally Sensitive Land Uses

4.8.1 The Envirocheck report indicates that the Site is located within a Nitrate Vulnerable Zone.

4.9 Radon

4.9.1 According to the Envirockeck report, the Site is in an area where less than 1 % of properties have radon levels above the designated Action Level.

4.9.2 Radon protection measures are not required within any new buildings.

4.10 Flood Risk

4.10.1 The Site is shown to be within Flood Zone 1.

4.10.2 The Groundsure report gives the likelihood of flooding to be very low, with an annual probably of less than 1 in 1,000.

4.10.3 According to the Envirocheck report the British Geological Survey (BGS) indicates that the Site is not located within an area at risk of groundwater flooding.

5. Geology and Ground Stability

5.1 Geology

5.1.1 The 1:50,000 scale digital geological map for the area has been studied using the BGS GeoIndex online tool. Information on the anticipated geology and hydrogeology of the Site is also shown within the Landmark Envirocheck report included in Appendix 3.

Solid Geology

5.1.2 The solid strata shown underlying the Site are undifferentiated strata of the Pennine Middle Coal Measures. Nearby strata are shown to dip 8° to the north-east.

5.1.3 The Lowbright (Abdy) Coal seam is shown outcrop along the south-western boundary of the Site.

5.1.4 No geological faults are shown to affect the Site.

Superficial and Artificial Deposits

5.1.5 No superficial deposits are shown to underlie the Site.

5.1.6 No recorded Made Ground or other artificial deposits are recorded within, or immediately adjacent to, the Site boundaries on the geological map.

5.2 Ground Stability

5.2.1 The Groundsure report highlights the risk from soluble rocks, compressible deposits and running sands to the Site to be negligible and shrink swell clays, landslides and collapsible rocks to be very low.

5.3 Hydrogeology

5.3.1 According to the Groundsure report the Pennine Middle Coal Measures are classified by the Environment Agency (EA) as a Secondary A aquifer. The EA describes these as permeable rocks or soils 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.

5.3.2 The Site is not located within a groundwater Source Protection Zone (SPZ) as set by the Environment Agency for the protection of potable groundwater resources.

5.3.3 The Envirocheck report indicates that there are no active licensed groundwater abstractions within 1 km of the Site.

5.4 Hydrology

5.4.1 The Envirocheck report indicates that the nearest surface water feature to the Site is an unnamed inland river located adjacent to the north-western boundary of the Site.

5.4.2 The Envirocheck report records four surface water abstractions within 500 m of the Site. The nearest is shown 432 m north-east of the Site at Smith Reclamation Ltd and is for the abstraction of 27,600m^3 of water annually from a reservoir fed by the Muster Brook. The status of the licence is shown as lapsed.

5.5 Historical Ground Investigation Data

5.5.1 As highlighted in the Envirocheck report, eleven archived BGS borehole records are recorded within 100 m of the Site. The records generally recorded Made Ground between c. 1.50 m and 2.20 m below ground level (bgl) overlying mudstone to a maximum depth of 4.5 m bgl.

5.5.2 No other archive investigation information is available that may provide further

indication of the likely ground conditions beneath the Site.

5.6 Coal Mining

5.6.1 The Coal Authority's online Interactive Map Viewer[1] shows that the Site is located within a Development High Risk Area.

5.7 Other Mineral Extraction

5.7.1 The Envirocheck reports identifies the Site to be located within a potential mining area and an area of historic extractive industries or potential excavations relating to a railway cutting and Williamthorpe Colliery.

5.7.2 No historical underground workings are recorded within 500 m of the Site.

5.7.3 No records for current ground workings are recorded within 500 m of the Site.

5.7.4 The risk of unrecorded mineral extractions underlying the Site is therefore considered to be low.

[1] http://mapapps2.bgs.ac.uk/coalauthority/home.html. Accessed 12th February 2020

6. Environmental Assessment

6.1 Introduction

6.1.1 The following sections provide an indication of the potentially contaminative activities that have been carried out throughout the historical use of the Site and the surrounding land. Likely associated contaminants are also identified. It should be noted that the activities identified may not necessarily have resulted in contamination of the ground.

6.2 On-Site Contamination

6.2.1 The Site is shown to have remained undeveloped until 1917 when railway sidings, associated with Williamthorpe Colliery, are shown across the Site. The historical map dated 1938 shows an area of spoil within the south-eastern corner and by 1955 several buildings associated with the Colliery were constructed across the Site. The railway sidings are no longer shown by 1974 and the Colliery buildings appear to have been used as a works and depot until 1993 when the Site is shown to be undeveloped. A large building was constructed on the Site between 1995 and 1999 and the Site appears to have remained the same since.

6.2.2 No obvious visual or olfactory signs of potential contamination were highlighted during the walkover survey carried out.

6.2.3 As part of the walkover survey no visual signs of potential invasive plants were recorded. However, not seeing potential signs of invasive plants during our time on Site cannot be a guarantee that they are not present.

6.2.4 The Site is to stay in its existing use.

6.2.5 Chemical and groundwater testing would be recommended to confirm the ground conditions at the Site.

6.3 Off-Site Contaminants

6.3.1 The railway lines and sidings located adjacent to the Site, associated with Williamthorpe Colliery, could be a source of off-site contamination.

6.3.2 No other potentially significant off-site sources of contamination have been identified by the Phase 1 Desk Study.

6.4 Ground Gases

6.4.1 The Site is not located within 250 m of a recorded landfill site.

6.4.2 The Site is shown to be underlain by potentially infilled land relating to the historical use of the Site however the Site is not recorded to be underlain by a significant thickness of Made Ground.

6.4.3 The Site was historically part of a colliery and as such shallow coal seams and / or mine workings could be source of ground gases.

6.4.4 The risk posed by ground gases is considered to be low and as no new buildings are proposed for the Site, the existing building comprises large open spaces and is likely to have a monolithic floor slab. The risk to future site users is considered to be the same as present.

6.5 Controlled Waters

6.5.1 An unnamed inland river is located adjacent to the north-western boundary of the Site. Historical mapping indicates that this may be some form of land drain resulting from restoration of the former colliery land as the watercourse did not appear to be present before this.

6.5.2 The bedrock under the Site is classified as a Secondary A aquifer. The Site is not located within a groundwater Source Protection Zone and no groundwater abstractions are located in potential influencing distance to the Site.

6.5.3 Groundwater resources at the Site are considered to be a sensitive environmental receptor. However, there is only a low probability of significant contamination being present at the Site, therefore the risk to groundwater is considered to be Low.

7. Preliminary Conceptual Site Model

7.1 General

7.1.1 The preliminary Conceptual Site Model (CSM) uses the desk study findings and an understanding of the way that the potential contaminants at the Site are likely to behave in the soil, rock and groundwater environment to identify possible pollutant linkages between potential contaminants sources and the likely critical receptor.

7.1.2 Definitions of the three elements of the Source-Pathway-Receptor model are defined in Table 3.

Table 3: Source-Pathway-Receptor Definitions

Source	A substance that is above, on or under land and could pose potential harm or adversely affect an identified receptor, or cause pollution to controlled waters.
Pathway	The physical means by which the potential contaminants may reach the receptor.
Receptor	The identified element (either animate or inanimate) that could be adversely affected by the contaminant.

7.1.3 It should be noted that all three of the elements in Table 3 are required for there to be a perceivable risk. Where all three elements are deemed to be present, the risk is a function of the probability of the event occurring and the potential consequence, should the event occur.

7.1.4 The risk classifications assigned to the conceptual model are based on the terminology for consequence and probability outlined in CIRIA C552, with a summary of the resultant risk classifications summarised in Table 4.

Table 4: Summary of risk classification

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very High risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

7.1.5 For the purpose of the CSM, groups of contaminants that (in most circumstances) behave in a similar way in the environment have been chosen and linked to potential pathways and receptors.

7.1.6 It should be noted that not all the potential contaminants have been included in the conceptual model, only those that are considered potentially significant at this stage.

7.1.7 As further up-to-date site specific information becomes available the CSM should be updated accordingly.

7.2 Potential Migration Pathways

7.2.1 A summary of potential pathways and receptors is given in Table 5.

7.2.2 Some Source-Pathway-Receptor linkages mentioned in the table are not considered likely to be active at the Site for the reasons specified in the Comments column.

Table 5: Potential Pathways and Possible Receptors

Potential Pathway	Potential Receptor	Comments
Exposure via dermal contact with soil.	Future site users.	Exposure to contaminated soils could occur in soft landscaped areas via these pathways.
Exposure via direct ingestion of soil and/or contaminated dusts indoors and outdoors.	Future site users.	
Exposure via inhalation of contaminated dusts indoors and outdoors.	Future site users.	
Exposure via consumption of fruit and vegetables grown on the Site, and attached soils.	Future site users.	The Site is to stay in-use as a commercial factory. This pathway is not considered to be active at the Site.
Intake via inhalation of ground gases and vapours (indoors and outdoors). Explosion of methane.	Future site users.	No historical landfill sites are located within 250 m of the Site. The Site is shown as potentially infilled land and overlying shallow coal / potential mine workings all of which could act as gas sources. The risk posed by ground gases is considered to be low as no new buildings are proposed for the Site and the risk to future site users is considered to be the same as present.
Migration through soil / groundwater.	Controlled waters; groundwater.	Soluble contaminants may impact on groundwater underlying the Site.
	Controlled waters; surface water.	An unnamed inland river is located adjacent to the north-western boundary of the Site.
	Off-site residents.	Significant contamination that could migrate off-site to affect adjoining residents is considered unlikely to be present on the Site.

7.3 Critical Receptors

7.3.1 Using the information contained in Table 6, the CSM has identified the most sensitive receptor for each potential contaminant source and the critical pathway between the source and receptor.

7.3.2 It is understood that the Site is to stay as its existing use.

7.3.3 Site users will have the potential to come into contact with any underlying contaminants in soft landscaped areas but the majority of the Site is otherwise covered by hardstanding that would prevent direct contact with potential

contaminants.

7.3.4 At this stage the CSM has determined whether a potentially significant risk exists that would warrant further investigation to refine the risks to the critical receptor. See Table 6.

7.3.5 Where further investigation is deemed to be required, recommendations are given at the end of this report to better define the potential risks.

Table 6: Preliminary CSM

Potential Source	Potential Hazard	Critical Pathway	Most Sensitive Receptor	Comments	Current Anticipated Risk
On-site Made Ground	Asbestos	Inhalation of fibres	Site users	Ground investigation required to confirm the existing ground conditions at the Site.	Moderate / Low
	Metals and PAH	Ingestion of soil and indoor dust	Site users		Moderate / Low
	Leachable metals and PAH	Leaching to groundwater	Groundwater		Moderate / Low
		Leaching to surface waters	Watercourse adjacent Site		Moderate / Low
	Sulphate attack	Direct contact	Concrete substructures		Low
	Ground gases	Through the ground	Site users		Low
Off-site Made Ground	Ground gases	Through the ground	Site users	No historical landfill sites are located within 250 m of the Site.	Low
	Leachates	Leaching to groundwater	Groundwater	No areas of Made Ground are recorded in proximity to the Site but would be anticipated as part of the former colliery land-use.	Moderate / Low

Potential Source	Potential Hazard	Critical Pathway	Most Sensitive Receptor	Comments	Current Anticipated Risk
Bedrock	Radon emissions	Through the ground	Residents	No risk at anticipated emissions level	Very low
N/A	Flooding	Over land flow	Residents	The Site is not shown to be within an area at risk of flooding.	Low
Invasive plants	Infestation of the Site	Direct contact	Residents	None identified during walkover survey.	Low

8. Fieldwork

8.1 Scope and Sampling Strategy

8.1.1 All fieldwork was undertaken in general accordance with the requirements of British Standards BS5930 (2015) – *Code of Practice for Ground Investigations* and BS10175 (2011+A2:2017) – *Investigation of Potentially Contaminated Sites*. *Code of Practice.*

8.1.2 The aim of the investigation was to confirm the ground conditions across the Site and assess the chemical suitability of existing soils at the Site.

8.1.3 A total of seven windowless sampler holes (WS01 to WS07) were drilled across the Site on 17th February 2020 to depths of between 1.70 m and 2.80 m bgl using a Global Geo4 Windowless Sampling Rig.

8.1.4 From the boreholes, environmental samples were collected from both the Made Ground and natural strata. Visual and olfactory evidence of contamination was recorded where observed.

8.1.5 Upon completion groundwater monitoring wells were installed in all the boreholes.

8.2 Locations of Exploratory Holes

8.2.1 The locations of the exploratory holes were selected by Ecus to provide a representative spread of data across the Site.

8.2.2 Figure 2 shows the approximate locations of the exploratory holes.

8.3 Chemical Analyses

8.3.1 Chemical analysis of on-site soils for a range of heavy metals, semi-heavy metals, polycyclic aromatic hydrocarbons (PAH), speciated Total Petroleum Hydrocarbons (PAH) and asbestos screening and identification was undertaken on samples ofMade Ground and natural strata, to assess contaminant levels in the underlying soils.

8.3.2 The full laboratory results are presented in Appendix 5.

8.4 Post-investigation Monitoring

8.4.1 Groundwater monitoring has been carried out on a single occasion following the ground investigation.

8.4.2 Measurements of groundwater depth from ground level were also undertaken during the groundwater monitoring visit using an electronic dip meter.

9. Ground Conditions

9.1 Introduction

9.1.1 The following sections provide a summary of the general ground conditions recorded across the Site for guidance purposes only. Full details of the soils encountered at each borehole location are presented on the appended logs; see Appendix 4.

9.2 Made Ground

9.2.1 Hard-surfacing, comprising concrete or asphalt, was encountered from the surface to depths of between 0.09 m and 0.23 m bgl in boreholes WS01 to WS06.

9.2.2 Made Ground was encountered in all locations during the investigation to depths of between 0.16 m to 1.05 m bgl. The Made Ground generally comprised sandy limestone gravel.

9.2.3 Boreholes WS02, WS05 and WS07 encountered Made Ground comprising of clayey sandy gravel with anthropogenic content including brick, concrete and clinker.

9.3 Natural Soils

9.3.1 Natural soils were present immediately beneath the Made Ground in all of the exploratory holes except WS05 and WS06.

9.3.2 The natural soils generally comprised firm to stiff gravelly clay overlying a clayey gravel to the full depth of investigation.

9.3.3 The natural subsoils represent the upper weathered horizons of the Pennine Lower Coal Measures which are shown to underlie the Site on geological mapping.

9.4 Bedrock

9.4.1 Weathered mudstone bedrock was encountered in each borehole drilled across the Site.

9.5 Groundwater

9.5.1 Groundwater seepage was encountered within borehole WS02 only at a depth of 1.65 m bgl.

9.6 Contamination Observations

9.6.1 No visual evidence of gross contamination was observed during the site investigation.

9.6.2 A slight hydrocarbon odour was observed in borehole WS02, in the Made Ground between 0.34m and 0.44 m bgl.

10. Revised Conceptual Model and Risk Assessment

10.1 Introduction

10.1.1 The conceptual model and risk assessment produced in Section 7 has identified potential risks to potential receptors from exposure to contaminants at the Site.

10.1.2 Using the findings of the ground investigation, the conceptual model and risk assessment, have been updated to provide an up-to-date reflection of the potential risks to future residents.

10.2 Risks to Site End Users – Selection of Human Health Risk Screening Criteria

Category 4 Screening Levels

10.2.1 The Department for Environment, Food and Rural Affairs (Defra) published Category 4 Screening Levels[2,3] (C4SLs) in 2014. These were developed to be used in the inspection of potentially contaminated land under Part 2A of the Environmental Protection Act (1990) (hereafter referred to as 'Part 2A') to define land that is suitable for use and definitely not contaminated land.

10.2.2 Defra has explicitly stated that the C4SL values are suitable for use for soil contamination assessments within the development planning regime; the Policy Companion Document published by Defra to be read alongside the main document states that:

10.2.3 "The Part 2A regime and the planning regime are inter-linked such that the National Planning Policy Framework states that "after development, as a minimum, land should not be capable of being determined as contaminated land under Part 2A of the Environmental Protection Act 1990" and that "Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner." The Part 2A Statutory Guidance and accompanying Impact Assessment were developed on the basis that Category 4 Screening Levels could be used under the planning regime, as they would be in Part 2A investigations directly".

10.2.4 Hence a site where all shallow soils contain concentrations of contaminants that are equal to or less than the applicable C4SLs is suitable for use, as defined within the National Planning Policy Framework (NPPF). Therefore, the C4SLs are appropriate for use as a human health risk screening tool in this assessment. However, where the concentration of a contaminant is greater than the C4SL value, this is not necessarily indicative that there is an unacceptable risk or that remediation is required; other lines of evidence should also be taken into consideration.

10.2.5 The land use assumptions for the residential, allotments and commercial land use scenarios within the C4SL assessment system are based on the Environment Agency's Contaminated Land Exposure Assessment (CLEA) model[4,5,6], with

[2] CL:AIRE, 2014. *Development of Category 4 Screening Levels for Assessment of Land affected by Contamination*. *Final Project Report (Revision 2).* Defra, London.
[3] Defra, 2014. *Development of Category 4 Screening Levels for Assessment of Land affected by Contamination – Policy Companion Document*. Defra, London.
[4] Environment Agency, 2009. Science Report SC050021/SR2: *Human health toxicological assessment of contaminants in soil.*
[5] Environment Agency, 2009. Science Report SC050021/SR4: *CLEA Software (Version 1.05) Handbook.*
[6] Environment Agency, 2009. Science Report SC050021/SR3: *Updated technical background to the CLEA model.*

amendments to the exposure assumptions within the standard land use models and exchanging the health criteria values (HCVs) used to calculate the previously published soil guideline values (SGVs) for updated Low Levels of Toxicological Concern (LLTC).

10.2.6 At the time of writing, C4SL values have been published for arsenic, benzene, benzo(a)pyrene, cadmium, hexavalent chromium and lead.

Suitable 4 Use Levels

10.2.7 Land Quality Management Ltd (LQM) and the Chartered Institute of Environmental Health (CIEH) published Suitable 4 Use Levels (S4ULs) in 2015[7]. These were calculated based on the same assumptions on exposure as those used to calculate the C4SL values, and LLTC values that are of an equivalent level of protection as the C4SLs.

10.2.8 Accordingly, the S4UL have been used as human health risk screening criteria in this assessment for those heavy metals, PAH compounds and petroleum hydrocarbon fractions not covered by the C4SLs.

Asbestos

10.2.9 For the assessment of the risk from asbestos in soils, guidance contained within CIRIA Report C733[8] has been taken into consideration, although it should be noted that this document does not include any UK-based SGVs for the assessment of risk from asbestos in soils.

10.3 Risks to Human Health – Conceptual Exposure Model

10.3.1 C4SLs and S4ULs have been produced for the following standardised land use scenarios:

- Residential (with and without home-grown produce);
- Allotments;
- Commercial;
- Public open space near to housing;
- Public open space distant from housing.

10.3.2 In the CLEA model, the commercial land use is assumed to consist of a three-storey office and the standard critical receptor is assumed to be a working female adult (aged sixteen to sixty five years old) with a duration of exposure of forty nine years.

10.3.3 It is understood that the Site is to stay as its existing use. Therefore, C4SL and S4UL values for the 'commercial' land use scenario have been chosen as the initial risk screening criteria for the Site.

Soil Organic Matter

10.3.4 The soil organic matter (SOM) from Made Ground soil samples analysed varies between 0.9 % and 12.4 %. S4UL values based on an assumed 1 % SOM have therefore been used in this assessment in order to make it conservative. The C4SL values are calculated assuming a SOM concentration of 6 %.

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[7] Nathanail, C.P., et al., 2015. *The LQM/CIEH S4ULs for Human Health Risk Assessment*. Land Quality Press, Nottingham.
Copyright Land Quality Management Limited reproduced with permission; Publication Number S4UL3222. All rights reserved.
[8] Nathanail, P., et al., 2014. CIRIA Report C733. *Asbestos in Soil and Made Ground: A Guide to Understanding and Managing Risks*. CIRIA, London.

10.4 Initial Human Health Risk Screening Assessment

10.4.1 The commercial C4SL and S4UL values for each contaminant of concern are summarised within Appendix 6, Tables 6.1 to 6.3. Reported exceedances of the C4SL and S4UL values are also shown, along with the minimum and maximum recorded concentration for each contaminant. There is a satisfactorily representative dataset for the Site for the contaminants of potential concern, and therefore, where the maximum concentration of a contaminant is less than the C4SL / S4UL, it can be stated with a satisfactory degree of confidence that the risk from potential contaminant linkages between that contaminant within existing site soils and the health of the identified critical receptor is low.

10.4.2 Conversely, where the maximum concentration of a contaminant is greater than the C4SL / S4UL, further assessment may be required.

10.4.3 Where the maximum recorded concentration of a contaminant was less than the laboratory's limit of detection (see individual laboratory reports in Appendix 5), the detection limit has been taken as the maximum potential concentration for the sample concerned.

10.4.4 The tables in Appendix 6 show that the concentrations of all contaminants analysed were found to be below current GAC values for a commercial end-use.

10.5 Asbestos in Soil

10.5.1 Seven samples were tested for the presence of asbestos fibres. Chrysotile fibres were detected in a single sample (WS07 at 0.30 m). The result was <0.001 % and the risk posed by asbestos fibres is considered to be generally low, but with the potential for localised occurrences.

10.5.2 It should be recognised that the largely negative test results for asbestos fibres does not preclude the possibility that such material may be buried elsewhere on the Site, particularly given the one positive result that was reported, and any ground workers should be vigilant for potential asbestos containing materials during any groundworks operations

10.6 Controlled Waters

10.6.1 Laboratory testing was undertaken on soil samples collected as part of the ground investigation to determine their leachability to groundwater beneath the Site, and on groundwater samples obtained from monitoring wells.

10.6.2 The Tier 1 Water Environment screening criteria are given in Appendix 6, Tables 6.4 to 6.6, and are based on the Environmental Quality Standards (EA EQS) (Freshwater), UK Drinking Water Standards (UK DWS) and Water Framework Directive (2000/60/EC). The minimum and maximum values from the laboratory testing are also stated and any exceedances of the screening criteria are highlighted. Where screening values are available, the order of priority for assessment will be EQS > DWS > WFD.

<u>Metals and Phenols</u>

10.6.3 Exceedances within soil derived leachates were recorded for copper and vanadium when compared against EQS screening values.

10.6.4 The exceedances are somewhat sporadic and do not appear to indicate any pattern or widespread leaching of metals and phenols, but rather leaching of particular contaminants at different points locally around the Site.

10.6.5 The exceedances for arsenic, copper, selenium and vanadium in groundwater samples are relatively low in comparison to their EQS values and this suggests that

while some leaching of metals to groundwater is taking place, it is relatively limited. No exceedances for other heavy metals are evident in the groundwater samples.

10.6.6 The general risk to controlled waters from heavy metals and phenols is considered to be low.

Polycyclic Aromatic Hydrocarbons

10.6.7 Naphthalene is the only PAH with an established EQS screening value (10 µg/l) and this was not exceeded in any of the soil derived leachate or groundwater samples.

10.6.8 Exceedances were recorded for PAHs against DWS screening criteria for benzo(a)pyrene. However, it is noted that the laboratory limit of detection was higher than the DWS screening criteria.

10.6.9 It is noted that the DWS screening value is set at an extremely low value, and the Site is not within an area where potable water abstractions are taking place. If the available EQS value for naphthalene is applied across all individual PAHs as a proxy screening value, no exceedances are recorded and, based on this criteria, the risk to controlled waters is considered to be low.

10.7 Invasive Plants

10.7.1 No evidence of any invasive plant species was identified during the ground investigation works undertaken. However, not seeing any signs of invasive plants on site cannot be a guarantee that they are not present.

10.8 Revised Conceptual Site Model

10.8.1 The Site is proposed to stay as its existing use. The following assessment is based upon this end-use.

10.8.2 Definitions of each element of the Source-Pathway-Receptor model are outlined in Table 7 for ease of reference. Where all three elements are deemed to be present, the risk is a function of the probability of the event occurring and the potential consequence, should the event occur.

Table 7: Source-Pathway-Receptor Definitions

Source	A substance that is above, on or under land and could pose potential harm or adversely affect an identified receptor, or cause pollution to controlled waters.
Pathway	The physical means by which the potential contaminants may reach the receptor.
Receptor	The identified element (either animate or inanimate) that could be adversely affected by the contaminant.

10.8.3 The risk classifications assigned to the conceptual model are based on the terminology for consequence and probability outlined in CIRIA C552, with a summary of the resultant risk classifications summarised in Table 8.

Table 8: Summary of risk classification

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very High risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

10.8.4 In accordance with best practise guidance the CSM should be treated as a live document and updated as necessary throughout the development process. The revised CSM is provided in Table 9.

Table 9: Revised Conceptual Site Model

Source	Hazard	Critical Pathway	Most Sensitive Receptor	Comments	Current Anticipated Risk
Made Ground	Asbestos	Inhalation of fibres	Future site users and construction Workers	Asbestos fibres were detected in a single sample at <0.001 %.	Low
	Metals, TPH and PAH	Direct contact and ingestion of soil, inhalation of soil derived dust.	Future site users and construction Workers	No exceedances have been identified.	Low
	Leachable metals, TPH and PAH	Leaching from soil and migration through porous strata	Groundwater	Minor concentrations of potentially leachable metals and PAHs have been recorded. No free-product, potable water or Source Protection Zones identified.	Low

Source	Hazard	Critical Pathway	Most Sensitive Receptor	Comments	Current Anticipated Risk
	Ground gases	Construction workers & future employees	Through the ground	No historical landfill sites are located within 250 m of the Site. The Site appears to have been mostly cleared of colliery-related Made Ground and concrete hardstanding or building with concrete floor slab covers the whole Site	Low
Off-site made ground / landfills	Ground gases	Through the ground	Future site users	No historical landfill sites are located within 250 m of the Site.	Low
	Leachates	Leaching to groundwater	Groundwater	No significant contamination was identified at the Site.	Low
Bedrock	Radon emissions	Through the ground	Future employees	No radon protection measures are required.	Very low
Invasive plants	Infestation of site	Direct contact	Buildings / structures	None identified during the ground investigation.	Low

11. Conclusions and Recommendations

11.1 Geo-environmental Considerations

11.1.1 No elevated concentrations of any contaminant analysed were identified at the Site.

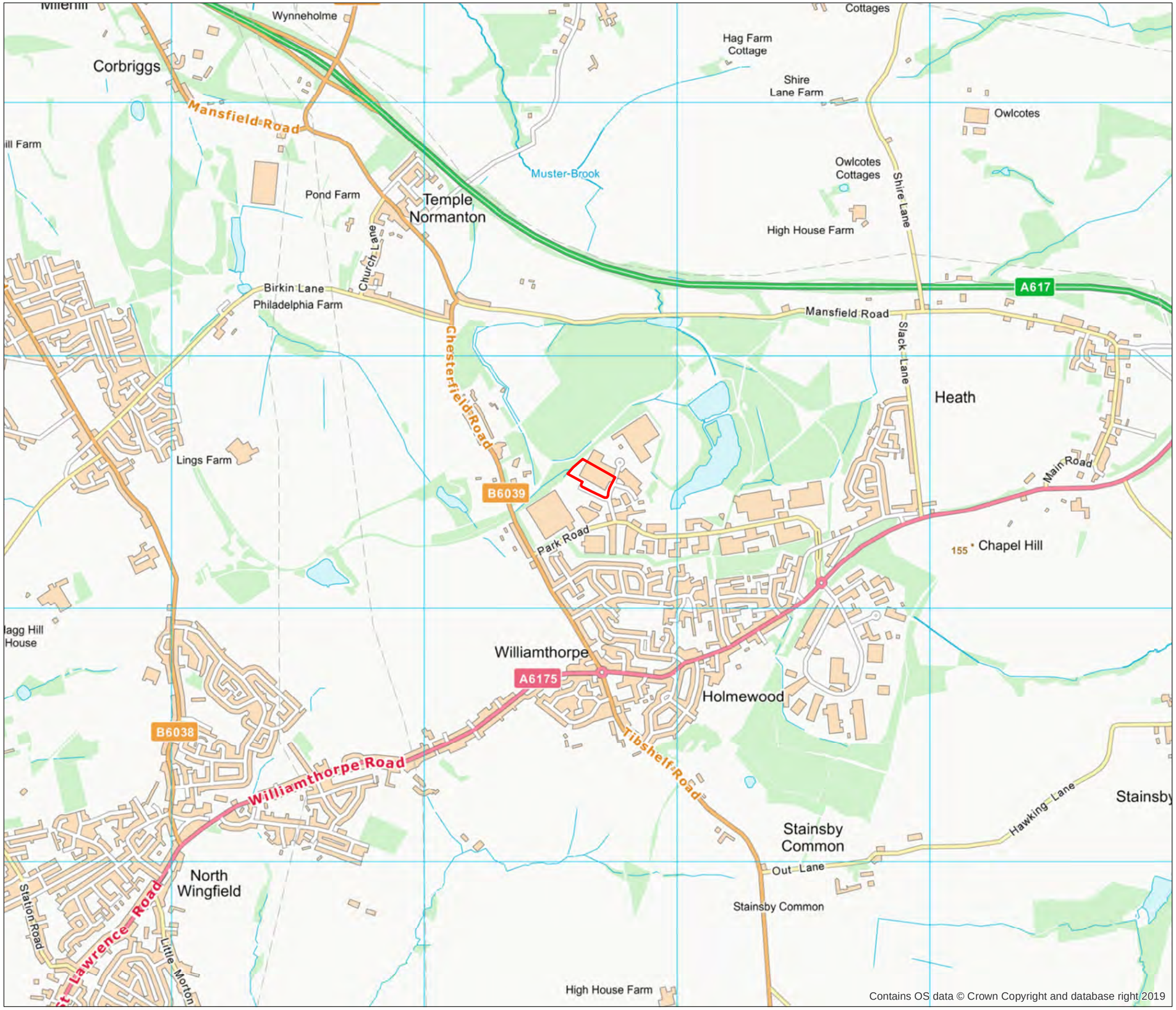
11.1.2 No further action is required with regard to protection of controlled waters based on a lack of specific contaminative sources and the ground conditions encountered during the investigation works.

11.1.3 Based on the results of this Phase I desk study and Phase 2 ground investigation, it is considered that the Site is currently in a good condition with no obvious contamination concerns at the present time. This report should be taken forward to represent the baseline conditions for any subsequent environmental permits applied for.

11.2 Recommendations

11.2.1 No further work is recommended at this stage.

Figures



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Legend

Site Boundary

0 375 750
Metres

Environmental Monitoring Solutions Ltd

CBE Plus Ltd, Enterprise Drive, Holmewood, Chesterfield

Figure: 1.0

Site Location Plan

Brook Holt 3 Blackburn Road Sheffield S61 2DW
T: 0114 2669292 www.ecusltd.co.uk

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Date: March 2020 | Scale @ A3: 1:15,000 | Drg.Ref: RZ/14265/1.0

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Legend

Site Boundary

Windowless Sampler Borehole

0 20 40
Metres

Environmental Monitoring Solutions Ltd

CBE Plus Ltd, Enterprise Drive, Holmewood, Chesterfield

Figure: 2.0

Borehole Location Plan

Brook Holt 3 Blackburn Road Sheffield S61 2DW
T: 0114 2669292 www.ecusltd.co.uk

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Date: March 2020 | Scale @ A3: 1:650 | Drg.Ref: RZ/14265/2.0

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Appendix 1: Site Walkover Photographs

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P1: View looking south across the north western part of the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P2: View looking south west across the north western part of the Site.**

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Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P3: View looking north east across the north western part of the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P4: Image shows the factory building located on the Site.**

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Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P5: View looking south east along the south western boundary of the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P6: View looking south west along the south eastern boundary of the Site.**

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Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P7: Image shows some of the drain covers located along the south eastern boundary of the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P8: View looking north west along the south western boundary of the Site. Image also shows the current entrance onto the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P9: Image shows the drain covers within the southernmost corner of the Site.**

Job: Ground Conditions Report **Site:** CBE Plus Ltd, Holmewood, Chesterfield **Ref:** 14265	**P10: Image shows the drainage cover with an interceptor sign located along the south eastern boundary of the Site.**

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Appendix 2: Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Sloping Masonry
Pylon
Pole
Electricity Transmission Line
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®
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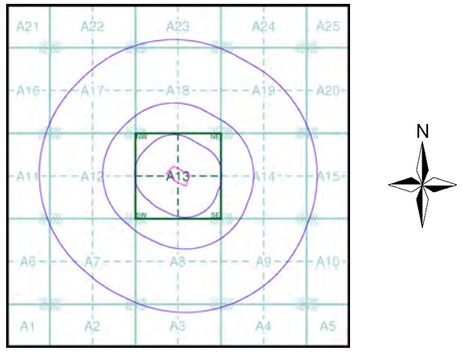
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1883 - 1884	2
Derbyshire	1:10,560	1899 - 1900	3
Derbyshire	1:10,560	1921	4
Derbyshire	1:10,560	1921	5
Derbyshire	1:10,560	1938 - 1939	6
Ordnance Survey Plan	1:10,000	1955	7
Ordnance Survey Plan	1:10,000	1967	8
Ordnance Survey Plan	1:10,000	1974	9
Ordnance Survey Plan	1:10,000	1982	10
Ordnance Survey Plan	1:10,000	1993	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2020	14

Historical Map - Slice A



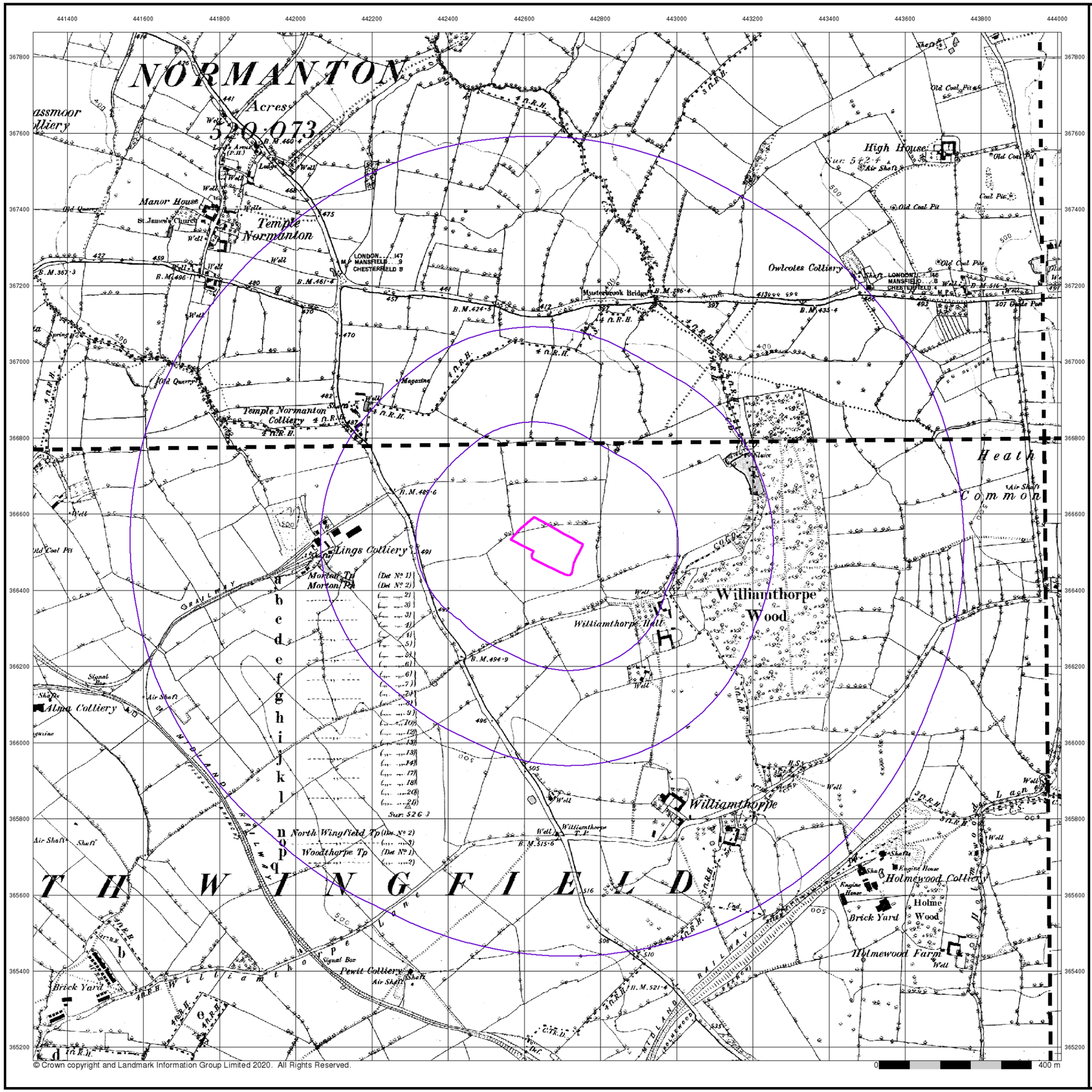
Order Details

Order Number: 234035127_1_1
Customer Ref: 14265
National Grid Reference: 442660, 366520
Slice: A
Site Area (Ha): 1.48
Search Buffer (m): 1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

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



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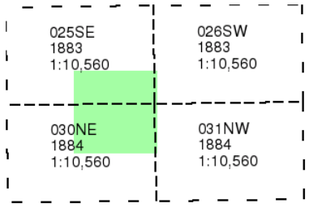
Derbyshire

Published 1883 - 1884

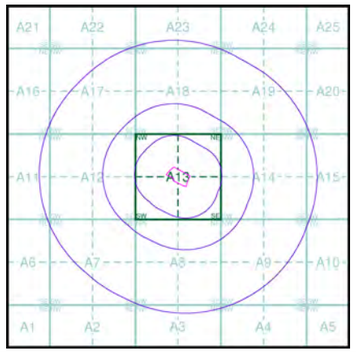
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940`s, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

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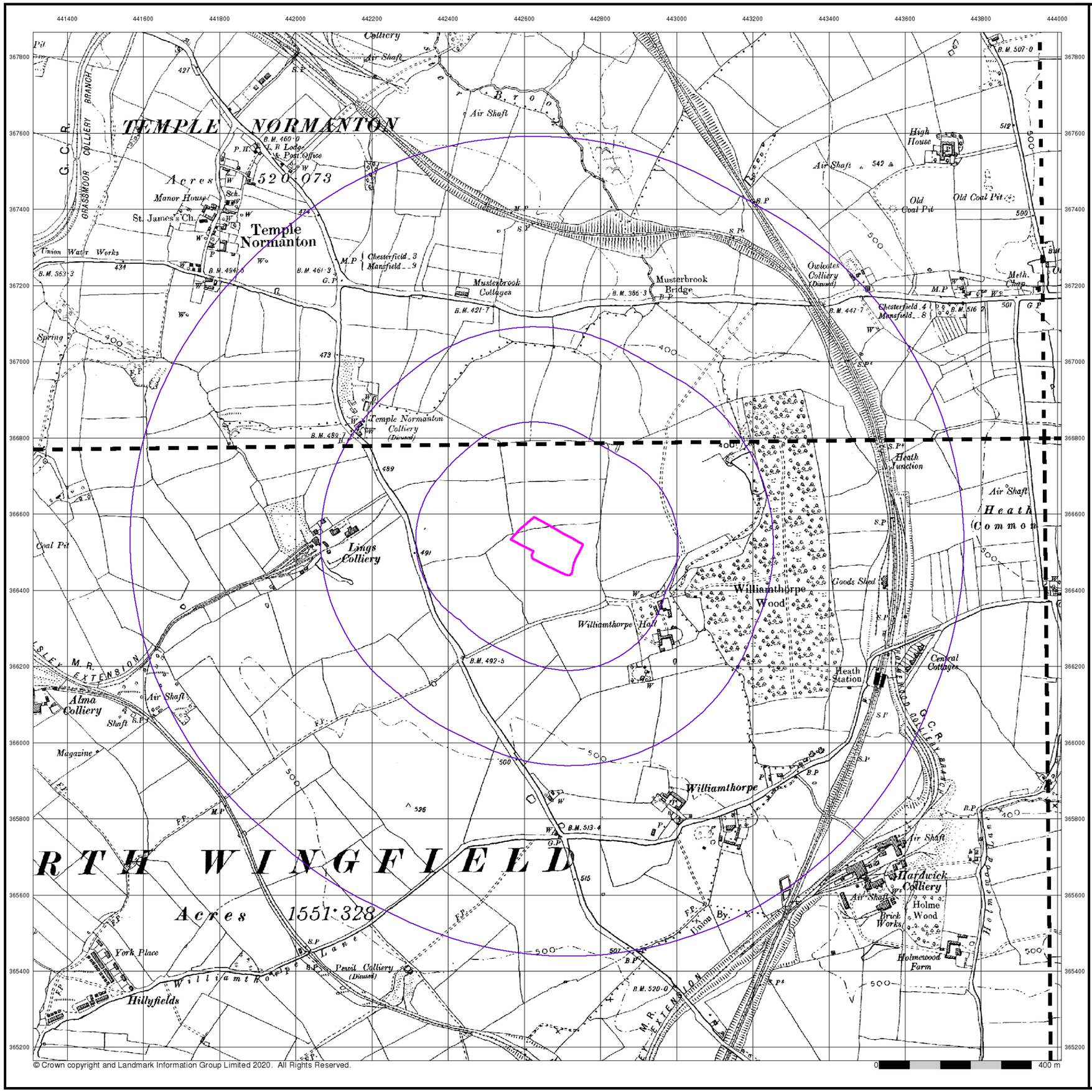

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Derbyshire

Published 1899 - 1900

Source map scale - 1:10,560

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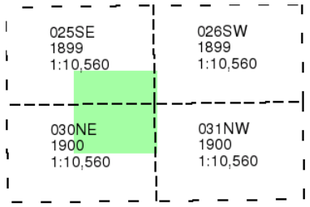
Map Name(s) and Date(s)



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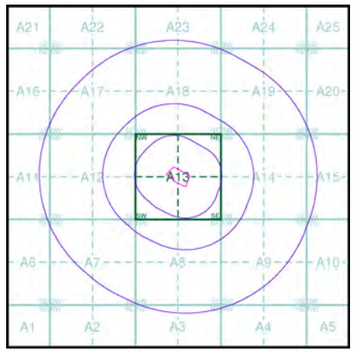

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Order Details

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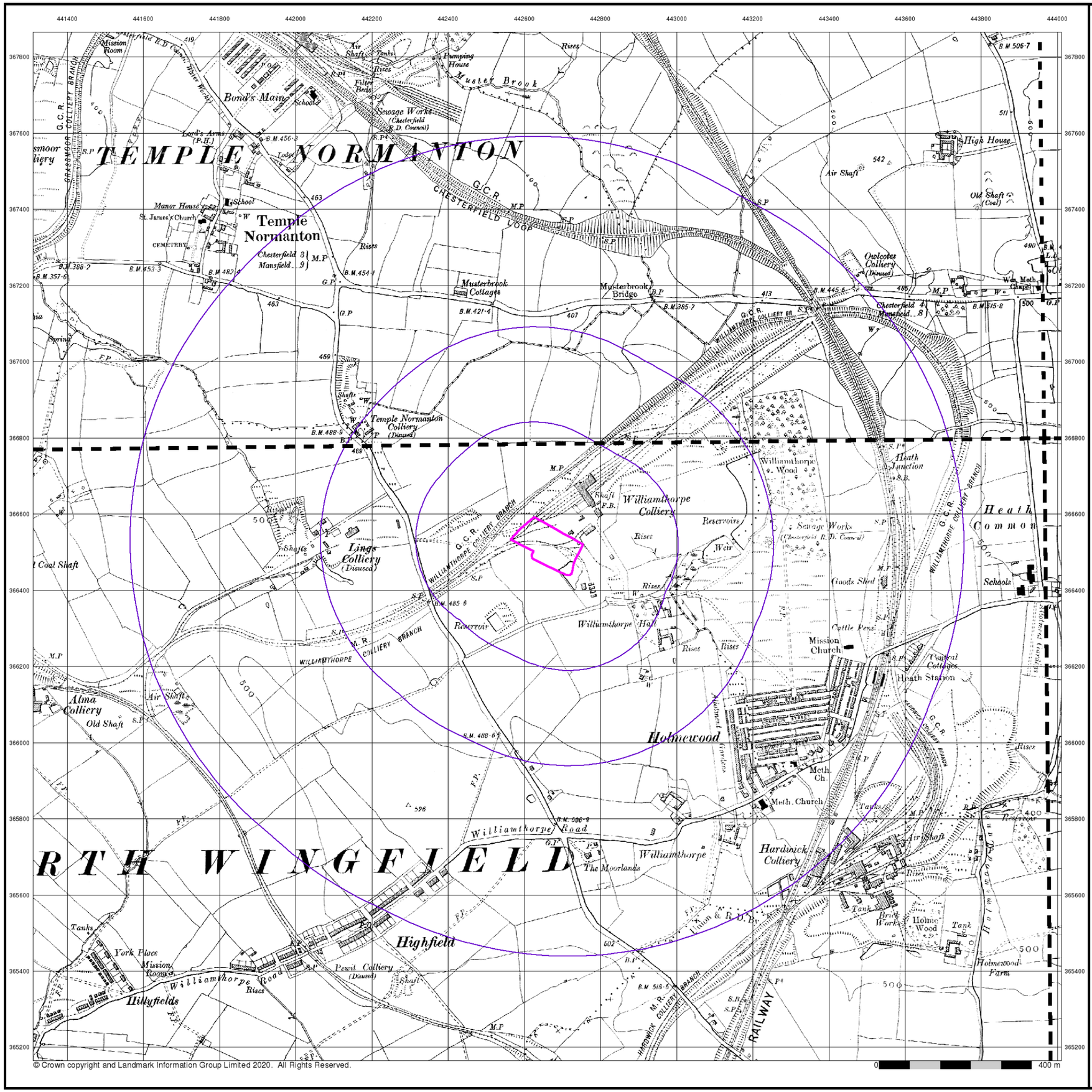

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Derbyshire

Published 1921

Source map scale - 1:10,560

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Map Name(s) and Date(s)

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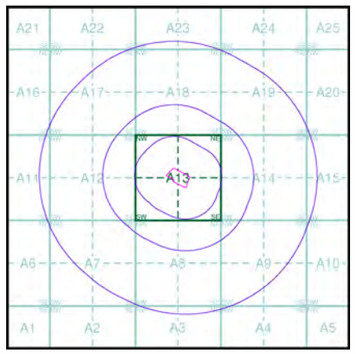
030NE 1921 1:10,560	031NW 1921 1:10,560

Historical Map - Slice A



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Slice:	A
Site Area (Ha):	1.48
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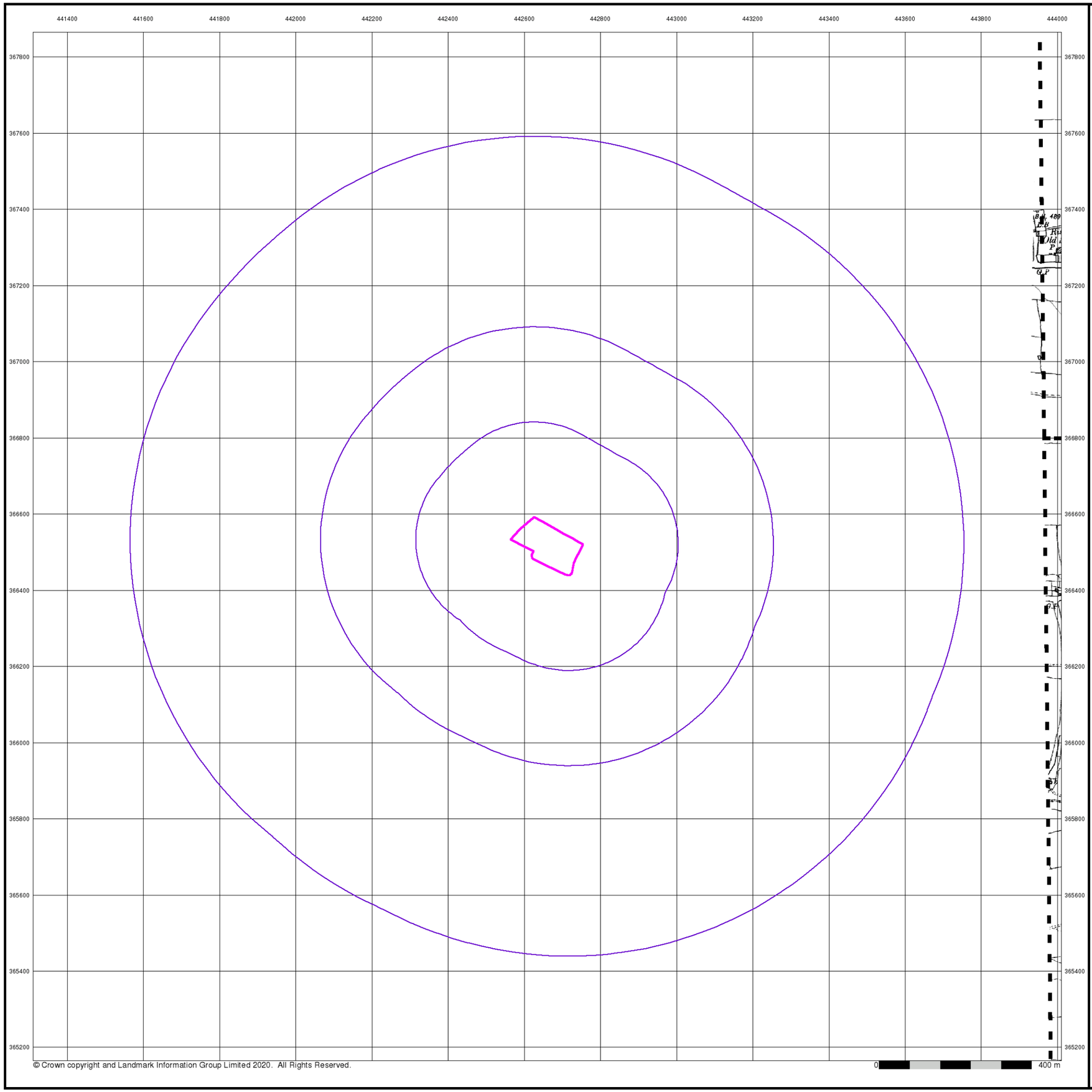

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Derbyshire

Published 1921

Source map scale - 1:10,560

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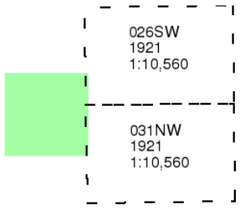
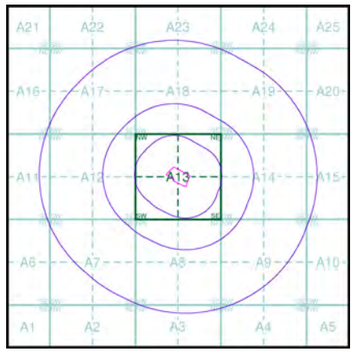
Map Name(s) and Date(s)



