OAKLANDS FARM SOLAR PARK

Applicant: Oaklands Farm Solar Ltd

Environmental Statement

Appendix 9.1 – Land Quality Desk Study and Preliminary Coal Mining Risk Assessment

January 2024

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Oaklands Farm Solar Park - Environmental Statement Volume 3

Appendix 9.1: Land Quality Desk Study and Preliminary Coal Mining Risk Assessment

Final report
Prepared by LUC
January 2024

Oaklands Solar Farm: Land Quality Desk Study and Preliminary Coal Mining Risk Assessment

A REPORT FOR LAND USE CONSULTANTS LTD
JANUARY 2024
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Oaklands Solar Farm: Land Quality Desk Study and Preliminary Coal Mining Risk Assessment

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1 Introduction

1.1 INSTRUCTION

Yellow Sub Geo Ltd (Yellow Sub) was instructed by Land Use Consultants Ltd (LUC; the Client) to provide a Phase 1 preliminary risk assessment (Desk Study) and prepare a Coal Mining Risk Assessment (CMRA) for two linked parcels of land between Oaklands Farm and Park Farm (the Site). Instruction to proceed in accordance with Yellow Sub proposal (Ref: P20209_P1) was received by email dated 17th March 2021. This desk study and CMRA was revised in September 2023 in line with design freeze and an updated red line boundary.

1.2 BRIEF

The brief was to provide a land quality desk study and an assessment of potential land stability risk to the Proposed Development from historic, present and future coal mining at the Site to support the application for a Development Consent Order (DCO) and Environmental Impact Assessment (EIA) for a solar farm with a generating capacity in excess of 50MW.

1.3 BACKROUND

The Site is located in Swadlincote to the south of Burton-on-Trent. The proposed development involves the installation of a 100MW solar farm comprising ground mounted photovoltaic (PV) panels across 23No. agricultural fields on Oaklands farm with a grid connection and access tracks only in Park farm leading to the nearby former Drakelow Power Station.

1.4 SCOPE

1.4.1 Land quality desk study

This report presents records of desk study research, which is in-turn used to develop a conceptual site model and inform a preliminary environmental risk assessment. The information and assessment presented herein is considered sufficient to support the EIA and DCO process.

The report identifies key potential land quality risks and uncertainties associated with the ground conditions which may require further assessment and/ or risk management in due course via suitable requirements attached to the DCO.

1.4.2 CMRA

The purpose of the Coal Mining Risk Assessment (CMRA) is to:

- present a desk-based review of available information pertaining to coal mining issues which are relevant to the Site;
- use that information to identify and assess the potential risks to the proposed development from coal mining legacy;
- if required, set out appropriate mitigation measures to address the coal mining legacy issues affecting the Site, including any necessary remedial works and/or demonstrate how coal mining issues have influenced the proposed development; and,
- demonstrate to the local planning authority (LPA) that the Site is, or can be made, safe and stable to meet the requirements of national planning policy with regards to development on unstable land.

1.5 LIMITATIONS

This report is written strictly for the benefit of the Client and bound by the conditions presented in Appendix A.

2 Desk study

The following section collates and presents available information pertinent to the Site and its local environs.

2.1 SITE LOCATION

The Site comprises a development parcel of land over Oaklands farm area with the proposed cable route running through Park Farm area as shown on drawing P20209_R1_D01.

The Site area (taken from the red line boundaries presented in drawing P20209_R1_D01) is approximately 136.64 ha (1,366,400m^2).

The southernmost boundary of the Site intersects Coton Road. The majority of the Oaklands farm portion of Site lies to the north and east of the farmyard with a small arc of land outside of the boundary surrounding the yard. The cable route runs through Park Farm to Drakelow Power Station.

Whilst no development is proposed on the land within the former power station, this will be where the cables are routed across. This Site boundary is shown in drawing P20209_R2_D01.