Historical Map - Slice A



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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
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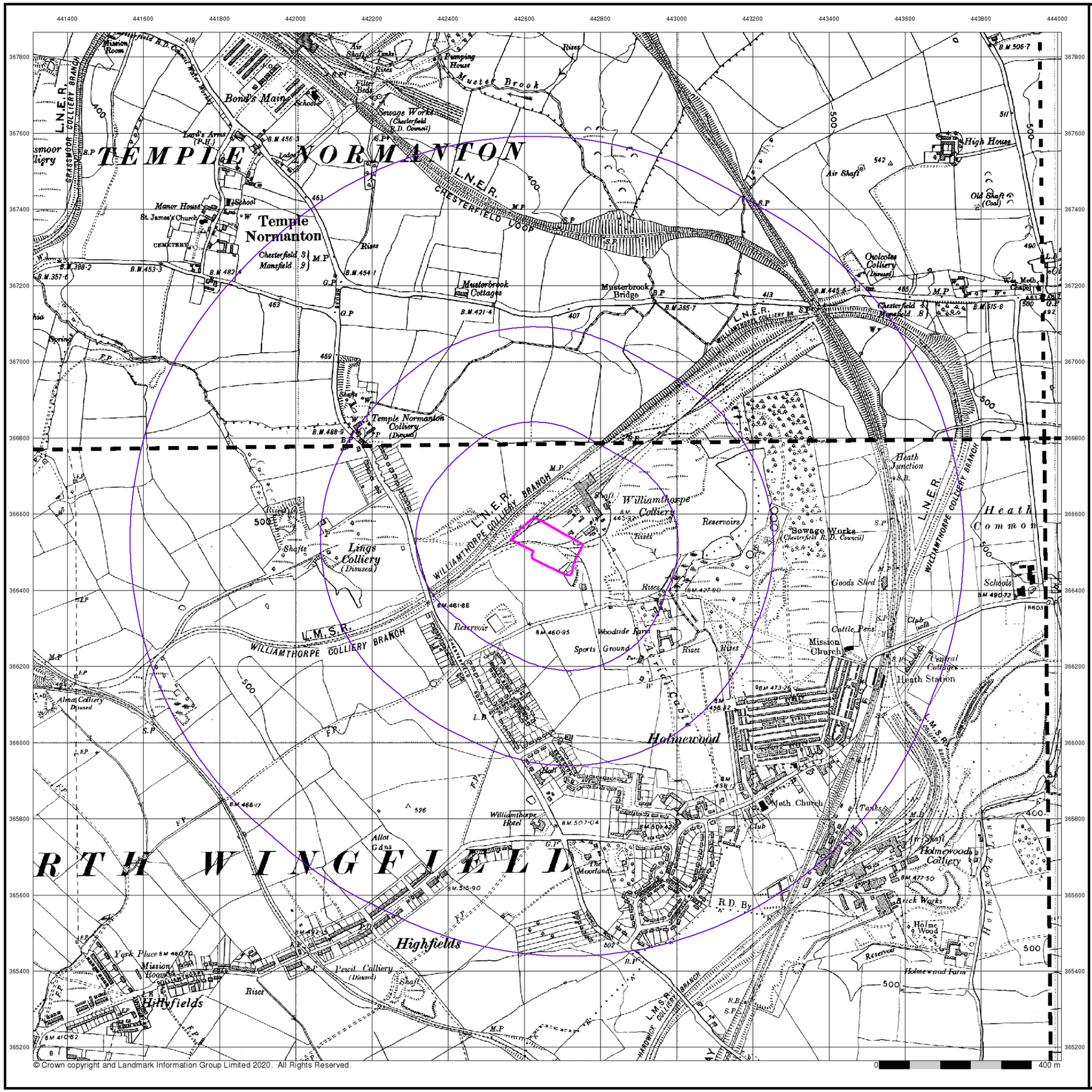

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Derbyshire

Published 1938 - 1939

Source map scale - 1:10,560

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Map Name(s) and Date(s)

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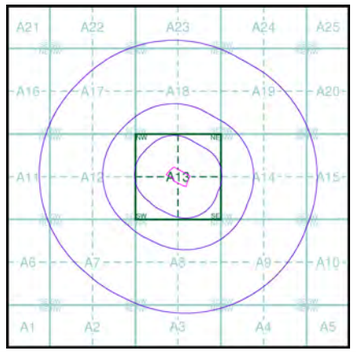
030NE 1939 1:10,560	031NW 1939 1:10,560

Historical Map - Slice A



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
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Slice:	A
Site Area (Ha):	1.48
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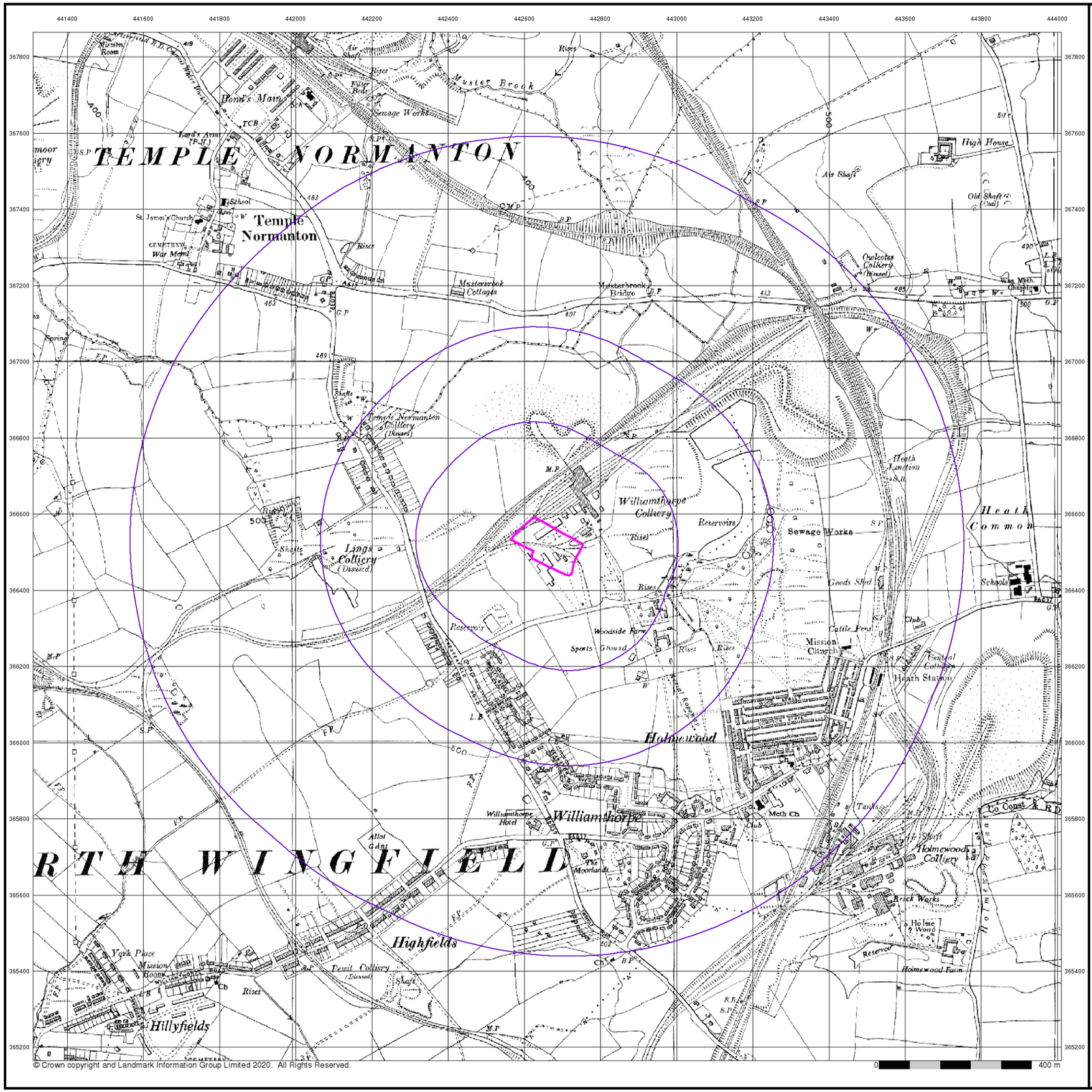

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Ordnance Survey Plan

Published 1955

Source map scale - 1:10,000

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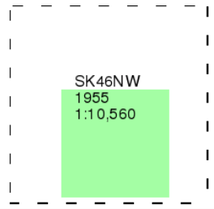
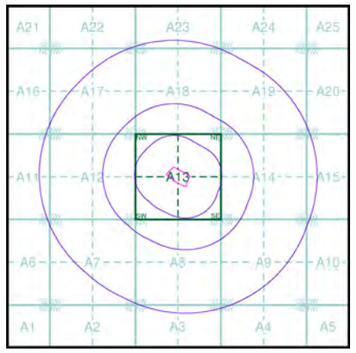
Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
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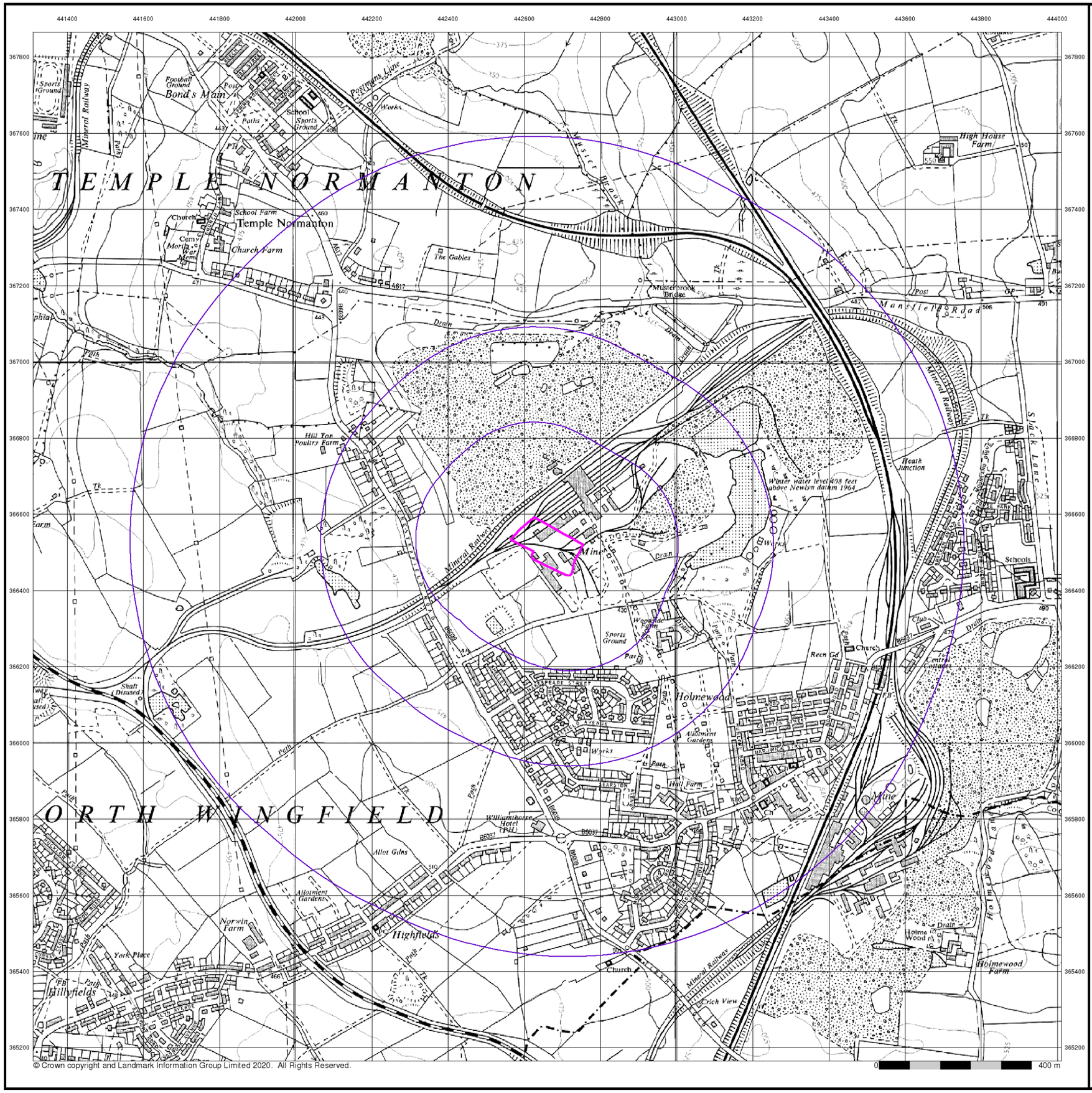

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Ordnance Survey Plan

Published 1967

Source map scale - 1:10,000

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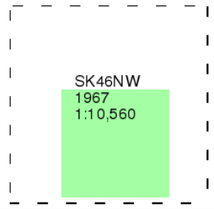
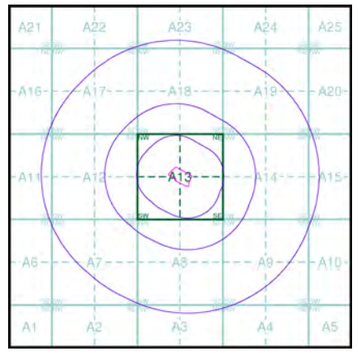
Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
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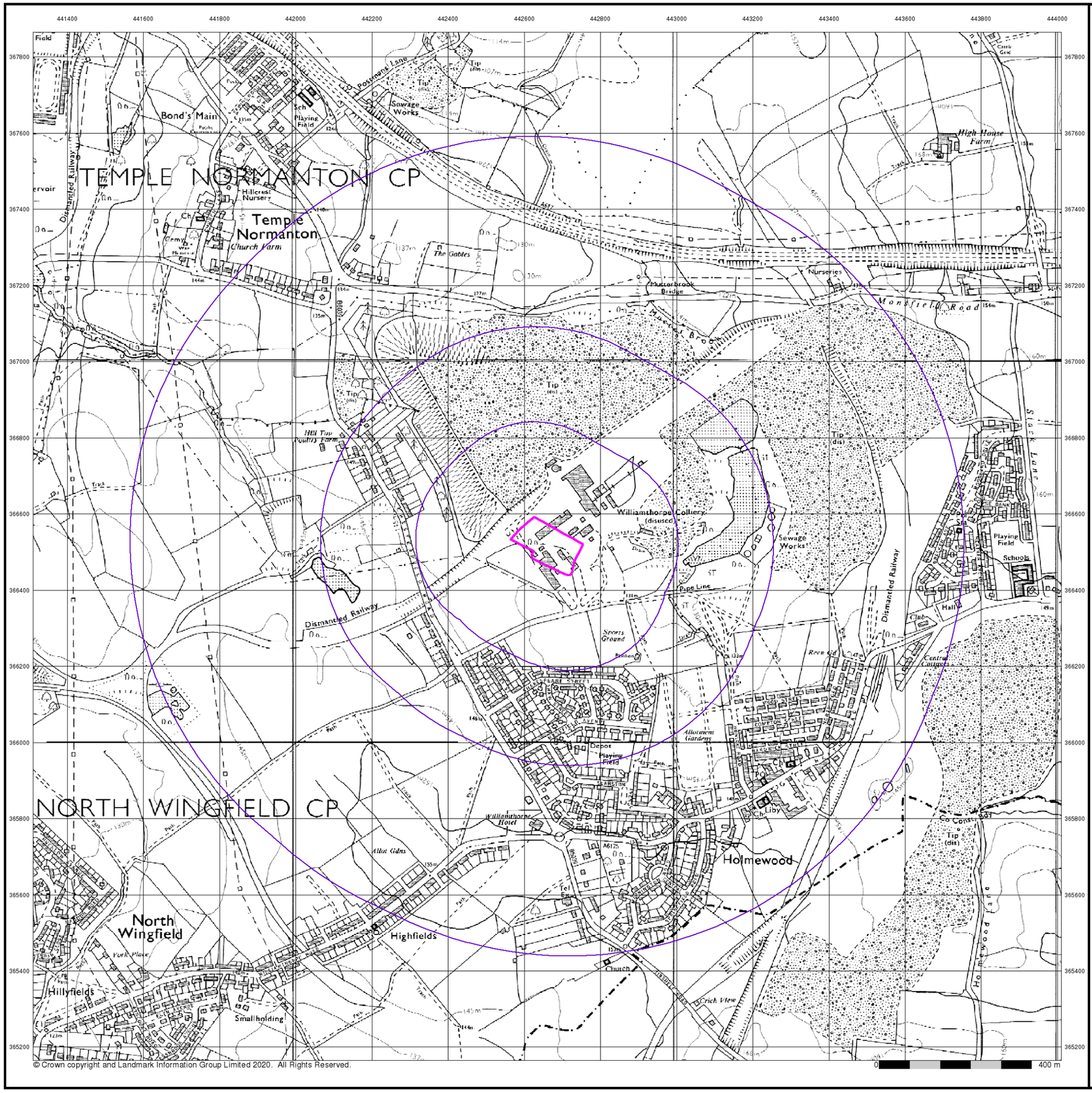

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Ordnance Survey Plan
Published 1974
Source map scale - 1:10,000

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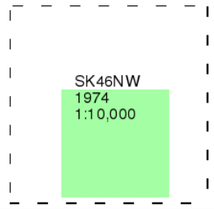
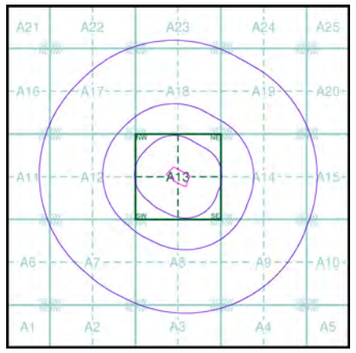
Map Name(s) and Date(s)



Historical Map - Slice A



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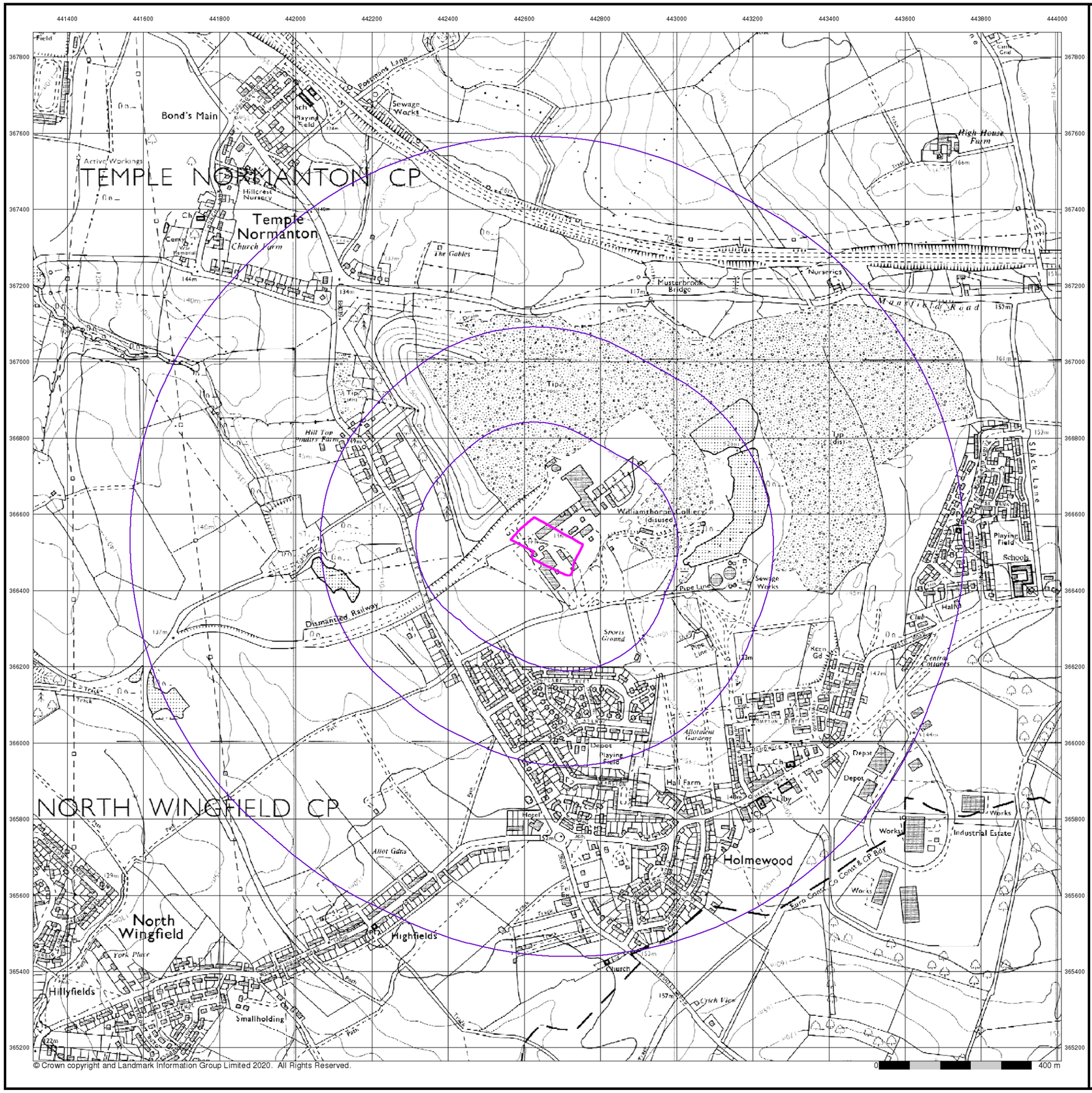

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Ordnance Survey Plan

Published 1982

Source map scale - 1:10,000

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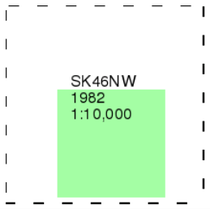
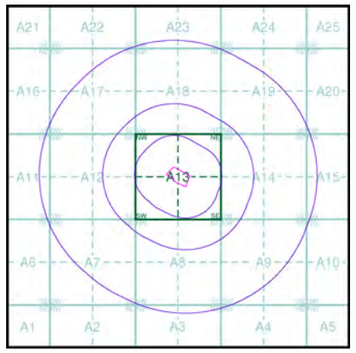
Map Name(s) and Date(s)



Historical Map - Slice A



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Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

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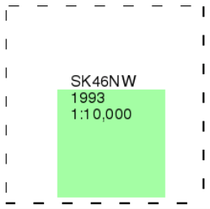
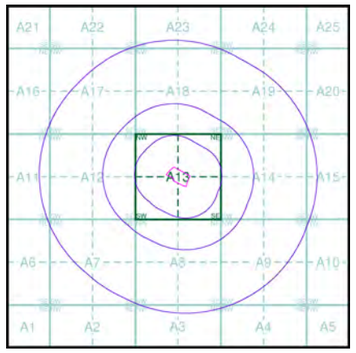
Map Name(s) and Date(s)



Historical Map - Slice A



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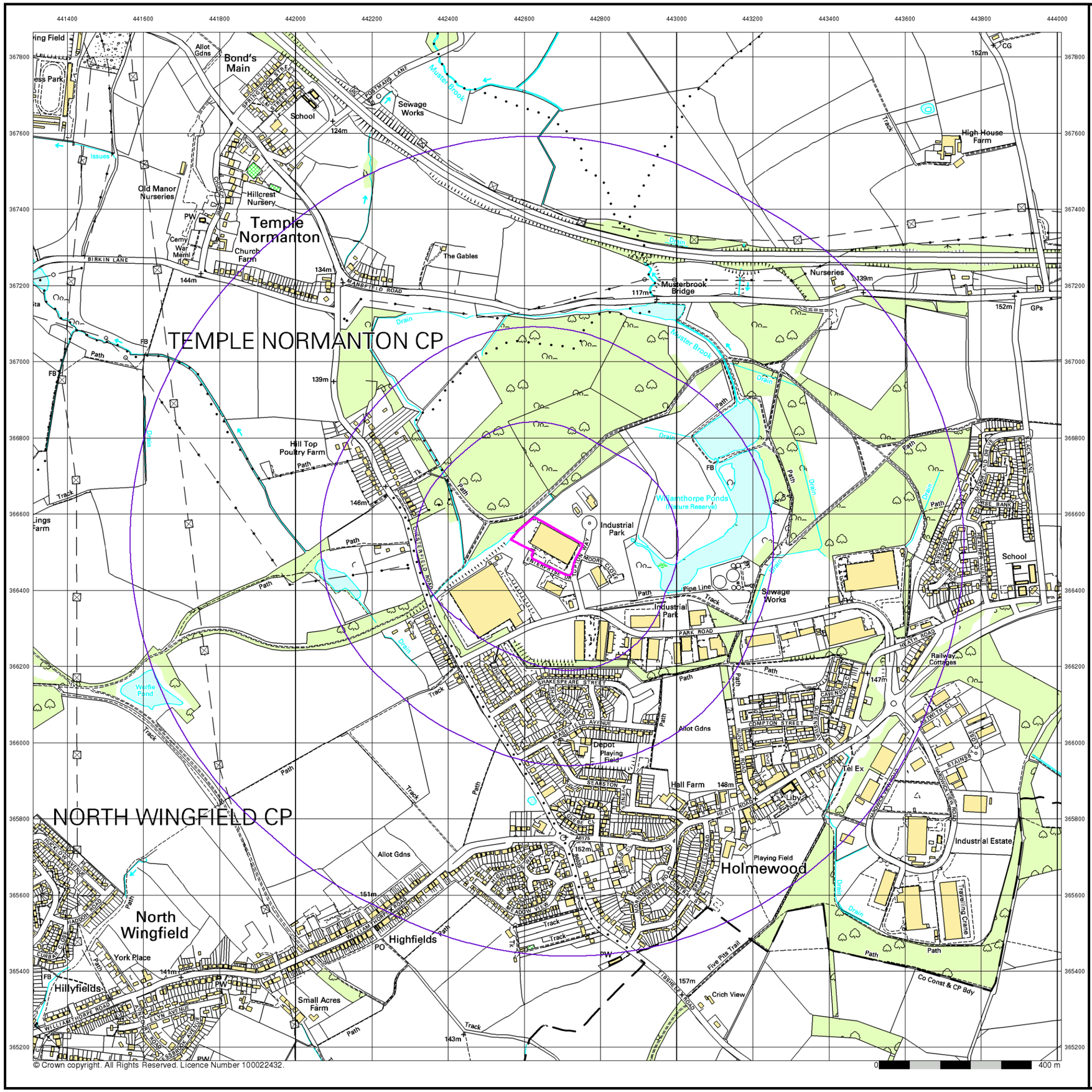

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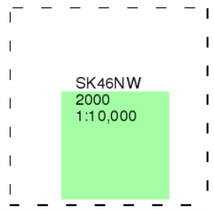
10k Raster Mapping

Published 2000

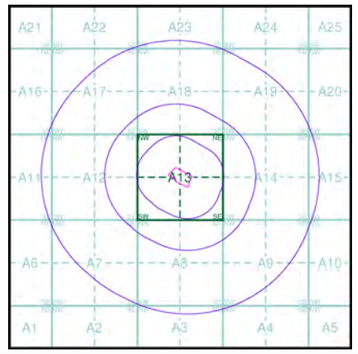
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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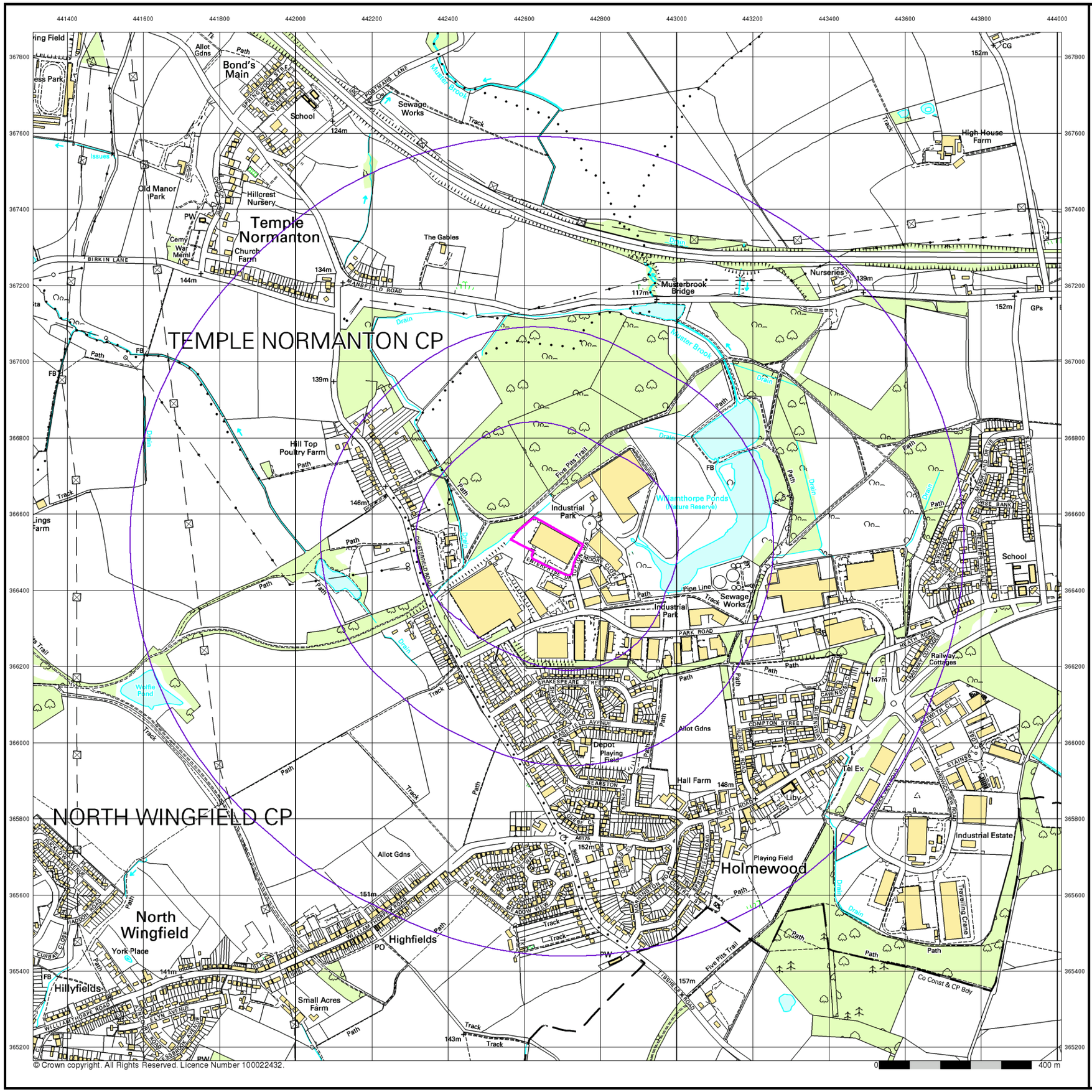

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0 400 m

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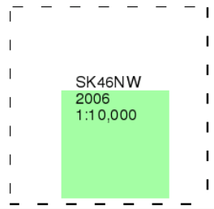
10k Raster Mapping

Published 2006

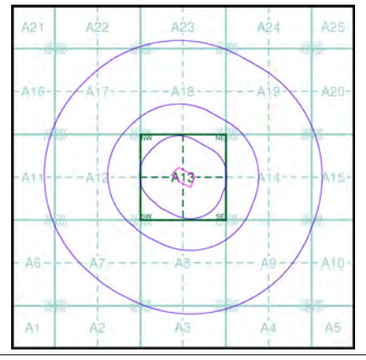
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)



Historical Map - Slice A



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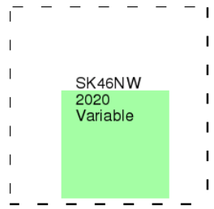
VectorMap Local

Published 2020

Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities),1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



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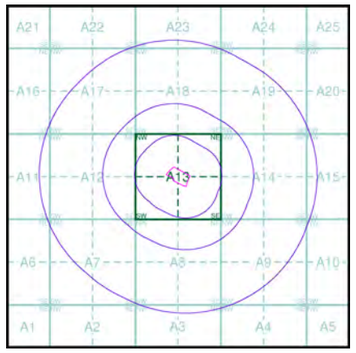

Order Details

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Slice:	A
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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock
Trig. Station
507 Altitude at Trig. Station
B.M.325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)
Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 231.60m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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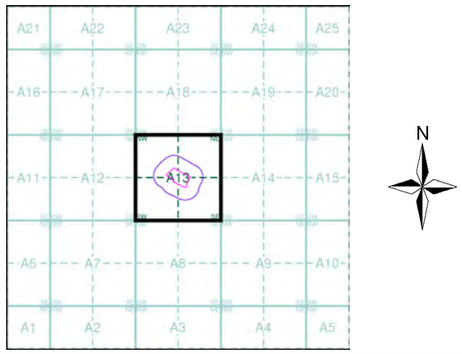
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1877 - 1878	2
Derbyshire	1:2,500	1898	3
Derbyshire	1:2,500	1917 - 1918	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1962	6
Ordnance Survey Plan	1:2,500	1970	7
Additional SIMs	1:2,500	1985	8
Ordnance Survey Plan	1:2,500	1988	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1995	11
Historical Aerial Photography	1:2,500	1999	12

Historical Map - Segment A13



Order Details

Order Number: 234035127_1_1
Customer Ref: 14265
National Grid Reference: 442660, 366520
Slice: A
Site Area (Ha): 1.48
Search Buffer (m): 100

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

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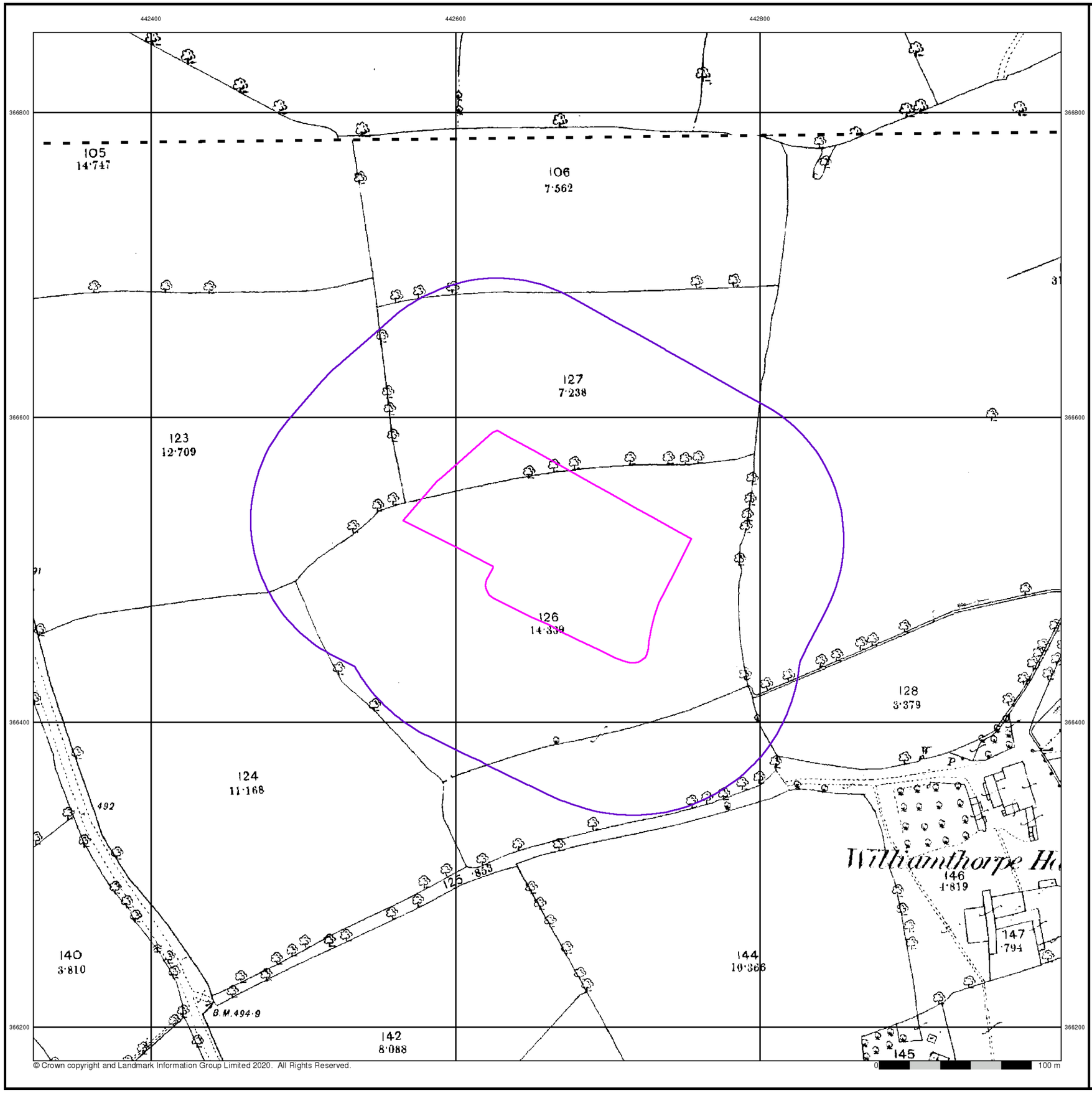

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Derbyshire

Published 1877 - 1878

Source map scale - 1:2,500

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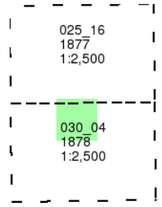
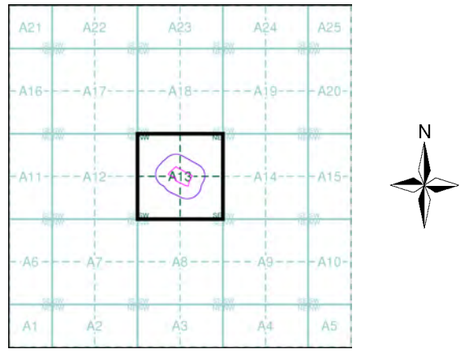
Map Name(s) and Date(s)



Historical Map - Segment A13



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Order Number:	234035127_1_1
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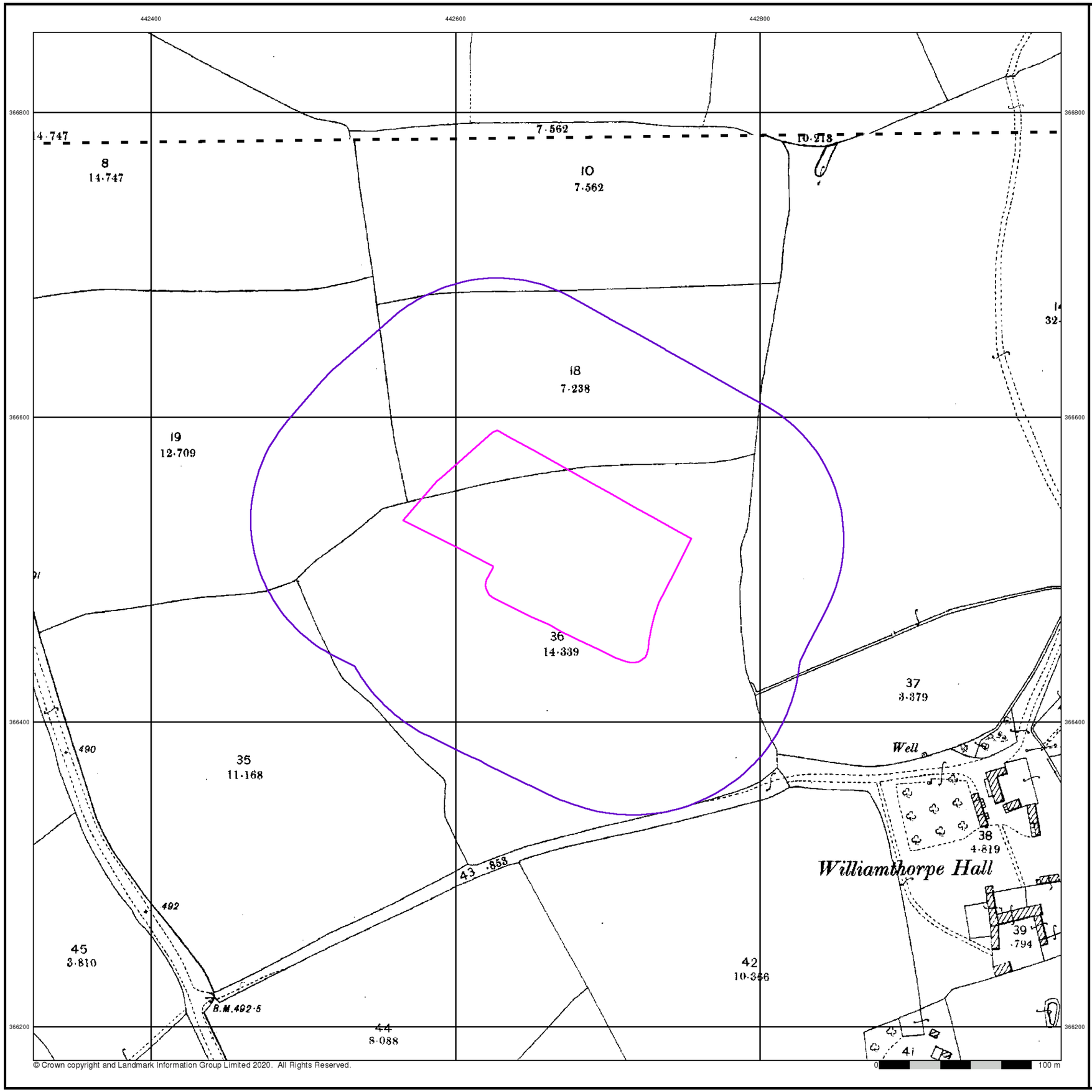

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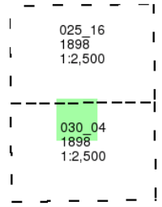
Derbyshire

Published 1898

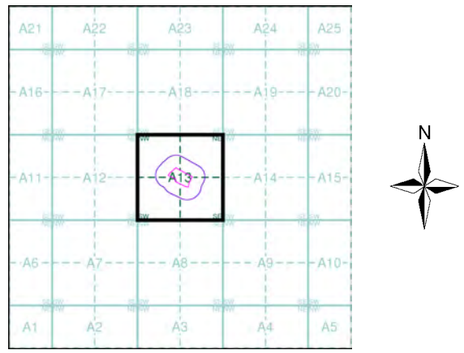
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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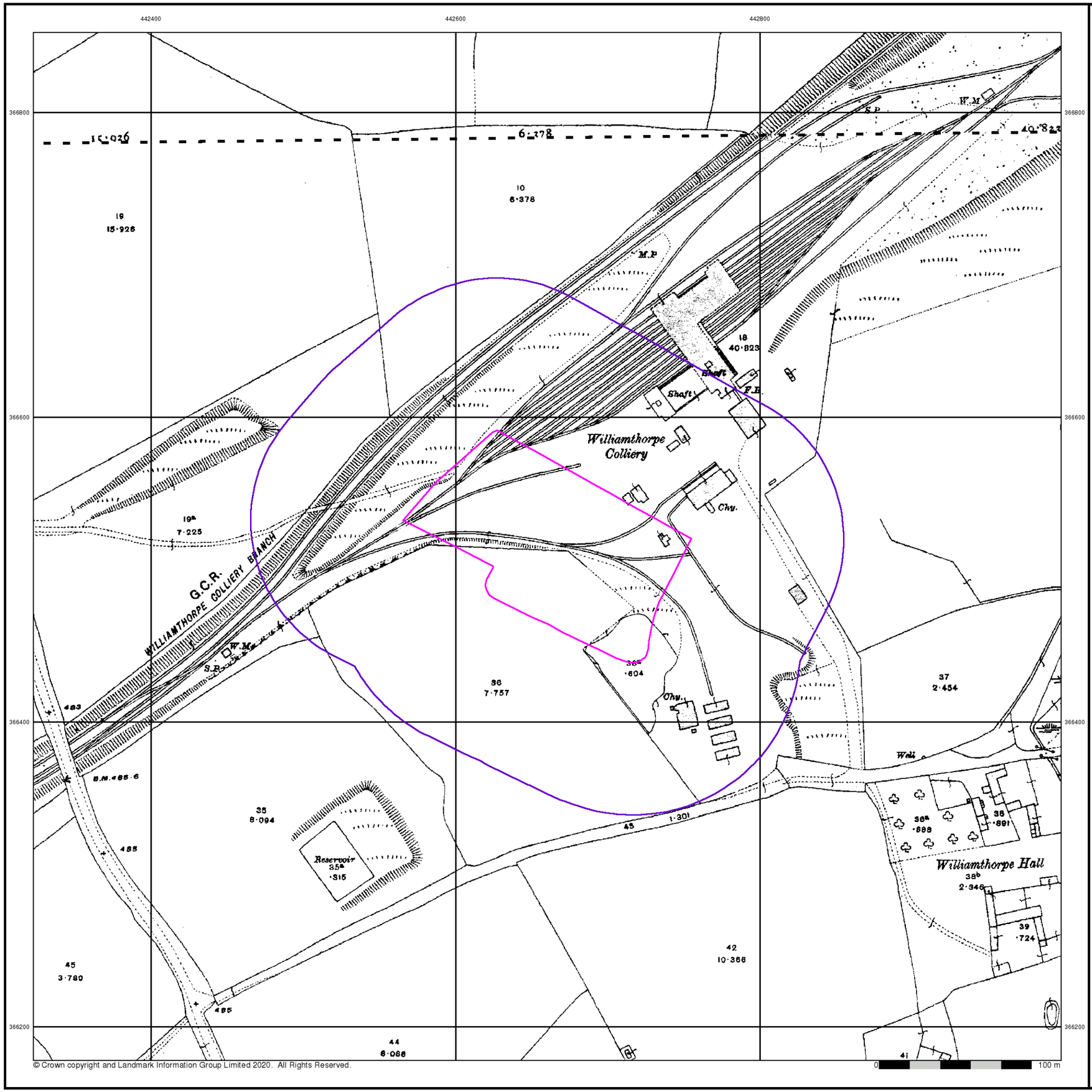

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Derbyshire

Published 1917 - 1918

Source map scale - 1:2,500

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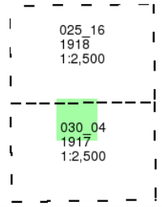
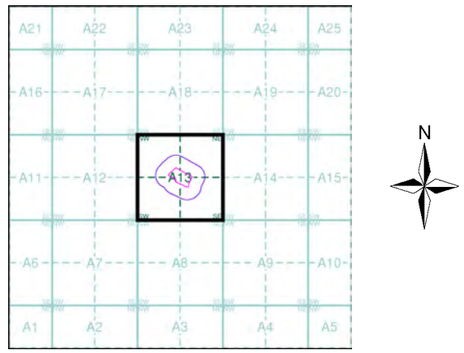
Map Name(s) and Date(s)



Historical Map - Segment A13



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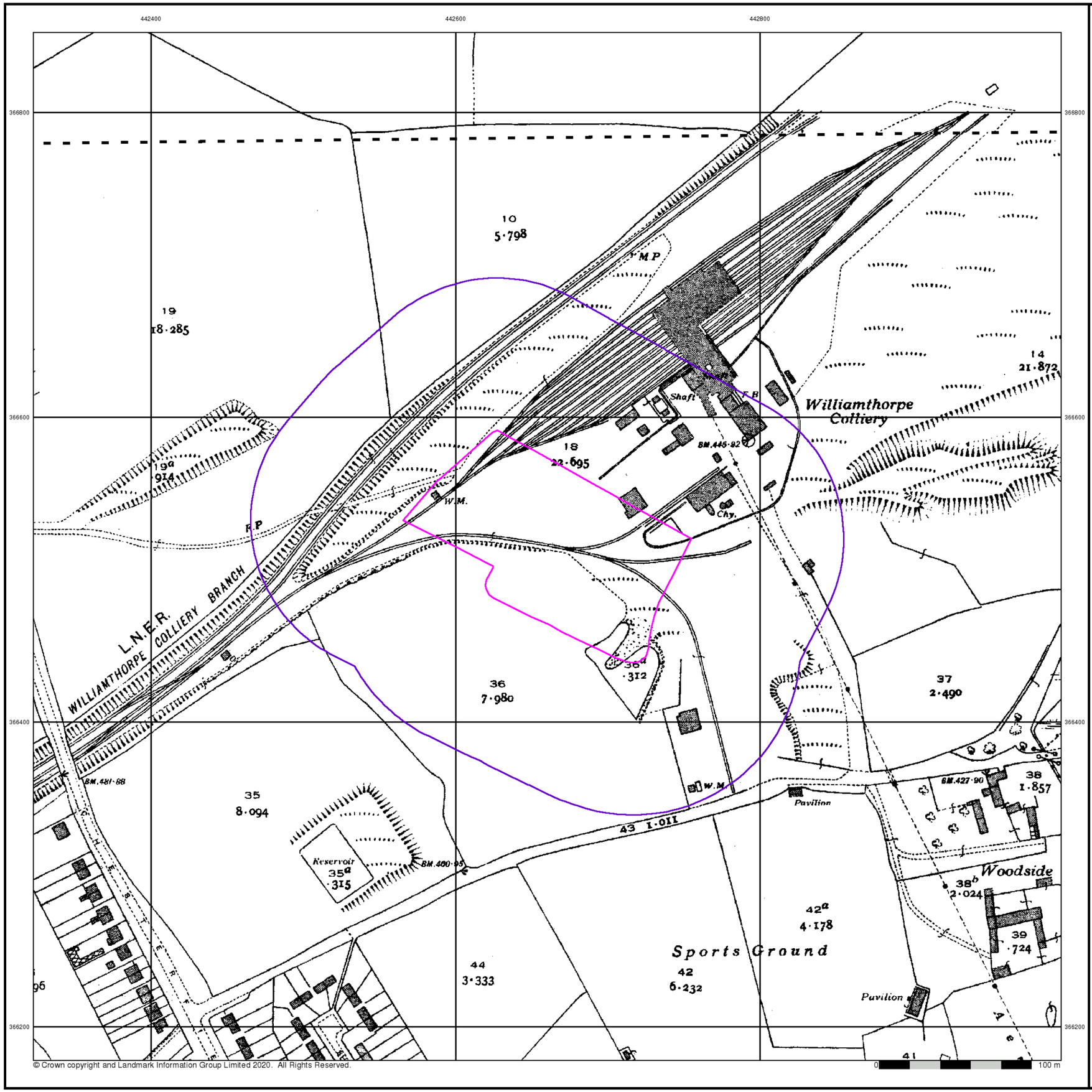

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Derbyshire

Published 1938

Source map scale - 1:2,500

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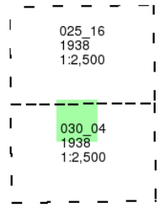
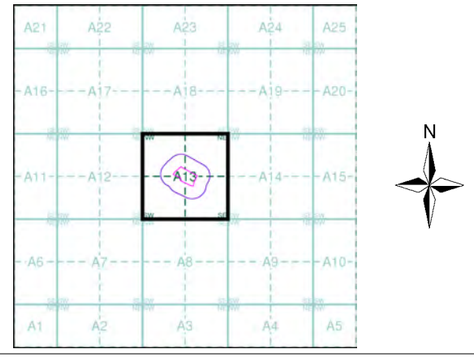
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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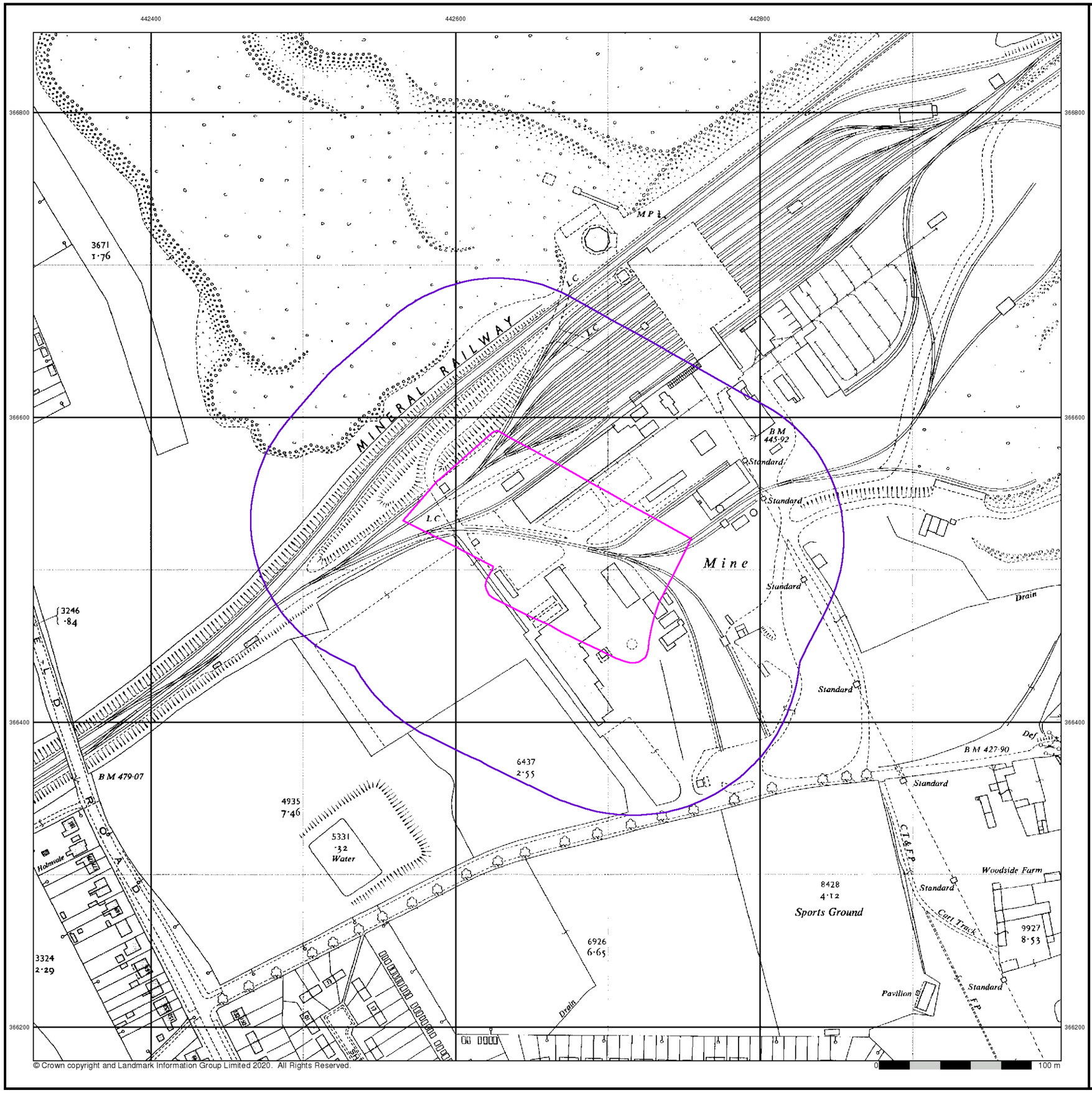

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Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

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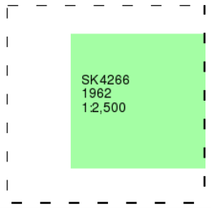
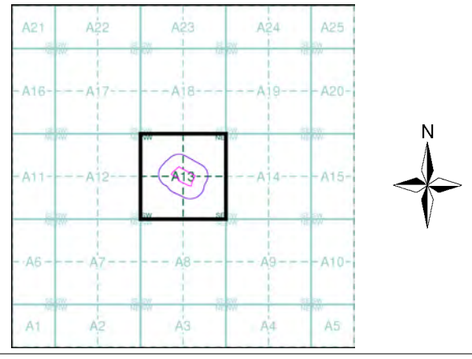


Historical Map - Segment A13



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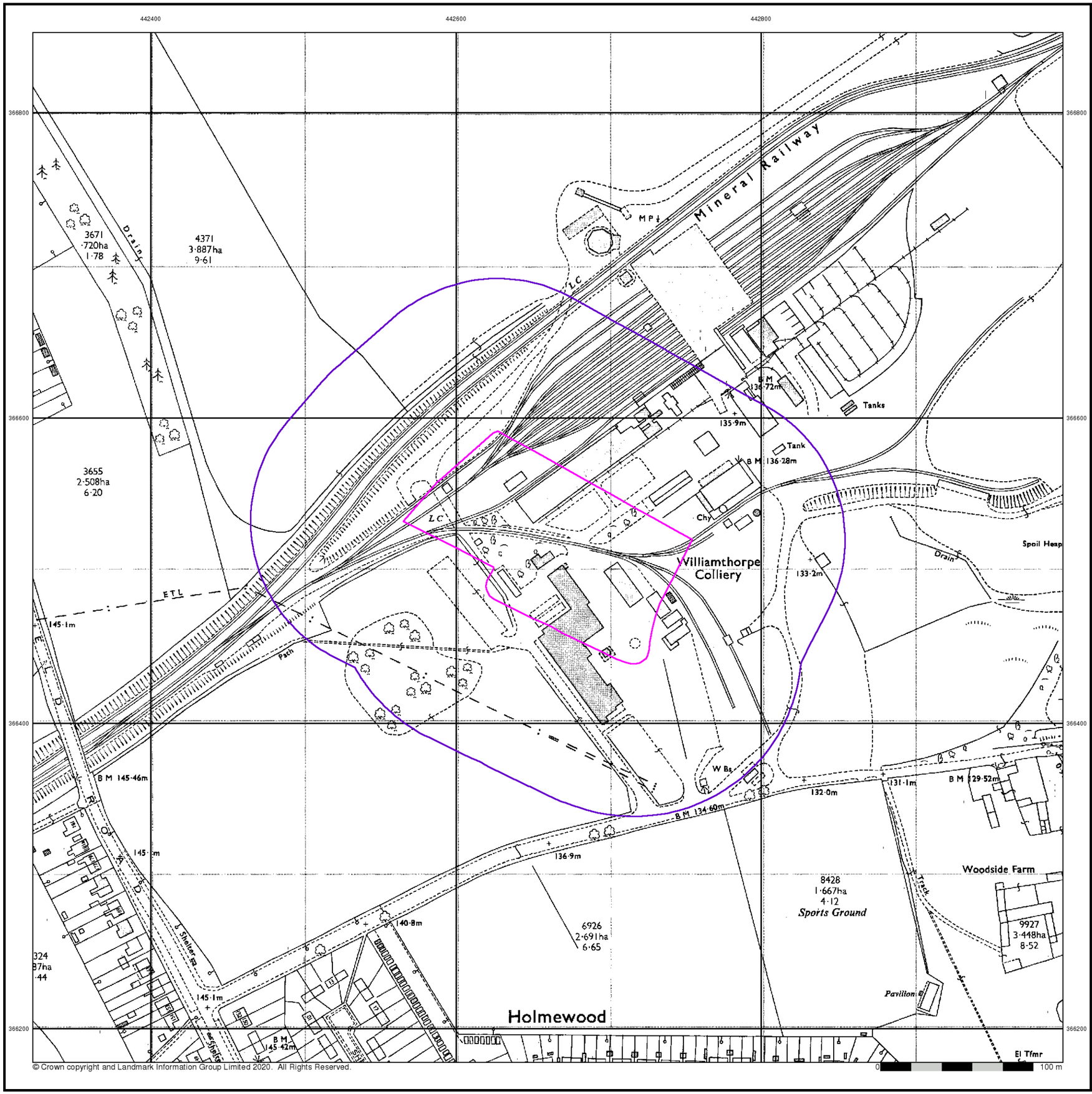

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Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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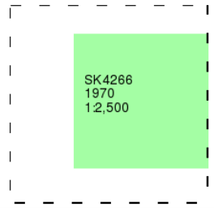
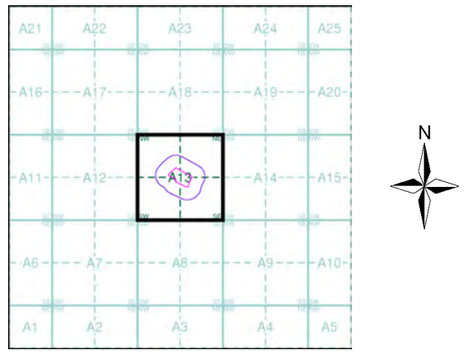
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

Site Details

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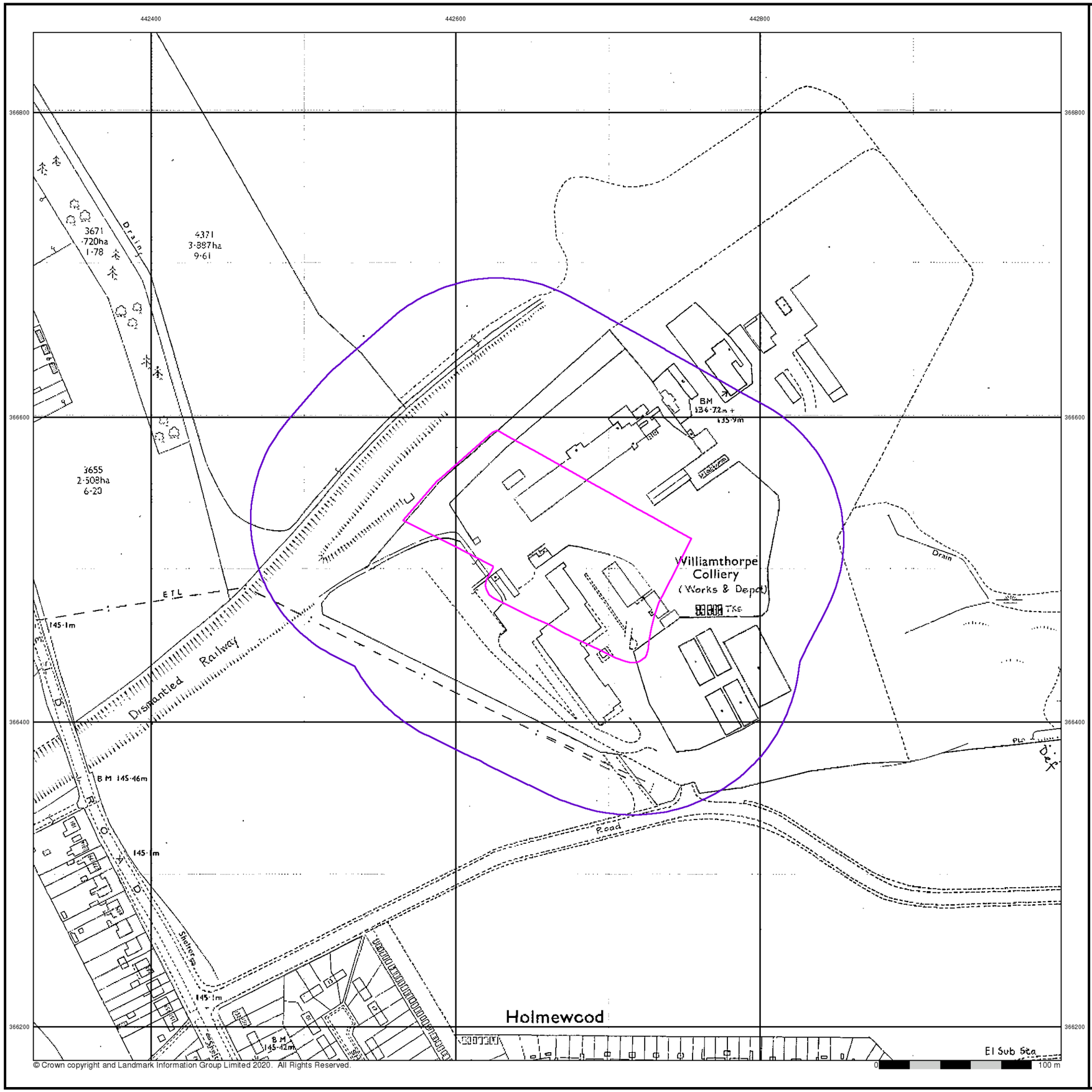

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Additional SIMs

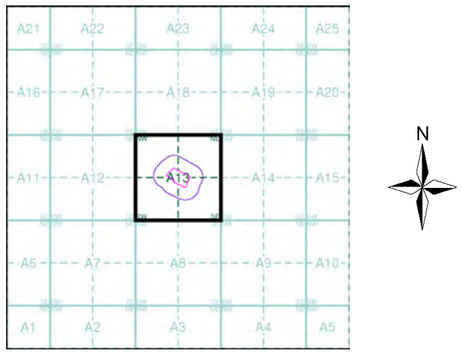
Published 1985

Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

Historical Map - Segment A13



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Site Area (Ha):	1.48
Search Buffer (m):	100

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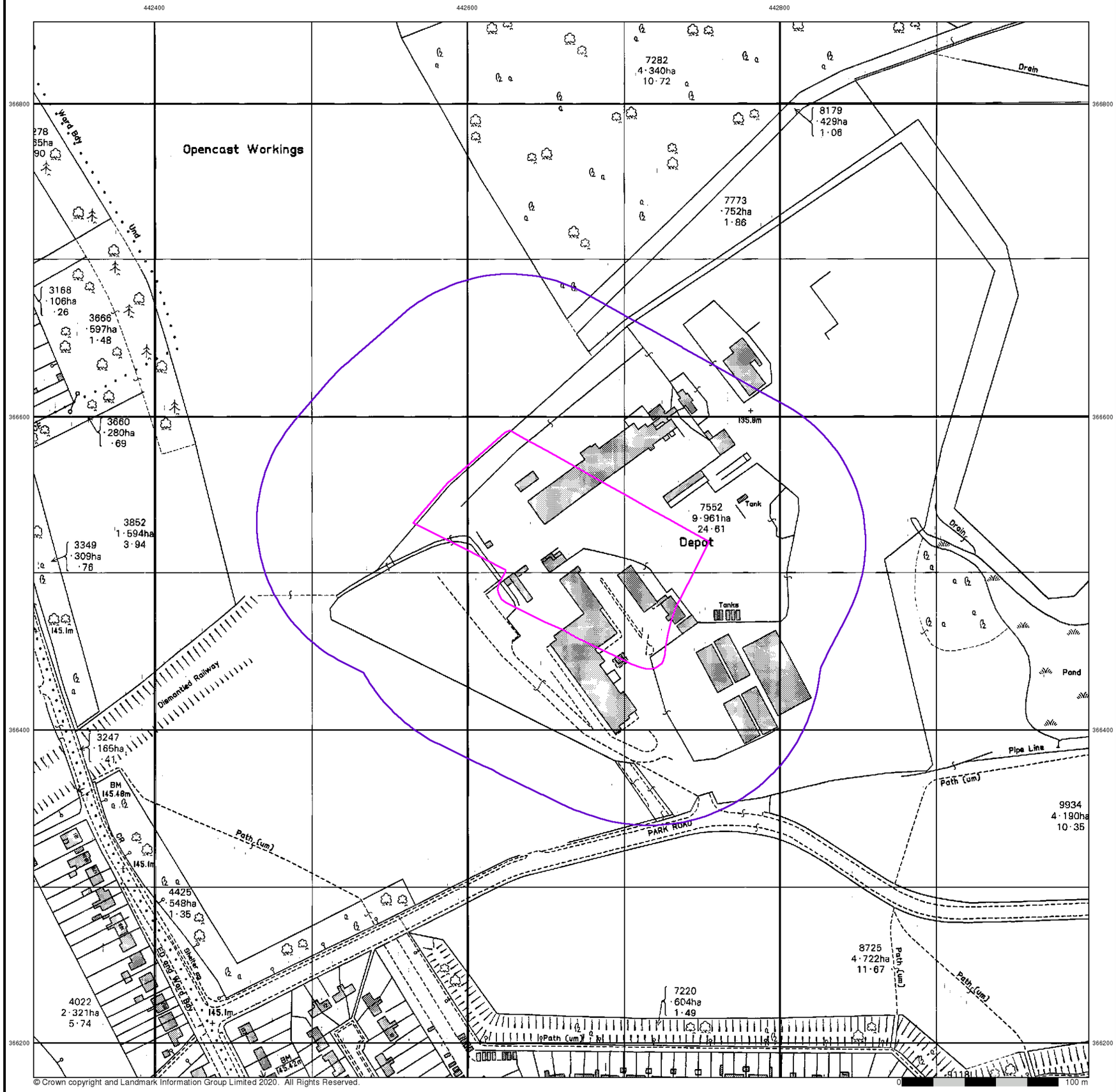

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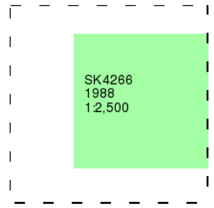
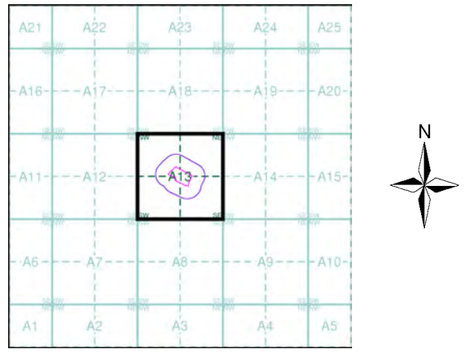
Ordnance Survey Plan
Published 1988
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

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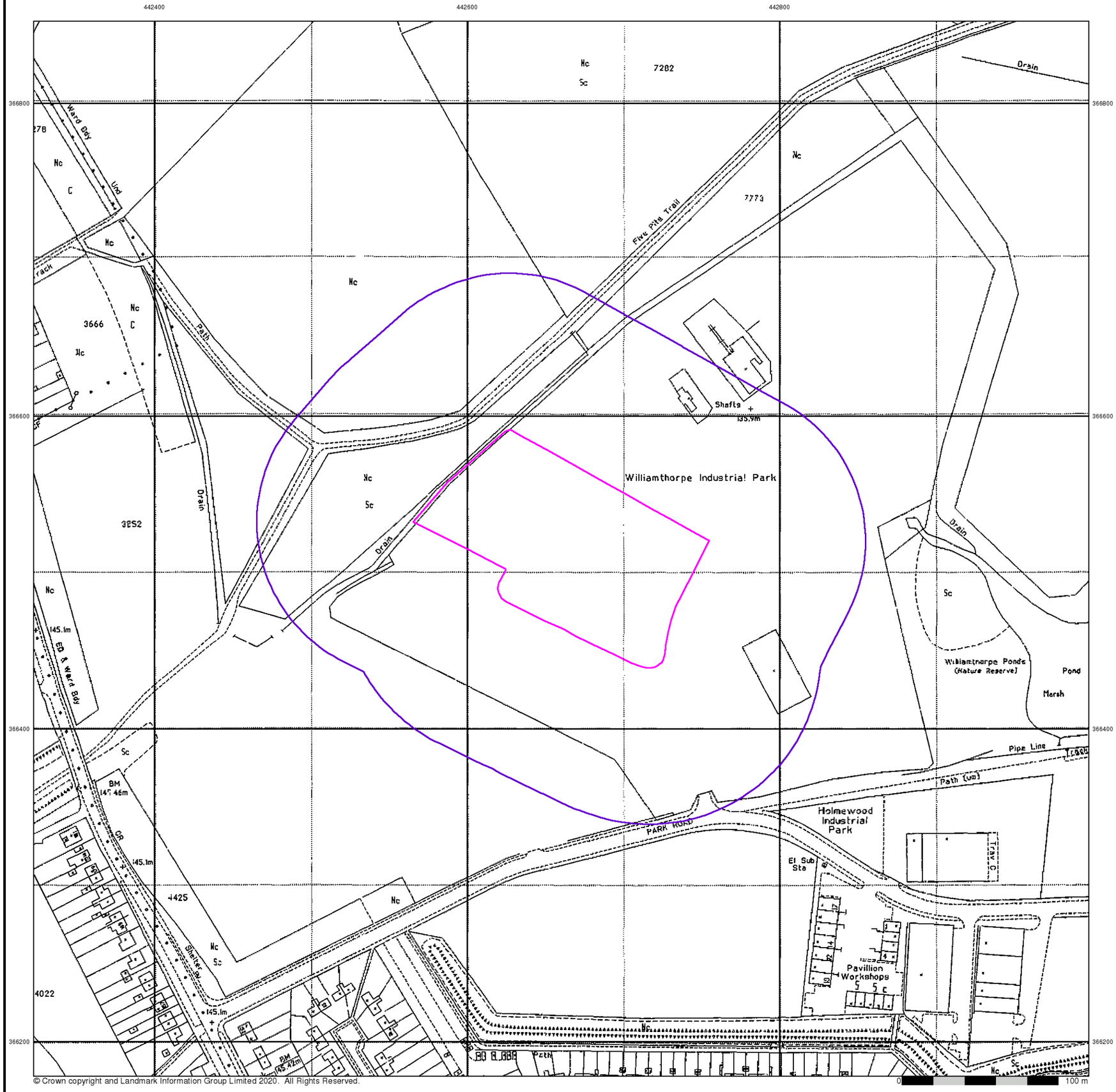

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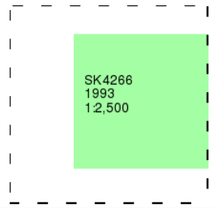
Large-Scale National Grid Data

Published 1993

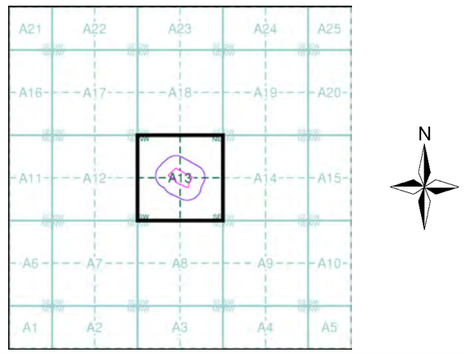
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

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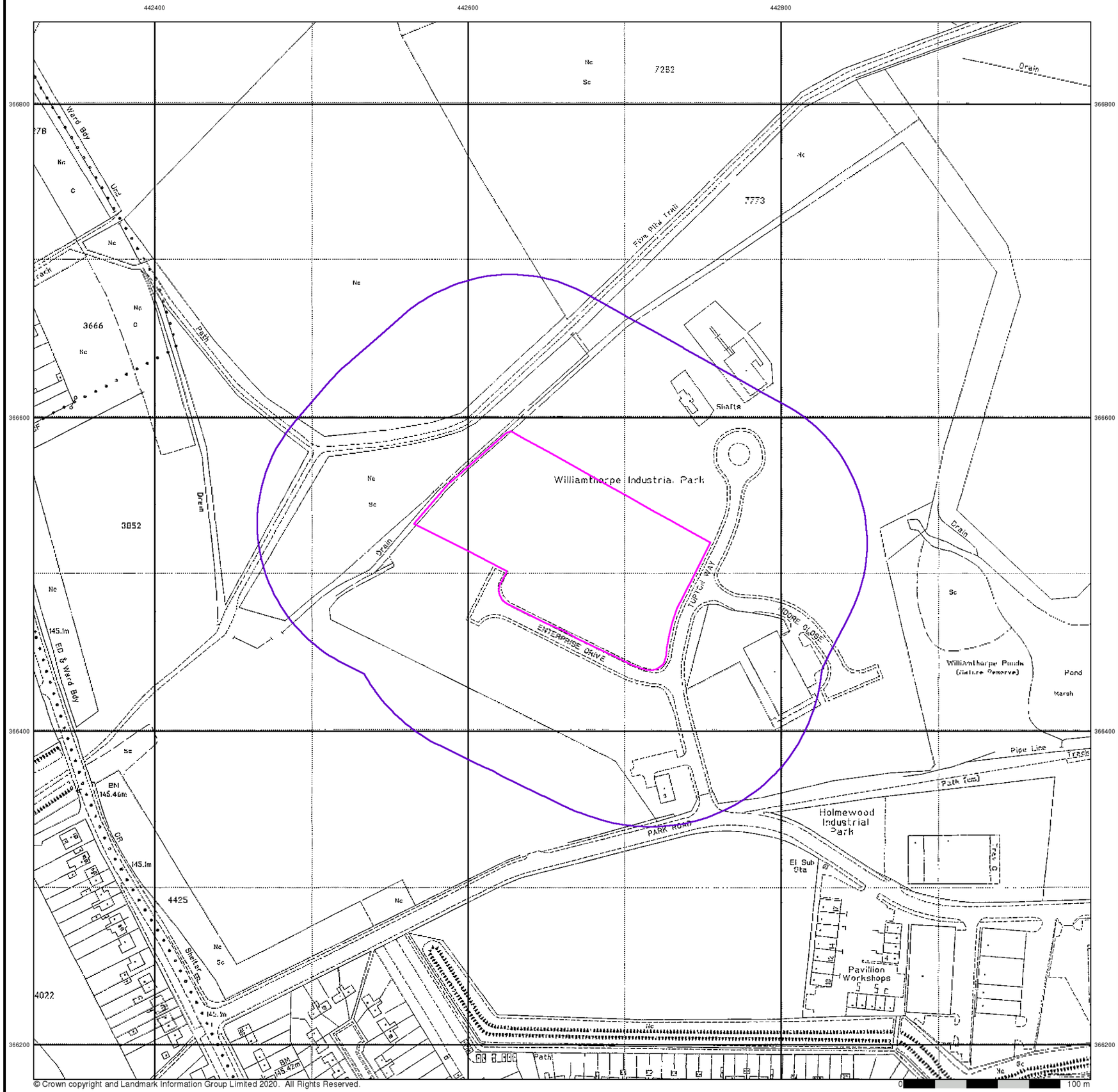

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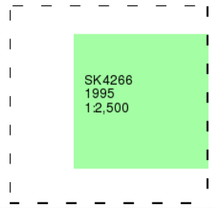
Large-Scale National Grid Data

Published 1995

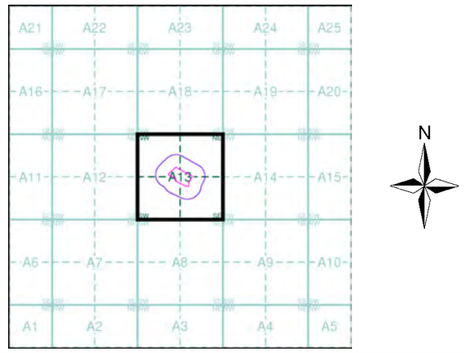
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

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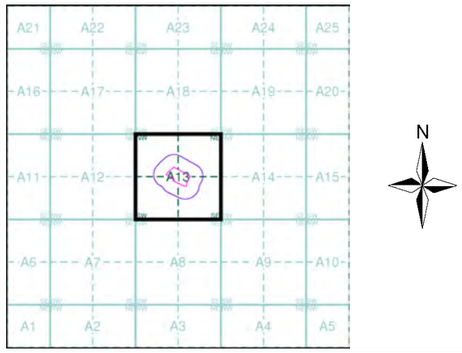
Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

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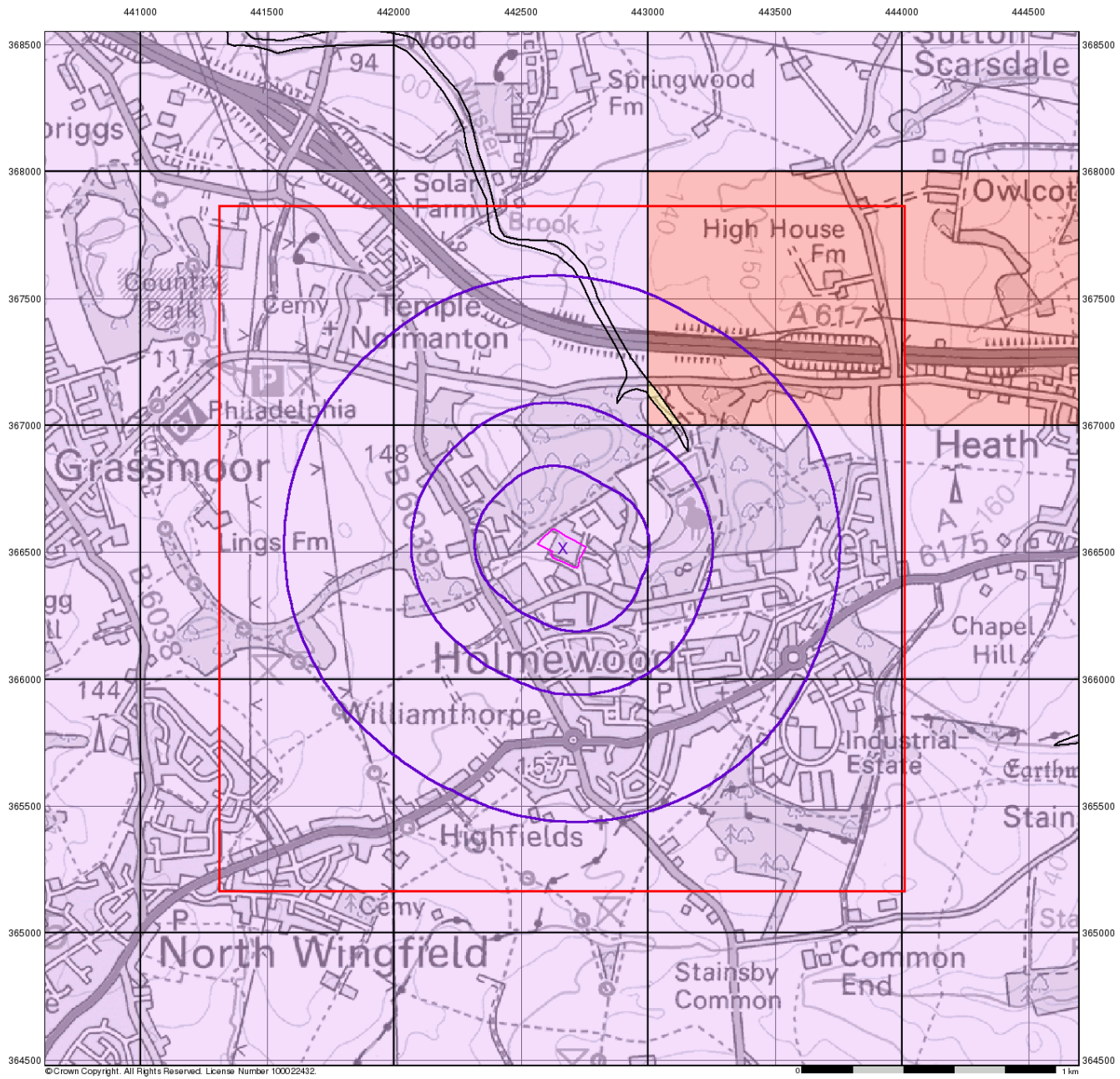
Appendix 3: Landmark Envirocheck Report



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Groundwater Vulnerability

General

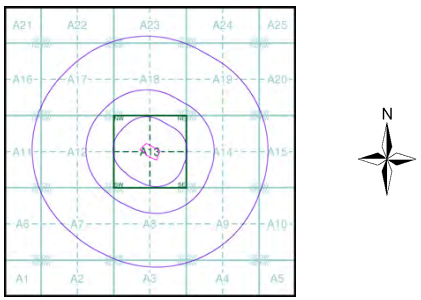
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A



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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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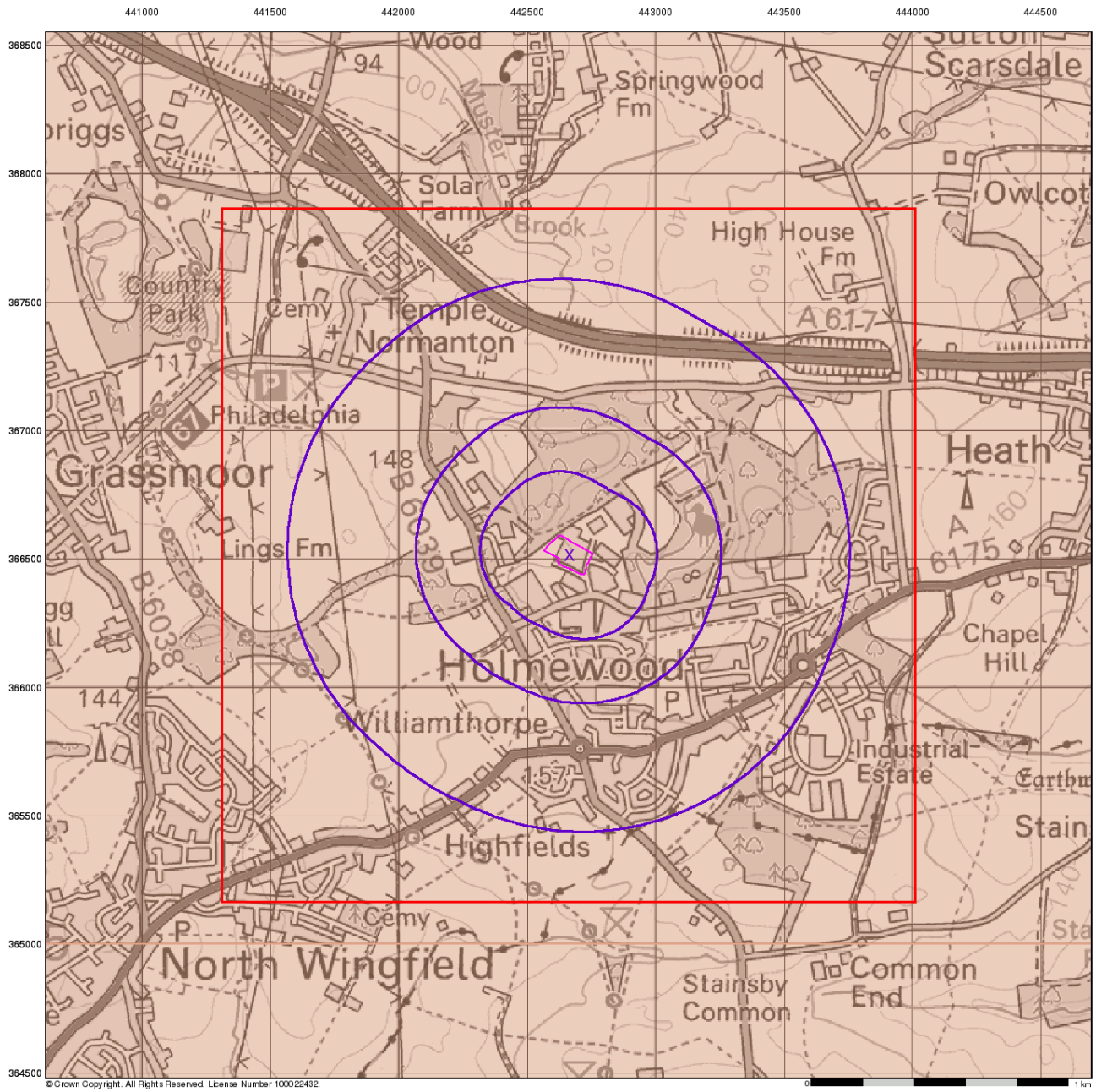

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Bedrock Aquifer Designation

General

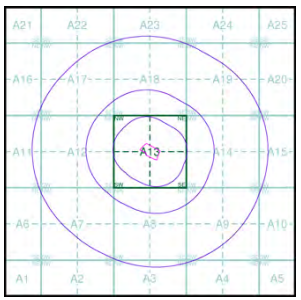
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

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



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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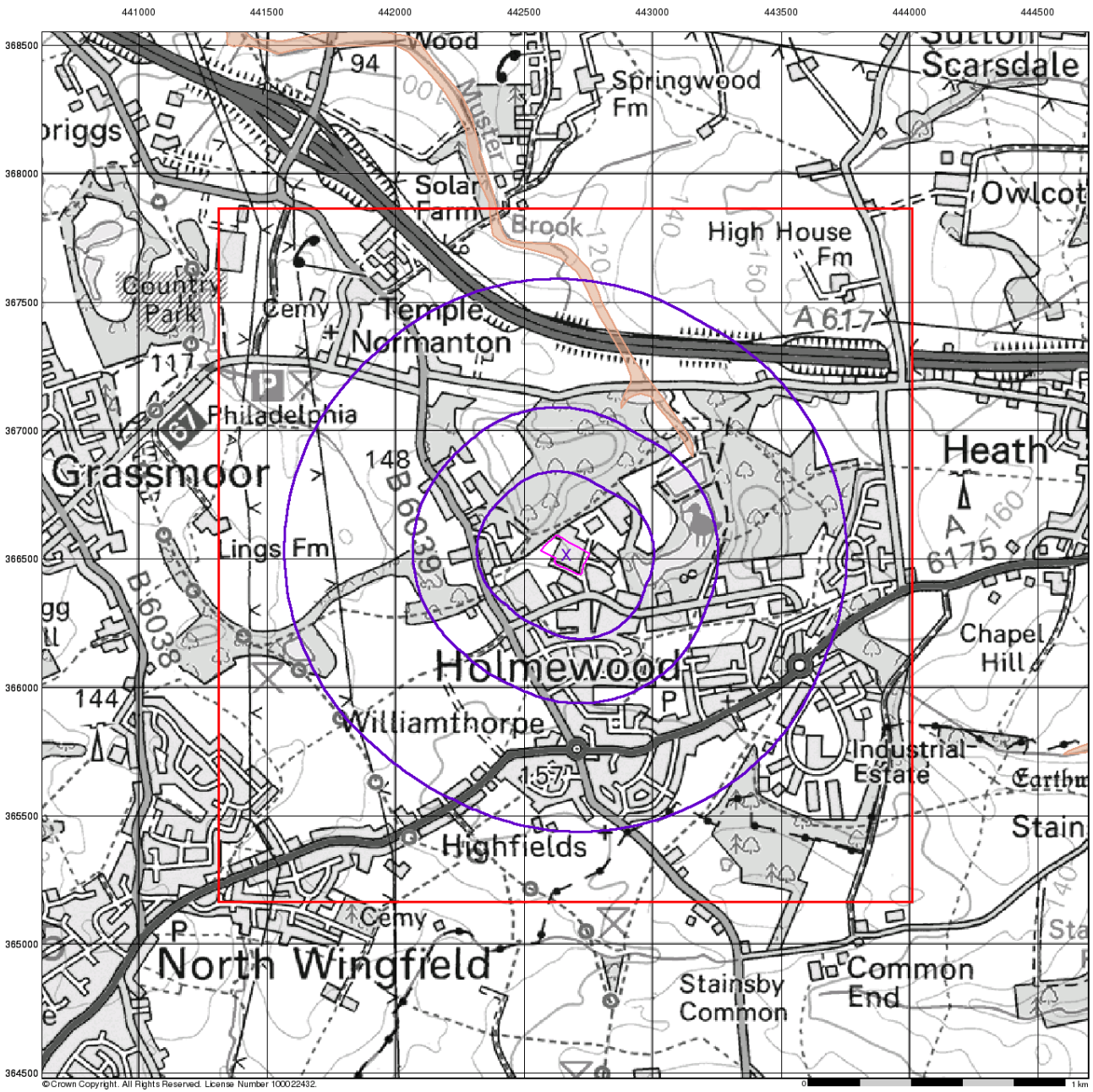

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Superficial Aquifer Designation

General

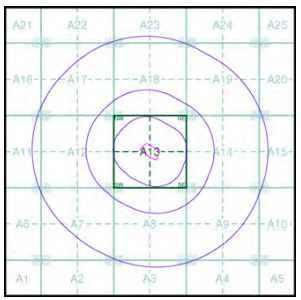
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

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



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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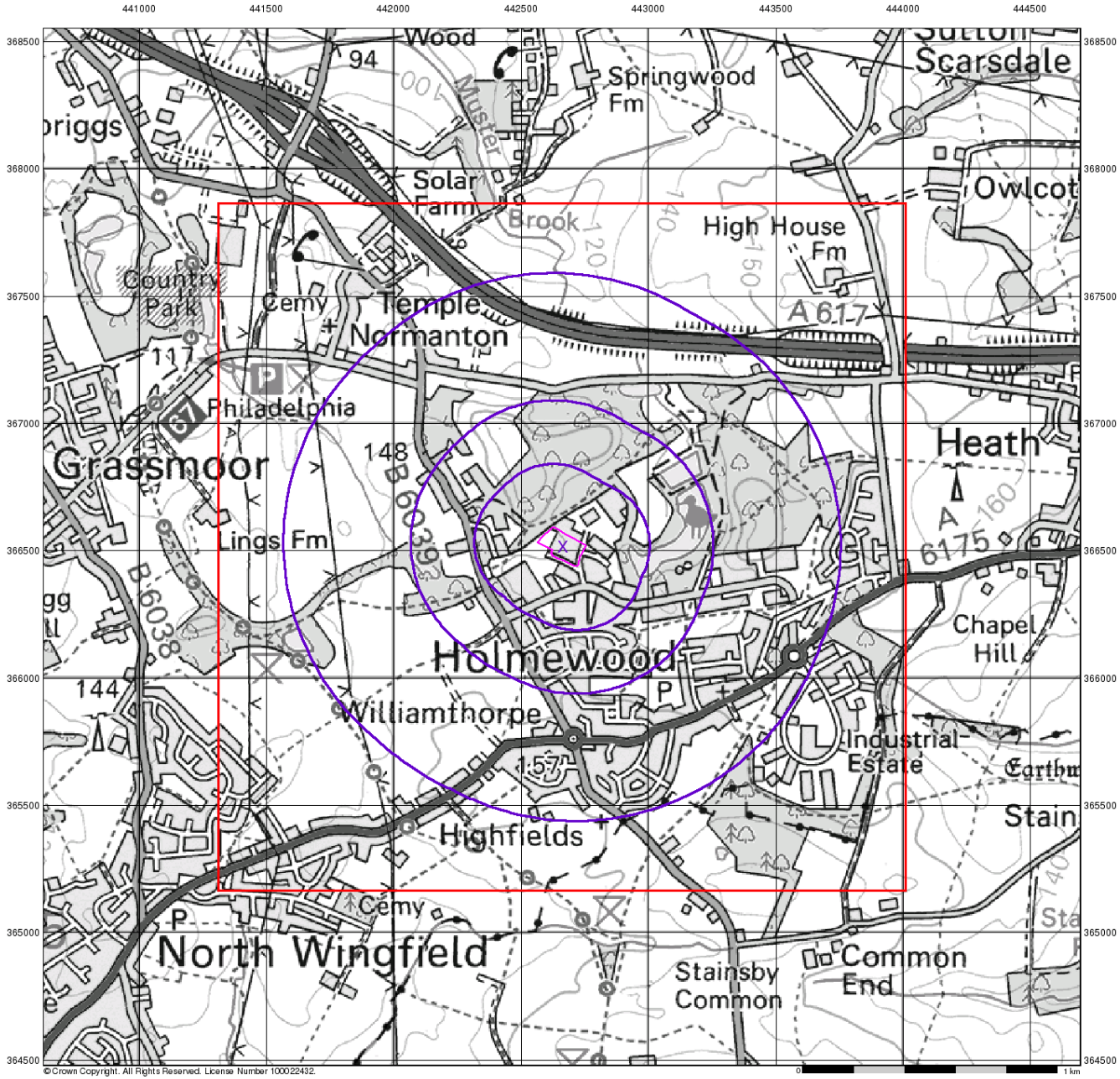

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Source Protection Zones

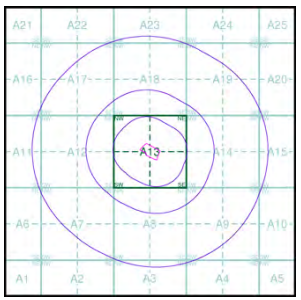
General

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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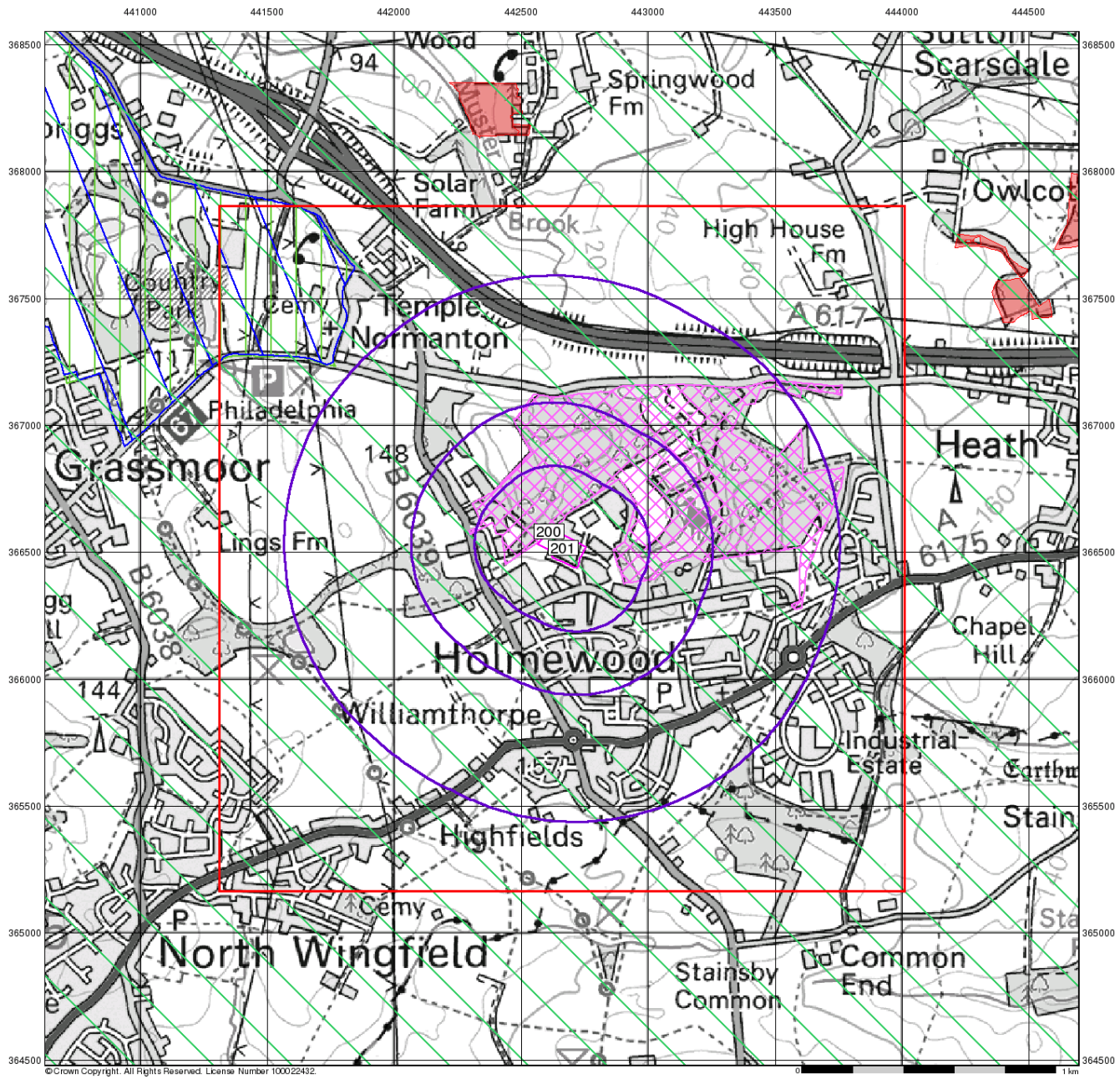

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Sensitive Land Uses

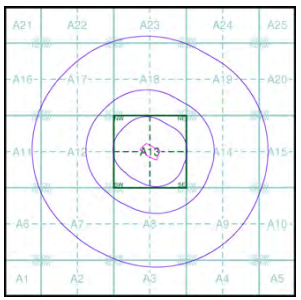
General

- 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



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Order Details

Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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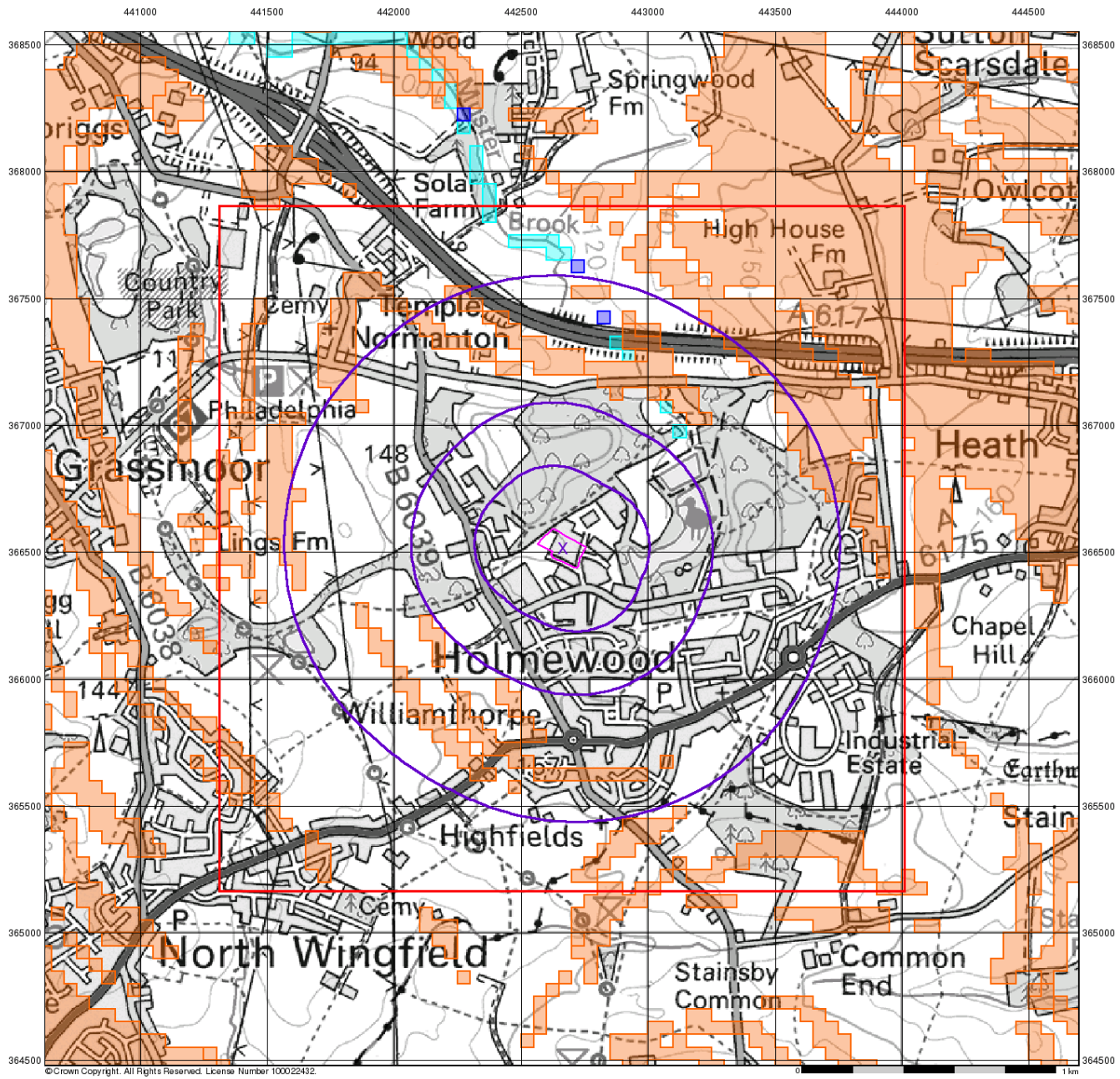