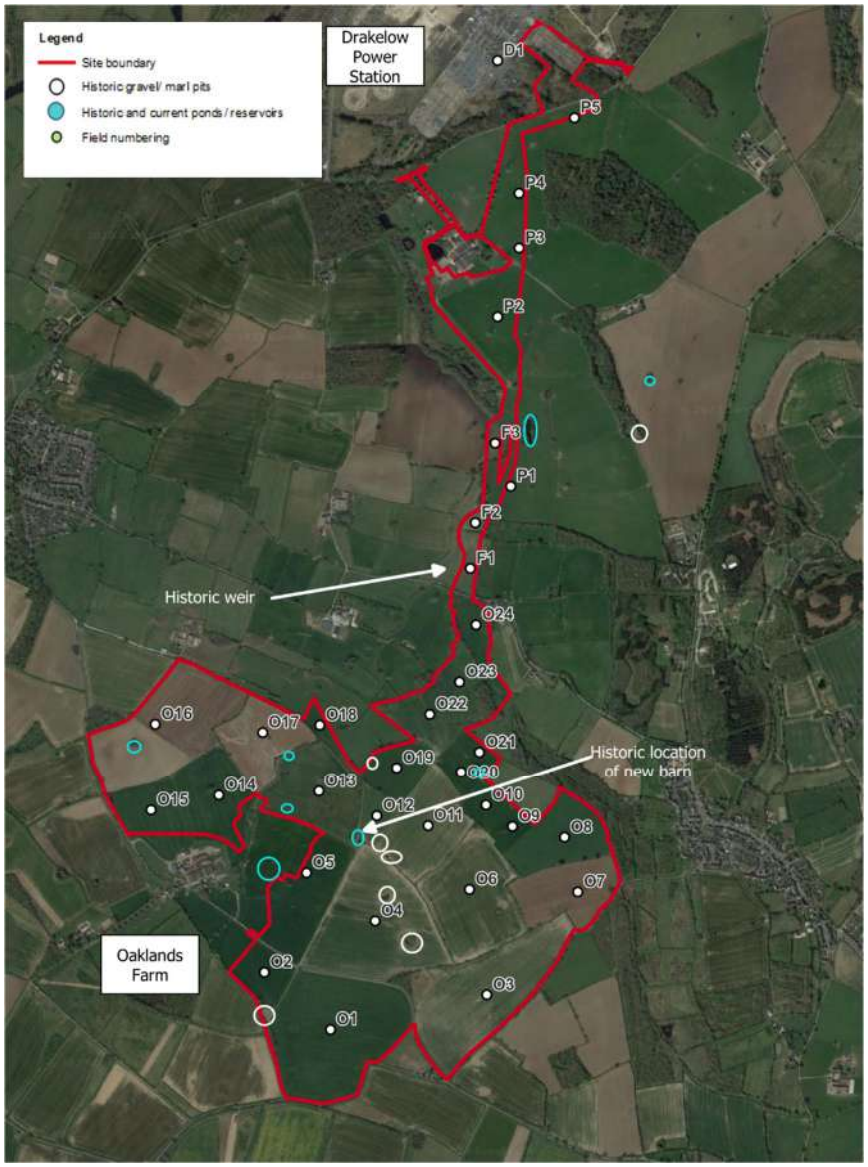
2.2 PROPOSED DEVELOPMENT

We understand that the Proposed Development will comprise a 100MW ground mounted PV solar farm. The proposed development layout has been received from the Client to inform this report. The Site has been split into 37 sections (fields) each comprising solar panels in an east-west alignment. A cable route will run from Drakelow power station the northernmost part of the Site. The works plan is shown in Appendix 1.3 of the Environmental Statement.

2.3 SITE WALKOVER

A Site walkover survey was undertaken on 16th July 2021 and selected photos are presented in Appendix B. Key observations and field numbering is shown in Figure 2-1 below. Site access was organised with the two landowners. Site specific RAMS were submitted to LUC and BayWA (the Developer) for prior approval.