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BGS Flood GFS Data

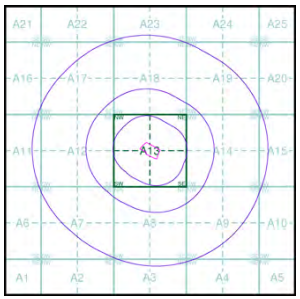
General

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



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Order Details

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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
234035127_1_1

Customer Reference:
14265

National Grid Reference:
442660, 366520

Slice:
A

Site Area (Ha):
1.48

Search Buffer (m):
1000

Site Details:

CBE Plus Limited
Enterprise Drive
Holmewood
CHESTERFIELD
S42 5UZ

Client Details:

Mr M Kelly
ECUS
Brook Holt
Blackburn Road
Sheffield
S61 2DW

Contents

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Industrial Land Use	29
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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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Summary

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	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			29	3
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 9				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 9		3		2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 10			6	4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 11			1	
River Quality	pg 11				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 12			1	
Water Abstractions	pg 12			4	(*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	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 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			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 14		13	15	42

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Summary

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					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 23	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 23	1	1	2	2
Potentially Infilled Land (Water)	pg 23		2	7	14
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 25		1		1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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Summary

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 26	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 26	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 27		1	1	1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 28	Yes	n/a	n/a	n/a
Mining Instability	pg 28	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 28	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 28	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 28	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			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 29	2	38	20	28
Fuel Station Entries	pg 37				2
Points of Interest - Commercial Services	pg 37		7	4	13
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 39		6		5
Points of Interest - Public Infrastructure	pg 40			2	9
Points of Interest - Recreational and Environmental	pg 41			1	4
Gas Pipelines					
Underground Electrical Cables					

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 42	1			
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 42	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	A12SE (SW)	495	1	442200 366200
1	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Tibshelf Road Pumping Station North Wingfield, Holmewood, Chesterfield, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7683 Permit Version: 1 Effective Date: 6th March 2001 Issued Date: 6th March 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Muster Brook **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	A13SE (SE)	253	2	442970 366380
1	**Discharge Consents** Operator: Chesterfield Borough Council Property Type: Industrial Parks & Estates Location: Williamthorpe Industrial Park, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Rother (Yorkshire) Reference: WRA6620 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 6th March 1992 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13SE (E)	269	2	442990 366390
2	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hunloke Road Cso Hunloke Road Adjacent No 70, Holmewood, Chesterfield, Derbyshire, S42 5ru Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 1606 Permit Version: 1 Effective Date: 27th July 1963 Issued Date: 27th July 1963 Revocation Date: 27th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Muster Brook **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	277	2	443030 366490
3	**Discharge Consents** Operator: Uk Coal Thoresby Limited Property Type: MINING OF COAL + LIGNITE Location: Williamthorpe Colliery, Holmewood, Nr Chesterfield, South Yorks Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E888 Permit Version: 1 Effective Date: 19th June 1984 Issued Date: 19th June 1984 Revocation Date: Not Supplied Discharge Type: Trade Discharge - Mineral Workings Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Muster Brook **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	297	2	443050 366550

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hunloke Road Cso Hunloke Road Adjacent No 70, Holmewood, Chesterfield, Derbyshire, S42 5ru Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 1606 Permit Version: 2 Effective Date: 28th March 2003 Issued Date: 28th March 2003 Revocation Date: 25th October 2017 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Muster Brook **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	305	2	443030 366390
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hunloke Road Cso Hunloke Road Adjacent No 70, Holmewood, Chesterfield, Derbyshire, S42 5ru Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 1606 Permit Version: 3 Effective Date: 26th October 2017 Issued Date: 26th October 2017 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Muster Brook **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	309	2	443036 366393
5	**Discharge Consents** Operator: Chesterfield Borough Council Property Type: Industrial Parks & Estates Location: Williamthorpe Industrial Park, Holmewood, CHESTERFIELD, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Rother (Yorkshire) Reference: WRA6620 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm Sewage Discharge Environment: Pond/Lake Receiving Water: Williamthorpe Pond **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	332	2	442940 366795
5	**Discharge Consents** Operator: Chesterfield Borough Council Property Type: Industrial Parks & Estates Location: Williamthorpe Industrial Estate, Holmewood, CHESTERFIELD, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Rother (Yorkshire) Reference: WRA6620 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm Sewage Discharge Environment: Pond/Lake Receiving Water: Williamthorpe Pond **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	336	2	442940 366800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 8 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 8 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 7 Effective Date: 16th March 2005 Issued Date: 16th March 2005 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 7 Effective Date: 16th March 2005 Issued Date: 16th March 2005 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 6 Effective Date: 31st March 2008 Issued Date: 11th March 2005 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 6 Effective Date: 31st March 2008 Issued Date: 11th March 2005 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 4 Effective Date: 4th March 2003 Issued Date: 4th March 2003 Revocation Date: 29th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 4 Effective Date: 4th March 2003 Issued Date: 4th March 2003 Revocation Date: 29th March 2003 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 5 Effective Date: 30th March 2003 Issued Date: 4th March 2003 Revocation Date: 15th March 2005 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 5 Effective Date: 30th March 2003 Issued Date: 4th March 2003 Revocation Date: 15th March 2005 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	406	2	443160 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 8 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	407	2	443160 366490
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 7 Effective Date: 16th March 2005 Issued Date: 16th March 2005 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	407	2	443160 366490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 6 Effective Date: 31st March 2008 Issued Date: 11th March 2005 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	407	2	443160 366490
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 4 Effective Date: 4th March 2003 Issued Date: 4th March 2003 Revocation Date: 29th March 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	407	2	443160 366490
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 5 Effective Date: 30th March 2003 Issued Date: 4th March 2003 Revocation Date: 15th March 2005 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	407	2	443160 366490
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 3 Effective Date: 10th September 1985 Issued Date: 10th September 1985 Revocation Date: 3rd March 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 3 Effective Date: 10th September 1985 Issued Date: 10th September 1985 Revocation Date: 3rd March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 2 Effective Date: 1st June 1981 Issued Date: 1st June 1981 Revocation Date: 9th September 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Transferred from 1978 Order** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500
6	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 2 Effective Date: 1st June 1981 Issued Date: 1st June 1981 Revocation Date: 9th September 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Reservoir Receiving Water: Williamthorpe Reservoir **Status: Transferred from 1978 Order** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500
6	**Discharge Consents** Operator: Chesterfield Rural District Council Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 1 Effective Date: 1st June 1973 Issued Date: 1st June 1973 Revocation Date: 31st May 1981 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Chesterfield Rural District Council Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Williamthorpe Wwtw Park Road (Track Off), Holmewood Industrial Park, Chesterfield, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2941 Permit Version: 1 Effective Date: 1st June 1973 Issued Date: 1st June 1973 Revocation Date: 31st May 1981 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Williamthorpe Reservoir **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366500
7	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Staions Location: Tibshelf Road, NORTH WINGFIELD, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Rother (Yorkshire) Reference: YWUCD1/69 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 12th November 1997 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Crude Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Tributaryof Calow Brook **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	860	2	442680 365580
8	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Staions Location: Holmewood Sps , HOLMEWOOD, Derbyshire Authority: Environment Agency, North East Region Catchment Area: Rother (Yorkshire) Reference: WADC220 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm sewage overflow discharge Discharge Environment: Freshwater Stream/River Receiving Water: Culverted Watercourse To Spilsby Brook **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	892	2	443390 365850
8	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Pit Lane Pumping Station Holmewood, Chesterfield, South Yorkshire, Emgland Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7671 Permit Version: 1 Effective Date: 6th March 2001 Issued Date: 6th March 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Spilsby Brook **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	A9NE (SE)	899	2	443400 365850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Integrated Pollution Prevention And Control** Name: Nitec Uk Ltd Location: Hardwick House, Hardwick View Road, Holmewood, Chesterfield, Derbyshire, S42 5SA Authority: Environment Agency, North East Region Permit Reference: LP3231UY Original Permit Ref: Cp3639ll Effective Date: 1st November 2007 **Status: Surrender Effective** Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 2.3 A(1) (A) Activity Description: Surface Treating Metals And Plastics; Electrolytic/Chemical Greater Than 30 Cubic Metres Primary Activity: Y	A9NE (SE)	976	2	443519 365876
10	**Local Authority Pollution Prevention and Controls** Name: A & R Carton (UK) Ltd Location: Holmewood Industrial Park, Park Road, Holmewood, CHESTERFIELD, Derbyshire, S42 5UY Authority: North East Derbyshire District Council, Environmental Health Department Permit Reference: 60 Dated: 15th March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG6/33 Wood coating **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	109	3	442770 366343
11	**Local Authority Pollution Prevention and Controls** Name: Xtratherm Uk Limited Location: Park Road, Holmewood Industrial Park, Chesterfield, S42 5uy Authority: North East Derbyshire District Council, Environmental Health Department Permit Reference: 23 Dated: 20th January 2005 Process Type: Local Authority Pollution Prevention and Control Description: PG6/29 Di-isocyanate processes **Status: Permitted** Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	148	3	442500 366400
12	**Local Authority Pollution Prevention and Controls** Name: Future Mini Mix Location: Park Road, Holmewood Industrial Estate, Holmewood, S42 5UY Authority: North East Derbyshire District Council, Environmental Health Department Permit Reference: 83 Dated: 30th June 2010 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement **Status: Permitted** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	181	3	442846 366309
13	**Local Authority Pollution Prevention and Controls** Name: Spar Store (Graingers Service Station) Location: Chesterfield Road, Holmewood, CHESTERFIELD, Derbyshire, S42 5TE Authority: North East Derbyshire District Council, Environmental Health Department Permit Reference: 58 Dated: 14th December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A8NE (S)	571	3	442664 365871
14	**Local Authority Pollution Prevention and Controls** Name: Mr W D StubbsHolmewood Service Station Location: Heath Road, Holmewood, CHESTERFIELD, Derbyshire, S42 5RB Authority: North East Derbyshire District Council, Environmental Health Department Permit Reference: 71 Dated: 26th November 1999 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	838	3	443379 365920
	Nearest Surface Water Feature	A13NW (NW)	1	-	442608 366577

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Road Bridgee A619 /, Road Bridge B6039 Rother 19 Authority: Environment Agency, North East Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 23rd November 1994 Incident Reference: 153741 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	311	2	443000 366300
16	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Chesterfield/Source Rother Afu Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 26th February 1991 Incident Reference: 120157 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	346	2	443100 366500
17	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Williamthorpe Ponds Authority: Environment Agency, North East Region Pollutant: Unknown Note: Fish Killed: No Information Incident Date: 28th November 1995 Incident Reference: SH950171 Catchment Area: Rother Tributaries Receiving Water: Pond/Lake Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	366	2	443100 366400
18	**Pollution Incidents to Controlled Waters** Property Type: Fire Water Location: Holmewood Middle Pond Authority: Environment Agency, North East Region Pollutant: Fish Disease Note: Fisheries Affected; Less Than Ten Fish Killed Incident Date: 2nd August 1997 Incident Reference: SH970375 Catchment Area: Rother Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	446	2	443200 366495
19	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Heath/Source Doe Lea Afu Authority: Environment Agency, North East Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 8th July 1991 Incident Reference: 124157 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	453	2	443200 366600
20	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Road Bridgee A619 /, Road Bridge B6039 Rother 19 Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 1st April 1993 Incident Reference: 142873 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	462	2	443200 366400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Pollution Incidents to Controlled Waters** Property Type: Other General Premises Location: Road Bridges A619 /, Road Bridge B6039 Rother 19 Authority: Environment Agency, North East Region Pollutant: Algae Note: Not Supplied Incident Date: 11th May 1992 Incident Reference: 133419 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	514	2	443100 366900
22	**Pollution Incidents to Controlled Waters** Property Type: Miscellaneous Premises: Unknown Location: Road Bridges A619 /, Road Bridge B6039 Rother 19 Authority: Environment Agency, North East Region Pollutant: Miscellaneous - No Visible Pollution/Nothing Found Note: Not Supplied Incident Date: 2nd October 1992 Incident Reference: 137194 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	546	2	443300 366500
23	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Road Bridgee A619 /, Road Bridge B6039 Rother 19 Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 15th July 1993 Incident Reference: 146061 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	589	2	443300 366300
24	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Heath-Palterton/Doe Lea Vill Doe Lea 08 Authority: Environment Agency, North East Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 15th May 1990 Incident Reference: 110474 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	801	2	443000 367300
25	**Registered Radioactive Substances** Name: Baldwins Industrial Services Plc Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Authority: Environment Agency, North East Region Permit Reference: Bj7255 Dated: 25th January 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation either revoked or cancelled** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	298	2	442928 366225
	River Quality Name: Spital/Calow/Muster_Brook GQA Grade: River Quality E Reach: Williamthorpe_Collie_Grassmoor_Broo Estimated Distance (km): 2.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A18NE (N)	819	2	442816 367388

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, East Area Incident Date: 11th September 2009 Incident Reference: 715106 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Other	A14SW (E)	343	2	443092 366462
27	**Water Abstractions** Operator: Smith Reclamation Limited Licence Number: 2/27/02/081 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 120 Yearly Rate (m3): 27600 Details: Reservoir Fed By Muster Brook; Status : Lapsed 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	A14NW (NE)	432	2	443070 366815
27	**Water Abstractions** Operator: Smith Reclamation Limited Licence Number: 2/27/02/081 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 120 Yearly Rate (m3): 27600 Details: Licence Lapsed; 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	A14NW (NE)	436	2	443070 366820
27	**Water Abstractions** Operator: British Coal Licence Number: 2/27/02/020 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 5864 Yearly Rate (m3): 22730 Details: Williamthorpe Coll. Reservoir 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	A14NW (NE)	445	2	443100 366800
27	**Water Abstractions** Operator: British Coal Licence Number: 2/27/02/020 Permit Version: Not Supplied Location: Williamthorpe & Holmewood Collieries , CHESTERFIELD Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 5864 Yearly Rate (m3): 22730 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	A14NW (NE)	446	2	443105 366795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Plantworld Licence Number: 2/27/02/092 Permit Version: 1 Location: Borehole - Middle Coal Measures - Plantworld Authority: Environment Agency, North East Region Abstraction: General Agriculture: 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: Old Manor Nurseries, Mansfield Road, Temple Normanton, Chesterfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	1169	2	441710 367330
	Water Abstractions Operator: Plantworld Licence Number: 2/27/02/092 Permit Version: 1 Location: Borehole - Middle Coal Measures - Plantworld Authority: Environment Agency, North East Region Abstraction: Private Water Supply: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Old Manor Nurseries, Mansfield Road, Temple Normanton, Chesterfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th October 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NW (NW)	1169	2	441710 367330
	Water Abstractions Operator: National Coal Board Licence Number: 2/27/02/019 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1964 Yearly Rate (m3): 22730 Details: Grassmoor Colliery Reservoir; 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	A16NW (NW)	1671	2	441200 367495
	Water Abstractions Operator: National Coal Board Licence Number: 2/27/02/019 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1964 Yearly Rate (m3): 22730 Details: Licence Revoked; 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	A16NW (NW)	1674	2	441200 367500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (N)	0	4	442664 366515
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (N)	0	4	442664 366515
	Superficial Aquifer Designations No Data Available				
	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				
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	1	5	442608 366577
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (W)	2	5	442577 366549
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 288.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (W)	3	5	442577 366549
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 137.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	27	5	442596 366601

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	49	5	442550 366587
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	50	5	442548 366587
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NE (N)	67	5	442669 366644
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 214.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SW (W)	133	5	442436 366494
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NE (E)	144	5	442897 366540
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SE (E)	168	5	442922 366511
38	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SE (E)	240	5	442982 366444
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	241	5	442388 366694
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	244	5	442385 366697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SE (E)	256	5	442977 366393
42	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SE (E)	256	5	442977 366393
43	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 665.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13SE (E)	257	5	442995 366432
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 518.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	269	5	442373 366720
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 470.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NW (NW)	278	5	442377 366738
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 92.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NE (NE)	281	5	442822 366804
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A13NE (NE)	346	5	442911 366829
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 131.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	A13NE (NE)	346	5	442911 366829
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SE (SW)	404	5	442320 366204

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SE (SW)	416	5	442234 366281
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SE (SW)	417	5	442210 366316
52	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SE (W)	430	5	442164 366380
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 565.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SE (W)	441	5	442143 366411
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18SW (N)	446	5	442488 367014
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SW (E)	498	5	443250 366473
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SW (E)	508	5	443261 366487
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 324.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18SW (N)	527	5	442639 367118
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SW (E)	533	5	443286 366494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 309.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18SW (N)	540	5	442557 367127
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	548	5	443161 366888
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: Underground Permanent: False Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	555	5	443157 366902
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	564	5	443150 366922
63	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SW (E)	573	5	443327 366509
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SW (E)	579	5	443334 366509
65	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 61.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18SE (N)	602	5	442878 367138
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	606	5	443125 366999
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	606	5	443125 366999

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 111.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14NE (E)	609	5	443343 366677
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14NE (E)	610	5	443340 366690
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14NE (E)	615	5	443367 366577
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SE (E)	617	5	443371 366507
72	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 69.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A18SE (NE)	628	5	442971 367120
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 147.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A18SE (NE)	628	5	442939 367136
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	631	5	443001 367105
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	631	5	443014 367098
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 193.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SE (E)	659	5	443413 366489

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	670	5	443264 366955
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	673	5	443270 366952
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	683	5	443289 366945
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	683	5	443289 366945
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 450.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Muster Brook Catchment Name: Don and Rother Primacy: 1	A18NE (N)	729	5	442915 367261
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 160.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	755	5	443163 367155
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	759	5	443163 367159
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	769	5	443163 367171
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A19SW (NE)	774	5	443164 367176

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18NE (N)	799	5	442967 367313
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 325.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NW (W)	817	5	441813 366849
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 289.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18NW (N)	822	5	442646 367413
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 372.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A17NE (NW)	826	5	442126 367248
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14NE (E)	850	5	443604 366516
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9NE (SE)	863	5	443445 365967
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9NE (SE)	898	5	443410 365863
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 218.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14NE (E)	905	5	443654 366614
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9SE (SE)	913	5	443390 365819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9SE (SE)	920	5	443389 365808
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 310.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9SE (SE)	953	5	443409 365780
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 198.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A11NE (W)	978	5	441604 366709

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: North East Derbyshire District Council - Has supplied landfill data		0	3	442664 366515
	Local Authority Landfill Coverage Name: Derbyshire County Council - Had landfill data but passed it to the relevant environment agency		0	6	442664 366515
	Local Authority Landfill Coverage Name: Bolsover District Council - Has no landfill data to supply		946	7	443082 365566
98	**Potentially Infilled Land (Non-Water)** Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (N)	0	-	442664 366515
99	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NW (NW)	104	-	442486 366598
100	**Potentially Infilled Land (Non-Water)** Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NE (W)	299	-	442275 366599
101	**Potentially Infilled Land (Non-Water)** Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NE (NW)	469	-	442179 366797
102	**Potentially Infilled Land (Non-Water)** Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SE (E)	848	-	443556 366245
103	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SE (NE)	978	-	443477 367179
104	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (SW)	184	-	442517 366333
105	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (E)	209	-	442960 366482
106	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (E)	258	-	442980 366395
107	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14SW (SE)	341	-	443004 366248
108	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (SE)	356	-	442990 366205
109	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18SW (NW)	390	-	442357 366873
110	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (NW)	391	-	442357 366876
111	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (NE)	403	-	442902 366899
112	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (SW)	429	-	442353 366149
113	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19SW (NE)	621	-	443056 367064

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A8SE (S)	657	-	442699 365783
115	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SW (W)	674	-	441916 366355
116	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	826	-	443167 367235
117	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A17NE (NW)	833	-	442092 367230
118	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (N)	840	-	442847 367401
119	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A17NE (NW)	860	-	442135 367296
120	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SW (W)	892	-	441693 366351
121	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A17SW (NW)	899	-	441947 367189
122	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	912	-	443175 367330
123	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NW (W)	973	-	441681 366127
124	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	991	-	443253 365604
125	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	991	-	443300 365636
126	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	993	-	443282 365620

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	**Control of Major Accident Hazards Sites (COMAH)** Name: Xtratherm Uk Limited Location: Unit 2, Holmewood Industrial Park, Park Road, Chesterfield, Derbyshire, S42 5uy Reference: Not Supplied Type: Lower Tier **Status: Active** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	151	8	442535 366360
128	**Control of Major Accident Hazards Sites (COMAH)** Name: Nitec Uk Limited Location: Hardwick House, Hardwick View Road, Holmewood, Chesterfield, Derbyshire, S42 5SA Reference: Not Supplied Type: Lower Tier **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	976	8	443519 365876

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 (N)	0	1	442664 366515
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	0	1	442664 366515
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14NW (E)	246	1	443000 366515
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	439	1	442664 366000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A19SW (NE)	552	1	443158 366897
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SE (N)	555	1	442878 367086
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SE (NE)	616	1	442922 367132

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 Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18NE (N)	702	1	442908 367234
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NE (SW)	772	1	442000 366007
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	854	1	441871 367029
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A23SE (N)	964	1	442745 367548
129	**BGS Recorded Mineral Sites** Site Name: Williamthorpe Colliery Location: Holmewood, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 16059 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	120	1	442750 366660
130	**BGS Recorded Mineral Sites** Site Name: Temple Normanton Mine Location: Temple Normanton, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 32346 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	486	1	442174 366819

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	**BGS Recorded Mineral Sites** Site Name: Lings Colliery Location: Holmewood, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 16060 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	526	1	442040 366510
	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.	A13NE (N)	0	9	442664 366515
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (N)	0	-	442664 366515
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	170	1	442923 366497
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	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 (N)	0	1	442664 366515
	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 (N)	0	1	442664 366515

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	**Contemporary Trade Directory Entries** Name: Honeywell Bryan Donkin Gas Technologies Ltd Location: Williamthorpe Industrial Park,Enterprise Drive, Holmewood, Chesterfield, Derbyshire, S42 5UZ Classification: Filter Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	0	-	442681 366527
133	**Contemporary Trade Directory Entries** Name: B G Engineering Ltd Location: Williamthorpe Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UZ Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	0	-	442623 366566
134	**Contemporary Trade Directory Entries** Name: Cos Uk Ltd Location: Williamthorpe Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UZ Classification: Photocopiers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13NE (NE)	30	-	442722 366572
135	**Contemporary Trade Directory Entries** Name: L J Specialities Location: Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Chemicals & Allied Products **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	44	-	442675 366409
136	**Contemporary Trade Directory Entries** Name: Container Components Location: Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UX Classification: Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	58	-	442812 366512
136	**Contemporary Trade Directory Entries** Name: Ditch Witch (Uk) Ltd Location: Moor Cl,Holmewood Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UX Classification: Drilling & Boring Equipment & Supplies **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	74	-	442812 366470
137	**Contemporary Trade Directory Entries** Name: Chesterfield Patterns Location: Unit 3, Holmewood Industrial Park, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Pattern Makers - Industrial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	77	-	442725 366363
137	**Contemporary Trade Directory Entries** Name: Rtb Precision Engineering Location: Unit 3, Holmewood Industrial Park, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	77	-	442725 366363
138	**Contemporary Trade Directory Entries** Name: The Yearsley Group Location: Tupton Way, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5BX Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	89	-	442796 366599
139	**Contemporary Trade Directory Entries** Name: Scorpion Lifting Systems Ltd Location: Unit 1, Tupton Way, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5BX Classification: Lifting Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	92	-	442780 366369
139	**Contemporary Trade Directory Entries** Name: Spire Tyres Location: Unit 2, Woodsome Park, Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	104	-	442814 366391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	**Contemporary Trade Directory Entries** Name: Spire Tyres Location: Unit 2, Woodsome Park, Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	104	-	442814 366391
139	**Contemporary Trade Directory Entries** Name: Lite Fabs & Coatings Location: Unit 1,Woodsome Park,Moor Close,Holmewood Ind Park, Chesterfield, Derbyshire, S42 5UX Classification: Powder Coatings **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	112	-	442820 366384
139	**Contemporary Trade Directory Entries** Name: Supreme Food Ingredients Ltd Location: Unit 5, Woodsome Park, Moor Close, Holmewood Industrial Park, Holmewood, CHESTERFIELD, Derbyshire, S42 5UX Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	113	-	442821 366384
139	**Contemporary Trade Directory Entries** Name: D W R Performance Location: Unit 4, Woodsome Park, Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	125	-	442829 366375
140	**Contemporary Trade Directory Entries** Name: Atlas Contract Transport Location: Woodsome Park,Moor Cl,Holmewood Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UX Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	126	-	442844 366404
140	**Contemporary Trade Directory Entries** Name: Oakhouse Foods Ltd Location: Unit 5, Woodsome Park, Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Classification: Frozen Food Processors & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	136	-	442843 366377
141	**Contemporary Trade Directory Entries** Name: Howden Compressors Location: Holmewood Industrial Park, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Air Compressors **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	151	-	442535 366360
141	**Contemporary Trade Directory Entries** Name: A & R Carton (Uk) Ltd Location: Holmewood Ind Park,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Boxes & Cartons **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	151	-	442535 366360
141	**Contemporary Trade Directory Entries** Name: Xtratherm Location: Park Road, Holmewood Industrial Park, Holmewood, CHESTERFIELD, Derbyshire, S42 5UY Classification: Insulation Materials **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	151	-	442535 366360
142	**Contemporary Trade Directory Entries** Name: Kay Electrics Location: 5,Freshwater,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	162	-	442802 366300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**Contemporary Trade Directory Entries** Name: Perry'S Motor Group Location: Unit 4 Freshwaters Park Road,Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Distribution Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	174	-	442776 366275
143	**Contemporary Trade Directory Entries** Name: Gable Joinery Location: Unit 2, Freshwaters, Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Classification: Joinery Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	184	-	442745 366258
143	**Contemporary Trade Directory Entries** Name: Cameo Drapes Location: 1 Freshwaters,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (S)	209	-	442757 366234
143	**Contemporary Trade Directory Entries** Name: D D T Vision Location: Unit 8,Freshwaters,Park Rd,Holmewood Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Gauge Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	224	-	442792 366228
144	**Contemporary Trade Directory Entries** Name: Hach Ultra Analytics Location: Unit 4, Holmewood Business Park, Chesterfield Road, Holmewood, CHESTERFIELD, Derbyshire, S42 5US Classification: Scientific Apparatus & Instruments - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (W)	177	-	442403 366463
145	**Contemporary Trade Directory Entries** Name: Geoff Matthews Engineers Location: Unit 17, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Classification: Agricultural Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	186	-	442827 366287
145	**Contemporary Trade Directory Entries** Name: Atlas Contract Transport Ltd Location: Unit 15, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	197	-	442825 366273
145	**Contemporary Trade Directory Entries** Name: Modular Wiring Systems Ltd Location: Unit 1,Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Cable & Wire Equipment Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	204	-	442824 366264
145	**Contemporary Trade Directory Entries** Name: Peak Dinghy Spares Location: Unit 14, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Classification: Boatbuilders & Repairers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	206	-	442826 366263
145	**Contemporary Trade Directory Entries** Name: C C T Ltd Location: Holmewood Ind Pk,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	207	-	442870 366296
145	**Contemporary Trade Directory Entries** Name: William Watts Ltd Location: 5, Freshwater, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Machine Tools - Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A13SE (SE)	208	-	442848 366276

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	**Contemporary Trade Directory Entries** Name: William Watts Ltd Location: 5, Freshwater, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Machine Tools - Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A13SE (SE)	208	-	442848 366276
145	**Contemporary Trade Directory Entries** Name: M & J Distribution Location: Unit 9-10 Pavilion Workshops,Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	216	-	442848 366266
145	**Contemporary Trade Directory Entries** Name: Brettex Site Services Location: Unit 11, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	219	-	442823 366247
145	**Contemporary Trade Directory Entries** Name: Appliance Service Care Ltd Location: Unit 1, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	226	-	442874 366274
145	**Contemporary Trade Directory Entries** Name: Smiths Engineering Ltd Location: Unit 3, Pavilion Workshops, Holmewood Industrial Park, Holmewood, CHESTERFIELD, Derbyshire, S42 5UW Classification: Mechanical Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	234	-	442873 366262
145	**Contemporary Trade Directory Entries** Name: C S 2 Storage & Distribution Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	234	-	442873 366262
145	**Contemporary Trade Directory Entries** Name: M & J Distribution Ltd Location: Unit 9-10 Park Road,Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Distribution Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	247	-	442844 366226
146	**Contemporary Trade Directory Entries** Name: B D Precision Engineering Ltd Location: Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	229	-	442917 366319
146	**Contemporary Trade Directory Entries** Name: Pickfords Vanguard Industrial Engineering Location: Williamthorpe Ind Park,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Engineering Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	256	-	442925 366284
146	**Contemporary Trade Directory Entries** Name: Print & Print Finishing Resources Location: Unit 9A,Park Rd, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Printers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	270	-	442943 366284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	**Contemporary Trade Directory Entries** Name: Autogas Conversions Location: Unit 8,Pavilion Workshops,Holmewood Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Autogas Suppliers & Installers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	252	-	442851 366224
147	**Contemporary Trade Directory Entries** Name: Chesterfield Mansfield & Stainless Chemdry Location: Unit 5, Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UW Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	263	-	442869 366223
148	**Contemporary Trade Directory Entries** Name: Hamilton Pow-R-Safe Location: Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Classification: Crane Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	258	-	442893 366248
148	**Contemporary Trade Directory Entries** Name: C S 2 Transport Ltd Location: Unit 1, Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	274	-	442932 366263
148	**Contemporary Trade Directory Entries** Name: Bramley Foods Location: Park Road,Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Sausage Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A13SE (SE)	275	-	442932 366263
148	**Contemporary Trade Directory Entries** Name: Underwood Meat Company Location: Unit 2, Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Classification: Sausage Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	286	-	442930 366244
148	**Contemporary Trade Directory Entries** Name: Armytage Timber Cases Ltd Location: Unit 2, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Pallets, Crates & Packing Cases **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	286	-	442930 366244
148	**Contemporary Trade Directory Entries** Name: Cct Ltd Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Hydraulic Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	298	-	442928 366225
148	**Contemporary Trade Directory Entries** Name: Rick Bestwick Ltd Location: Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	299	-	442928 366225
148	**Contemporary Trade Directory Entries** Name: Baldwins Location: Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Crane Hire, Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	299	-	442928 366225
148	**Contemporary Trade Directory Entries** Name: Trans Oceanic Meat Company Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Meat - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	299	-	442928 366225

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**Contemporary Trade Directory Entries** Name: Rick Bestwick Location: Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Meat Product Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	299	-	442928 366225
149	**Contemporary Trade Directory Entries** Name: D K Diagnostics Location: Unit 3 Chesterfield Rd, Temple Normanton, Chesterfield, Derbyshire, S42 5DE Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	261	-	442306 366512
149	**Contemporary Trade Directory Entries** Name: Brown Haulage Location: 205, Chesterfield Road, Temple Normanton, Chesterfield, Derbyshire, S42 5DE Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	288	-	442279 366509
150	**Contemporary Trade Directory Entries** Name: Pentag Gears & Oil Field Equipment Ltd Location: Williamthorpe Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UZ Classification: Gear Cutters **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	299	-	442443 366244
151	**Contemporary Trade Directory Entries** Name: Trans Oceanic Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Classification: Meat Product Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SW (SE)	346	-	443003 366238
152	**Contemporary Trade Directory Entries** Name: Levell Location: 183, Chesterfield Road, Holmewood, Chesterfield, Derbyshire, S42 5TD Classification: Joinery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	362	-	442308 366279
153	**Contemporary Trade Directory Entries** Name: Gilliver Light Haulage Location: 252, Chesterfield Road, Temple Normanton, Chesterfield, Derbyshire, S42 5DF Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	388	-	442240 366742
154	**Contemporary Trade Directory Entries** Name: Maxam Uk Ltd Location: Park Rd,Holmewood Ind Pk, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Explosives - Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	535	-	443248 366314
155	**Contemporary Trade Directory Entries** Name: Alfred Jones Location: 90, Chesterfield Road, Holmewood, Chesterfield, Derbyshire, S42 5TE Classification: Petrol Filling Stations - 24 Hour **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	571	-	442664 365871
155	**Contemporary Trade Directory Entries** Name: Texaco Location: Chesterfield Road, Holmewood, Chesterfield, Derbyshire, S42 5TE Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	572	-	442661 365870
156	**Contemporary Trade Directory Entries** Name: W C R Uk Ltd Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Classification: Heat Exchangers **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SW (E)	583	-	443326 366404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
157	**Contemporary Trade Directory Entries** Name: Future Mini Mix Ltd Location: Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UY Classification: Concrete & Mortar Ready Mixed **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	643	-	443336 366244
158	**Contemporary Trade Directory Entries** Name: First Impressions Cleaning & Ironing Service Location: 80, Heath Road, Holmewood, Chesterfield, Derbyshire, S42 5SW Classification: Ironing & Home Laundry Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9SW (SE)	707	-	443037 365808
159	**Contemporary Trade Directory Entries** Name: Rks Location: 26, Heath Road, Holmewood, Chesterfield, Derbyshire, S42 5RA Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	753	-	443245 365899
159	**Contemporary Trade Directory Entries** Name: C M T Autos Location: Heath Rd, Holmewood, Chesterfield, Derbyshire, S42 5RB Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	779	-	443269 365886
160	**Contemporary Trade Directory Entries** Name: Cadbury Trebor Bassett Location: National Distribution Centre, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UT Classification: Distribution Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	764	-	443514 366441
160	**Contemporary Trade Directory Entries** Name: O S I Supplies Location: National Distribution Centre, Park Road, Holmewood, Chesterfield, Derbyshire, S42 5UT Classification: Office Furniture & Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14SE (E)	764	-	443514 366441
161	**Contemporary Trade Directory Entries** Name: M M Services Location: 14, Highfields Way, Holmewood, Chesterfield, Derbyshire, S42 5UQ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SW (S)	811	-	442561 365643
162	**Contemporary Trade Directory Entries** Name: Holmewood Car Centre Location: Heath Rd, Holmewood, Chesterfield, Derbyshire, S42 5RA Classification: Car Dealers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	812	-	443366 365945
162	**Contemporary Trade Directory Entries** Name: Holmewood Service Centre Location: Holmewood Service Station, Heath Road, Holmewood, Chesterfield, Derbyshire, S42 5RB Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	840	-	443382 365920
163	**Contemporary Trade Directory Entries** Name: Temple Normanton Garage Location: Chesterfield Road, Temple Normanton, Chesterfield, Derbyshire, S42 5DE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	817	-	442087 367205
163	**Contemporary Trade Directory Entries** Name: A & J Motors Location: Chesterfield Road, Temple Normanton, Chesterfield, Derbyshire, S42 5DE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	817	-	442087 367205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
163	**Contemporary Trade Directory Entries** Name: Temple Normanton Testing Centre Ltd Location: Temple Normanton, S42 5DE Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	829	-	442081 367216
164	**Contemporary Trade Directory Entries** Name: Applied Inspection Ltd Location: Heath Road, Holmewood, Chesterfield, S42 5RB Classification: Engineering Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	821	-	443322 365880
165	**Contemporary Trade Directory Entries** Name: Epo Sport Location: 26, Mornington Road, Holmewood, Chesterfield, Derbyshire, S42 5SX Classification: T-Shirts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	839	-	442913 365623
166	**Contemporary Trade Directory Entries** Name: Steve Kerry Location: 17, Meadow View, Holmewood, Chesterfield, Derbyshire, S42 5UL Classification: Domestic Appliances - Servicing, Repairs & Parts **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SE (S)	853	-	442688 365587
167	**Contemporary Trade Directory Entries** Name: Am Profiles Location: Hardwick View Road, Holmewood, Chesterfield, Derbyshire, S42 5SA Classification: Window Frames - Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	959	-	443583 366017
167	**Contemporary Trade Directory Entries** Name: Am Profiles Ltd Location: Hardwick View Road, Holmewood, CHESTERFIELD, Derbyshire, S42 5SA Classification: Window Frame Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	971	-	443595 366012
167	**Contemporary Trade Directory Entries** Name: Nitec (Derbyshire) Ltd Location: Hardwick View Rd, Holmewood, Chesterfield, Derbyshire, S42 5SA Classification: Corrosion Prevention & Control **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	993	-	443629 366034
168	**Contemporary Trade Directory Entries** Name: Spire Laboratories Location: Williamthorpe Industrial Park, Holmewood, Chesterfield, Derbyshire, S42 5UZ Classification: Laboratories **Status: Active** Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	966	-	443494 365859
168	**Contemporary Trade Directory Entries** Name: Nitec Uk Ltd Location: Hardwick House, Hardwick View Road, Holmewood, Chesterfield, Derbyshire, S42 5SA Classification: Metal Finishing Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	976	-	443519 365876
168	**Contemporary Trade Directory Entries** Name: Hill & Hill Location: Hardwick House, Hardwick View Road, Holmewood, Chesterfield, Derbyshire, S42 5SA Classification: Refractory Materials & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	976	-	443519 365876
169	**Contemporary Trade Directory Entries** Name: J 29 Services Location: Unit 1-2, Astwith Close, Holmewood, Chesterfield, Derbyshire, S42 5UR Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	987	-	443640 366075

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	**Contemporary Trade Directory Entries** Name: Conversion & Precision Engineering Ltd Location: Unit 7,Hardwick View Rd, Holmewood, Chesterfield, Derbyshire, S42 5SA Classification: Precision Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	996	-	443576 365926
171	**Contemporary Trade Directory Entries** Name: Quad Doctor Uk Location: 25, Heather Avenue, Heath, Chesterfield, S44 5RF Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (E)	1000	-	443753 366560
172	**Fuel Station Entries** Name: Spar Holmewood Location: Chesterfield Road , Holmewood , Chesterfield, Derbyshire, S42 5TE Brand: Texaco Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A8NE (S)	571	-	442664 365871
173	**Fuel Station Entries** Name: Temple Normanton Filling Station Location: Chesterfield Road , Temple Normanton , Chesterfield, Derbyshire, S42 5DE Brand: Uk Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A17NE (NW)	817	-	442087 367205
174	**Points of Interest - Commercial Services** Name: The Yearsley Group Location: Tupton Way, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5BX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (NE)	89	10	442796 366599
175	**Points of Interest - Commercial Services** Name: Spire Tyres Location: Unit 2 Woodsome Park Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	104	10	442814 366391
175	**Points of Interest - Commercial Services** Name: D W R Performance Location: Unit 4 Woodsome Park Moor Close, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (SE)	125	10	442829 366375
176	**Points of Interest - Commercial Services** Name: G K Group - Ford Location: Unit 4 Freshwaters Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	133	10	442757 366312
177	**Points of Interest - Commercial Services** Name: M & J Distribution Location: Unit 9-10 Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	217	10	442848 366265
177	**Points of Interest - Commercial Services** Name: Specialised Transportation Services UK Ltd Location: Unit 8 Freshwaters Park Road, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	223	10	442793 366229

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**Points of Interest - Commercial Services** Name: M & J Distribution Location: Unit 9 Pavilion Workshops, Holmewood Industrial Park, Holmewood, Chesterfield, S42 5UW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SE (SE)	246	10	442844 366227
178	**Points of Interest - Commercial Services** Name: Brown Haulage Location: 205 Chesterfield Road, Temple Normanton, Chesterfield, S42 5DE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	288	10	442279 366509
179	**Points of Interest - Commercial Services** Name: Gilliver Light Haulage Location: 252 Chesterfield Road, Temple Normanton, Chesterfield, S42 5DF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (NW)	388	10	442240 366742
179	**Points of Interest - Commercial Services** Name: Gilliver Light Haulage Location: 252 Chesterfield Road, Temple Normanton, Chesterfield, S42 5DF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NE (NW)	388	10	442240 366742
180	**Points of Interest - Commercial Services** Name: C S 2 Transport Ltd Location: Cs2 Transport Limited, Park Road, Holmewood, S42 5UY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SW (SE)	417	10	443097 366256
181	**Points of Interest - Commercial Services** Name: Spar Holmewood Location: Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	571	10	442664 365871
181	**Points of Interest - Commercial Services** Name: Car Wash Location: Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A8NE (S)	571	10	442664 365871
182	**Points of Interest - Commercial Services** Name: Cadbury Trebor Bassett Location: National Distribution Centre, Park Road, Holmewood, Chesterfield, S42 5UT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	764	10	443514 366441
182	**Points of Interest - Commercial Services** Name: Cadbury Trebor Bassett Location: National Distribution Centre, Park Road, Holmewood, Chesterfield, S42 5UT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	764	10	443514 366441
182	**Points of Interest - Commercial Services** Name: Ainscough Vanguard Location: National Distribution Centre, Park Road, Holmewood, Chesterfield, S42 5UT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	764	10	443514 366441
183	**Points of Interest - Commercial Services** Name: M M Services Location: 14 Highfields Way, Holmewood, Chesterfield, S42 5UQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	812	10	442560 365642
184	**Points of Interest - Commercial Services** Name: Temple Normanton Garage Location: Chesterfield Road, Temple Normanton, Chesterfield, S42 5DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	817	10	442087 367205

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	**Points of Interest - Commercial Services** Name: Temple Normanton Garage Location: Chesterfield Road, Temple Normanton, Chesterfield, S42 5DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	817	10	442087 367205
184	**Points of Interest - Commercial Services** Name: Temple Normanton Testing Centre Ltd Location: Chesterfield Road, Temple Normanton, Chesterfield, S42 5DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	824	10	442089 367216
185	**Points of Interest - Commercial Services** Name: Holmewood Garage Services Ltd Location: Holmewood Service Station, Heath Road, Holmewood, Chesterfield, S42 5RB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	840	10	443382 365920
185	**Points of Interest - Commercial Services** Name: Holmewood Service Centre Location: Heath Road, Holmewood, Chesterfield, S42 5RB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	840	10	443381 365920
186	**Points of Interest - Commercial Services** Name: Robert Procter Ltd Location: Hardwick View Road, Holmewood, Chesterfield, S42 5SA Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9SE (SE)	996	10	443492 365808
187	**Points of Interest - Commercial Services** Name: Quad Doctor UK Location: 25 Heather Avenue, Heath, Chesterfield, S44 5RF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A15NW (E)	999	10	443753 366558
188	**Points of Interest - Manufacturing and Production** Name: Williamthorpe Industrial Park Location: S42 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	35	10	442715 366582
188	**Points of Interest - Manufacturing and Production** Name: Shaft Location: S42 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13NE (NE)	74	10	442739 366613
189	**Points of Interest - Manufacturing and Production** Name: Holmewood Industrial Park Location: S42 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	156	10	442843 366342
190	**Points of Interest - Manufacturing and Production** Name: Holmewood Business Park Location: S42 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	205	10	442365 366571
191	**Points of Interest - Manufacturing and Production** Name: Workshops Location: S42 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	232	10	442839 366241
191	**Points of Interest - Manufacturing and Production** Name: Pavillion Workshops Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (SE)	238	10	442857 366245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	**Points of Interest - Manufacturing and Production** Name: Hill Top Poultry Farm Location: S42 Category: Farming Class Code: Poultry Farming, Equipment and Supplies Positional Accuracy: Positioned to address or location	A12NE (NW)	516	10	442110 366774
193	**Points of Interest - Manufacturing and Production** Name: Works Location: S42 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	617	10	443312 366256
193	**Points of Interest - Manufacturing and Production** Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	625	10	443322 366258
193	**Points of Interest - Manufacturing and Production** Name: Tanks Location: S42 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	676	10	443381 366267
194	**Points of Interest - Manufacturing and Production** Name: Tank Location: S44 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	825	10	443579 366500
195	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: S42 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	369	10	443118 366456
195	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: S42 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (E)	444	10	443175 366377
196	**Points of Interest - Public Infrastructure** Name: Alfred Jones Location: 90 Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (S)	551	10	442648 365892
196	**Points of Interest - Public Infrastructure** Name: Spar Location: 90 Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (S)	551	10	442648 365892
196	**Points of Interest - Public Infrastructure** Name: Alfred Jones Location: 90 Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (S)	551	10	442648 365892
196	**Points of Interest - Public Infrastructure** Name: Alfred Jones Location: 90 Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NW (S)	551	10	442648 365892
196	**Points of Interest - Public Infrastructure** Name: Shell UK Location: Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	571	10	442664 365871

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	**Points of Interest - Public Infrastructure** Name: Spar Location: 90 Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	571	10	442664 365871
196	**Points of Interest - Public Infrastructure** Name: Spar Holmewood Location: Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	571	10	442664 365871
196	**Points of Interest - Public Infrastructure** Name: Texaco Location: Chesterfield Road, Holmewood, Chesterfield, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	572	10	442661 365870
196	**Points of Interest - Public Infrastructure** Name: Graingers Service Station Location: Chesterfield Road, Holmewood, Chesterfield, Derbyshire, S42 5TE Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A8NE (S)	572	10	442664 365870
197	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	498	10	442919 365983
197	**Points of Interest - Recreational and Environmental** Name: Playground Location: Masefield Avenue, S42 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8NE (SE)	501	10	442916 365979
198	**Points of Interest - Recreational and Environmental** Name: Playground Location: Hunloke Road, S42 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	508	10	443102 366103
198	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	518	10	443116 366104
199	**Points of Interest - Recreational and Environmental** Name: Play Area Location: S44 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	875	10	443625 366436

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
200	**Local Nature Reserves** Name: Williamthorpe Multiple Area: N Area (m2): 710056.17 Source: Natural England Designation Date: Not Supplied	A13NW (NW)	0	11	442610 366577
201	**Nitrate Vulnerable Zones** Name: River Rother (Source To Don) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (N)	0	4	442664 366515

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Ashfield District Council - Environmental Health	December 2019	Annual Rolling Update
Chesterfield Borough Council - Environmental Health Department	January 2015	Annual Rolling Update
North East Derbyshire District Council - Environmental Health Department	January 2015	Annual Rolling Update
Bolsover District Council - Environmental Health Department	January 2020	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	October 2019	Quarterly
Environment Agency - North East Region	October 2019	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	Annual Rolling Update
Integrated Pollution Controls		
Environment Agency - Midlands Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	October 2019	Quarterly
Environment Agency - North East Region	October 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Ashfield District Council - Environmental Health	April 2014	Variable
Bolsover District Council - Environmental Health Department	August 2014	Variable
North East Derbyshire District Council - Environmental Health Department	August 2014	Variable
Chesterfield Borough Council - Environmental Health Department	November 2012	Variable
Local Authority Pollution Prevention and Controls		
Ashfield District Council - Environmental Health	April 2014	Not Applicable
North East Derbyshire District Council - Environmental Health Department	August 2014	Annual Rolling Update
Bolsover District Council - Environmental Health Department	August 2014	Not Applicable
Chesterfield Borough Council - Environmental Health Department	September 2014	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
Ashfield District Council - Environmental Health	April 2014	Variable
Bolsover District Council - Environmental Health Department	August 2014	Variable
North East Derbyshire District Council - Environmental Health Department	August 2014	Variable
Chesterfield Borough Council - Environmental Health Department	September 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	November 2019	
Pollution Incidents to Controlled Waters		
Environment Agency - North East Region	December 1998	Not Applicable
Environment Agency - Midlands Region	December 1999	Not Applicable
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	July 2015	Annual Rolling Update
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	Annual Rolling Update
Registered Radioactive Substances		
Environment Agency - Midlands Region	June 2016	
Environment Agency - North East Region	June 2016	
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	October 2019	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions		
Environment Agency - Midlands Region	October 2019	Quarterly
Environment Agency - North East Region	October 2019	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	October 2017	Quarterly
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones		
Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	November 2019	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	November 2019	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	November 2019	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	November 2019	Quarterly
Flood Defences		
Environment Agency - Head Office	November 2019	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2019	Quarterly
Surface Water 1 in 30 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent		
Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability		
Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - East Area	November 2019	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	November 2019	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	October 2019	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2019	Quarterly
Local Authority Landfill Coverage		
Ashfield District Council - Environmental Health	May 2000	Not Applicable
Bolsover District Council	May 2000	Not Applicable
Chesterfield Borough Council - Environmental Health Department	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
North East Derbyshire District Council - Environmental Health Department	May 2000	Not Applicable
Nottinghamshire County Council - Environment Department	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Ashfield District Council - Environmental Health	May 2000	Not Applicable
Bolsover District Council	May 2000	Not Applicable
Chesterfield Borough Council - Environmental Health Department	May 2000	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
North East Derbyshire District Council - Environmental Health Department	May 2000	Not Applicable
Nottinghamshire County Council - Environment Department	May 2000	Not Applicable
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites		
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Nottinghamshire County Council	August 2007	Variable
Bolsover District Council	February 2016	Variable
Chesterfield Borough Council	February 2016	Variable
Derbyshire County Council	February 2016	Variable
North East Derbyshire District Council - Planning Department	February 2016	Variable
Ashfield District Council	January 2016	Variable
Planning Hazardous Substance Consents		
Nottinghamshire County Council	August 2007	Variable
Bolsover District Council	February 2016	Variable
Chesterfield Borough Council	February 2016	Variable
Derbyshire County Council	February 2016	Variable
North East Derbyshire District Council - Planning Department	February 2016	Variable
Ashfield District Council	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry		
British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability		
Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas		
British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures		
British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	December 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	December 2019	Quarterly
Points of Interest - Education and Health PointX	December 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2019	Quarterly
Points of Interest - Public Infrastructure PointX	December 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Ashfield District Council - Planning Department	February 2020	As notified
Bolsover District Council	February 2020	As notified
Chesterfield Borough Council	February 2020	As notified
North East Derbyshire District Council	February 2020	As notified
Areas of Unadopted Green Belt		
Ashfield District Council - Planning Department	February 2020	As notified
Bolsover District Council	February 2020	As notified
Chesterfield Borough Council	February 2020	As notified
North East Derbyshire District Council	February 2020	As notified
Areas of Outstanding Natural Beauty		
Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	March 2019	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	July 2019	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest		
Natural England	March 2019	Bi-Annually
Special Areas of Conservation		
Natural England	June 2019	Bi-Annually
Special Protection Areas		
Natural England	April 2019	Bi-Annually

Data Suppliers

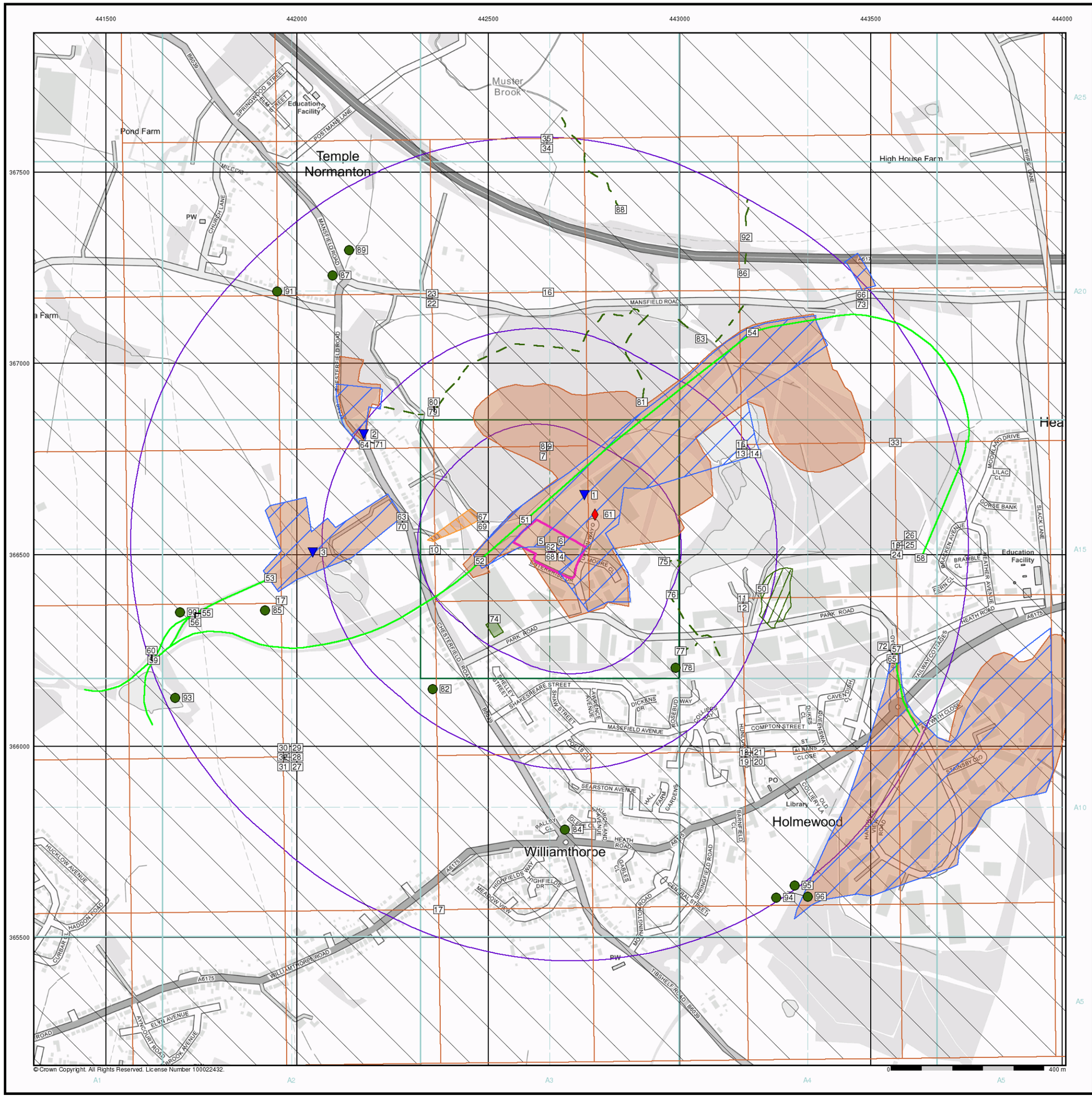
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Useful Contacts

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	**North East Derbyshire District Council - Environmental Health Department** Council House, Saltergate, Chesterfield, Derbyshire, S40 1LF	Telephone: 01246 231111 Fax: 01246 550213 Website: www.ne-derbyshire.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	**Derbyshire County Council** County Offices, Matlock, Derbyshire, DE4 3AG	Telephone: 01629 580000 Fax: 01629 580119 Website: www.derbyshire.gov.uk
7	**Bolsover District Council** Sherwood Lodge, Bolsover, Chesterfield, Derbyshire, S44 6NF	Telephone: 01246 240000 Fax: 01246 242424 Website: www.bolsover.gov.uk
8	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	**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
10	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	**North East Derbyshire District Council** Council House, Saltergate, Chesterfield, Derbyshire, S40 1LF	Telephone: 01246 231111 Fax: 01246 221086/237310 Website: www.ne-derbyshire.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.



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Historical Land Use Information (1:10,000)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining and Quarrying General			
Mining of Coal & Lignite			
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits			

Historical Land Use

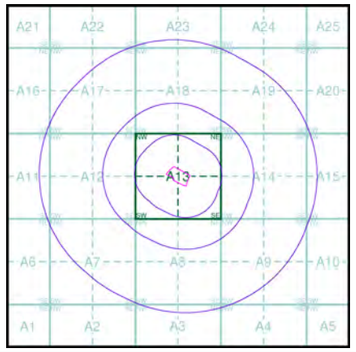
	Point	Line	Polygon
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)			
Former Marsh			

Mining Data

Potential Mining Area

BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



N

Order Details

Order Number:	234039940_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

Landmark INFORMATION GROUP

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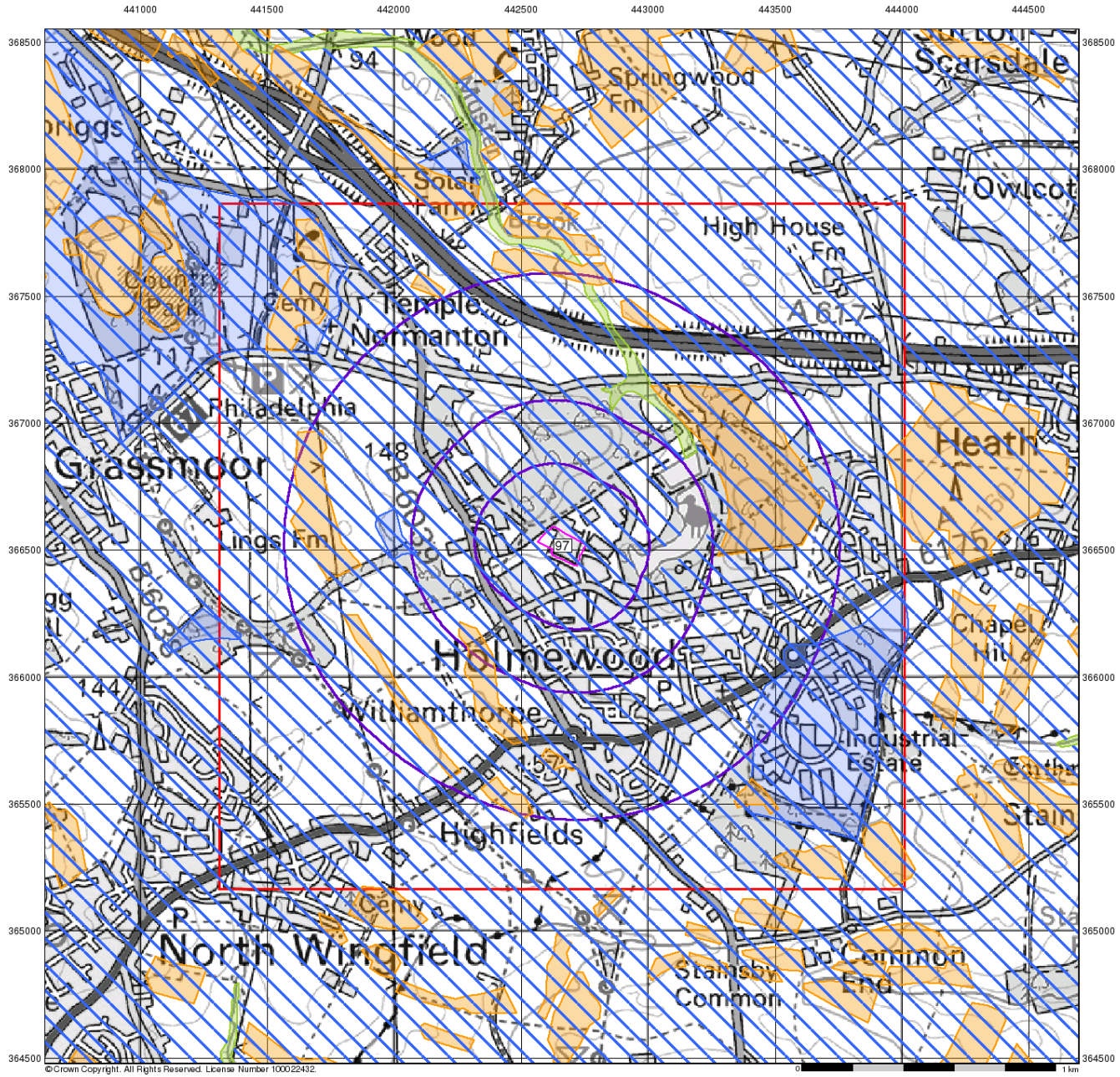
Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

High
Low
Moderate
Very Low

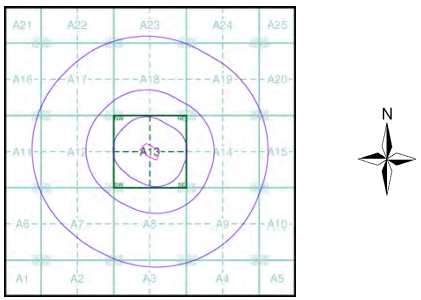
Potential for Collapsible Ground Stability Hazards

High
Low
Moderate
Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature		
Salt Mining Related Feature		

Mining and Ground Stability - Slice A



Order Details

Order Number:	234039940_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

Landmark INFORMATION GROUP
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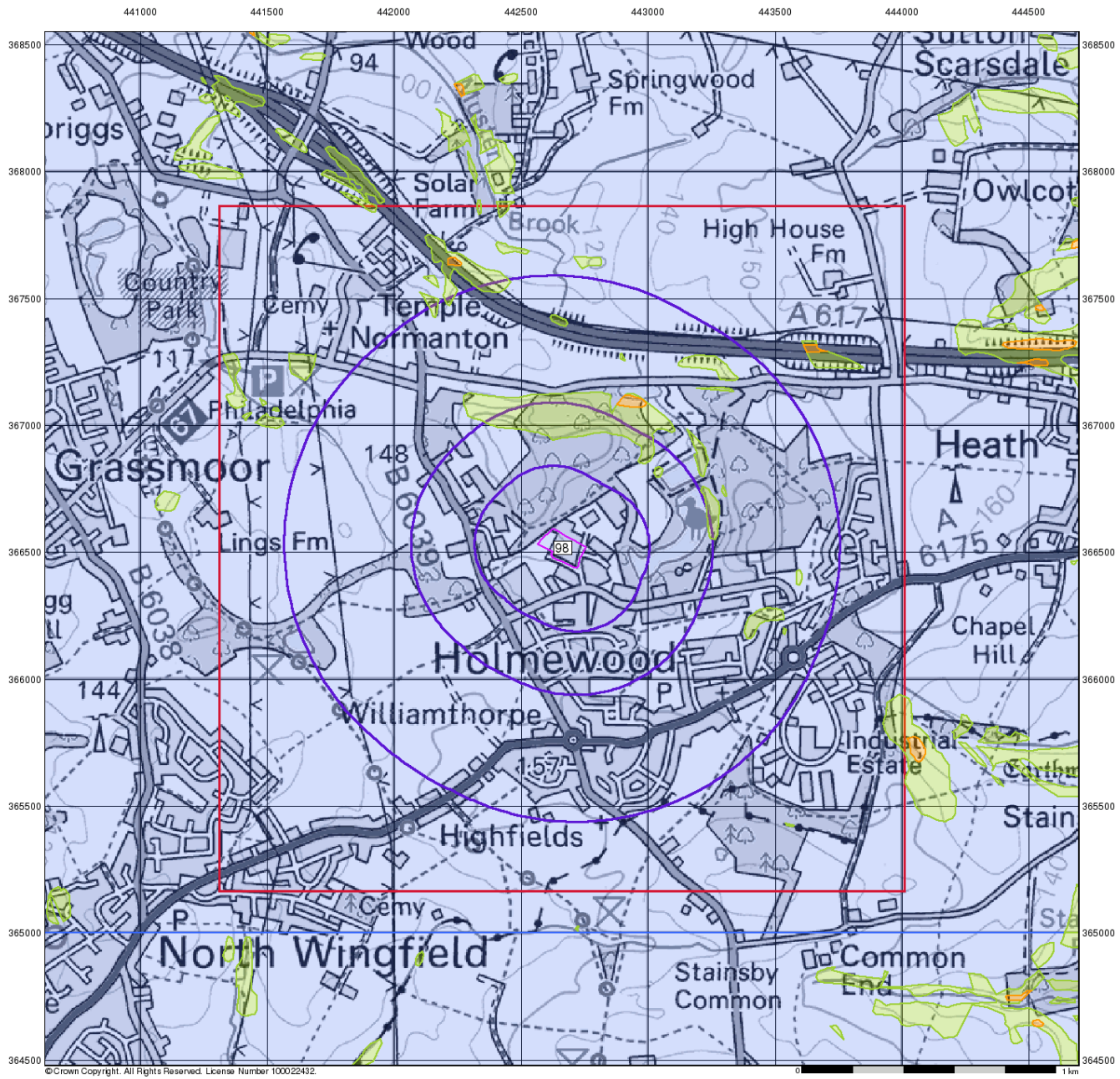
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Ground Stability Data (1:50,000)

General

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

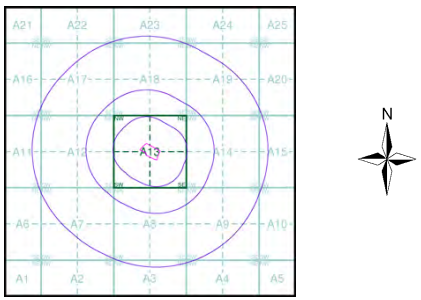
Potential for Landslide Ground Stability Hazards

High
Low
Moderate
Very Low

Potential for Ground Dissolution Stability Hazards

High
Low
Moderate
Very Low

Mining and Ground Stability - Slice A



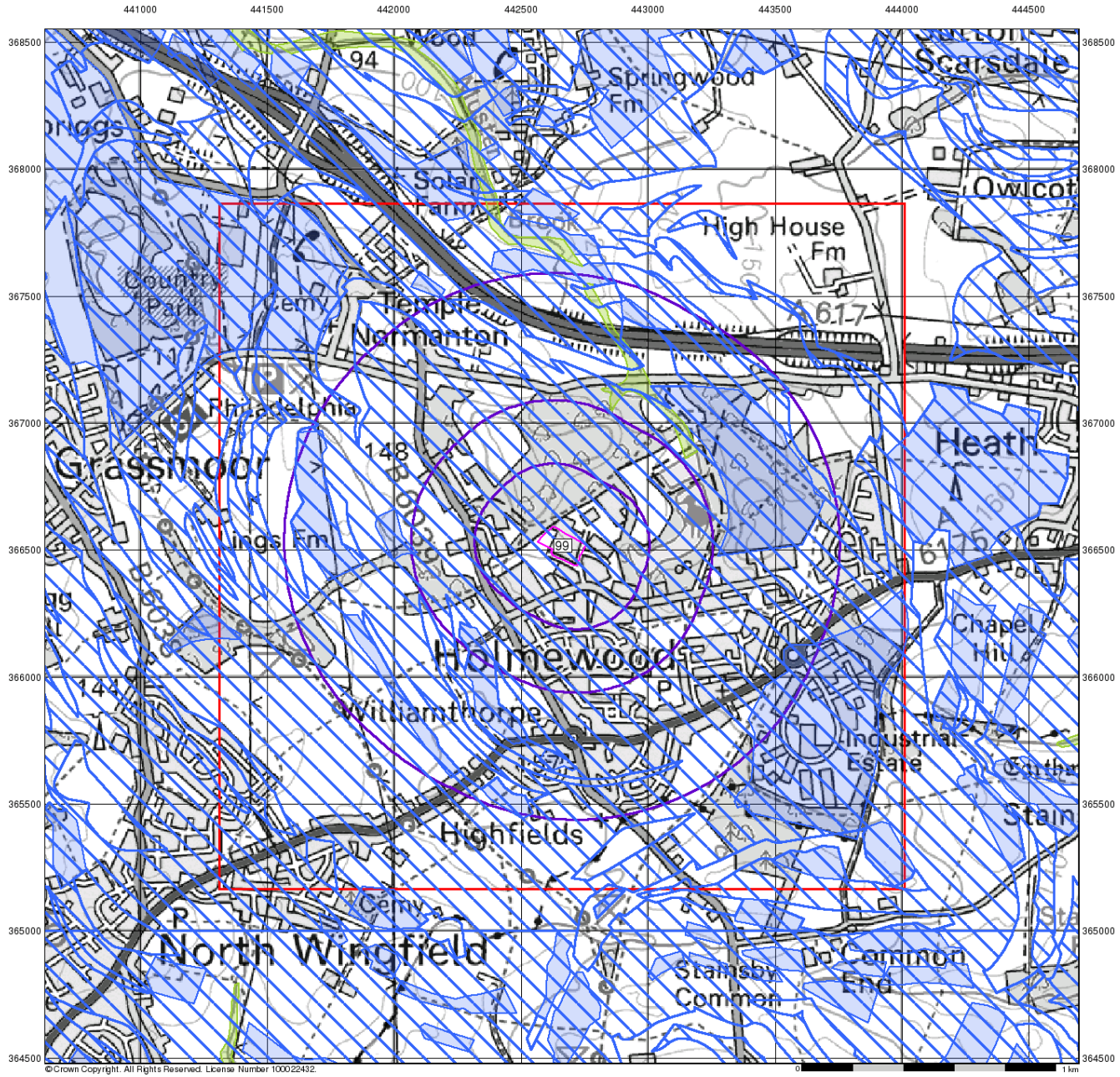
Order Details

Order Number:	234039940_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

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



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Ground Stability Data (1:50,000)

General

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

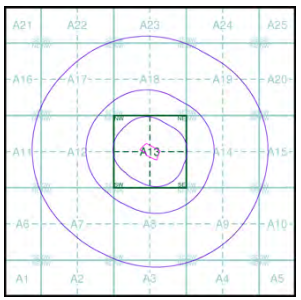
Potential for Running Sand Ground Stability Hazards

High
Low
Moderate
Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High
Low
Moderate
Very Low

Mining and Ground Stability - Slice A



N

Order Details

Order Number:	234039940_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

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Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
234039940_1_1

Customer Reference:
14265

National Grid Reference:
442660, 366520

Slice:
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Site Area (Ha):
1.48

Search Buffer (m):
1000

Site Details:

CBE Plus Limited
Enterprise Drive
Holmewood
CHESTERFIELD
S42 5UZ

Client Details:

Mr M Kelly
ECUS
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Sheffield
S61 2DW

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Contents

Report Section and Details	Page Number
Summary	**-**
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	**1**
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	**6**
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	**8**
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	**11**
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	**12**
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	**13**
Data Suppliers	**14**
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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Summary

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Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	1	1
Coal Mining Affected Areas	pg 1	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 1	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 1	Yes		n/a	n/a
Potential Mining Areas	pg 1	3	4	5	20
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)	pg 6	2	2	n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)	pg 6	3	3	n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 6	1	3	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
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General Quarrying					
Heap, unknown constituents	pg 8			1	
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Mining & quarrying general	pg 8		1		
Mining of coal & lignite	pg 8	1		2	2
Quarrying of sand & clay, operation of sand & gravel pits	pg 8		1		
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 8	1	1	2	2
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Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	Yes		n/a	n/a
Salt Mining Related Features					

Summary

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Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**BGS Recorded Mineral Sites** Site Name: Williamthorpe Colliery Location: Holmewood, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 16059 Type: Underground **Status: Ceased** Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	120	1	442750 366660
2	**BGS Recorded Mineral Sites** Site Name: Temple Normanton Mine Location: Temple Normanton, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 32346 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	486	1	442174 366819
3	**BGS Recorded Mineral Sites** Site Name: Lings Colliery Location: Holmewood, Chesterfield, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 16060 Type: Underground **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12SE (W)	526	1	442040 366510
	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.	A13NE (N)	0	2	442664 366515
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (N)	0	3	442664 366515
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
4	**Potential Mining Areas** Name: Ling's Ceased Operation: 1898 Commodity: Coal; Top Hard Reference: 3896 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (N)	0	4	442664 366515
5	**Potential Mining Areas** Name: Holmewood (District) Ceased Operation: 1863 Commodity: Coal; Probably Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A13NE (N)	0	4	442664 366515
6	**Potential Mining Areas** Name: Ling's Ceased Operation: 1896 Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: No. 6 Custodian: Joseph Archer and Son, 9 Albion Place, Bennetthorpe, Doncaster.	A13NE (N)	0	4	442664 366515

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Potential Mining Areas** Name: Grassmoor Ceased Operation: 1909 Commodity: Coal; Ell Reference: 5373 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (N)	192	4	442661 366783
8	**Potential Mining Areas** Name: Grassmoor Ceased Operation: 1934 Commodity: Coal; Deep Soft or Dunston Reference: 11396 Alternate Name/Mine: No. 2 Custodian: Not Supplied	A13NE (N)	192	4	442661 366783
9	**Potential Mining Areas** Name: Temple Normanton Ceased Operation: 1887 Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Joseph Archer and Son, 9 Albion Place, Bennetthorpe, Doncaster.	A13NE (N)	192	4	442661 366783
10	**Potential Mining Areas** Name: Williamthorpe Ceased Operation: 1847 Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: C. Adams, Engineer's Office, L.M. and S. Railway Co., Derby.	A13SW (W)	206	4	442360 366512
11	**Potential Mining Areas** Name: Holmewood Ceased Operation: 1893 Commodity: Coal; Three Quarters Reference: 2971 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A14SW (E)	433	4	443166 366387
12	**Potential Mining Areas** Name: Holmewood Ceased Operation: 1907 Commodity: Coal; Top Hard Reference: 5297 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A14SW (E)	433	4	443166 366387
13	**Potential Mining Areas** Name: Owl Cotes Ceased Operation: 1897 Commodity: Coal; Top Hard Reference: 3897 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A14NW (NE)	488	4	443162 366789
14	**Potential Mining Areas** Name: Owl Cotes Ceased Operation: 1863 Commodity: Coal; Top Hard; Seam unnamed Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A14NW (NE)	488	4	443162 366789
15	**Potential Mining Areas** Name: Holmewood; Old Ceased Operation: Not Supplied Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A14NW (NE)	488	4	443162 366789

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Potential Mining Areas** Name: Bond's Main Ceased Operation: 1923 Commodity: Coal; Deep Soft; Blackshale or Silkstone Reference: 7679 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A18SW (N)	594	4	442656 367185
17	**Potential Mining Areas** Name: Wingfield; North (District) Ceased Operation: 1842 Commodity: Coal; Seam unnamed Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A12SW (W)	627	4	441960 366373
18	**Potential Mining Areas** Name: Hardwick Ceased Operation: 1877 Commodity: Coal; Deep Hard Reference: 4704 Alternate Name/Mine: Holmewood Custodian: Not Supplied	A9NW (SE)	640	4	443171 365985
19	**Potential Mining Areas** Name: Holmewood Ceased Operation: 1886 Commodity: Coal; Ell Reference: 2419 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A9NW (SE)	640	4	443171 365985
20	**Potential Mining Areas** Name: Hardwick Ceased Operation: 1887 Commodity: Coal; Ell Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A9NW (SE)	640	4	443171 365985
21	**Potential Mining Areas** Name: Hardwick Ceased Operation: 1880 Commodity: Coal; First Waterloo; Hartington Reference: 1896 Alternate Name/Mine: Holmewood Custodian: Not Supplied	A9NW (SE)	640	4	443171 365985
22	**Potential Mining Areas** Name: Hazel Ridge Ceased Operation: 1932 Commodity: Coal; High Hazel Reference: 10821 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A18SW (NW)	652	4	442353 367182
23	**Potential Mining Areas** Name: Grassmoor Ceased Operation: 1874 Commodity: Coal; Top Hard Reference: 178 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A18SW (NW)	652	4	442353 367182
24	**Potential Mining Areas** Name: Heath (District) Ceased Operation: 1842 Commodity: Coal; Waterloo; Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A14NE (E)	813	4	443567 366526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	**Potential Mining Areas** Name: Holmewood Ceased Operation: 1854 Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: Coke, Turner and Co., 26 Low Pavement, Nottingham.	A14NE (E)	813	4	443567 366526
26	**Potential Mining Areas** Name: Holmewood Ceased Operation: 1847 Commodity: Coal; Top Hard; Waterloo Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: C. Adams, Engineer's Office, L.M. and S. Railway Co., Derby.	A14NE (E)	813	4	443567 366526
27	**Potential Mining Areas** Name: Alma Ceased Operation: 1883 Commodity: Coal; First Silkstone; Ell Reference: 1556 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
28	**Potential Mining Areas** Name: Alma Ceased Operation: 1893 Commodity: Coal; Silkstone (Wallsend) Reference: 2980 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
29	**Potential Mining Areas** Name: Alma Ceased Operation: 1907 Commodity: Coal; Tupton Reference: 5086 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
30	**Potential Mining Areas** Name: Alma Ceased Operation: 1911 Commodity: Coal; Deep Hard Reference: 5673 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
31	**Potential Mining Areas** Name: Wingfield; North Ceased Operation: 1922 Commodity: Coal; Deep Soft Reference: 7415 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
32	**Potential Mining Areas** Name: Wingfield; North Ceased Operation: 1883 Commodity: Coal; Ell Reference: 1475 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A7NW (SW)	823	4	441964 365971
33	**Potential Mining Areas** Name: Holmewood Ceased Operation: Not Supplied Commodity: Coal; Top Hard Reference: Not Supplied Alternate Name/Mine: Not Supplied Custodian: The Chatsworth Estates (Hardwick and Chesterfield) Co., 68 St. Helen's Street, Chesterfield.	A14NE (E)	854	4	443564 366793

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	**Potential Mining Areas** Name: Bond's Main Ceased Operation: 1928 Commodity: Coal; Deep Hard Reference: 9480 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A23SW (N)	996	4	442652 367588
35	**Potential Mining Areas** Name: Springwood and Bond's Main Ceased Operation: 1901 Commodity: Coal; Ell Reference: 4121 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A23SW (N)	996	4	442652 367588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	**Extractive Industries or Potential Excavations from 1906-1937** Use: Railway Cutting First Map Published Date: 1917 Last Map Published Date: Not Applicable	A13SE (W)	0	-	442661 366514
37	**Extractive Industries or Potential Excavations from 1906-1937** Use: Williamthorpe Colliery First Map Published Date: 1917 Last Map Published Date: 1918	A13NE (N)	0	-	442664 366515
38	**Extractive Industries or Potential Excavations from 1906-1937** Use: Shaft First Map Published Date: 1917 Last Map Published Date: Not Applicable	A13NE (NE)	68	-	442733 366610
39	**Extractive Industries or Potential Excavations from 1906-1937** Use: Unspecified Deposited Material First Map Published Date: 1917 Last Map Published Date: Not Applicable	A13SE (SE)	83	-	442808 366433
40	**Extractive Industries or Potential Excavations from 1924-1949** Use: Unspecified Deposited Material First Map Published Date: 1938 Last Map Published Date: Not Applicable	A13SE (SE)	0	-	442712 366468
41	**Extractive Industries or Potential Excavations from 1924-1949** Use: Williamthorpe Colliery First Map Published Date: 1938 Last Map Published Date: 1938	A13NE (N)	0	-	442664 366515
42	**Extractive Industries or Potential Excavations from 1924-1949** Use: Railway Cutting First Map Published Date: 1938 Last Map Published Date: Not Applicable	A13NW (W)	0	-	442606 366517
43	**Extractive Industries or Potential Excavations from 1924-1949** Use: Unspecified Deposited Material First Map Published Date: 1938 Last Map Published Date: Not Applicable	A13NE (E)	69	-	442821 366537
44	**Extractive Industries or Potential Excavations from 1924-1949** Use: Shaft First Map Published Date: 1938 Last Map Published Date: Not Applicable	A13NE (NE)	70	-	442732 366612
45	**Extractive Industries or Potential Excavations from 1924-1949** Use: Unspecified Deposited Material First Map Published Date: 1938 Last Map Published Date: Not Applicable	A13SE (SE)	82	-	442808 366431
46	**Extractive Industries or Potential Excavations from 1950-1980** Use: Mine First Map Published Date: 1962 Last Map Published Date: 1970	A13NE (N)	0	-	442664 366515

Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	**Extractive Industries or Potential Excavations from 1950-1980** Use: Railway Cutting First Map Published Date: 1962 Last Map Published Date: N/A	A13NW (NW)	25	-	442586 366592
48	**Extractive Industries or Potential Excavations from 1950-1980** Use: Unspecified Deposited Material First Map Published Date: 1962 Last Map Published Date: Not Applicable	A13NW (NW)	56	-	442552 366601
49	**Extractive Industries or Potential Excavations from 1950-1980** Use: Spoil Heap First Map Published Date: 1962 Last Map Published Date: 1970	A13NE (E)	66	-	442819 366535

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	**Heap, unknown constituents** Use: Not Supplied Date of Mapping: 1939	A14SW (E)	473	-	443215 366412
51	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1955	A13NW (NW)	19	-	442597 366591
52	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1955	A13SW (W)	100	-	442479 366483
53	**Mineral Railway** Use: Not Supplied Date of Mapping: 1884 - 1955	A12SW (W)	643	-	441930 366439
54	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1955	A19SW (NE)	710	-	443190 367080
55	**Mineral Railway** Use: Not Supplied Date of Mapping: 1884 - 1900	A12SW (W)	852	-	441734 366348
56	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1955	A12SW (W)	853	-	441733 366349
57	**Mineral Railway** Use: Not Supplied Date of Mapping: 1900	A14SE (E)	855	-	443567 366253
58	**Mineral Railway** Use: Not Supplied Date of Mapping: 1921 - 1955	A14SE (E)	877	-	443631 366491
59	**Mineral Railway** Use: Not Supplied Date of Mapping: 1884 - 1955	A11SE (W)	991	-	441625 366224
60	**Mineral Railway** Use: Not Supplied Date of Mapping: 1884 - 1955	A11SE (W)	995	-	441620 366225
61	**Mining & quarrying general** Use: Not Supplied Date of Mapping: 1993	A13NE (NE)	86	-	442779 366605
62	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1921 - 1955	A13NE (N)	0	-	442664 366520
63	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1884 - 1900	A12NE (W)	299	-	442275 366599
64	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1883 - 1899	A12NE (NW)	464	-	442177 366787
65	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1900 - 1955	A14SE (E)	848	-	443556 366245
66	**Mining of coal & lignite** Use: Not Supplied Date of Mapping: 1883	A19SE (NE)	978	-	443477 367179
67	**Quarrying of sand & clay, operation of sand & gravel pits** Use: Not Supplied Date of Mapping: 1921	A13NW (NW)	104	-	442486 366598
68	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NE (N)	0	-	442664 366515
69	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13NW (NW)	104	-	442486 366598
70	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NE (W)	299	-	442275 366599

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NE (NW)	469	-	442179 366797
72	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SE (E)	848	-	443556 366245
73	**Potentially Infilled Land (Non-Water)** Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SE (NE)	978	-	443477 367179
74	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SW (SW)	184	-	442517 366333
75	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (E)	209	-	442960 366482
76	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (E)	258	-	442980 366395
77	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14SW (SE)	341	-	443004 366248
78	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (SE)	356	-	442990 366205
79	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A18SW (NW)	390	-	442357 366873
80	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SW (NW)	391	-	442357 366876
81	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18SE (NE)	403	-	442902 366899
82	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (SW)	429	-	442353 366149
83	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19SW (NE)	621	-	443056 367064
84	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1900	A8SE (S)	657	-	442699 365783
85	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SW (W)	674	-	441916 366355
86	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	826	-	443167 367235
87	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1883	A17NE (NW)	833	-	442092 367230
88	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A18NE (N)	840	-	442847 367401
89	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A17NE (NW)	860	-	442135 367296
90	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SW (W)	892	-	441693 366351
91	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1899	A17SW (NW)	899	-	441947 367189

Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A19NW (NE)	912	-	443175 367330
93	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A7NW (W)	973	-	441681 366127
94	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	991	-	443253 365604
95	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	991	-	443300 365636
96	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A9SW (SE)	993	-	443282 365620

Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
97	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	170	1	442923 366497
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
98	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515
99	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	442664 366515

Historical Map List

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Derbyshire	025_16	1877
Derbyshire	030_04	1878
Derbyshire	025_16	1898
Derbyshire	030_04	1898
Derbyshire	030_04	1917
Derbyshire	025_16	1918
Derbyshire	025_16	1938
Derbyshire	030_04	1938
Ordnance Survey Plan	SK4266	1962

The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Derbyshire	025_SE	1883
Derbyshire	026_SW	1883
Derbyshire	030_NE	1884
Derbyshire	031_NW	1884
Derbyshire	025_SE	1899
Derbyshire	026_SW	1899
Nottinghamshire	022_NW	1900
Derbyshire	030_NE	1900
Derbyshire	031_NW	1900
Nottinghamshire	022_NW	1921
Derbyshire	025_SE	1921
Derbyshire	026_SW	1921
Derbyshire	030_NE	1921
Derbyshire	031_00	1921
Derbyshire	025_SE	1938
Derbyshire	026_SW	1938
Derbyshire	030_NE	1939
Derbyshire	031_NW	1939
Ordnance Survey Plan	SK46NW	1955
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SK46NW	1993

Data Currency

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities Peter Brett Associates	December 2019	Bi-Annually
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Natural Cavities Peter Brett Associates	December 2019	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	**Version**	**Update Cycle**
Subterranean Features Landmark Information Group Limited	March 2019	Bi-Annually
Ground Stability Data (1:50,000)	**Version**	**Update Cycle**
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area Johnson Poole & Bloomer	January 2015	Annual Rolling Update

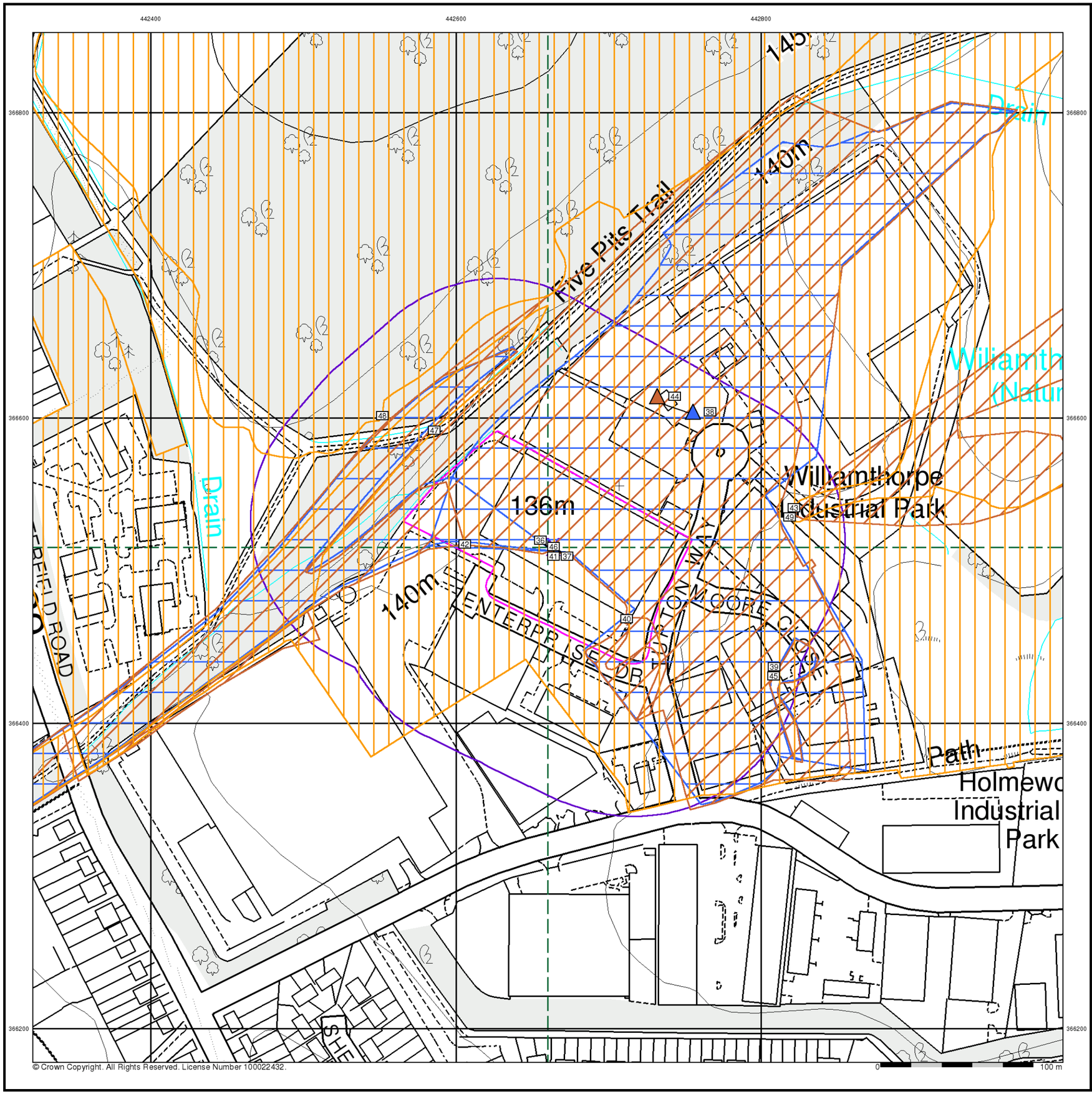
Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	
Johnson Poole & Bloomer	

Useful Contacts

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	**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
3	**Ove Arup & Partners** Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	**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



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Historical Land Use Information (1:2,500)

General

Specified Site | Specified Buffer(s) | Bearing Reference Point | Map ID

Several of Type at Location

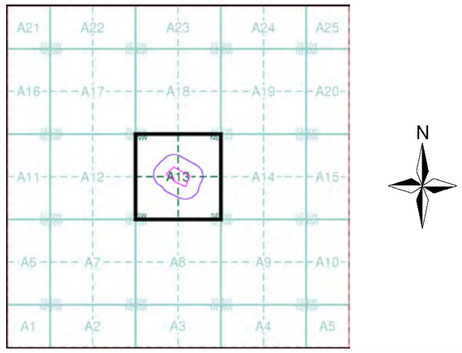
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	▢
Extractive Industries Activity from 1893 - 1915	▲	—	▢
Extractive Industries Activity from 1906 - 1937	▲	—	▢
Extractive Industries Activity from 1924 - 1949	▲	—	▢
Extractive Industries Activity from 1950 - 1980	▲	—	▢

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	- - -	▢

Mining and Ground Stability - Segment A13



Order Details

Order Number: 234039940_1_1
Customer Ref: 14265
National Grid Reference: 442660, 366520
Slice: A
Site Area (Ha): 1.48
Plot Buffer (m): 100

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood,
CHESTERFIELD, S42 5UZ

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

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
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Gravel, Sand, Silt and Clay	Not Supplied - Holocene

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	THR	Top Hard Rock	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	DHR	Deep Hard Rock	Sandstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

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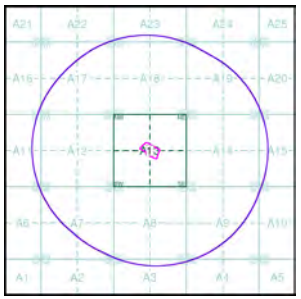
Geology 1:50,000 Maps

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:	**112**
Map Name:	**Chesterfield**
Map Date:	**2012**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



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Order Details:

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Customer Reference:	14265
National Grid Reference:	442660, 366520
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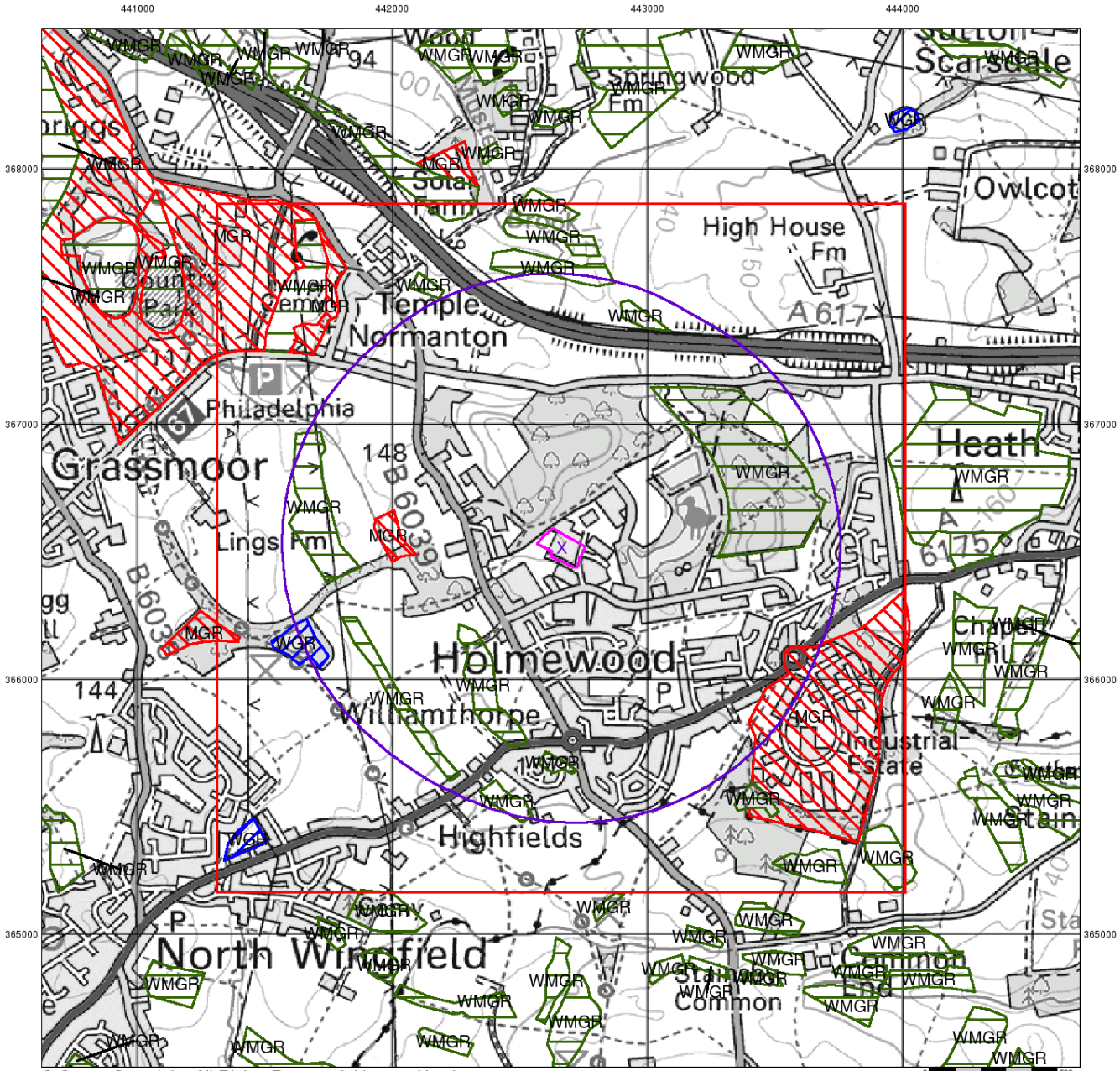
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details:

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ



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Artificial Ground and Landslip

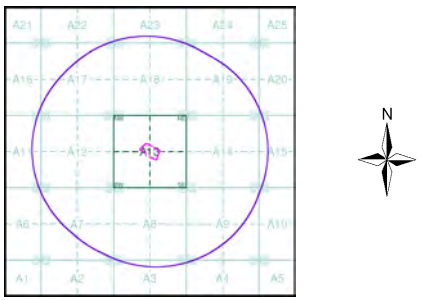
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



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Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

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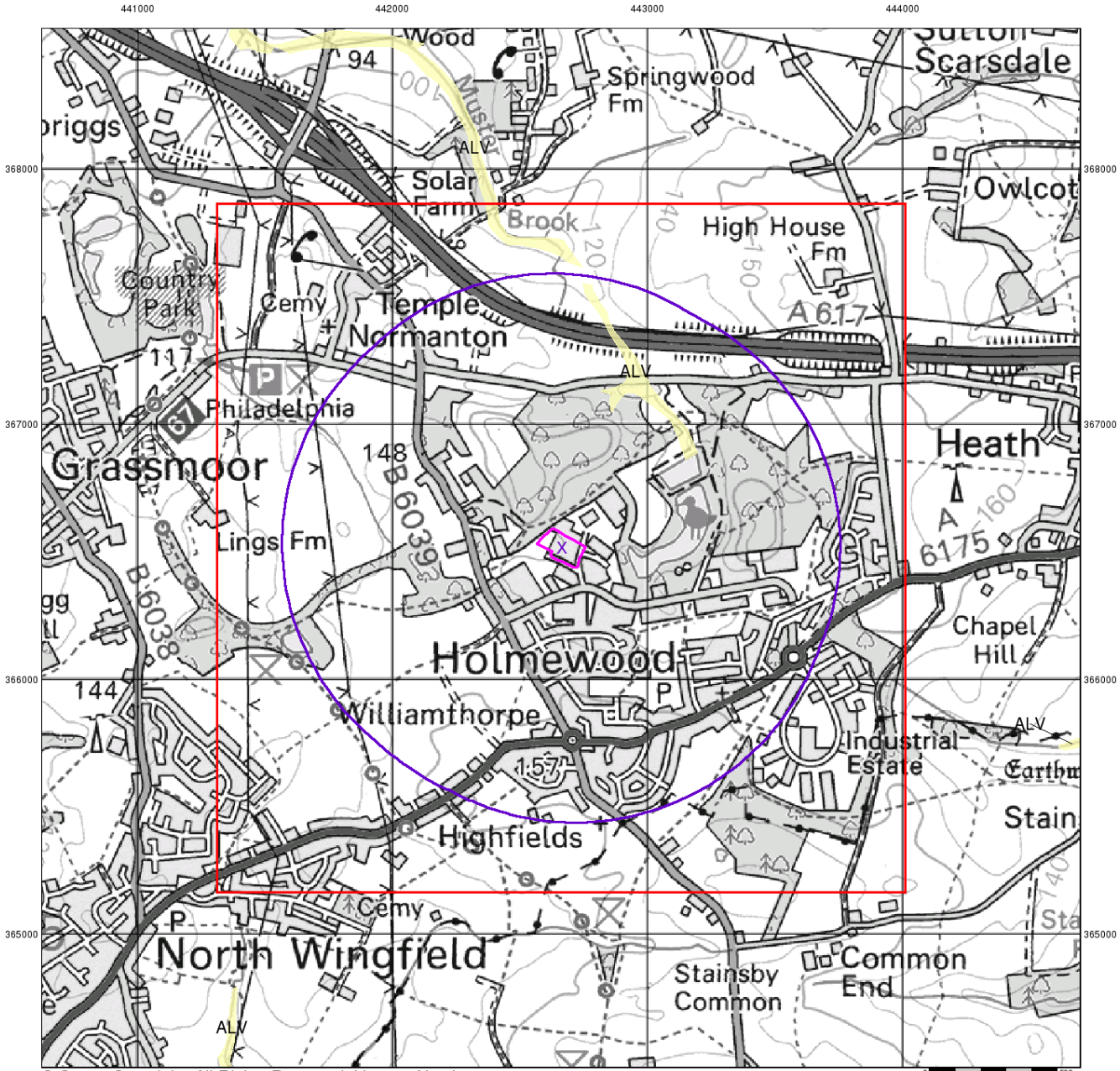

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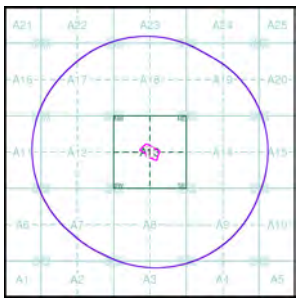
Superficial Geology

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



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Order Details:

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Customer Reference:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

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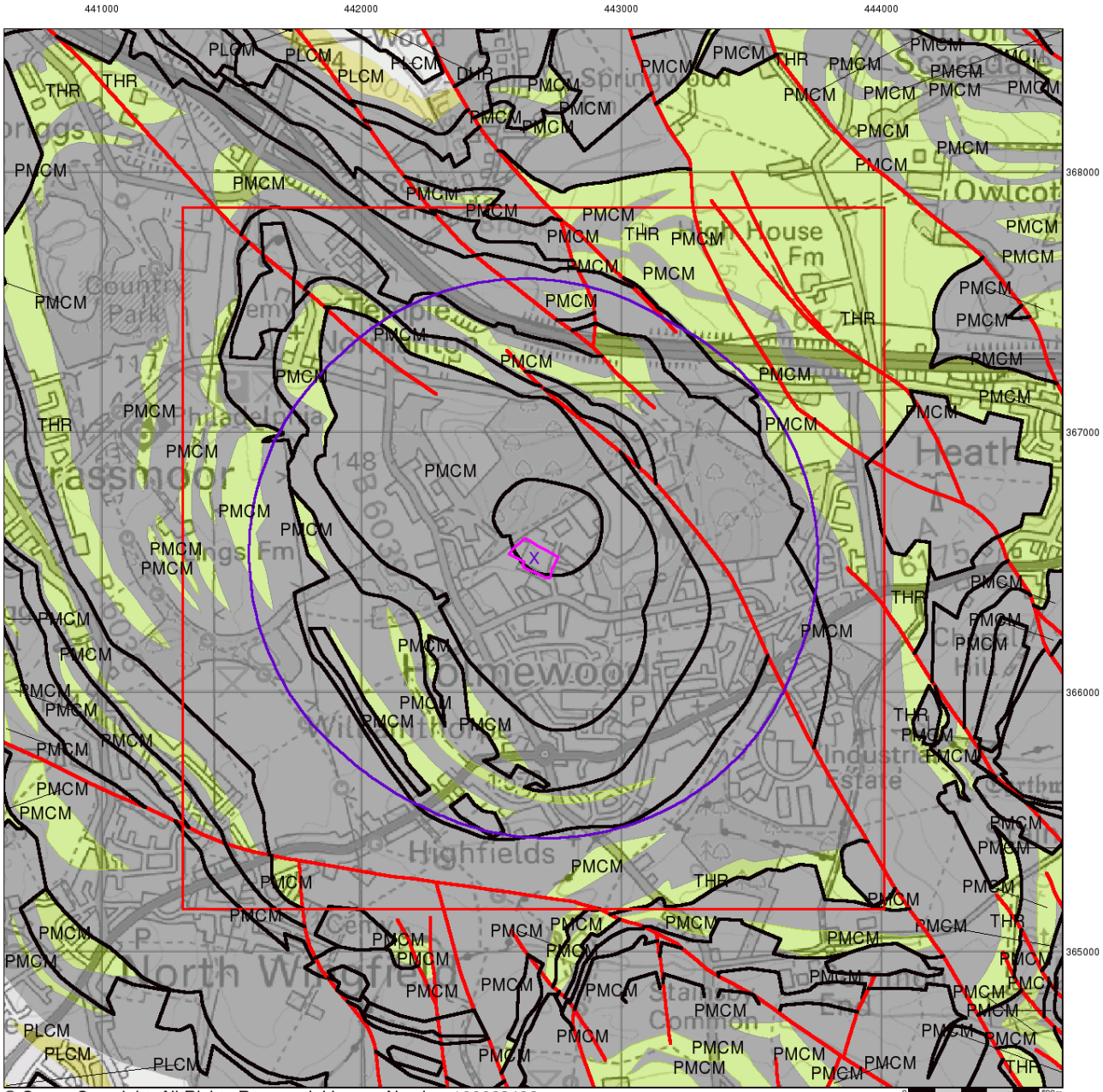

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Bedrock and Faults

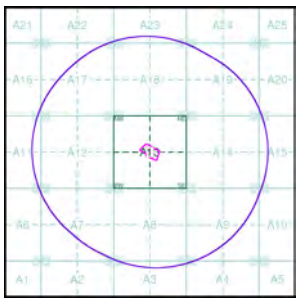
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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



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Order Details:

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Customer Reference:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details:

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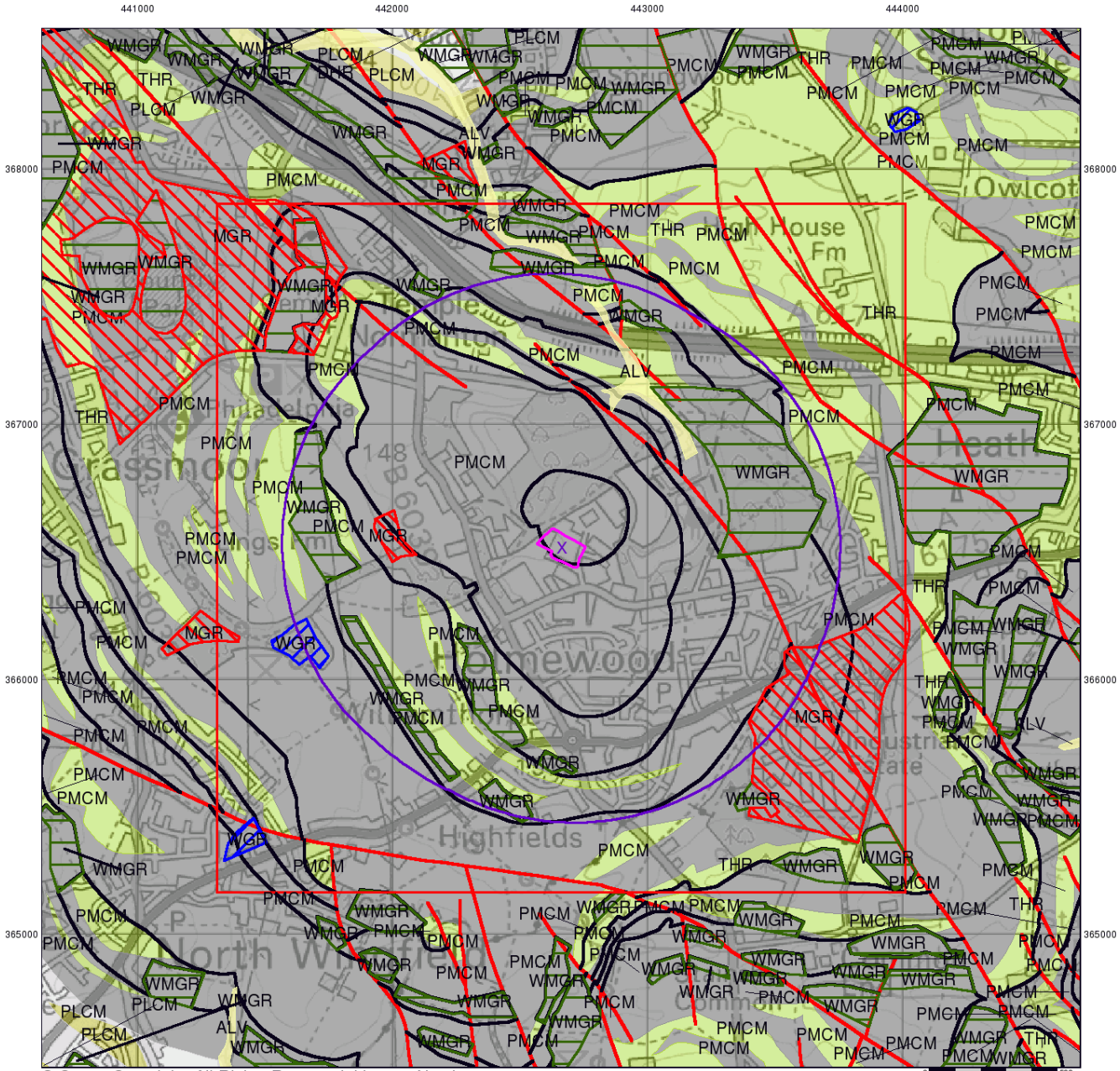

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Combined Surface Geology

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.