Figure 2-1 Oaklands solar farm field numbers and historic map observations



2.3.1 Overview

The Site comprises a series of agricultural fields from three different farms: Park Farm, Fairfield Farm and Oaklands Farm. The fields are bordered by a combination of wooden fencing, mature hedgerows and small country roads. The fields are further bisected by access tracks and public footpaths (the location of which can be seen in Appendix B).

2.3.2 Topography

The Site is variable in elevation generally sloping down from an elevated high point of 92m above Ordnance Datum (m aOD) in the southern section of Site to around 64m aOD at the northern extent.

It was also noted during a Site walkover that there are many localised changes in slope on Site The changes in slope are more pronounced in the fields to the south which are undulating in nature. Fields O4, O11, O10, O12, O21, O6, O7 and O3 have notable breaks in slope.

2.3.3 Historic gravel and marl pits

Located in north of Oaklands Farm in fields O4 and O11 there was noted to be evidence of two depressions in this area. Area comprises a distinctive copse of semi-mature trees within an arable landscape denoting the location of historic marl pits.

The junction of fields to the east of Site comprise an area now covered in heavily vegetated coppiced land. A slight break in slope is the only evidence remaining of a historic gravel pit.

2.3.4 Historic Reservoir and ponds

Located directly east of Oaklands Farm field O5 boundary, a small area of coppiced trees marks the location of the historic reservoir.

Several areas of historic ponds were noted across the Site. In fields east of the boundary of F3, small areas of ponded water remain on Site. In fields O16, O12, O20 and O13 no evidence of the historic ponds now exists. The areas comprise flat arable land.

2.3.5 Surrounding area

In the surrounding area there lies further agricultural land and the nearby village of Rosliston to the east. The village of Walton-on-Trent lies to the west of Site. Drakelow power station is located to the north with demolition of the cooling towers occurring in 2006. More recently the power station was granted planning permission in 2019 for the construction of a renewable energy centre using waste to produce electricity through a process known as gasification. The Site once fully constructed will have a peak movement of 200 lorries in and out of Site each day. Drakelow Park to the east is currently also under construction, with 2,000 new homes, a business park, primary school and riverside park planned over the next 15 years*.

*Derby Telegraph, 2019

2.4 GEOLOGY

According to British Geological Survey (BGS) 1:50,000 scale map sheet 140 (Green et al., 1966), the geological sequence underlying the Site is as follows:

- Superficial deposits: Thrussington Member – Diamicton in the southern and eastern sections of the Site;
- Superficial deposits: Alluvium running through the north central region;
- Superficial deposits: Glaciofluvial deposits in the northern central and a small section in the eastern part of Oaklands farm site;
- Superficial deposits: River Terrace Deposits and infilled Made Ground in the north beneath the power station;
- Solid geology: Edwalton Member – sandstone and mudstone;
- Solid geology: Gunthorpe Member – mudstone in the east of the Site;
- Solid geology: Mercia Mudstone member – Siltstone. Small areas in the central southern section of Site;
- A central fault runs through Site trending north-south; and
- Although not present at surface, productive coal seams are present at depth beneath the Site, within the Coal Measures strata.

Due to the complexities in the local geological sequence, the superficial and bedrock geology is presented in Figures 2-2 and 2-3 below.

Five historical BGS boreholes with records are present within, or in close to the Site boundary. The location of these and selected borehole logs are presented in Drawing P20209_R1_D02 A summary of the historical borehole information is presented in Table 2-1.