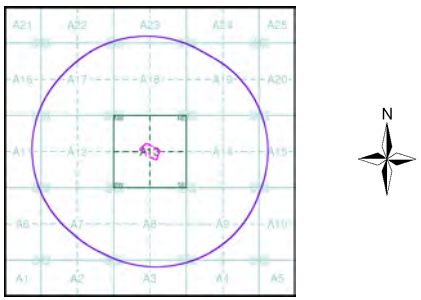
Additional Information

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



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Customer Reference:	14265
National Grid Reference:	442660, 366520
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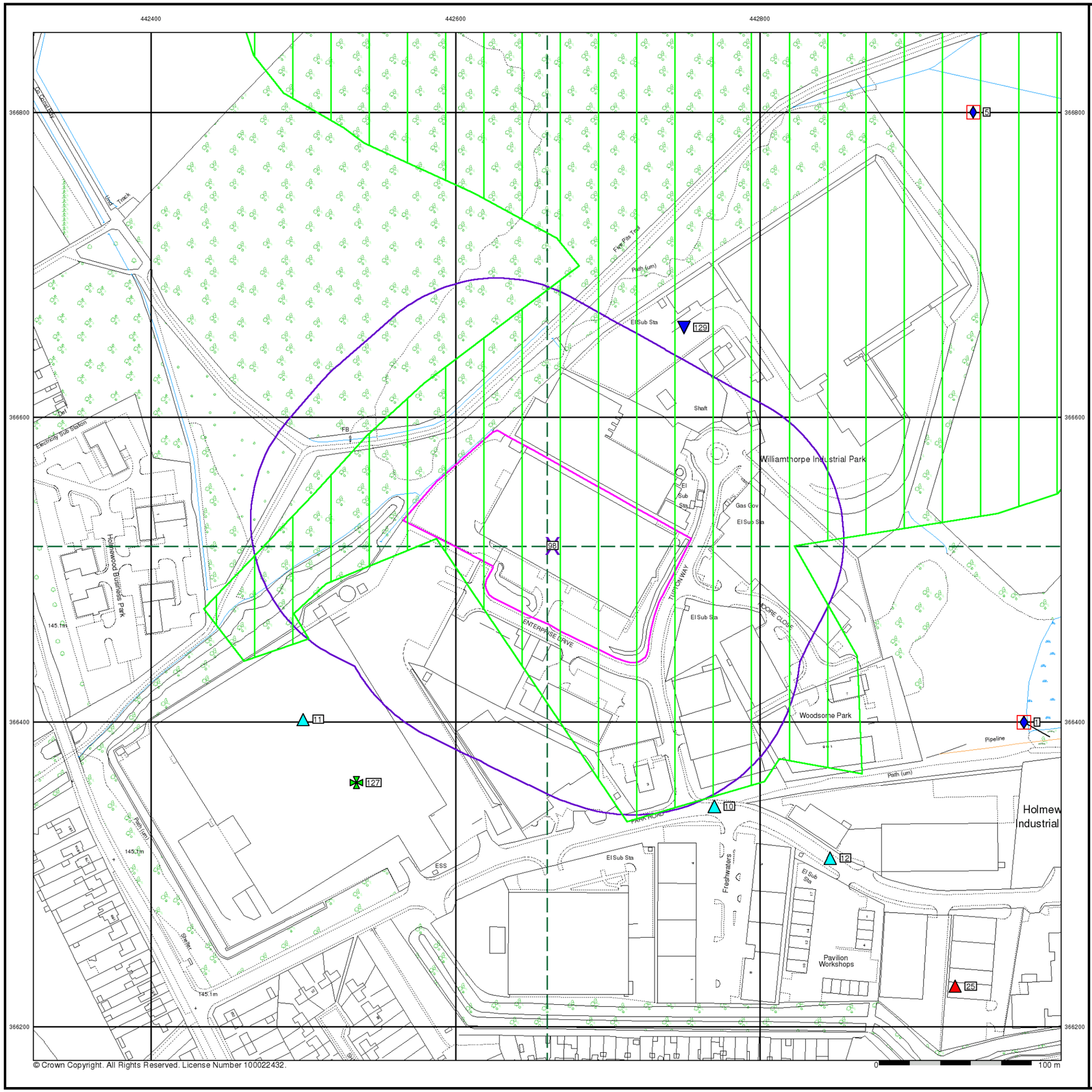
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details:

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ



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General

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

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
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

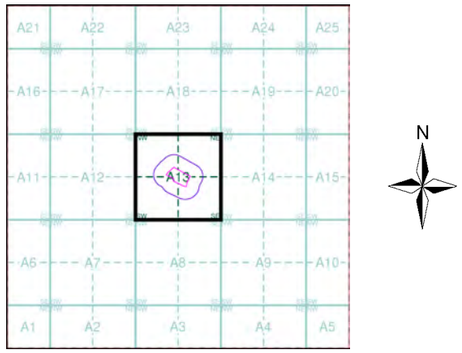
Geological

- 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 - Segment A13



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Plot Buffer (m):	100

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood,
CHESTERFIELD, S42 5UZ

Landmark INFORMATION GROUP

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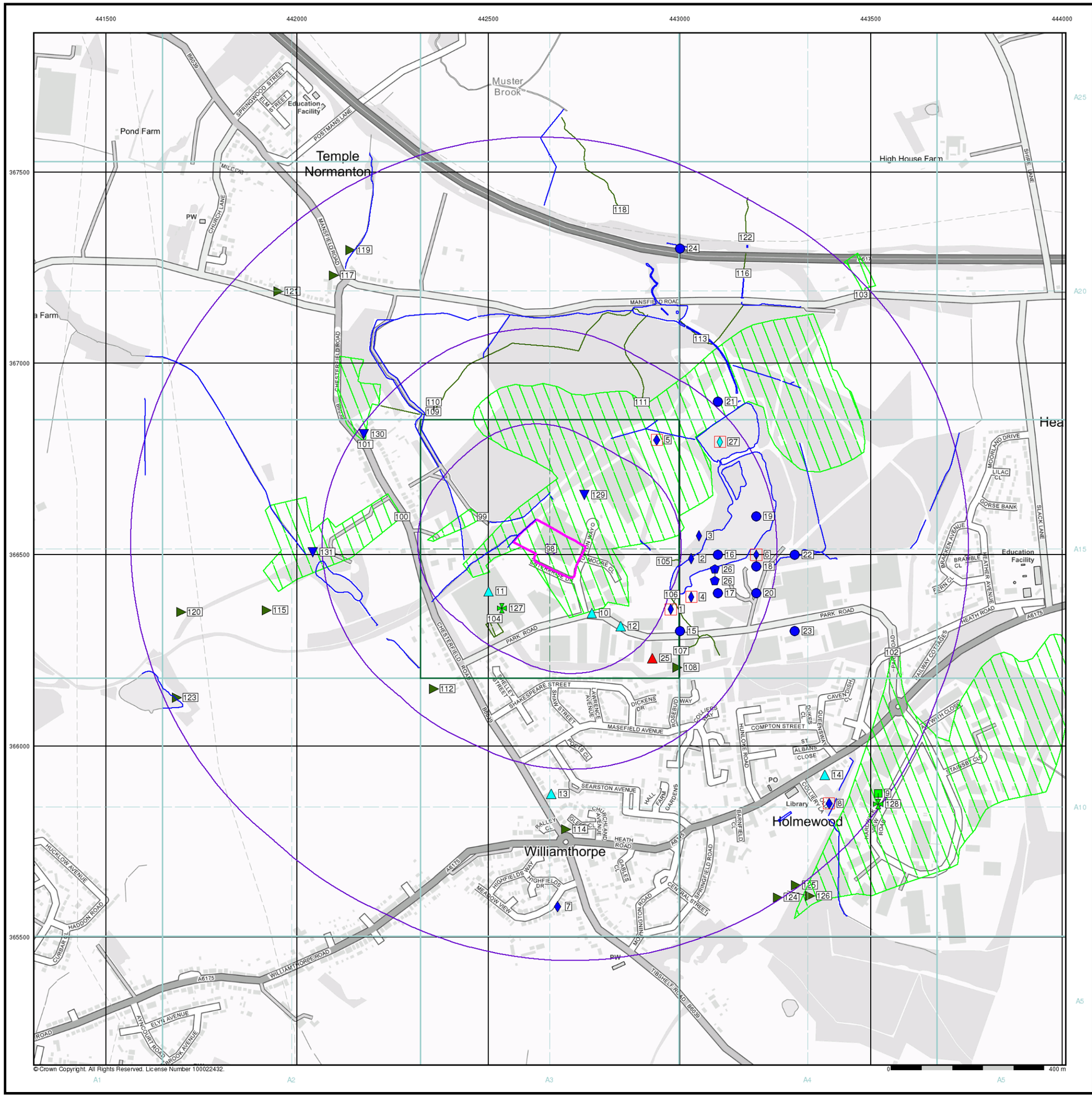
Web: www.envirocheck.co.uk



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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
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

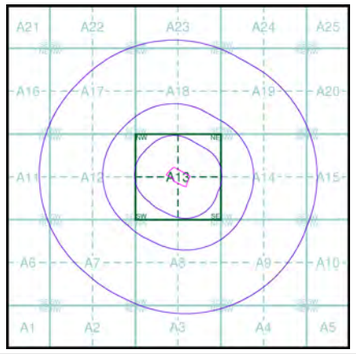
Geological

- 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



N

Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

CBE Plus Limited, Enterprise Drive, Holmewood, CHESTERFIELD, S42 5UZ

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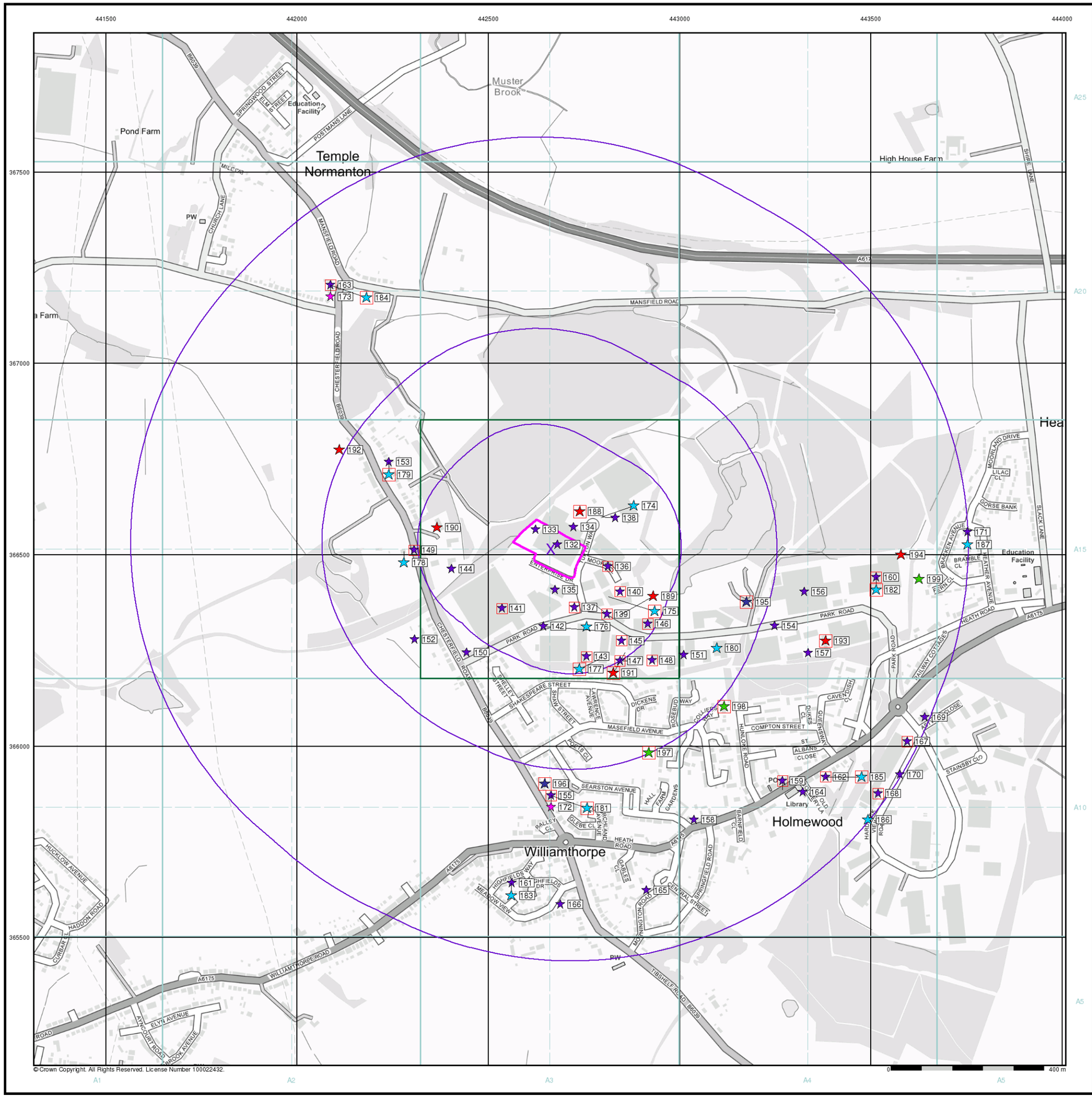

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Industrial Land Use Map

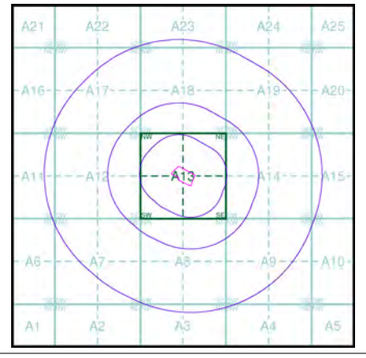
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



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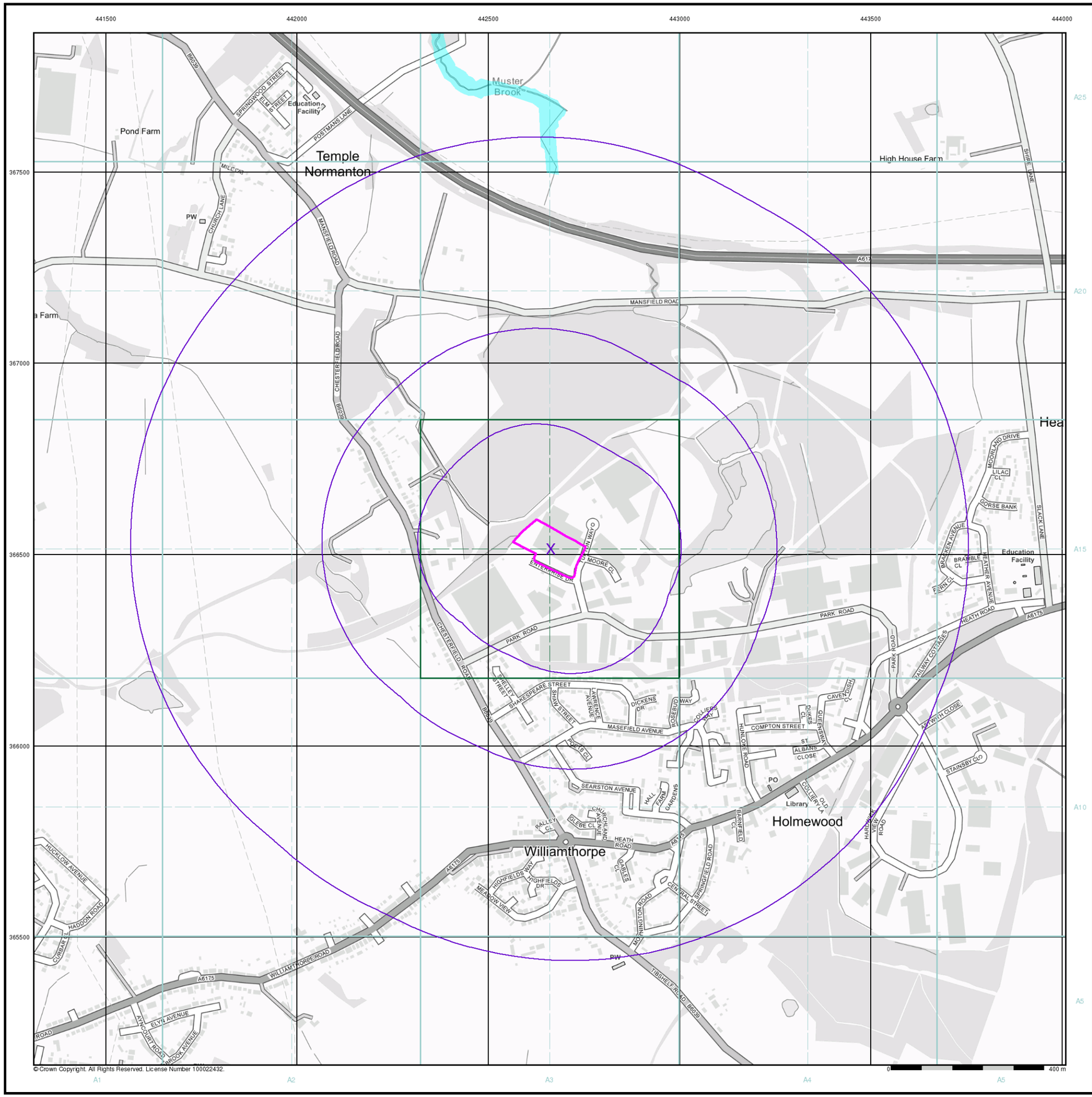

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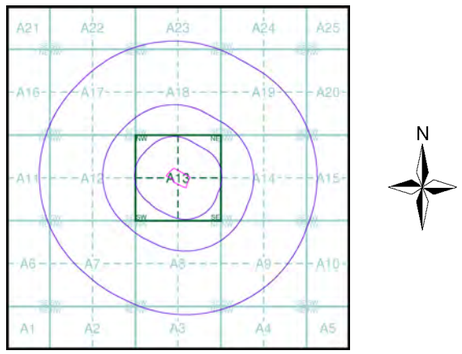
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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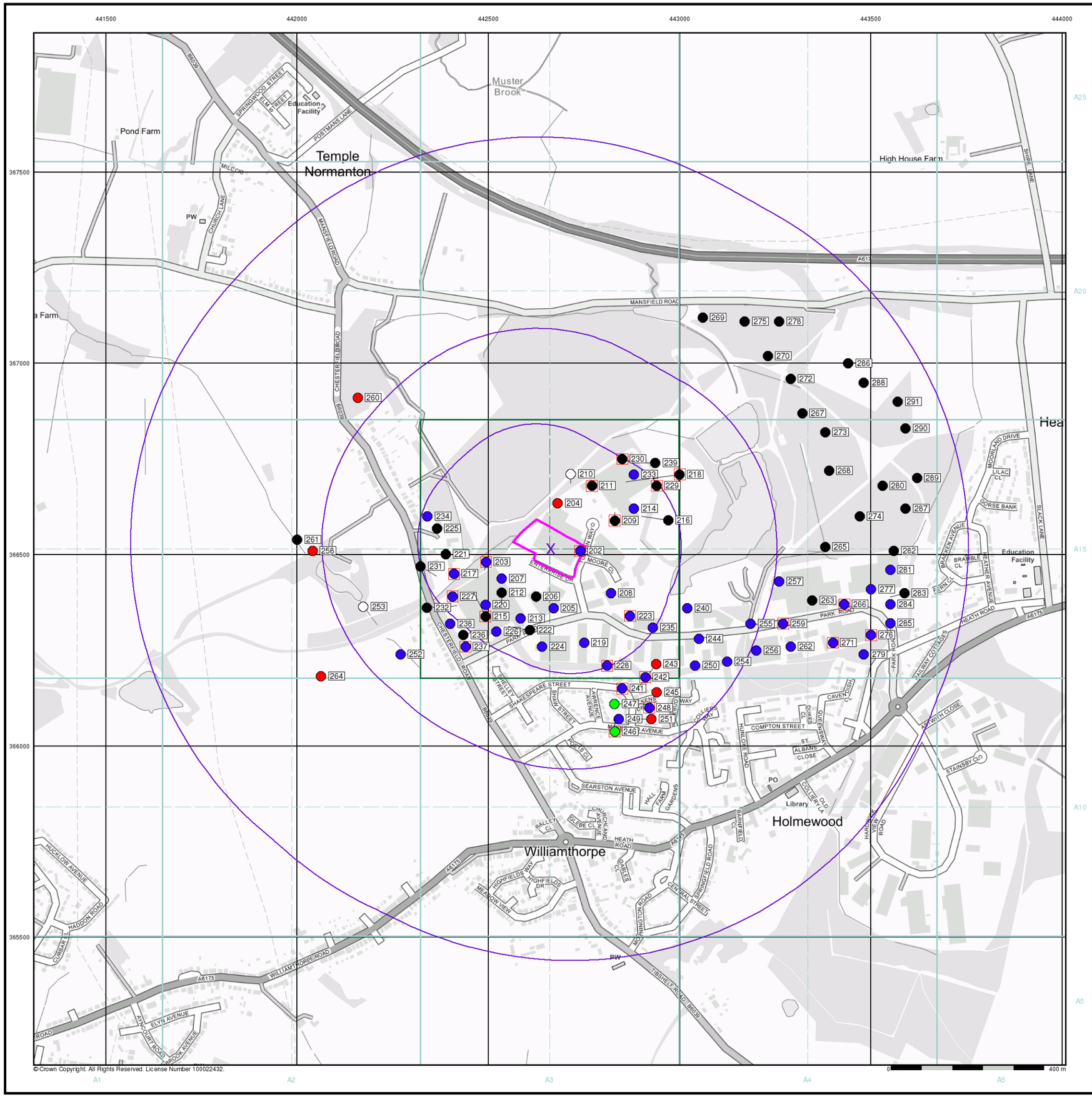

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General

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

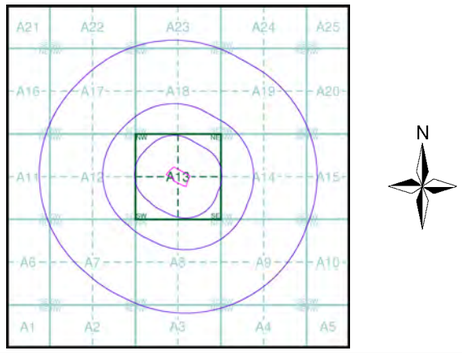
Agency and Hydrological (Boreholes)

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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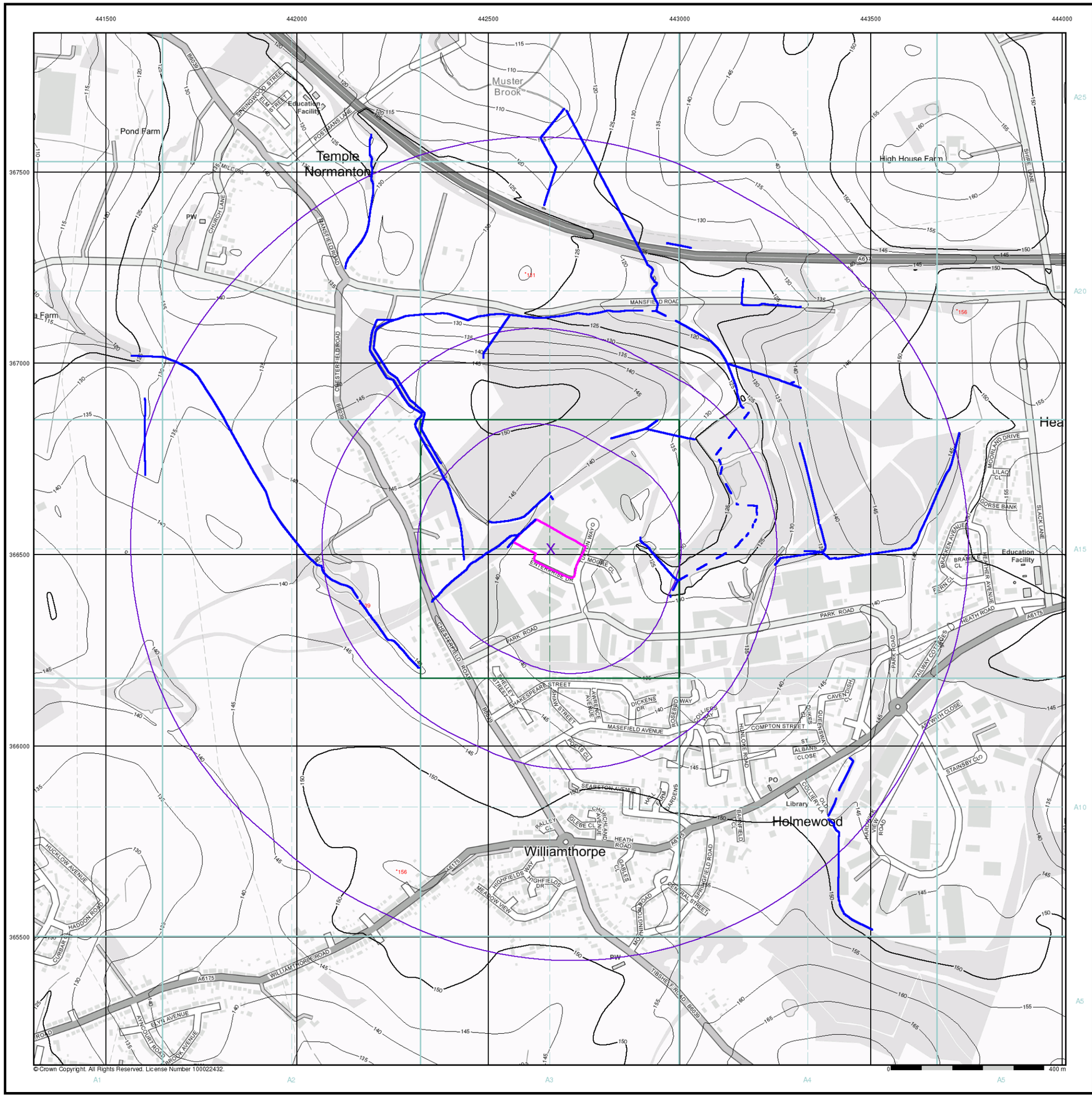

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General

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

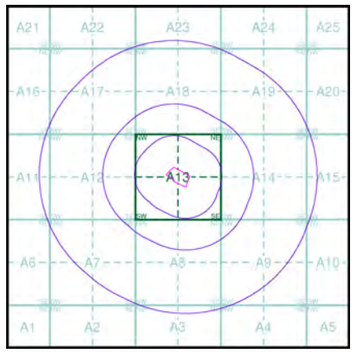
OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



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Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	1000

Site Details

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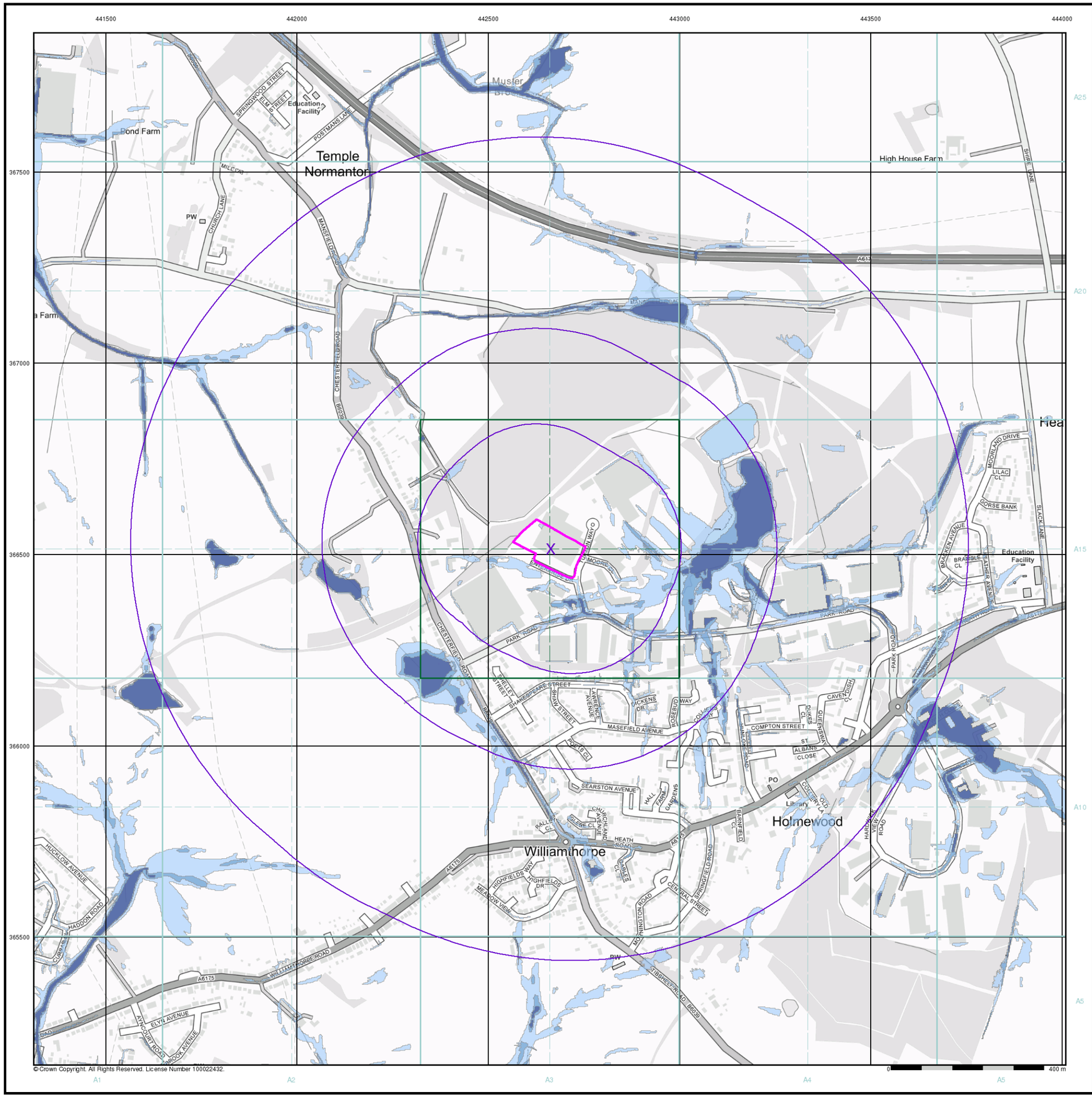

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General

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

Risk of Flooding from Surface Water

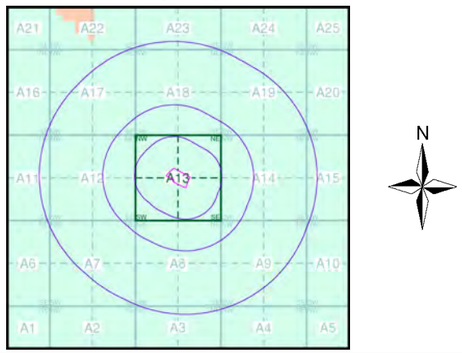
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EA/NRW Suitability Map - Slice A



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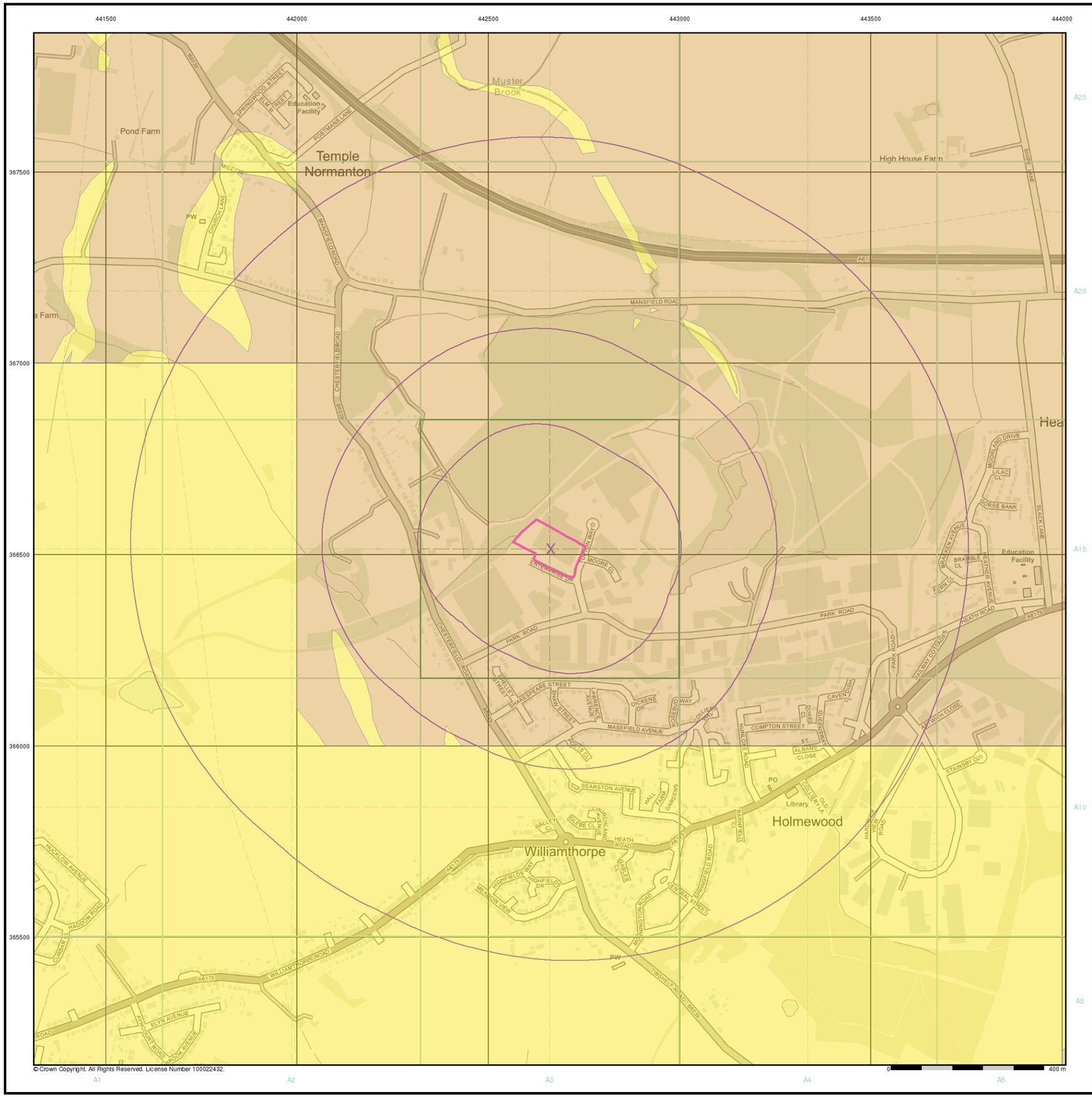

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General

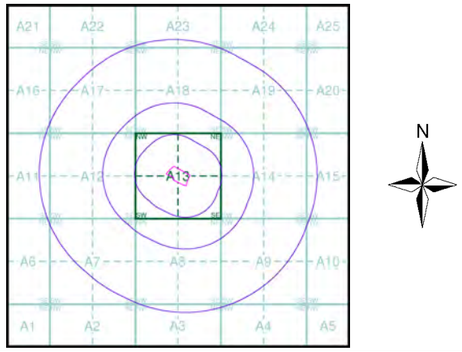
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

Estimated Soil Chemistry Arsenic - Slice A



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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
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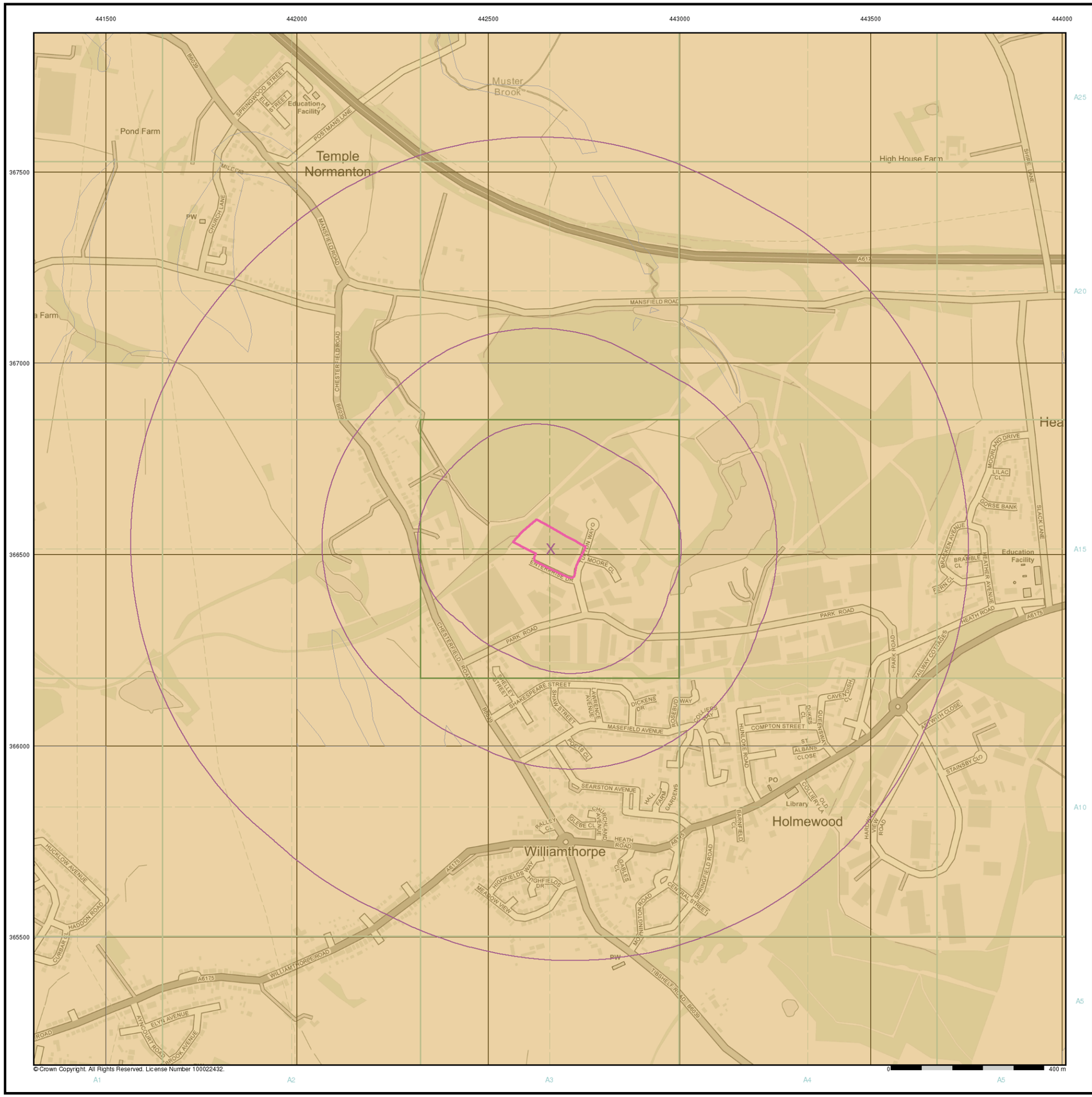

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General

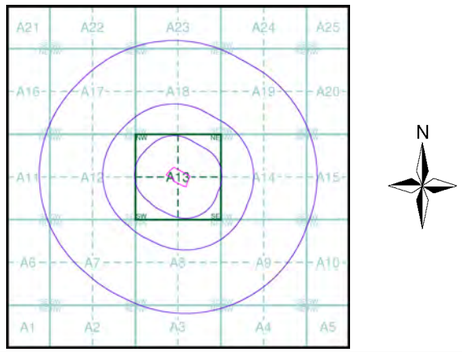
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

Estimated Soil Chemistry Cadmium - Slice A



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Order Details:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
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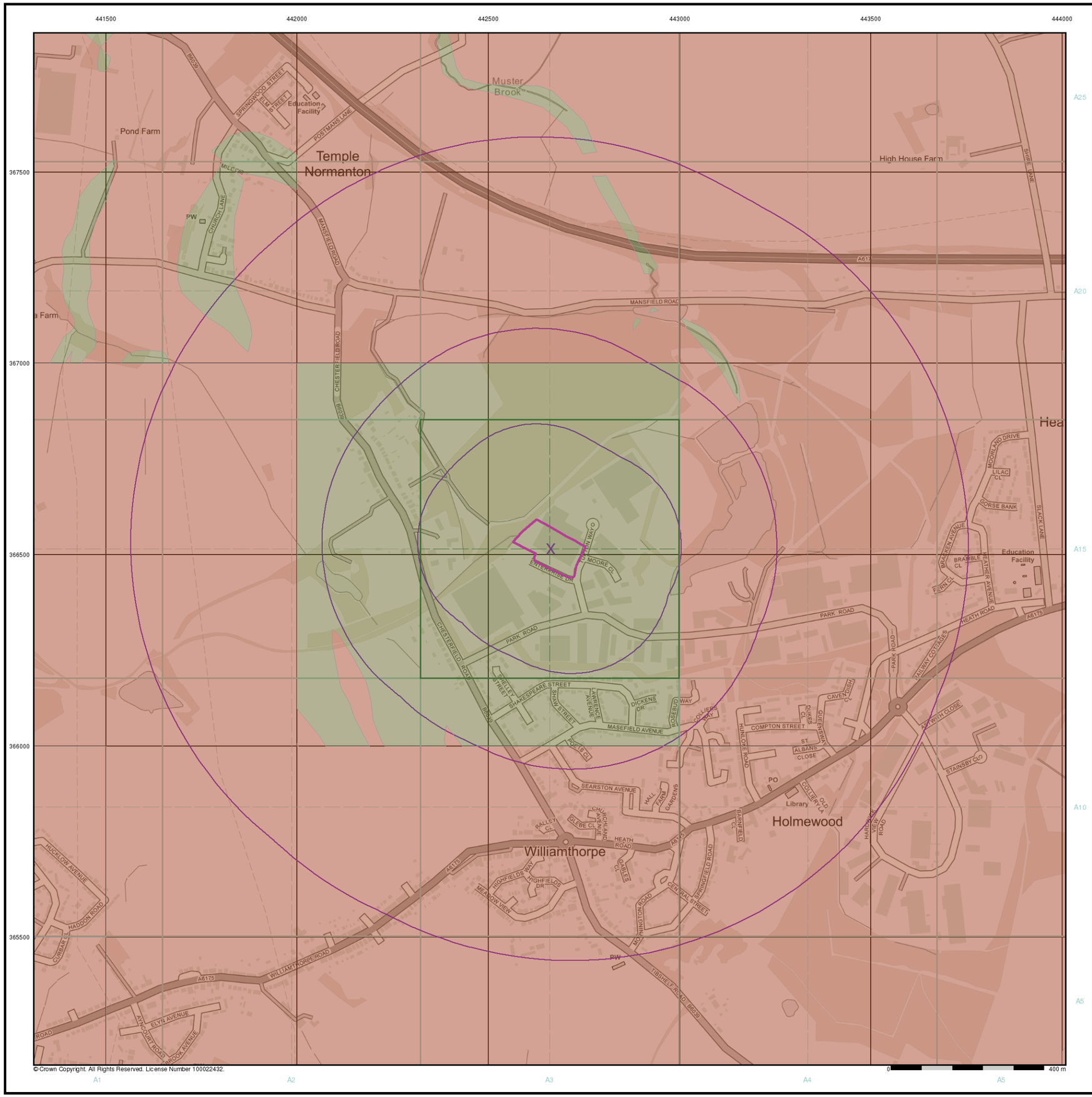

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General

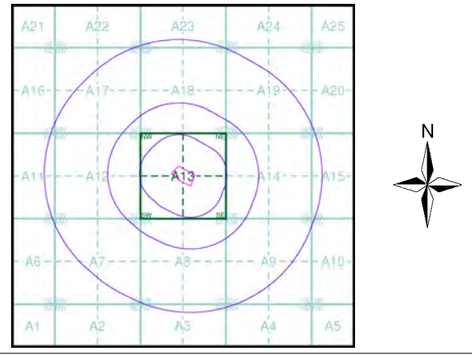
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

Estimated Soil Chemistry Chromium - Slice A



Order Details

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National Grid Reference:	442660, 366520
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Site Details

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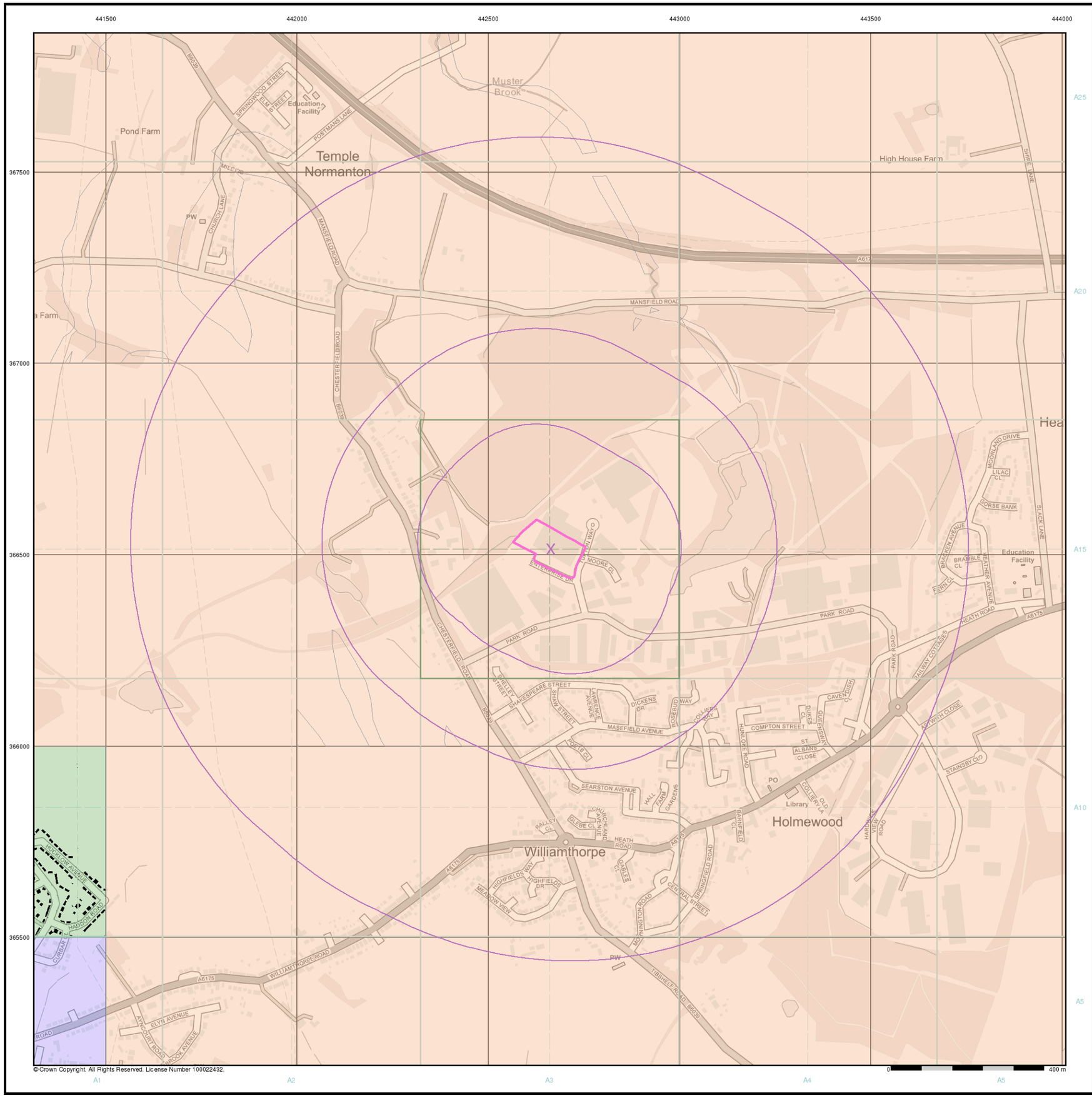

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General

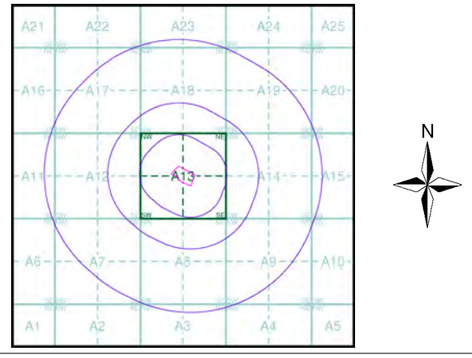
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

Estimated Soil Chemistry Lead - Slice A



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General

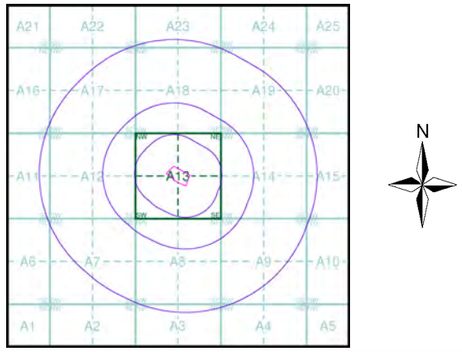
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

Estimated Soil Chemistry Nickel - Slice A



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Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock
Trig. Station
507 Altitude at Trig. Station
B.M.325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)
Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line
County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 231.60m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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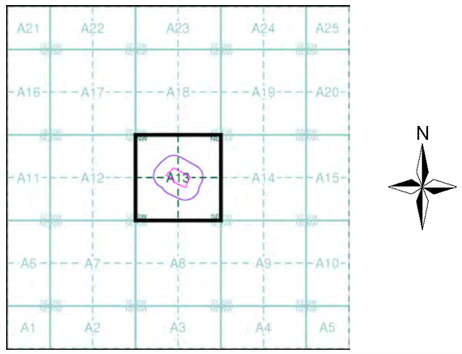
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1877 - 1878	2
Derbyshire	1:2,500	1898	3
Derbyshire	1:2,500	1917 - 1918	4
Derbyshire	1:2,500	1938	5
Ordnance Survey Plan	1:2,500	1962	6
Ordnance Survey Plan	1:2,500	1970	7
Additional SIMs	1:2,500	1985	8
Ordnance Survey Plan	1:2,500	1988	9
Large-Scale National Grid Data	1:2,500	1993	10
Large-Scale National Grid Data	1:2,500	1995	11
Historical Aerial Photography	1:2,500	1999	12

Historical Map - Segment A13



Order Details

Order Number: 234035127_1_1
Customer Ref: 14265
National Grid Reference: 442660, 366520
Slice: A
Site Area (Ha): 1.48
Search Buffer (m): 100

Site Details

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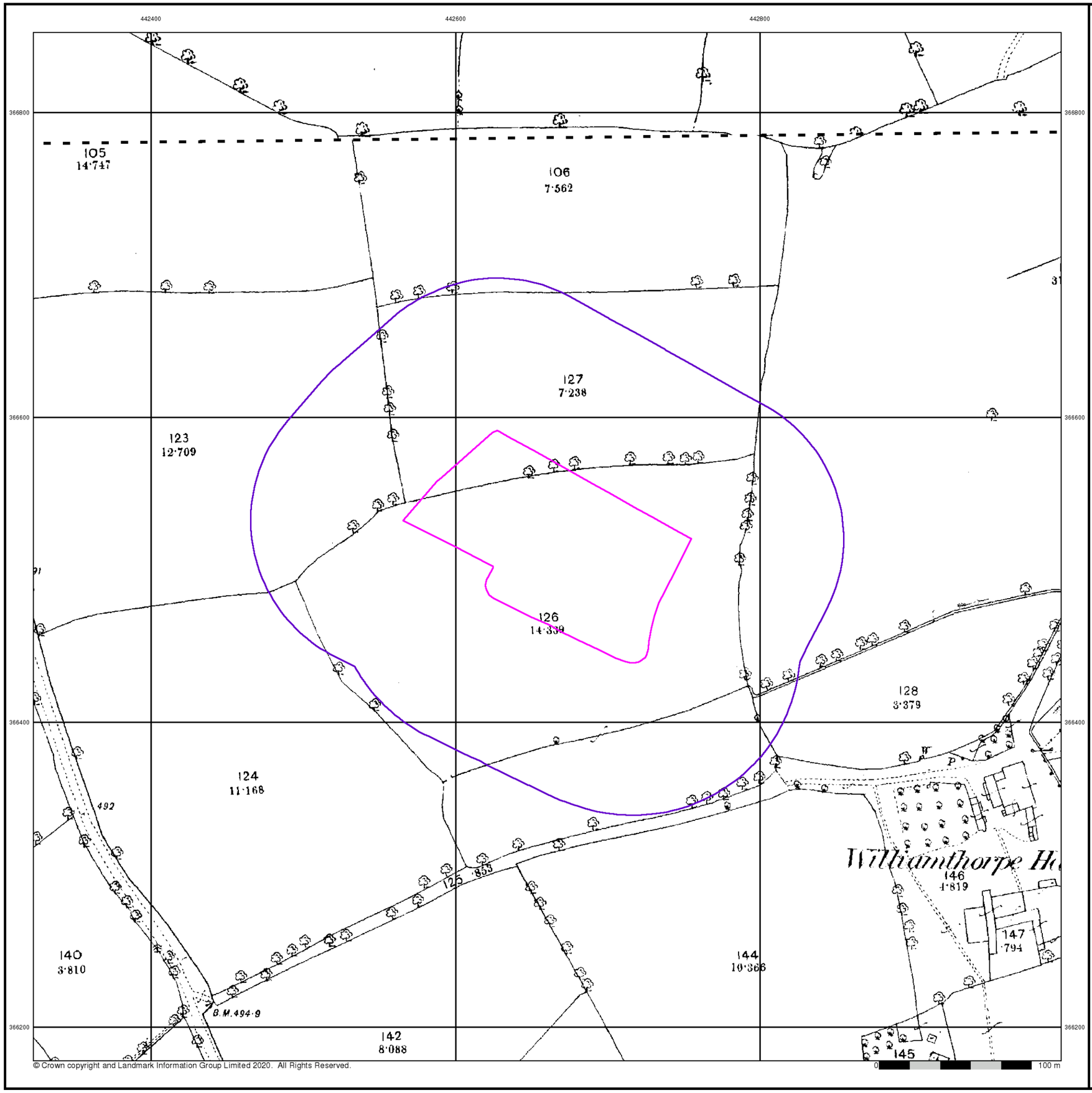

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Derbyshire

Published 1877 - 1878

Source map scale - 1:2,500

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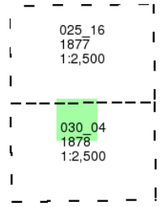
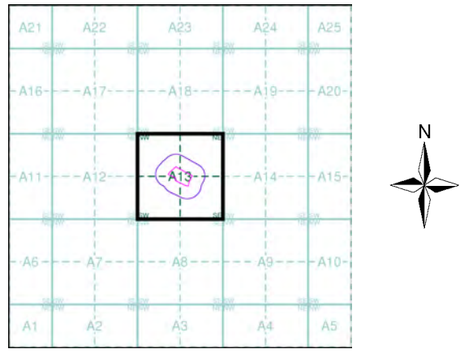
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

Site Details

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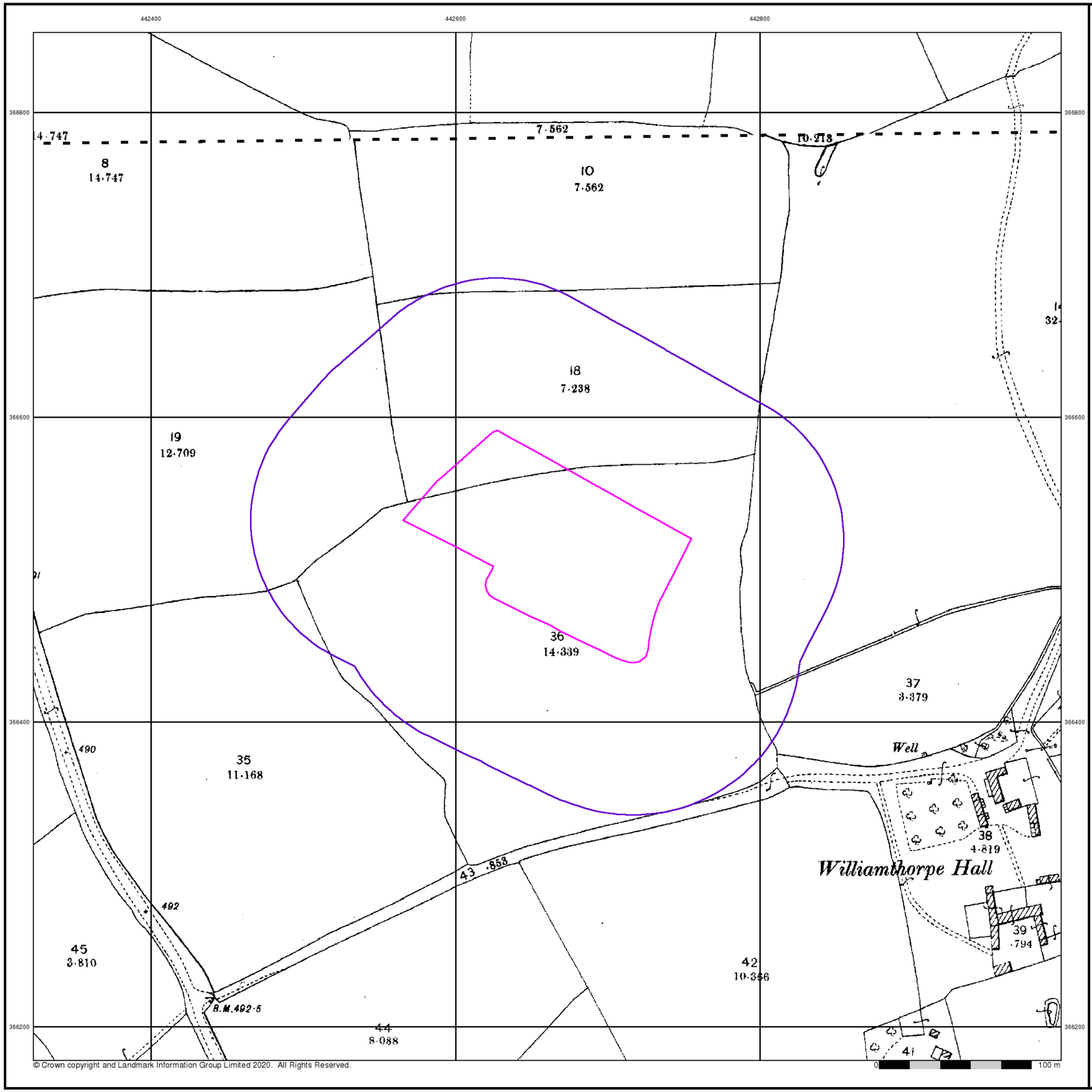

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Derbyshire

Published 1898

Source map scale - 1:2,500

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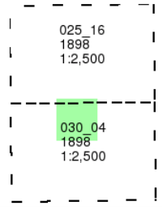
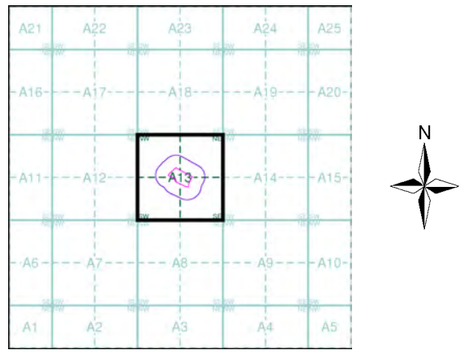
Map Name(s) and Date(s)



Historical Map - Segment A13



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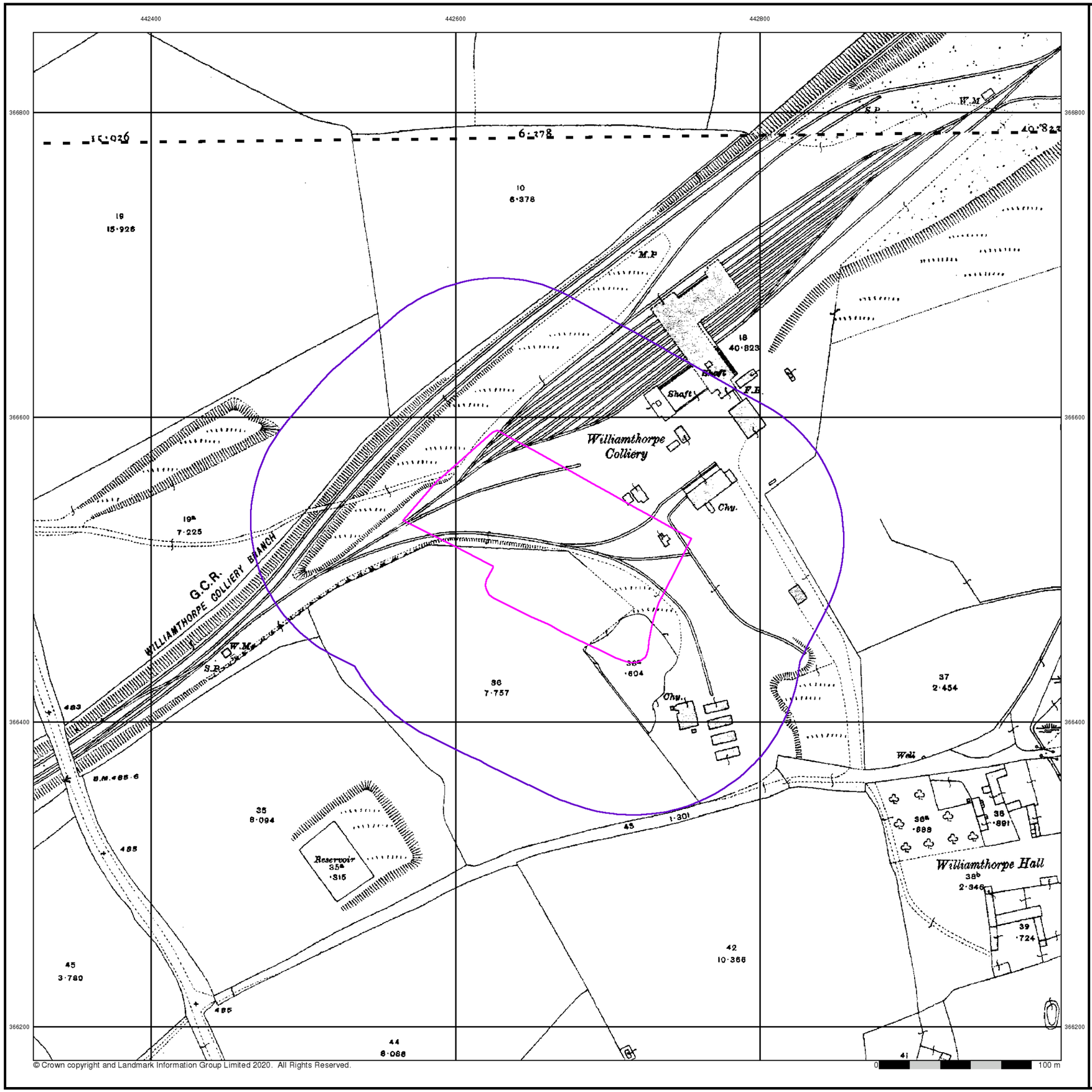

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Derbyshire

Published 1917 - 1918

Source map scale - 1:2,500

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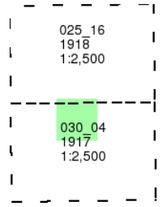
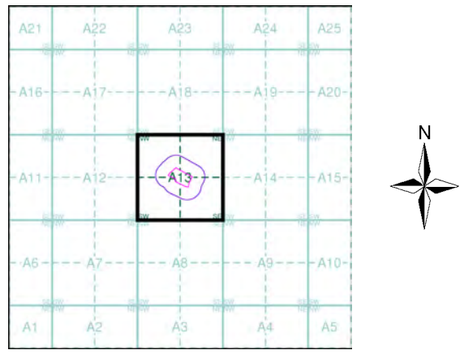
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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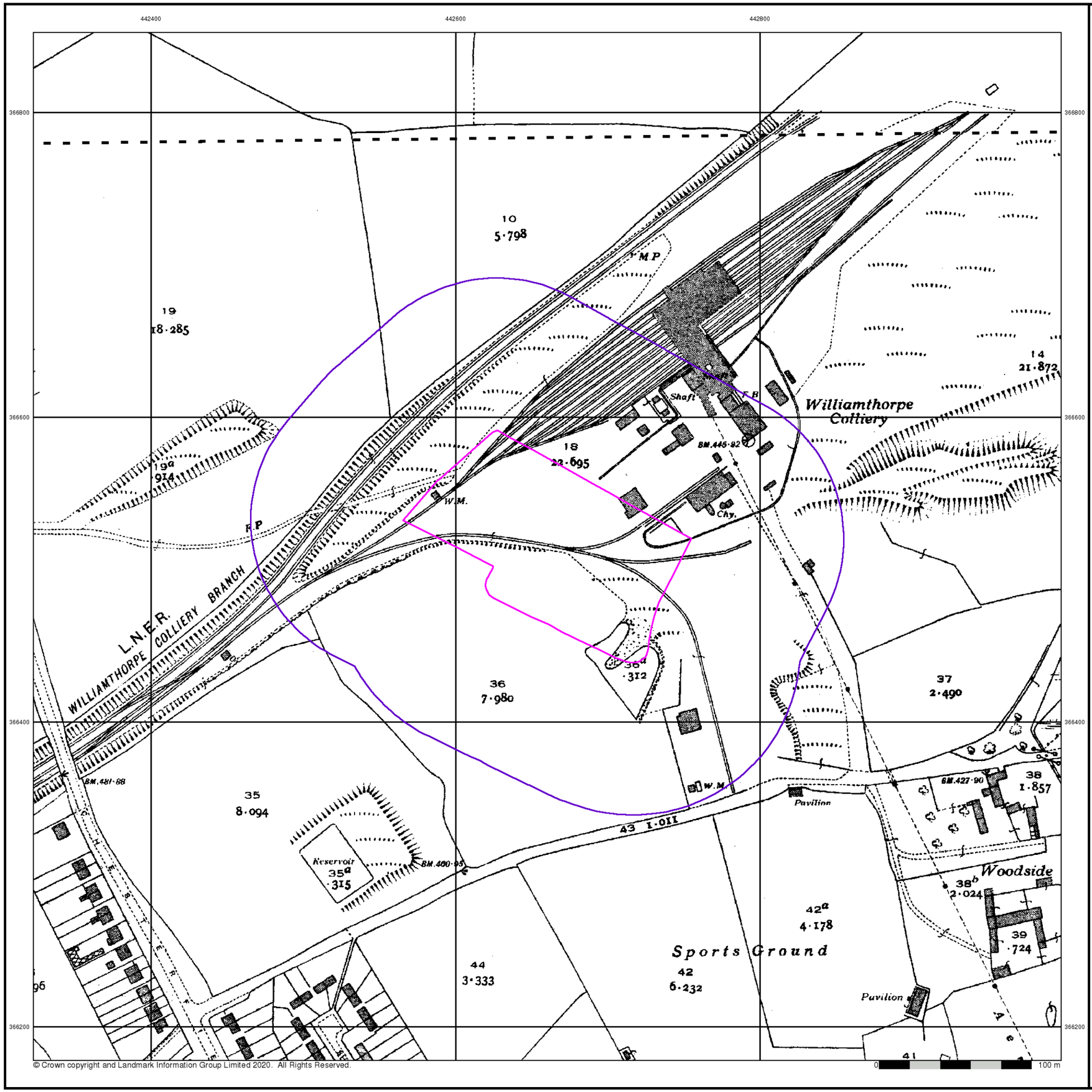

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Derbyshire

Published 1938

Source map scale - 1:2,500

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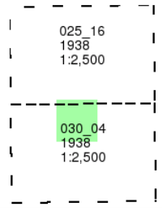
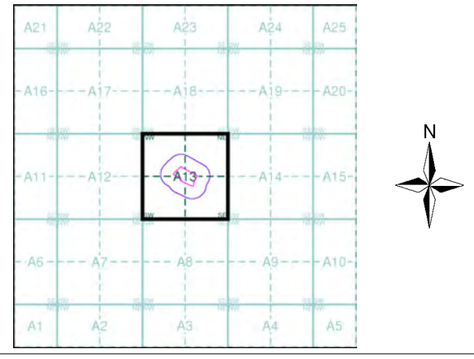
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Slice:	A
Site Area (Ha):	1.48
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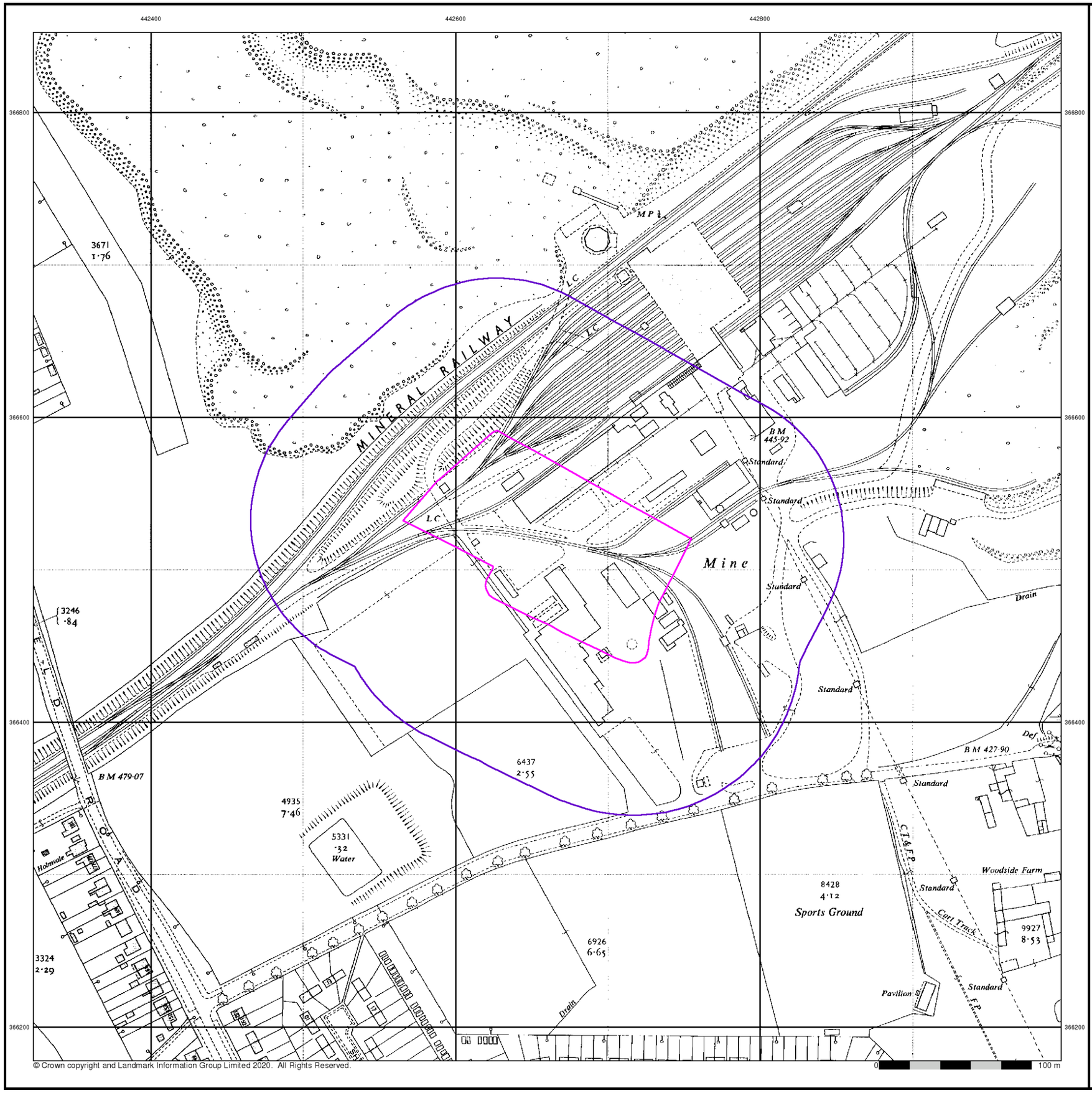

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Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

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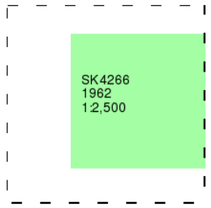
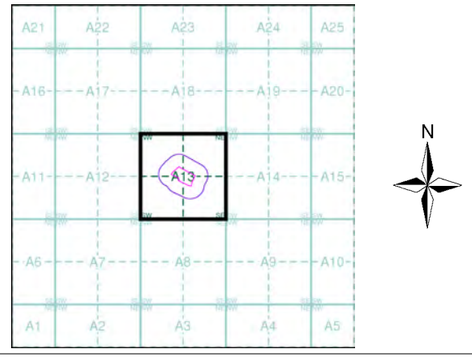
Map Name(s) and Date(s)



Historical Map - Segment A13



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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
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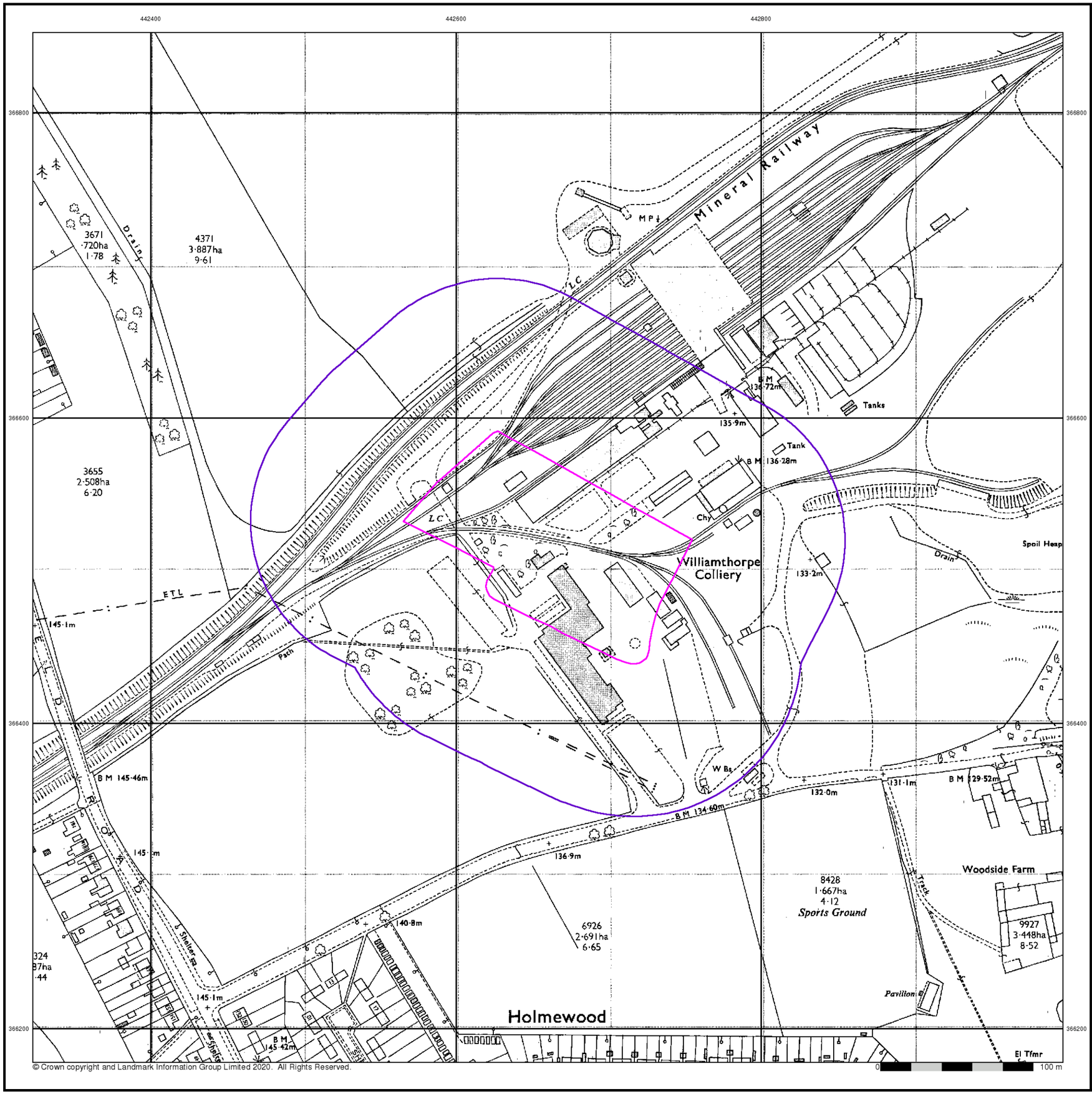

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Ordnance Survey Plan

Published 1970

Source map scale - 1:2,500

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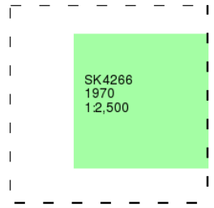
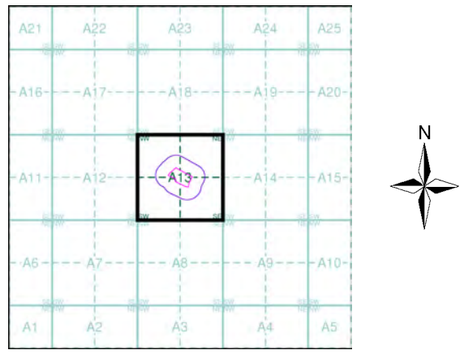
Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	234035127_1_1
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National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
Search Buffer (m):	100

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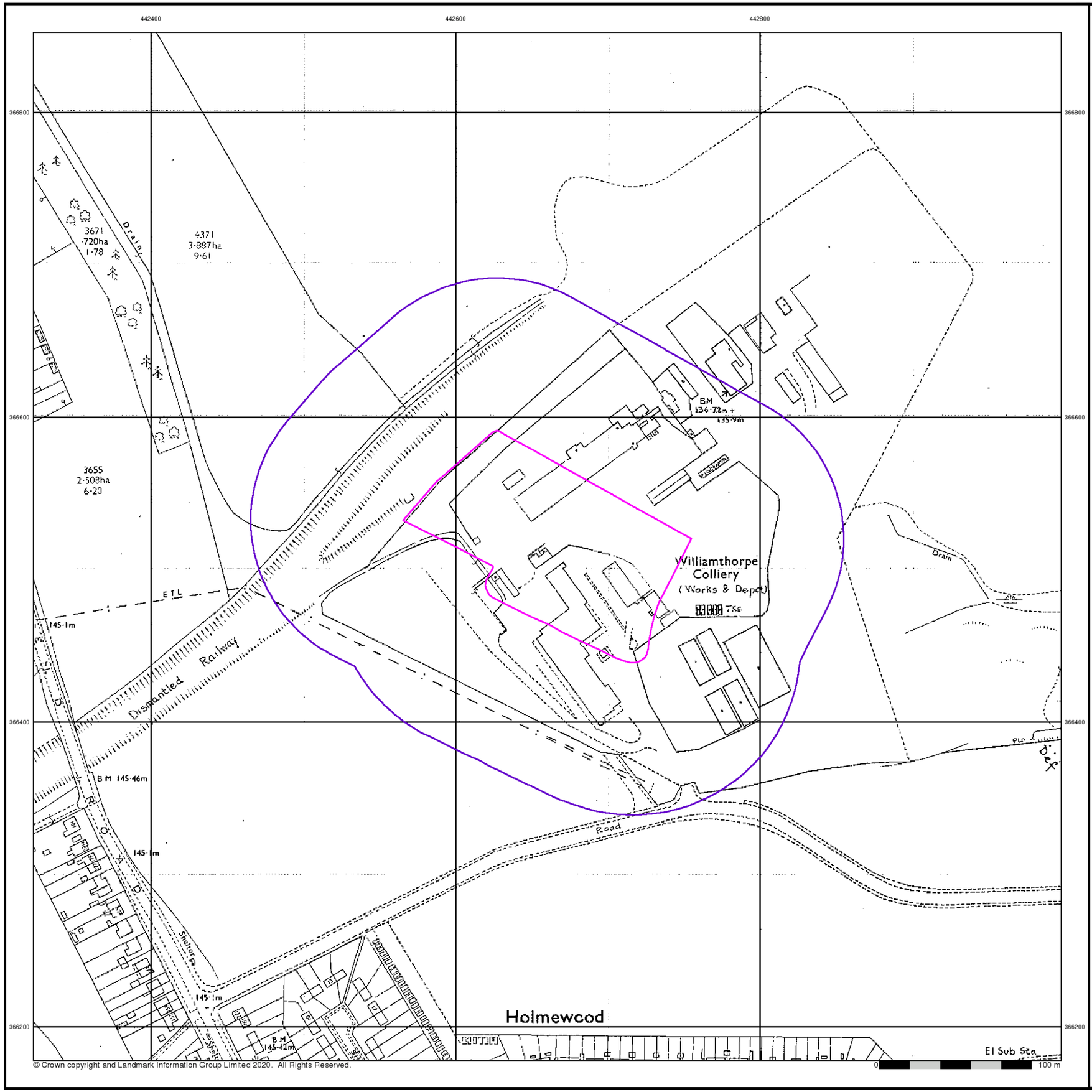

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Additional SIMs

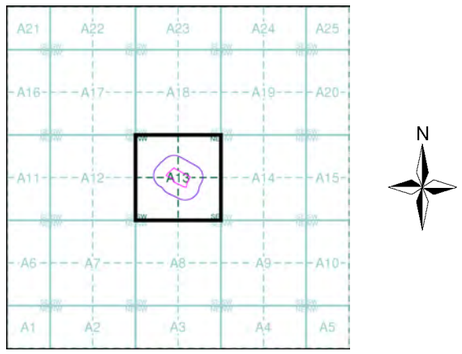
Published 1985

Source map scale - 1:2,500

The SIM cards (Ordnance Survey's `Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

Historical Map - Segment A13



Order Details

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Customer Ref:	14265
National Grid Reference:	442660, 366520
Slice:	A
Site Area (Ha):	1.48
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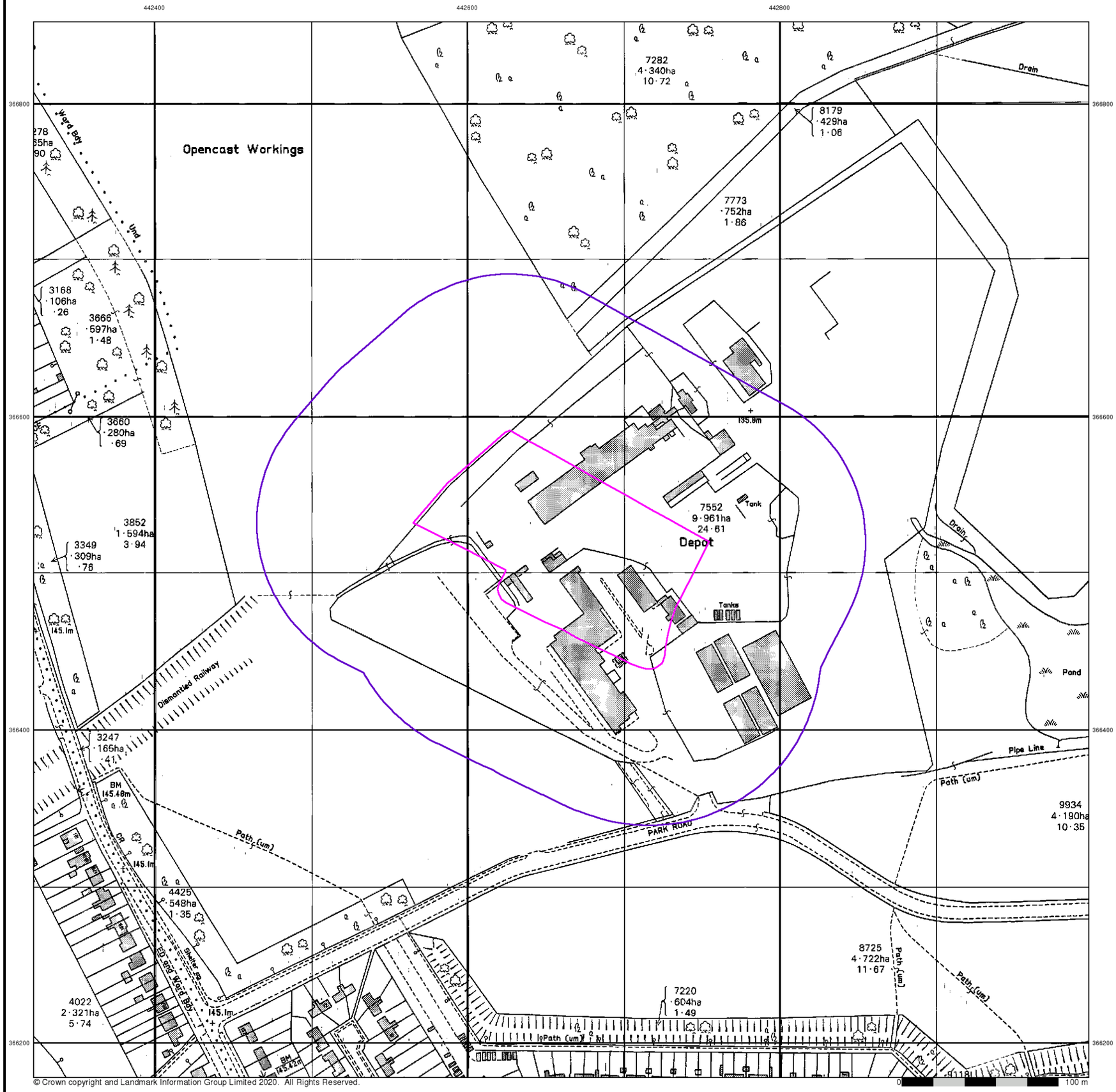

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Ordnance Survey Plan
Published 1988
Source map scale - 1:2,500

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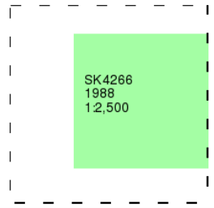
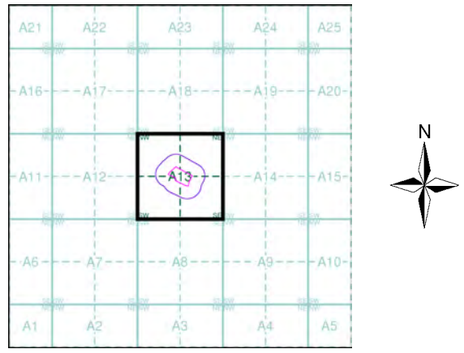
Map Name(s) and Date(s)



Historical Map - Segment A13



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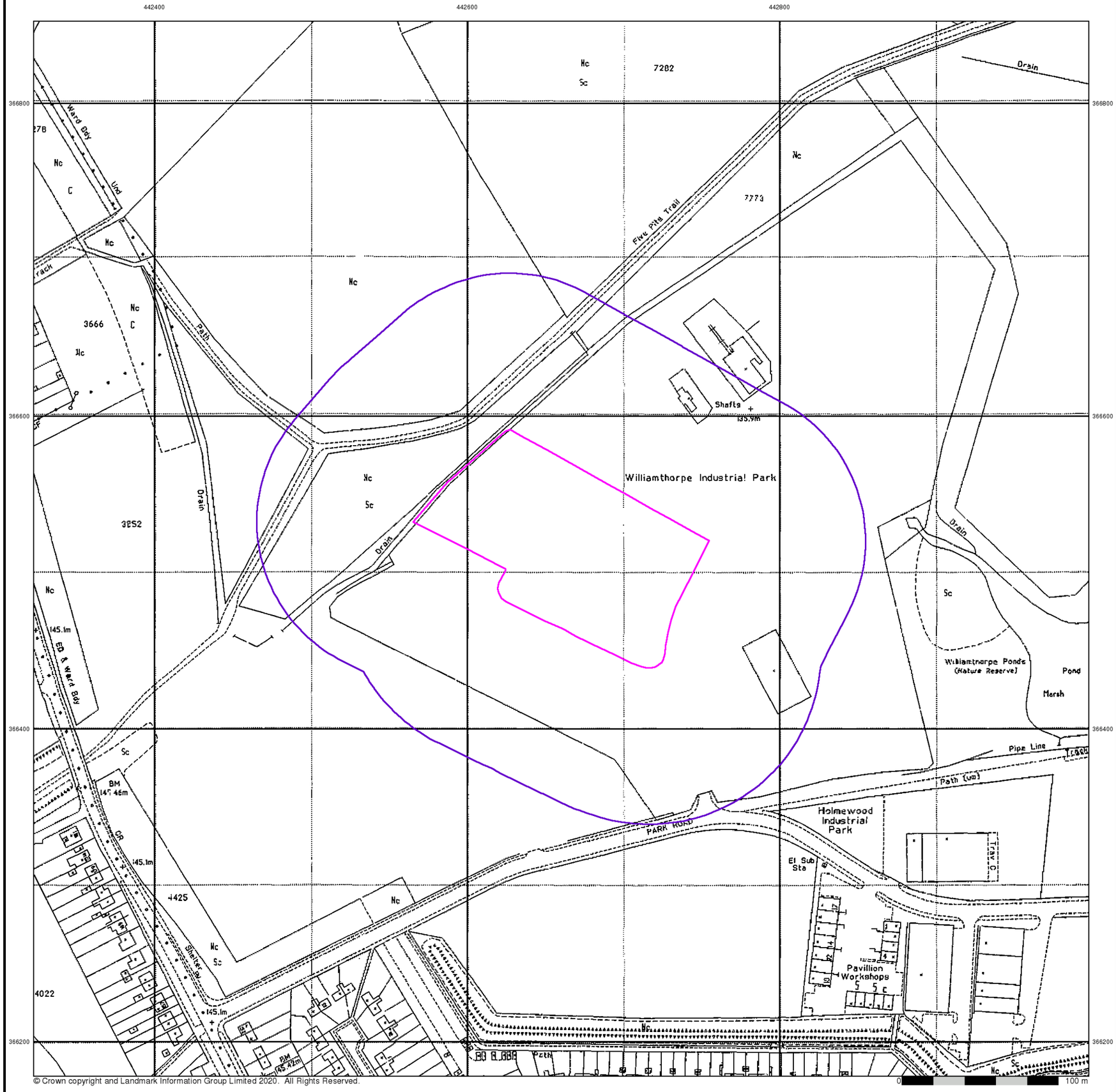

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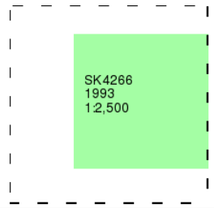
Large-Scale National Grid Data

Published 1993

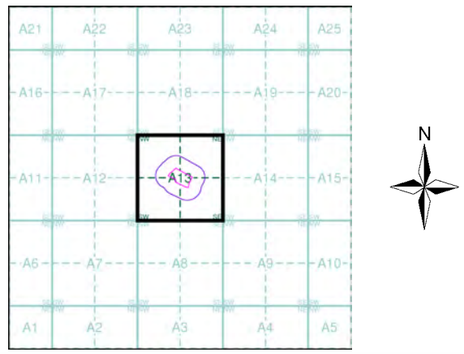
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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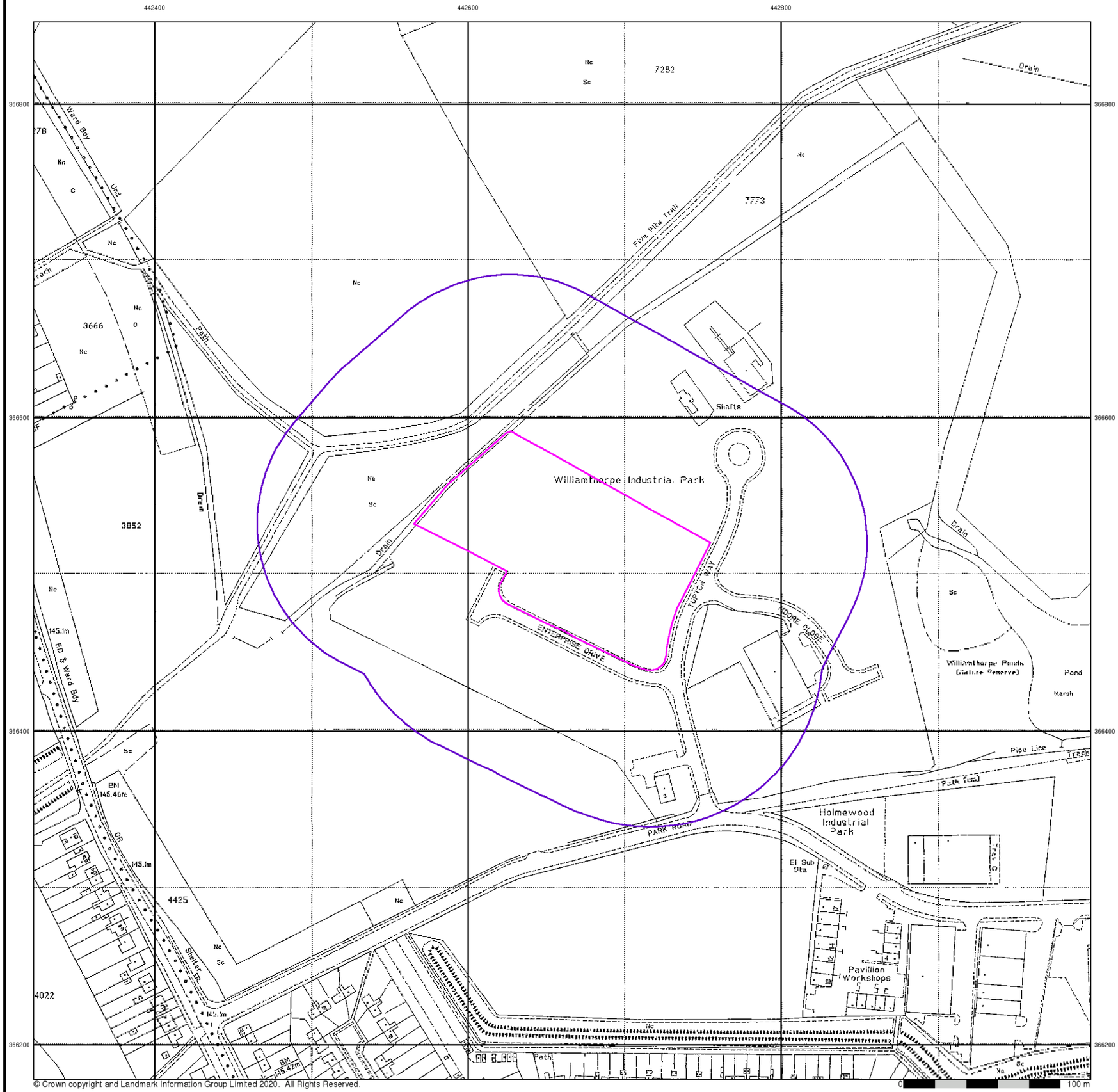

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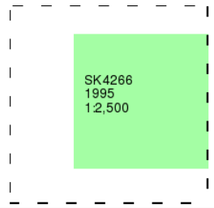
Large-Scale National Grid Data

Published 1995

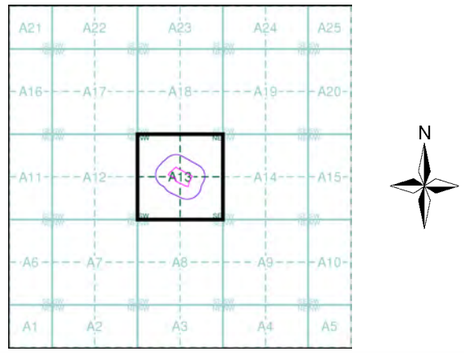
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



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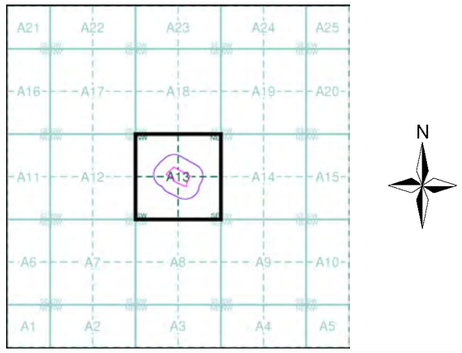
Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

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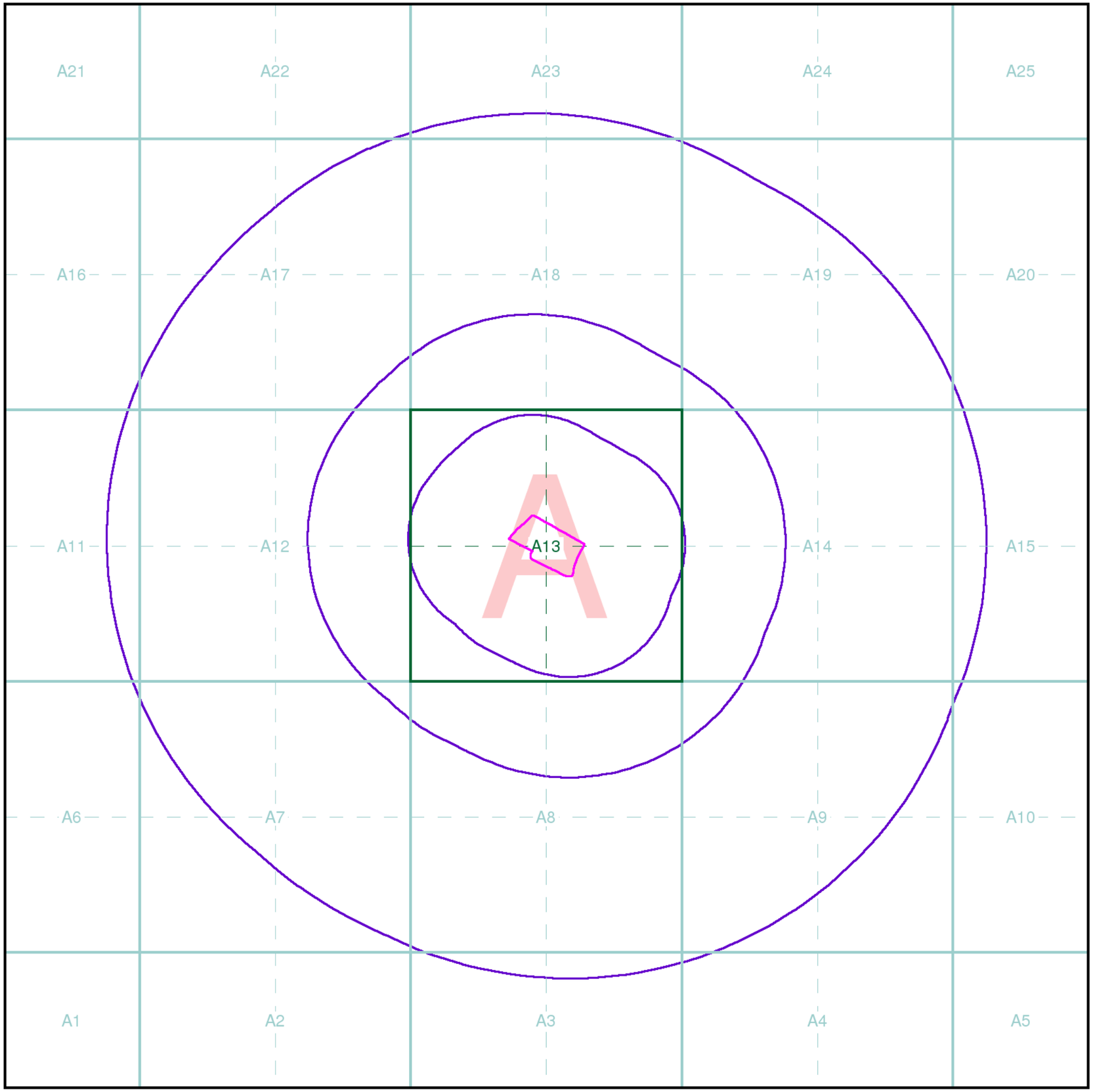

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details
Mr M Kelly, ECUS, Brook Holt, Blackburn Road, Sheffield, S61 2DW

Order Details

Order Number:	234035127_1_1
Customer Ref:	14265
National Grid Reference:	442670, 366520
Site Area (Ha):	1.48
Search Buffer (m):	1000

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Appendix 4: Borehole Logs

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3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS01**
Job No	Date	Ground level (m)	Co-Ordinates ()	
14265	17-02-20			
Method/Plant Used				Sheet
Global Geo4 Windowless Sampling Rig				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.16) 0.16	MADE GROUND: Concrete. 6mm diameter rebar encoutered at 0.08m bgl.		
0.20	ES					0.27	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
						(1.12) 1.39	Firm to stiff light orangish brown mottled light grey sandy gravelly CLAY. Gravel is subrounded to angular fine to medium of mudstone.		
						(0.31) 1.70	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client	Contractor	Logged By
	EMS Ltd	RP Drilling	RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS02**
Job No: 14265	Date: 17-02-20	Ground level (m):	Co-Ordinates ()	
Method/Plant Used: Global Geo4 Windowless Sampling Rig				Sheet: 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.23) 0.23	MADE GROUND: Concrete. 6mm diameter rebar at 0.1 m bgl.		
						0.34	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
0.40	ES					0.44	MADE GROUND: Black sandy slightly GRAVEL with a slight hydrocarbon odour. Gravel is subrounded to subangular fine of brick, mudstone and clinker.		
						(2.19) 2.63	Firm light grey mottled blueish grey sandy gravelly CLAY. Gravel is subrounded to subangular fine and medium of mudstone.		
						(0.17) 2.80	Dark blueish grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) Groundwater seepage encountered at 1.65 m bgl.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client: EMS Ltd	Contractor: RP Drilling	Logged By: RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS03**
Job No	Date	Ground level (m)	Co-Ordinates ()	
14265	17-02-20			
Method/Plant Used				Sheet
Global Geo4 Windowless Sampling Rig				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.18) 0.18	MADE GROUND: Concrete. 6mm diameter at 0.08 m bgl.		
0.30	ES					(0.21) 0.39	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
						(1.04) 1.43	Firm to stiff dark brown sandy gravelly CLAY. Gravel is subrounded to subangular fine and medium of mudstone.		
						1.50	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client	Contractor	Logged By
	EMS Ltd	RP Drilling	RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS04**
Job No	Date	Ground level (m)	Co-Ordinates ()	
14265	17-02-20			
Method/Plant Used				Sheet
Global Geo4 Windowless Sampling Rig				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.21) 0.21	MADE GROUND: Concrete. 6mm diameter rebar encountered at 0.05 m bgl.		
						0.32	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
0.40	ES					(0.37) 0.69	Firm to stiff dark brown sandy gravelly CLAY. Gravel is subrounded to subangular fine and medium of mudstone.		
						(0.31) 1.00	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client	Contractor	Logged By
	EMS Ltd	RP Drilling	RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS05**
Job No: 14265	Date: 17-02-20	Ground level (m):	Co-Ordinates ()	
Method/Plant Used: Global Geo4 Windowless Sampling Rig				Sheet: 1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.17) 0.17	MADE GROUND: Concrete. 6mm diameter rebar encounterd at 0.09 m bgl.		
						(0.16) 0.33	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
0.40	ES					(0.28) 0.61	MADE GROUND: Black sandy slightly GRAVEL. Gravel is subrounded to subangular fine of coal, brick, mudstone and clinker.		
						(0.69) 1.30	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client: EMS Ltd	Contractor: RP Drilling	Logged By: RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS06**
Job No	Date	Ground level (m)	Co-Ordinates ()	
14265	17-02-20			
Method/Plant Used				Sheet
Global Geo4 Windowless Sampling Rig				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						0.09	MADE GROUND: Asphalt.		
0.10	ES					0.16	MADE GROUND: Light creamish brown sandy subrounded to subangular fine to medium of limestone GRAVEL.		
						(1.14)	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
						1.30	Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client	Contractor	Logged By
	EMS Ltd	RP Drilling	RZ

Ecus Ltd
Brook Holt
3 Blackburn Road
Sheffield
S61 2DW

BOREHOLE LOG

Project				HOLE No
CBE Ltd, Holmewood				**WS07**
Job No	Date	Ground level (m)	Co-Ordinates ()	
14265	17-02-20			
Method/Plant Used				Sheet
Global Geo4 Windowless Sampling Rig				1 of 1

SAMPLES & TESTS			Water	STRATA				Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)	DESCRIPTION		
						(0.26) 0.26	MADE GROUND: Grass overlying dark brown slightly gravelly SAND. Gravel is subrounded coarse of quartz [TOPSOIL].		
0.30	ES					(0.79) 1.05	MADE GROUND: Light brown sandy clayey GRAVEL. Gravel is subrounded to angular, fine to medium of brick, mudstone, clinker and concrete.		
						(0.37) 1.42	Firm dark brown sandy CLAY.		
						(0.58) 2.00	Light grey weathered MUDSTONE recovered as sandy subrounded to angular fine to medium of mudstone GRAVEL.		
							Borehole terminated.		