Table 2-1 Summary of historical BGS borehole information

BGS reference	Name	Strata encountered (m bgl)	Comments
SK21NW17	NEW BARN	Underground borehole, recorded sequence of deep coal measures. Base of the Trias recorded at 456m bgl with middle coal measures beginning at 456-471m bgl.	Borehole sunk for the National Coal Board (NCB) possibly to prove productive Coal Measures beneath the Triassic strata.
SK21NW39	COOPERSHILL	Underground borehole, recorded sequence of deep coal measures. Base of the Trias recorded at 360.6m bgl.	Borehole sunk for the NCB possibly to prove productive Coal Measures beneath the Triassic strata.
SK21NW6	WARRENHILL	Underground borehole, recorded sequence of deep coal measures. Base of the Trias recorded at 501m bgl based on geophysical logs.	Borehole sunk for the NCB possibly to prove productive Coal Measures beneath the Triassic strata.
SK21NW10	FAIRFIELDS	Underground borehole, recorded sequence of deep coal measures. Base of the Trias recorded at 442m bgl with middle coal measures beginning at 445m bgl.	Borehole sunk for the NCB possibly to prove productive Coal Measures beneath the Triassic strata.
SK21NW28	WALTON LANE	Underground borehole, recorded sequence of deep coal measures. Base of the Trias recorded at 356m bgl with middle coal measures beginning at 356m bgl.	Borehole sunk for the NCB possibly to prove productive Coal Measures beneath the Triassic strata.
SK21NW21	BULL'S HEAD	Open hole from geophysical logs Base of the Trias recorded at 333.37m bgl with middle coal measures beginning at 333.37m bgl.	Simplistic borehole log. Borehole sunk to prove productive Coal Measures beneath the Triassic strata. Limited information regarding the shallow geology.

The historical boreholes largely confirm the geology at the Site to be as suggested by the geological mapping, with limited to no superficial deposits overlying a significant thickness (in the region of 333 to 500m) of Triassic strata followed by the Coal Measures including productive coal seams at depth beneath the Site. Limited information has been obtained regarding the superficial deposits at the Site (where present) which appear to have been poorly or unclearly recorded. However, the presence of glacial sand and gravel has been confirmed in the north of the Site.

Figure 2-2 Superficial geology from BGS 50K WMS mapping

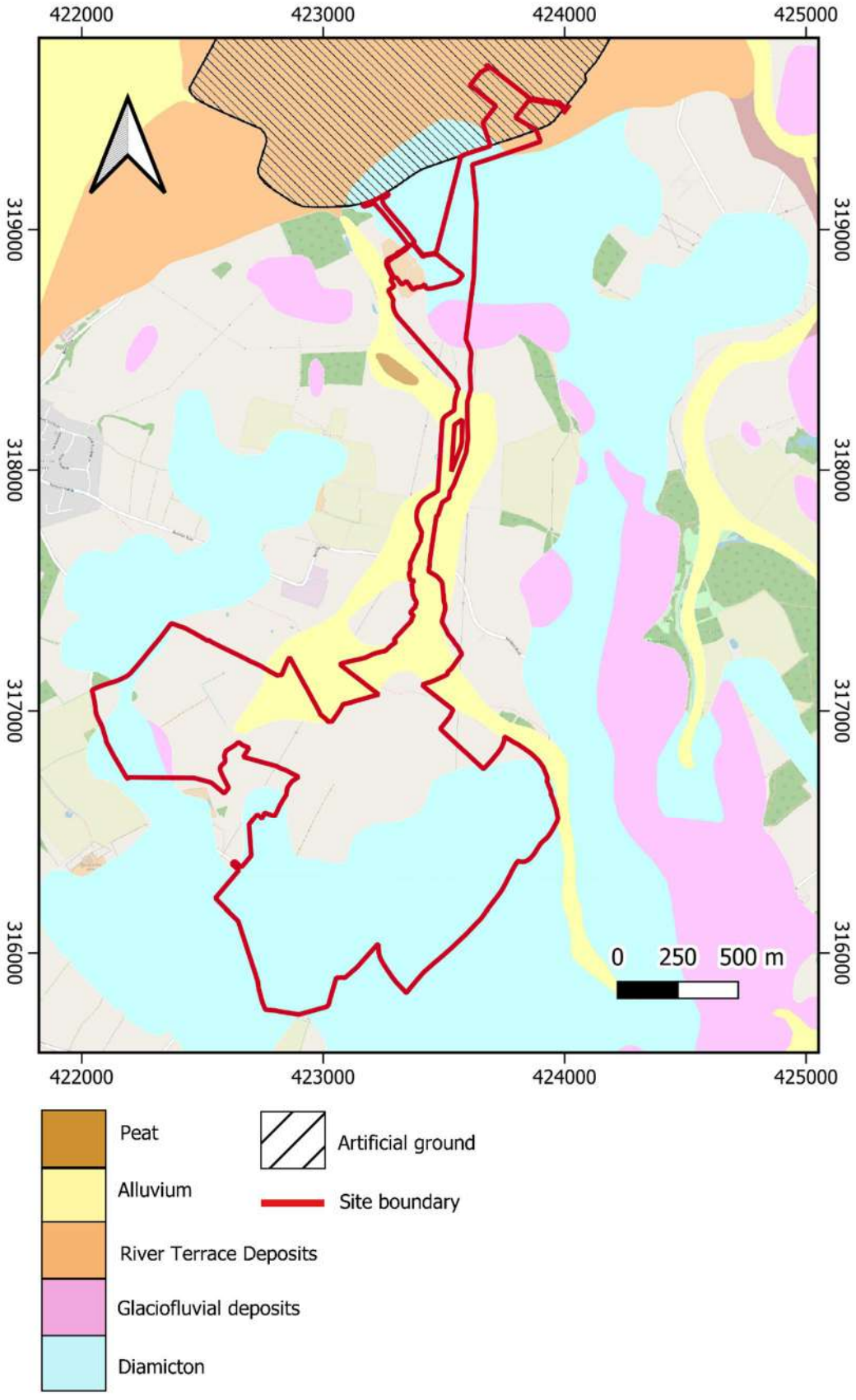
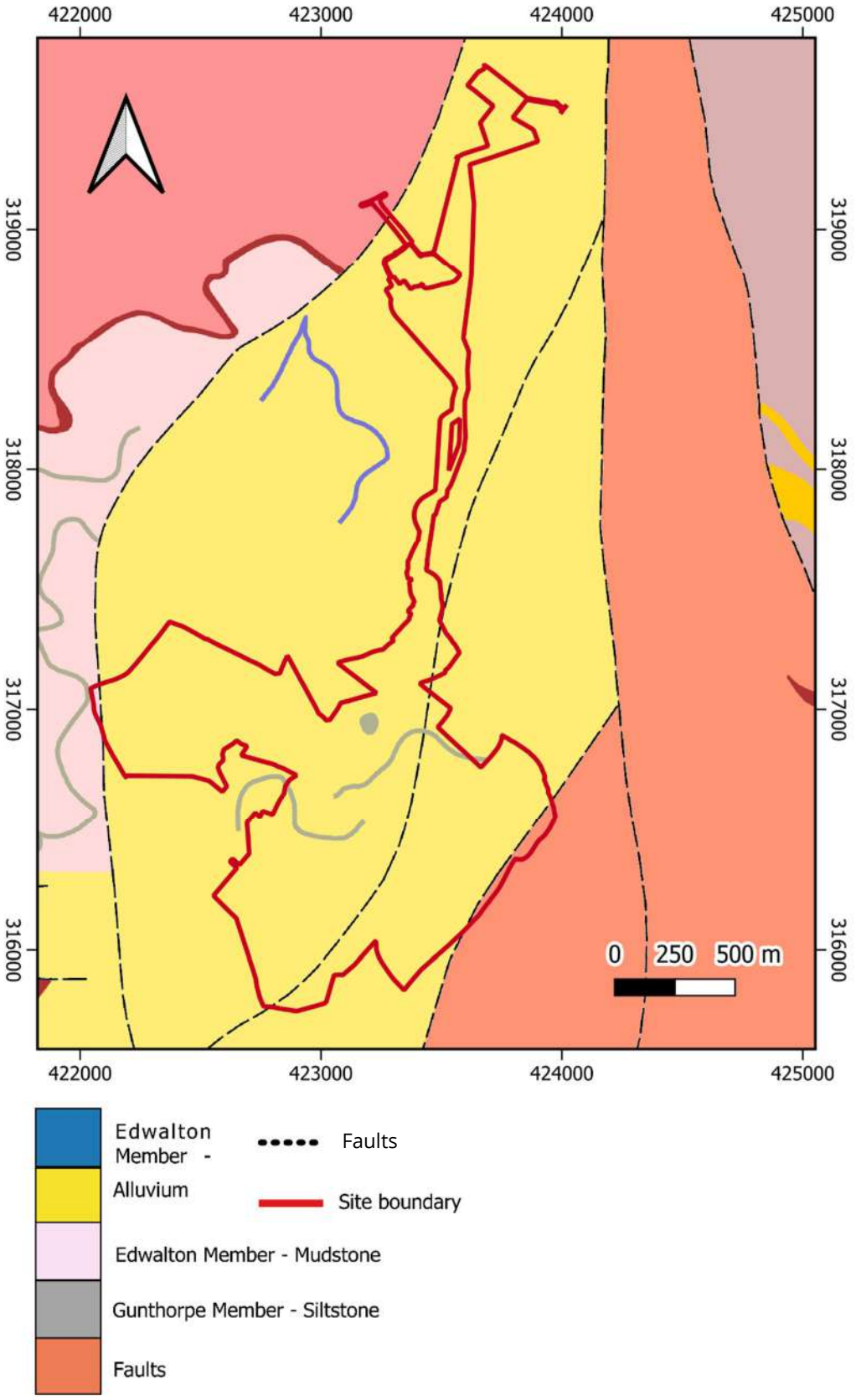