Boring Progress and Water Observations

Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt

GENERAL REMARKS

1) Core of concrete removed prior to drilling.
2) Borehole terminated due to refusal.
3) No groundwater encountered.
4) 50 mm groundwater monitoring well installed on completion.

All dimensions in metres Scale 1:18.75	Client	Contractor	Logged By
	EMS Ltd	RP Drilling	RZ

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Appendix 5: Chemical Testing Certificates

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ANALYTICAL TEST REPORT

Contract no:	84523(1)
Contract name:	CBE Ltd, Chesterfield
Client reference:	14265
Clients name:	Ecus
Clients address:	Brook Holt 3 Blackburn Road Sheffield S61 2DW
Samples received:	19 February 2020
Analysis started:	19 February 2020
Analysis completed:	05 February 2020
Report issued:	05 February 2020

This is a supplementary report to report number 84523 issued 26 February 2020.

Notes:

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key:

U UKAS accredited test
M MCERTS & UKAS accredited test
$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing
NAD No Asbestos Detected

Approved by:

Dave Bowerbank
Customer Services Co-ordinator

Chemtech Environmental Limited

SAMPLE INFORMATION

MCERTS (Soils):

Soil descriptions are only intended to provide a log of sample matrices with respect to MCERTS validation. They are not intended as full geological descriptions. MCERTS accreditation applies for sand, clay and loam/topsoil, or combinations of these whether these are derived from naturally occurring soils or from made ground, as long as these materials constitute the major part of the sample. Other materials such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

All results are reported on a dry basis. Samples dried at no more than 30°C in a drying cabinet.
Analytical results are inclusive of stones.

Lab ref	Sample id	Depth (m)	Sample description	Material removed	% Removed	% Moisture
84523-1	WS01	0.20	Sand with Gravel	-	-	7.4
84523-2	WS02	0.40	Clayey Sand with Gravel	-	-	10.3
84523-3	WS03	0.30	Sand with Gravel	-	-	7.4
84523-4	WS04	0.40	Clay	-	-	10.0
84523-5	WS05	0.40	Sand with Gravel	-	-	21.0
84523-6	WS06	0.10	Sand with Gravel	-	-	8.9
84523-7	WS07	0.30	Clayey Sand with Gravel	-	-	14.2

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SOILS

Lab number			84523-1	84523-2	84523-3	84523-4	84523-5	84523-6
Sample id			WS01	WS02	WS03	WS04	WS05	WS06
Depth (m)			0.20	0.40	0.30	0.40	0.40	0.10
Date sampled			17/02/2020	17/02/2020	17/02/2020	17/02/2020	17/02/2020	17/02/2020
Test	Method	Units						
Arsenic (total)	CE127 M	mg/kg As	3.0	34	2.8	5.3	32	3.6
Beryllium (total)	CE127 U	mg/kg Be	<1	1.3	<1	1.3	1.6	<1
Boron (water soluble)	CE063 M	mg/kg B	<0.5	1.0	<0.5	0.6	<0.5	1.0
Cadmium (total)	CE127 M	mg/kg Cd	0.4	<0.2	0.4	<0.2	<0.2	0.4
Chromium (total)	CE127 M	mg/kg Cr	9.3	33	8.0	35	22	11
Chromium (III)	CE208	mg/kg CrIII	9.3	33	8.0	35	22	11
Chromium (VI)	CE146	mg/kg CrVI	<1	<1	<1	<1	<1	<1
Copper (total)	CE127 M	mg/kg Cu	2.1	36	2.2	32	56	5.4
Lead (total)	CE127 M	mg/kg Pb	16	29	5.9	16	12	9.1
Mercury (total)	CE127 M	mg/kg Hg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Nickel (total)	CE127 M	mg/kg Ni	4.3	36	4.5	55	31	7.9
Selenium (total)	CE127 M	mg/kg Se	<0.3	1.9	<0.3	1.8	1.3	0.3
Vanadium (total)	CE127 M	mg/kg V	5.5	36	5.3	33	59	9.0
Zinc (total)	CE127 M	mg/kg Zn	71	57	57	86	17	58
pH	CE004 M	units	9.5	8.6	9.0	8.0	7.3	9.0
Sulphate (2:1 water soluble)	CE061 M	mg/l SO_4	46	278	16	14	127	23
Cyanide (total)	CE077	mg/kg CN	<1	<1	<1	<1	<1	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Total Organic Carbon (TOC)	CE072 M	% w/w C	1.7	1.6	7.2	0.5	1.7	7.2
Estimate of OMC (calculated from TOC)	CE072 M	% w/w	2.9	2.8	12.4	0.9	2.9	12.4
PAH								
Naphthalene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	0.67	0.05
Acenaphthylene	CE087 M	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Acenaphthene	CE087 M	mg/kg	<0.02	0.04	<0.02	<0.02	<0.02	<0.02
Fluorene	CE087 U	mg/kg	<0.02	0.10	<0.02	<0.02	<0.02	<0.02
Phenanthrene	CE087 M	mg/kg	0.19	0.46	<0.02	<0.02	0.18	0.24
Anthracene	CE087 U	mg/kg	0.05	0.22	<0.02	<0.02	<0.02	0.09
Fluoranthene	CE087 M	mg/kg	0.27	0.18	<0.02	<0.02	<0.02	1.01
Pyrene	CE087 M	mg/kg	0.25	0.21	<0.02	<0.02	<0.02	1.05
Benzo(a)anthracene	CE087 U	mg/kg	0.11	0.04	<0.02	<0.02	<0.02	0.80
Chrysene	CE087 M	mg/kg	0.12	0.06	<0.03	<0.03	<0.03	0.85
Benzo(b)fluoranthene	CE087 M	mg/kg	0.14	<0.02	<0.02	<0.02	<0.02	1.57
Benzo(k)fluoranthene	CE087 M	mg/kg	0.05	<0.03	<0.03	<0.03	<0.03	0.61
Benzo(a)pyrene	CE087 U	mg/kg	0.12	0.06	<0.02	<0.02	<0.02	1.30
Indeno(123cd)pyrene	CE087 M	mg/kg	0.08	0.04	<0.02	<0.02	<0.02	1.04
Dibenz(ah)anthracene	CE087 M	mg/kg	0.02	<0.02	<0.02	<0.02	<0.02	0.17
Benzo(ghi)perylene	CE087 M	mg/kg	0.07	0.03	<0.02	<0.02	<0.02	1.01
PAH (total of USEPA 16)	CE087	mg/kg	1.48	1.44	<0.34	<0.34	0.85	9.81

Chemtech Environmental Limited

SOILS

Lab number			84523-1	84523-2	84523-3	84523-4	84523-5	84523-6
Sample id			WS01	WS02	WS03	WS04	WS05	WS06
Depth (m)			0.20	0.40	0.30	0.40	0.40	0.10
Date sampled			17/02/2020	17/02/2020	17/02/2020	17/02/2020	17/02/2020	17/02/2020
Test	Method	Units						
TPH								
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	0.03	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01	<0.01	<0.01	<0.01	0.06	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01	2.76	<0.01	<0.01	0.04	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1	2	<1	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1	5	<1	<1	<1	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	<1	11	<1	<1	<1	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	1	10	<1	2	<1	3
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	<1	2	<1	<1	<1	1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1	2.0	<0.1	<0.1	0.2	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1	29.6	<0.1	<0.1	<0.1	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4	1287	<4	<4	<4	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4	1571	<4	<4	8	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	6	12547	8	113	41	<4
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10	436	<10	32	<10	<10
Subcontracted analysis								
Asbestos (qualitative)	$	-	NAD	NAD	NAD	NAD	NAD	NAD
Form of Asbestos	$	-	-	-	-	-	-	-
Asbestos (quantitative)	$	% w/w	-	-	-	-	-	-

Chemtech Environmental Limited

SOILS

Lab number			84523-7
Sample id			WS07
Depth (m)			0.30
Date sampled			17/02/2020
Test	Method	Units	
Arsenic (total)	CE127 M	mg/kg As	9.8
Beryllium (total)	CE127 U	mg/kg Be	<1
Boron (water soluble)	CE063 M	mg/kg B	0.9
Cadmium (total)	CE127 M	mg/kg Cd	0.8
Chromium (total)	CE127 M	mg/kg Cr	24
Chromium (III)	CE208	mg/kg CrIII	24
Chromium (VI)	CE146	mg/kg CrVI	<1
Copper (total)	CE127 M	mg/kg Cu	21
Lead (total)	CE127 M	mg/kg Pb	51
Mercury (total)	CE127 M	mg/kg Hg	<0.5
Nickel (total)	CE127 M	mg/kg Ni	13
Selenium (total)	CE127 M	mg/kg Se	0.8
Vanadium (total)	CE127 M	mg/kg V	26
Zinc (total)	CE127 M	mg/kg Zn	114
pH	CE004 M	units	8.5
Sulphate (2:1 water soluble)	CE061 M	mg/l SO_4	495
Cyanide (total)	CE077	mg/kg CN	<1
Phenols (total)	CE078	mg/kg PhOH	<0.5
Total Organic Carbon (TOC)	CE072 M	% w/w C	3.8
Estimate of OMC (calculated from TOC)	CE072 M	% w/w	6.6
PAH			
Naphthalene	CE087 M	mg/kg	0.12
Acenaphthylene	CE087 M	mg/kg	0.16
Acenaphthene	CE087 M	mg/kg	0.25
Fluorene	CE087 U	mg/kg	0.17
Phenanthrene	CE087 M	mg/kg	2.61
Anthracene	CE087 U	mg/kg	0.95
Fluoranthene	CE087 M	mg/kg	7.77
Pyrene	CE087 M	mg/kg	7.01
Benzo(a)anthracene	CE087 U	mg/kg	3.19
Chrysene	CE087 M	mg/kg	2.95
Benzo(b)fluoranthene	CE087 M	mg/kg	3.84
Benzo(k)fluoranthene	CE087 M	mg/kg	1.67
Benzo(a)pyrene	CE087 U	mg/kg	3.35
Indeno(123cd)pyrene	CE087 M	mg/kg	2.23
Dibenz(ah)anthracene	CE087 M	mg/kg	0.37
Benzo(ghi)perylene	CE087 M	mg/kg	2.25
PAH (total of USEPA 16)	CE087	mg/kg	38.9

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SOILS

Lab number			84523-7
Sample id			WS07
Depth (m)			0.30
Date sampled			17/02/2020
Test	Method	Units	
TPH			
VPH Aromatic (>EC5-EC7)	CE067	mg/kg	<0.01
VPH Aromatic (>EC7-EC8)	CE067	mg/kg	<0.01
VPH Aromatic (>EC8-EC10)	CE067	mg/kg	<0.01
EPH Aromatic (>EC10-EC12)	CE068	mg/kg	<1
EPH Aromatic (>EC12-EC16)	CE068	mg/kg	<1
EPH Aromatic (>EC16-EC21)	CE068	mg/kg	<1
EPH Aromatic (>EC21-EC35)	CE068	mg/kg	3
EPH Aromatic (>EC35-EC44)	CE068	mg/kg	1
VPH Aliphatic (>C5-C6)	CE067	mg/kg	<0.1
VPH Aliphatic (>C6-C8)	CE067	mg/kg	<0.1
VPH Aliphatic (>C8-C10)	CE067	mg/kg	<0.1
EPH Aliphatic (>C10-C12)	CE068	mg/kg	<4
EPH Aliphatic (>C12-C16)	CE068	mg/kg	<4
EPH Aliphatic (>C16-C35)	CE068	mg/kg	<4
EPH Aliphatic (>C35-C44)	CE068	mg/kg	<10
Subcontracted analysis			
Asbestos (qualitative)	$	-	Chrysotile
Form of Asbestos	$	-	Loose fibres
Asbestos (quantitative)	$	% w/w	<0.001

Chemtech Environmental Limited

PREPARED LEACHATES

Lab number			84523-1L	84523-2L	84523-3L	84523-4L	84523-5L	84523-6L
Sample id			WS01	WS02	WS03	WS04	WS05	WS06
Depth (m)			0.20	0.40	0.30	0.40	0.40	0.10
Test	Method	Units						
Arsenic (dissolved)	CE128 U	µg/l As	0.50	1.27	0.08	0.39	0.16	2.59
Beryllium (dissolved)	CE128 U	µg/l Be	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
Boron (dissolved)	CE128 U	µg/l B	17	27	7	21	8	8
Cadmium (dissolved)	CE128 U	µg/l Cd	<0.07	<0.07	<0.07	<0.07	<0.07	<0.07
Chromium (dissolved)	CE128 U	µg/l Cr	0.3	<0.2	<0.2	0.5	<0.2	0.3
Chromium III (dissolved)	CE207	µg/l CrIII	0.3	<0.2	<0.2	0.5	<0.2	0.3
Chromium VI (dissolved)	CE050 U	µg/l CrVI	<10	<10	<10	12	<10	<10
Copper (dissolved)	CE128 U	µg/l Cu	0.9	0.7	<0.4	2.4	0.6	1.7
Lead (dissolved)	CE128 U	µg/l Pb	<0.2	<0.2	<0.2	0.4	<0.2	<0.2
Mercury (dissolved)	CE128 U	µg/l Hg	<0.008	<0.008	0.014	<0.008	<0.008	<0.008
Nickel (dissolved)	CE128 U	µg/l Ni	0.6	<0.5	<0.5	2.1	0.6	<0.5
Selenium (dissolved)	CE128 U	µg/l Se	0.09	0.22	<0.07	0.07	<0.07	0.10
Vanadium (dissolved)	CE128 U	µg/l V	1.7	1.2	<0.3	<0.3	0.5	<0.3
Zinc (dissolved)	CE128 U	µg/l Zn	<1	<1	<1	<1	<1	<1
pH	CE213 U	units	9.8	7.2	9.8	8.2	8.3	8.8
Sulphate	CE049 U	mg/l SO_4	3.1	3.3	<1.7	<1.7	11	1.7
Cyanide (total)	CE147	µg/l CN	<20	<20	<20	<20	<20	<20
Phenols (total)	CE065	µg/l PhOH	<10	<10	<10	<10	<10	<10
Dissolved Organic Carbon	CE071 U	mg/l C	<5	<5	<5	<5	<5	<5
PAH								
Naphthalene	CE051	µg/l	<0.1	<0.1	<0.1	1.0	0.2	3.3
Acenaphthylene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthene	CE051	µg/l	<0.1	<0.1	<0.1	0.6	0.6	1.3
Fluorene	CE051	µg/l	0.4	0.4	<0.1	0.6	0.4	1.1
Phenanthrene	CE051	µg/l	1.1	0.6	0.7	1.2	1.1	1.8
Anthracene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Fluoranthene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Pyrene	CE051	µg/l	0.9	<0.1	<0.1	<0.1	<0.1	0.7
Benzo(a)anthracene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chrysene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(b)fluoranthene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(a)pyrene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Indeno(123cd)pyrene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Dibenz(ah)anthracene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
PAH (total of USEPA 16)	CE051	µg/l	2.3	<1.6	<1.6	3.3	2.2	8.2

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PREPARED LEACHATES

Lab number			84523-7L
Sample id			WS07
Depth (m)			0.30
Test	Method	Units	
Arsenic (dissolved)	CE128 U	µg/l As	2.42
Beryllium (dissolved)	CE128 U	µg/l Be	<0.06
Boron (dissolved)	CE128 U	µg/l B	31
Cadmium (dissolved)	CE128 U	µg/l Cd	<0.07
Chromium (dissolved)	CE128 U	µg/l Cr	3.88
Chromium III (dissolved)	CE207	µg/l CrIII	3.88
Chromium VI (dissolved)	CE050 U	µg/l CrVI	<10
Copper (dissolved)	CE128 U	µg/l Cu	7.47
Lead (dissolved)	CE128 U	µg/l Pb	<0.2
Mercury (dissolved)	CE128 U	µg/l Hg	0.01
Nickel (dissolved)	CE128 U	µg/l Ni	<0.5
Selenium (dissolved)	CE128 U	µg/l Se	0.59
Vanadium (dissolved)	CE128 U	µg/l V	12.5
Zinc (dissolved)	CE128 U	µg/l Zn	<1
pH	CE213 U	units	10.2
Sulphate	CE049 U	mg/l SO_4	28
Cyanide (total)	CE147	µg/l CN	<20
Phenols (total)	CE065	µg/l PhOH	<10
Dissolved Organic Carbon	CE071 U	mg/l C	<5
PAH			
Naphthalene	CE051	µg/l	<0.1
Acenaphthylene	CE051	µg/l	<0.1
Acenaphthene	CE051	µg/l	<0.1
Fluorene	CE051	µg/l	<0.1
Phenanthrene	CE051	µg/l	0.7
Anthracene	CE051	µg/l	<0.1
Fluoranthene	CE051	µg/l	<0.1
Pyrene	CE051	µg/l	0.8
Benzo(a)anthracene	CE051	µg/l	<0.1
Chrysene	CE051	µg/l	<0.1
Benzo(b)fluoranthene	CE051	µg/l	<0.1
Benzo(k)fluoranthene	CE051	µg/l	<0.1
Benzo(a)pyrene	CE051	µg/l	<0.1
Indeno(123cd)pyrene	CE051	µg/l	<0.1
Dibenz(ah)anthracene	CE051	µg/l	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1
PAH (total of USEPA 16)	CE051	µg/l	<1.6

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE127	Arsenic (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg As
CE127	Beryllium (total)	Aqua regia digest, ICP-MS	Dry	U	1	mg/kg Be
CE063	Boron (water soluble)	Hot water extract, ICP-OES	Dry	M	0.5	mg/kg B
CE127	Cadmium (total)	Aqua regia digest, ICP-MS	Dry	M	0.2	mg/kg Cd
CE127	Chromium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cr
CE208	Chromium (III)	Calculation: Cr (total) - Cr (VI)	Dry		1	mg/kg CrIII
CE146	Chromium (VI)	Acid extraction, Colorimetry	Dry		1	mg/kg CrVI
CE127	Copper (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Cu
CE127	Lead (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Pb
CE127	Mercury (total)	Aqua regia digest, ICP-MS	Dry	M	0.5	mg/kg Hg
CE127	Nickel (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg Ni
CE127	Selenium (total)	Aqua regia digest, ICP-MS	Dry	M	0.3	mg/kg Se
CE127	Vanadium (total)	Aqua regia digest, ICP-MS	Dry	M	1	mg/kg V
CE127	Zinc (total)	Aqua regia digest, ICP-MS	Dry	M	5	mg/kg Zn
CE004	pH	Based on BS 1377, pH Meter	As received	M	-	units
CE061	Sulphate (2:1 water soluble)	Aqueous extraction, ICP-OES	Dry	M	10	mg/l SO_4
CE077	Cyanide (total)	Extraction, Continuous Flow Colorimetry	As received		1	mg/kg CN
CE078	Phenols (total)	Extraction, Continuous Flow Colorimetry	As received		0.5	mg/kg PhOH
CE072	Total Organic Carbon (TOC)	Removal of IC by acidification, Carbon Analyser	Dry	M	0.1	% w/w C
CE072	Estimate of OMC (calculated from TOC)	Calculation from Total Organic Carbon	Dry	M	0.1	% w/w
CE087	Naphthalene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Acenaphthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Fluorene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Phenanthrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(a)anthracene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Chrysene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(b)fluoranthene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(k)fluoranthene	Solvent extraction, GC-MS	As received	M	0.03	mg/kg
CE087	Benzo(a)pyrene	Solvent extraction, GC-MS	As received	U	0.02	mg/kg
CE087	Indeno(123cd)pyrene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Dibenz(ah)anthracene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	Benzo(ghi)perylene	Solvent extraction, GC-MS	As received	M	0.02	mg/kg
CE087	PAH (total of USEPA 16)	Solvent extraction, GC-MS	As received		0.34	mg/kg
CE067	VPH Aromatic (>EC5-EC7)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC7-EC8)	Headspace GC-FID	As received		0.01	mg/kg
CE067	VPH Aromatic (>EC8-EC10)	Headspace GC-FID	As received		0.01	mg/kg
CE068	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID	As received		1	mg/kg
CE068	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID	As received		1	mg/kg

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METHOD DETAILS

METHOD	SOILS	METHOD SUMMARY	SAMPLE	STATUS	LOD	UNITS
CE068	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID	As received		1	mg/kg
CE067	VPH Aliphatic (>C5-C6)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C6-C8)	Headspace GC-FID	As received		0.1	mg/kg
CE067	VPH Aliphatic (>C8-C10)	Headspace GC-FID	As received		0.1	mg/kg
CE068	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID	As received		4	mg/kg
CE068	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID	As received		10	mg/kg
$	Asbestos (qualitative)	HSG 248, Microscopy	Dry	U	-	-
$	Asbestos (quantitative)	HSG 248, Microscopy & Gravimetry	Dry	U	0.001	% w/w

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METHOD DETAILS

METHOD	PREPARED LEACHATES	METHOD SUMMARY	STATUS	LOD	UNITS
CE002	Leachate preparation (EA)	L:S 10:1		-	-
CE128	Arsenic (dissolved)	ICP-MS	U	0.06	µg/l As
CE128	Beryllium (dissolved)	ICP-MS	U	0.06	µg/l Be
CE128	Boron (dissolved)	ICP-MS	U	8	µg/l B
CE128	Cadmium (dissolved)	ICP-MS	U	0.07	µg/l Cd
CE128	Chromium (dissolved)	ICP-MS	U	0.2	µg/l Cr
CE207	Chromium III (dissolved)	Calculation: Cr (total) - Cr (VI)		10	µg/l CrIII
CE050	Chromium VI (dissolved)	Colorimetry	U	10	µg/l CrVI
CE128	Copper (dissolved)	ICP-MS	U	0.4	µg/l Cu
CE128	Lead (dissolved)	ICP-MS	U	0.2	µg/l Pb
CE128	Mercury (dissolved)	ICP-MS	U	0.008	µg/l Hg
CE128	Nickel (dissolved)	ICP-MS	U	0.5	µg/l Ni
CE128	Selenium (dissolved)	ICP-MS	U	0.07	µg/l Se
CE128	Vanadium (dissolved)	ICP-MS	U	0.3	µg/l V
CE128	Zinc (dissolved)	ICP-MS	U	1	µg/l Zn
CE213	pH	Based on BS 1377, pH Meter	U	-	units
CE049	Sulphate	Ion Chromatography	U	1.7	mg/l SO_4
CE147	Cyanide (total)	Continuous Flow Colorimetry		20	µg/l CN
CE148	Phenols (total)	Continuous Flow Colorimetry		10	µg/l PhOH
CE071	Dissolved Organic Carbon	Filtration, TOC analyser	U	5	mg/l C
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l

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DEVIATING SAMPLE INFORMATION

Comments
Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
84523-1	WS01	0.20	N	
84523-2	WS02	0.40	N	
84523-3	WS03	0.30	N	
84523-4	WS04	0.40	N	
84523-5	WS05	0.40	N	
84523-6	WS06	0.10	N	
84523-7	WS07	0.30	N	

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TEST REPORT REVISIONS

The table below identifies ammendments that have been made to this test report for each revision.

Test Report Reference	Details of amendments to test report	Issue Date
84523	Original report issued	26 February 2020
84523(1)	Asbestos (quantitative) added	05 March 2020

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ANALYTICAL TEST REPORT

Contract no:	84752
Contract name:	CBE Ltd, Chesterfield
Client reference:	14265
Clients name:	Ecus
Clients address:	Brook Holt 3 Blackburn Road Sheffield S61 2DW
Samples received:	27 February 2020
Analysis started:	27 February 2020
Analysis completed:	05 March 2020
Report issued:	05 March 2020

Notes:

Opinions and interpretations expressed herein are outside the UKAS accreditation scope.
Unless otherwise stated, Chemtech Environmental Ltd was not responsible for sampling.
All testing carried out at Unit 6 Parkhead, Stanley, DH9 7YB, except for subcontracted testing.
Methods, procedures and performance data are available on request.
Results reported herein relate only to the material supplied to the laboratory.
This report shall not be reproduced except in full, without prior written approval.
Samples will be disposed of 6 weeks from initial receipt unless otherwise instructed.

Key:

U UKAS accredited test
M MCERTS & UKAS accredited test
$ Test carried out by an approved subcontractor
I/S Insufficient sample to carry out test
N/S Sample not suitable for testing

Approved by:

Dave Bowerbank
Customer Support Hero

Chemtech Environmental Limited

WATERS

Lab number			84752-1	84752-2	84752-3
Sample id			WS02	WS05	WS06
Depth (m)			-	-	-
Date sampled			25/02/2020	25/02/2020	25/02/2020
Time sampled			-	-	-
Test	Method	Units			
Arsenic (dissolved)	CE128 U	µg/l As	1.03	0.99	11.52
Beryllium (dissolved)	CE128 U	µg/l Be	<0.06	<0.06	<0.06
Boron (dissolved)	CE128 U	µg/l B	66	60	62
Cadmium (dissolved)	CE128 U	µg/l Cd	<0.07	<0.07	<0.07
Chromium (dissolved)	CE128 U	µg/l Cr	1.2	0.3	24.2
Chromium III (dissolved)	CE207	µg/l CrIII	<10	<10	<10
Chromium VI (dissolved)	CE050 U	µg/l CrVI	<10	<10	33
Copper (dissolved)	CE128 U	µg/l Cu	1.7	0.7	18.4
Lead (dissolved)	CE128 U	µg/l Pb	<0.2	<0.2	<0.2
Mercury (dissolved)	CE128 U	µg/l Hg	<0.008	<0.008	0.011
Nickel (dissolved)	CE128 U	µg/l Ni	4.8	6.6	3.0
Selenium (dissolved)	CE128 U	µg/l Se	1.13	0.28	24.19
Vanadium (dissolved)	CE128 U	µg/l V	1.8	1.2	62.2
Zinc (dissolved)	CE128 U	µg/l Zn	3	6	<1
pH	CE213 U	units	8.0	7.0	11.2
Sulphate	CE049 U	mg/l SO_4	115	130	183
Cyanide (total)	CE147	µg/l CN	<20	<20	<20
Phenols (total)	CE148	µg/l PhOH	<10	<10	<10
Dissolved Organic Carbon	CE204	mg/l C	10	11	23
PAH					
Naphthalene	CE051	µg/l	<0.1	<0.1	<0.1
Acenaphthylene	CE051	µg/l	<0.1	<0.1	<0.1
Acenaphthene	CE051	µg/l	<0.1	<0.1	<0.1
Fluorene	CE051	µg/l	<0.1	<0.1	<0.1
Phenanthrene	CE051	µg/l	<0.1	<0.1	1.6
Anthracene	CE051	µg/l	<0.1	<0.1	<0.1
Fluoranthene	CE051	µg/l	<0.1	<0.1	2.1
Pyrene	CE051	µg/l	<0.1	<0.1	0.6
Benzo(a)anthracene	CE051	µg/l	<0.1	<0.1	0.5
Chrysene	CE051	µg/l	<0.1	<0.1	0.5
Benzo(b)fluoranthene	CE051	µg/l	<0.1	<0.1	<0.1
Benzo(k)fluoranthene	CE051	µg/l	<0.1	<0.1	0.8
Benzo(a)pyrene	CE051	µg/l	<0.1	<0.1	<0.1
Indeno(123cd)pyrene	CE051	µg/l	<0.1	<0.1	0.8
Dibenz(ah)anthracene	CE051	µg/l	<0.1	<0.1	<0.1
Benzo(ghi)perylene	CE051	µg/l	<0.1	<0.1	<0.1
PAH (total of USEPA 16)	CE051	µg/l	<1.6	<1.6	6.7
TPH					
VPH Aromatic (>EC5-EC7)	CE175	µg/l	<1	<1	<1
VPH Aromatic (>EC7-EC8)	CE175	µg/l	<1	<1	1

Chemtech Environmental Limited

WATERS

Lab number			84752-1	84752-2	84752-3
Sample id			WS02	WS05	WS06
Depth (m)			-	-	-
Date sampled			25/02/2020	25/02/2020	25/02/2020
Time sampled			-	-	-
Test	Method	Units			
VPH Aromatic (>EC8-EC10)	CE175	µg/l	<1	<1	<1
EPH Aromatic (>EC10-EC12)	CE161	µg/l	<1	<1	<1
EPH Aromatic (>EC12-EC16)	CE161	µg/l	<1	<1	4
EPH Aromatic (>EC16-EC21)	CE161	µg/l	3	<1	16
EPH Aromatic (>EC21-EC35)	CE161	µg/l	4	<1	13
EPH Aromatic (>EC35-EC44)	CE161	µg/l	2	<1	5
VPH Aliphatic (>C5-C6)	CE175	µg/l	<1	<1	<1
VPH Aliphatic (>C6-C8)	CE175	µg/l	<1	<1	3
VPH Aliphatic (>C8-C10)	CE175	µg/l	<1	<1	<1
EPH Aliphatic (>C10-C12)	CE161	µg/l	<1	<1	8
EPH Aliphatic (>C12-C16)	CE161	µg/l	8	<1	31
EPH Aliphatic (>C16-C35)	CE161	µg/l	42	4	232
EPH Aliphatic (>C35-C44)	CE161	µg/l	31	<1	114

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METHOD DETAILS

METHOD	WATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE128	Arsenic (dissolved)	ICP-MS	U	0.06	µg/l As
CE128	Beryllium (dissolved)	ICP-MS	U	0.06	µg/l Be
CE128	Boron (dissolved)	ICP-MS	U	8	µg/l B
CE128	Cadmium (dissolved)	ICP-MS	U	0.07	µg/l Cd
CE128	Chromium (dissolved)	ICP-MS	U	0.2	µg/l Cr
CE207	Chromium III (dissolved)	Calculation: Cr (total) - Cr (VI)		10	µg/l CrIII
CE050	Chromium VI (dissolved)	Colorimetry	U	10	µg/l CrVI
CE128	Copper (dissolved)	ICP-MS	U	0.4	µg/l Cu
CE128	Lead (dissolved)	ICP-MS	U	0.2	µg/l Pb
CE128	Mercury (dissolved)	ICP-MS	U	0.008	µg/l Hg
CE128	Nickel (dissolved)	ICP-MS	U	0.5	µg/l Ni
CE128	Selenium (dissolved)	ICP-MS	U	0.07	µg/l Se
CE128	Vanadium (dissolved)	ICP-MS	U	0.3	µg/l V
CE128	Zinc (dissolved)	ICP-MS	U	1	µg/l Zn
CE213	pH	Based on BS 1377, pH Meter	U	-	units
CE049	Sulphate	Ion Chromatography	U	1.7	mg/l SO_4
CE147	Cyanide (total)	Continuous Flow Colorimetry		20	µg/l CN
CE148	Phenols (total)	Continuous Flow Colorimetry		10	µg/l PhOH
CE204	Dissolved Organic Carbon	Colorimetry		5	mg/l C
CE051	Naphthalene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Acenaphthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluorene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Phenanthrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Chrysene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(b)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(k)fluoranthene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(a)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Indeno(123cd)pyrene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Dibenz(ah)anthracene	Solvent extraction, GC-MS		0.1	µg/l
CE051	Benzo(ghi)perylene	Solvent extraction, GC-MS		0.1	µg/l
CE051	PAH (total of USEPA 16)	Solvent extraction, GC-MS		1.6	µg/l
CE175	VPH Aromatic (>EC5-EC7)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC7-EC8)	Headspace GC-FID		1	µg/l
CE175	VPH Aromatic (>EC8-EC10)	Headspace GC-FID		1	µg/l
CE161	EPH Aromatic (>EC10-EC12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC12-EC16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC16-EC21)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC21-EC35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aromatic (>EC35-EC44)	Solvent extraction, GC-FID		1	µg/l

Chemtech Environmental Limited

METHOD DETAILS

METHOD	WATERS	METHOD SUMMARY	STATUS	LOD	UNITS
CE175	VPH Aliphatic (>C5-C6)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C6-C8)	Headspace GC-FID		1	µg/l
CE175	VPH Aliphatic (>C8-C10)	Headspace GC-FID		1	µg/l
CE161	EPH Aliphatic (>C10-C12)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C12-C16)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C16-C35)	Solvent extraction, GC-FID		1	µg/l
CE161	EPH Aliphatic (>C35-C44)	Solvent extraction, GC-FID		1	µg/l

Chemtech Environmental Limited

DEVIATING SAMPLE INFORMATION

Comments
Sample deviation is determined in accordance with the UKAS note "Guidance on Deviating Samples" and based on reference standards and laboratory trials.
For samples identified as deviating, test result(s) may be compromised and may not be representative of the sample at the time of sampling.
Chemtech Environmental Ltd cannot be held responsible for the integrity of sample(s) received if Chemtech Environmental Ltd did not undertake the sampling. Such samples may be deviating.

Key

N	No (not deviating sample)
Y	Yes (deviating sample)
NSD	Sampling date not provided
NST	Sampling time not provided (waters only)
EHT	Sample exceeded holding time(s)
IC	Sample not received in appropriate containers
HP	Headspace present in sample container
NCF	Sample not chemically fixed (where appropriate)
OR	Other (specify)

Lab ref	Sample id	Depth (m)	Deviating	Tests (Reason for deviation)
84752-1	WS02	-	Y	Metals(IC), Cyanide(IC, NCF), DOC(NCF)
84752-2	WS05	-	Y	Metals(IC), Cyanide(IC, NCF), DOC(NCF)
84752-3	WS06	-	Y	Metals(IC), Cyanide(IC, NCF), DOC(NCF)

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Appendix 6: Chemical Assessment Tables

	Arsenic	Beryllium	Boron (water soluble)	Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc		pH	Cyanide	Phenols (total)		Asbestos ID
WS01, 0.2m	-	<1	<0.5	-	-	<1	-	-	<0.5	-	<0.3	-	-		9.5	<1	<0.5		None Detected
WS02, 0.4m	-	-	-	<0.2	-	<1	-	-	<0.5	-	-	-	-		8.6	<1	<0.5		None Detected
WS03, 0.3m	-	<1	<0.5	-	-	<1	-	-	<0.5	-	<0.3	-	-		9	<1	<0.5		None Detected
WS04, 0.4m	-	-	-	<0.2	-	<1	-	-	<0.5	-	-	-	-		8	<1	<0.5		None Detected
WS05, 0.4m	-	-	<0.5	<0.2	-	<1	-	-	<0.5	-	-	-	-		7.3	<1	<0.5		None Detected
WS06, 0.1m	-	<1	-	-	-	<1	-	-	<0.5	-	-	-	-		9	<1	<0.5		None Detected
WS07, 0.3m	-	<1	-	-	-	<1	-	-	<0.5	-	-	-	-		8.5	<1	<0.5		Chrysotile
	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-		-
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GQRA Threshold Value (mg/kg)	640	12	240000	190	8600	33	68000	2300	58	980	12000	9000	730000		N/A	50	440		
Maximum (mg/kg)	34	1.6	1	0.8	35	0	56	51	<0.5	55	1.9	59	114		9.5	<1	<0.5		
Minimum (mg/kg)	2.8	<1	<0.5	<0.2	8	<1	2.1	5.9	<0.5	4.3	<0.3	5.3	17		7.3	<1	<0.5		

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NOTES:

1. All values are given in mg/kg unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.

CHEMICAL ASSESSMENT TABLE: COMMERCIAL / INDUSTRIAL

SITE: CBE+ Ltd, Enterprise Drive, Holmewood
CONTRACT: 14265
CLIENT: Environmental Monitoring Solutions Ltd

APPENDIX 6.1

	Napthalene	Acenapthalene	Acenapthene	Flourene	Phenanthrene	Anthracene	Flouranthene	Pyrene	Benzo(a) anthracene	Chrysene	Benzo(b) flouranthene	Benzo(k) flouranthene	Benzo(a) pyrene	Indeno(123cd) pyrene	Dibenz(ah)a nthracene	Benzo(ghi) perylene		Soil Organic Matter (%)
WS01, 0.2m	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-		2.9
WS02, 0.4m	<0.02	<0.02	-	-	-	-	-	-	-	-	<0.02	<0.03	-	-	<0.02	-		2.8
WS03, 0.3m	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02		12.4
WS04, 0.4m	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02		0.9
WS05, 0.4m	-	<0.02	<0.02	<0.02	-	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02		2.9
WS06, 0.1m	-	<0.02	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-		12.4
WS07, 0.3m	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		6.6
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
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GQRA Threshold Value (mg/kg)	190	83000	84000	63000	22000	520000	23000	54000	170	350	44	1200	35	500	3.5	3900		
Maximum (mg/kg)	0.67	0.16	0.25	0.17	2.61	0.95	7.77	7.01	3.19	2.95	3.84	1.67	3.35	2.23	0.37	2.25		
Minimum (mg/kg)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.03	<0.02	<0.03	<0.02	<0.02	<0.02	<0.02		

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NOTES:

1. All values are given in mg/kg unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.
4. GQRA values assume 1% Soil Organic Matter (SOM) unless specified otherwise.

CHEMICAL ASSESSMENT TABLE (SPECIATED PAH): COMMERCIAL

SITE: CBE+ Ltd, Enterprise Drive, Holmewood
CONTRACT: 14265
CLIENT: Environmental Monitoring Solutions Ltd

APPENDIX 6.2

	ALIPHATIC HYDROCARBONS							AROMATIC HYDROCARBONS							
	Ali C5-C6	Ali C6-C8	Ali C8-C10	Ali C10-C12	Ali C12-C16	Ali C16-C35	Ali C16-C35	Aro C5-C7	Aro C7-C8	Aro C8-C10	Aro C10-C12	Aro C12-C16	Aro C16-C21	Aro C21-C35	Aro C35-C44
WS01, 0.2m	<0.1	<0.1	<0.1	<4	<4	-	<10	<0.01	<0.01	<0.01	<1	<1	<1	-	<1
WS02, 0.4m	<0.1	-	-	-	-	-	-	<0.01	<0.01	-	-	-	-	-	-
WS03, 0.3m	<0.1	<0.1	<0.1	<4	<4	-	<10	<0.01	<0.01	<0.01	<1	-	<1	<1	<1
WS04, 0.4m	<0.1	<0.1	<0.1	<4	<4	-	-	<0.01	<0.01	<0.01	<1	-	<1	-	<1
WS05, 0.4m	<0.1	-	<0.1	<4	-	-	<10	-	-	-	<1	-	<1	<1	<1
WS06, 0.1m	<0.1	<0.1	<0.1	<4	<4	<4	<10	<0.01	<0.01	<0.01	<1	-	<1	-	-
WS07, 0.3m	<0.1	<0.1	<0.1	<4	<4	<4	<10	<0.01	<0.01	<0.01	<1	-	<1	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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GQRA Threshold Value (mg/kg)	3200	7800	2000	9700	59000	1600000	1600000	26000	56000	3500	16000	36000	28000	28000	28000
Maximum (mg/kg)	<0.1	2	29.6	1287	1571	12547	436	0.03	0.06	2.76	2	5	11	10	2
Minimum (mg/kg)	<0.1	<0.1	<0.1	<4	<4	<4	<10	<0.01	<0.01	<0.01	<1	<1	<1	<1	<1

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NOTES:
1. All values are given in mg/kg unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.

CHEMICAL ASSESSMENT TABLE (TPH): COMMERCIAL / INDUSTRIAL

SITE: CBE+ Ltd, Enterprise Drive, Holmewood
CONTRACT: 14265
CLIENT: Environmental Monitoring Solutions Ltd

APPENDIX 6.3

	Arsenic	Beryllium	Boron (water soluble)	Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury	Nickel	Selenium	Vanadium	Zinc		pH	Cyanide	Phenols (total)
WS01, 0.20m	-	<0.06	-	<0.07	-	<10	-	<0.2	<0.008	-	-	**1.7**	<1		9.8	<20	<10
WS02, 0.40m	-	<0.06	-	<0.07	<0.2	<10	-	<0.2	<0.008	<0.5	-	**1.2**	<1		7.2	<20	<10
WS03, 0.30m	-	<0.06	-	<0.07	<0.2	<10	<0.4	<0.2	-	<0.5	<0.07	<0.3	<1		9.8	<20	<10
WS04, 0.40m	-	<0.06	-	<0.07	-	12	**2.4**	-	<0.008	-	-	<0.3	<1		8.2	<20	<10
WS05, 0.40m	-	<0.06	-	<0.07	<0.02	<10	-	<0.2	<0.008	-	<0.07	**0.5**	<1		8.3	<20	<10
WS06, 0.10m	-	<0.06	-	<0.07	-	<10	**1.7**	<0.2	<0.008	<0.5	-	<0.5	<1		8.8	<20	<10
WS07, 0.30m	-	<0.06	-	<0.07	-	<10	**7.47**	<0.2	-	<0.5	-	**12.5**	<1		10.2	<20	<10
WS02	-	<0.06	-	<0.07	<10	<10	**1.7**	<0.2	<0.008	-	-	**1.8**	-		8	<20	<10
WS05	-	<0.06	-	<0.07	<10	<10	-	<0.2	<0.008	-	-	**1.2**	-		7	<20	<10
WS06	**11.52**	<0.06	-	<0.07	<10	33	**18.4**	<0.2	-	-	**24.19**	**62.2**	<1		11.2	<20	<10
	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
EQS Threshold Value (ug/l)	50	N/A	2000	5	5	N/A	1	4	1	N/A	N/A	N/A	N/A		N/A	0	0
DWS Threshold Value (ug/l)	10	N/A	1000	5	50	N/A	2000	10	1	20	10	N/A	5000		N/A	50	0.5
Maximum (mg/kg)	11.52	<0.06	66	<0.07	3.88	33	18.4	0.4	0.014	6.6	24.19	62.2	6		11.2	<20	<10
Minimum (mg/kg)	0.08	<0.06	7	<0.07	<0.02	<10	<0.4	<0.2	<0.008	<0.5	<0.07	<0.3	<1		7	<20	<10

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NOTES:

1. All values are given in ug/l unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.
4. Where no EQS or DWS guideline values are available, the recorded concentrations are stated for the repsecitve chemicals.

CHEMICAL ASSESSMENT TABLE: LEACHATE / WATER SAMPLES

SITE: CBE+ Ltd, Enterprise Drive, Holmewood
CONTRACT: 14265
CLIENT: Environmental Monitoring Solutions Ltd

TABLE 6.4

	Napthalene	Acenapthalene	Acenapthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(a) anthracene	Chrysene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(a)p yrene	Indeno(123cd) pyrene	Dibenz(ah)a nthracene	Benzo(ghi) perylene
WS01, 0.20m	<0.1	<0.1	<0.1	0.4	1.1	<0.1	<0.1	0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS02, 0.40m	<0.1	<0.1	<0.1	0.4	0.6	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS03, 0.30m	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS04, 0.40m	1	<0.1	0.6	0.6	1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS05, 0.40m	0.2	<0.1	0.6	0.4	1.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS06, 0.10m	3.3	<0.1	1.3	1.1	1.8	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS07, 0.30m	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS02	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
WS06	<0.1	<0.1	<0.1	<0.1	1.6	<0.1	2.1	0.6	0.5	0.5	<0.1	0.8	<0.1	0.8	<0.1	<0.1
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EQS Threshold Value (ug/l)	10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DWS Threshold Value (ug/l)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.01	N/A	N/A	N/A
Maximum (mg/kg)	3.3	<0.1	1.3	1.1	1.8	<0.1	2.1	0.9	0.5	0.5	<0.1	0.8	<0.1	0.8	<0.1	<0.1
Minimum (mg/kg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

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NOTES:

1. All values are given in ug/l unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.
4. Where no EQS or DWS guideline values are available, the recorded concentrations are stated for the repsecitve chemicals.

CHEMICAL ASSESSMENT TABLE (SPECIATED PAH): LEACHATE / WATER SAMPLES

SITE: CBE+ Ltd, Enterprise Drive, Holmewood

CONTRACT: 14265

CLIENT: Environmental Monitoring Solutions Ltd

TABLE 6.5

	ALIPHATIC HYDROCARBONS							AROMATIC HYDROCARBONS							
	Ali C5-C6	Ali C6-C8	Ali C8-C10	Ali C10-C12	Ali C12-C16	Ali C16-C35	Ali C16-C35	Aro C5-C7	Aro C7-C8	Aro C8-C10	Aro C10-C12	Aro C12-C16	Aro C16-C21	Aro C21-C35	Aro C35-C44
WS01, 0.20m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS02, 0.40m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS03, 0.30m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS04, 0.40m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS05, 0.40m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS06, 0.10m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS07, 0.30m	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WS02	<1	<1	<1	<1	8	42	31	<1	<1	<1	<1	<1	3	4	2
WS05	<1	<1	<1	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	<1
WS06	<1	3	<1	8	31	232	114	<1	1	<1	<1	4	16	13	5
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maximum (mg/kg)	0	3	0	8	31	232	114	0	1	0	0	4	16	13	5
Minimum (mg/kg)	0	3	0	1	8	4	31	0	1	0	0	4	3	4	2

ecus
ENVIRONMENTAL CONSULTANTS

Brook Holt, 3 Blackburn Road, Sheffield S61 2DW

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NOTES:

1. All values are given in ug/l unless otherwise stated.
2. All chemical levels below relevant GQRA threshold values shown as "-"
3. For actual chemical results refer to laboratory testing certificates.
4. No EQS or DWS threhold values available for petroleum hydrocarbons

CHEMICAL ASSESSMENT TABLE (TPH):

LEACHATE / WATER SAMPLES

SITE: CBE+ Ltd, Enterprise Drive, Holmewood

CONTRACT: 14265

CLIENT: Environmental Monitoring Solutions Ltd

TABLE 6.6

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