Figure 2-3 Bedrock geology from BGS 50K WMS mapping



2.5 HYDROGEOLOGY

The Alluvium and glaciofluvial deposits beneath some areas of the Site are classified by the Environment Agency (EA) as a high vulnerability Secondary A Aquifers. These are defined by the EA as 'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers'.

The Edwalton Member bedrock beneath the Site is classified as a Secondary B Aquifer. These are defined by the EA as 'predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering'.

2.6 HYDROLOGY

2.6.1 Surface water

The main water body in the area is the River Trent lying approximately 1.4km to the west of the Site. Ordnance survey mapping shows a small tributary of the River Trent running to the east of the Site boundary in overgrown vegetation that made it inaccessible during the walkover. This tributary then joins the small area of ponded water in field O24. Further areas of ponded water were noted on aerial imagery (2021 mapping) to be located in field P4 of the Park Farm Site. This area was fenced off with mature trees surrounding it so was not accessed during the walkover. A small stream was located north of Rosliston road (east of old Barn Farm) crossing the Site east-west. From OS mapping this is likely a continuation of the River Trent tributary. A pre-constructed culvert allowing access into the field was noted.

2.6.2 Flooding

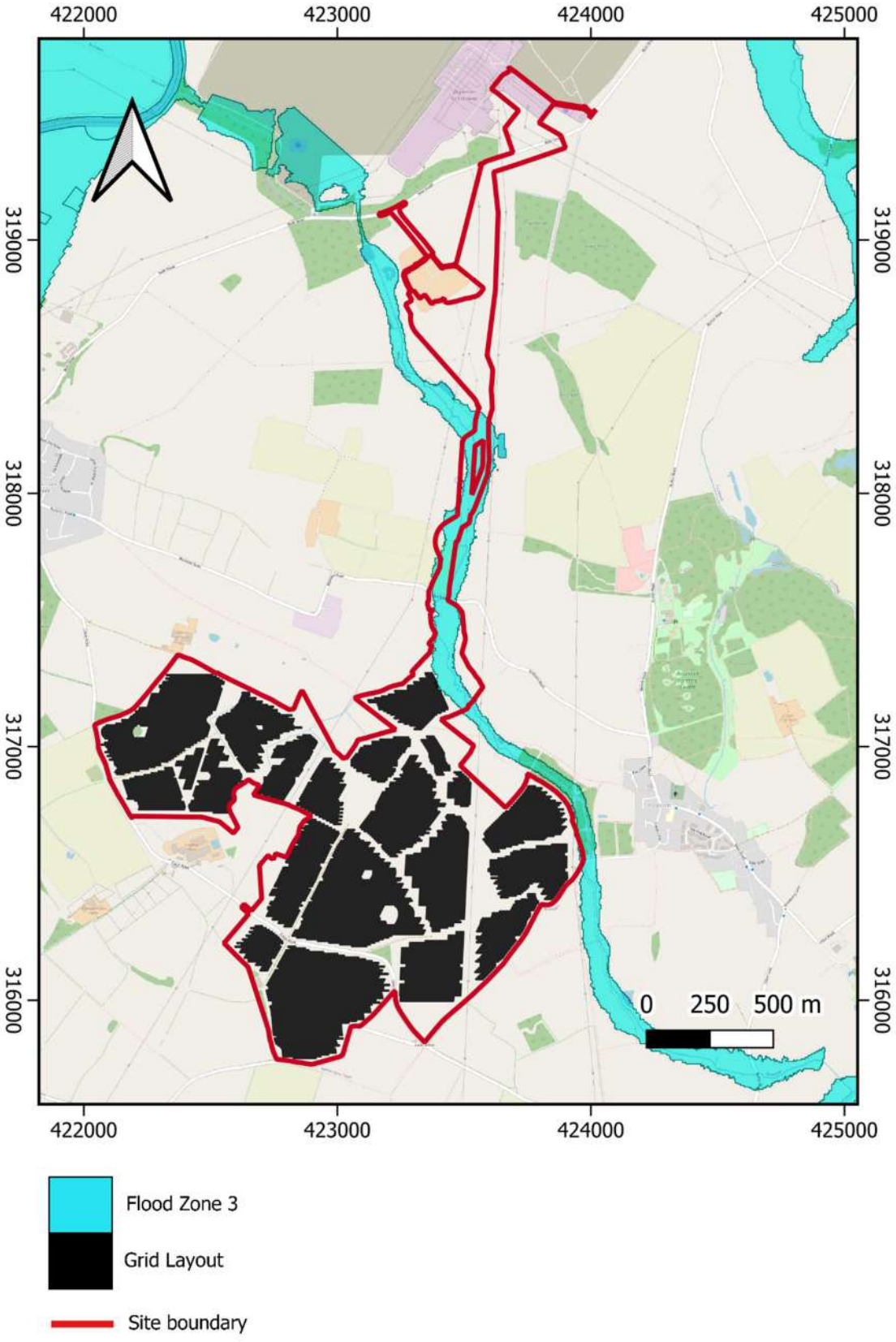
EA mapping indicates the majority of the Site is located in Flood Zone 1 (low risk). An area along the eastern boundary of the Site and the central area of Site is in Flood Zone 3 (high risk). These Flood Zone 3 areas appear to lie either side of a small tributary of the River Trent. The flood risk is mapped below is Figure 2-4.

The Site is shown by EA mapping to be a very low risk from surface water (pluvial) flooding apart from the north-eastern boundary which is shown to be medium to high risk.

2.6.3 Groundwater flooding

According to the BGS, there is limited potential for groundwater flooding to occur on Site.

Figure 2-4 Flood risk mapping from EA data



2.7 SITE HISTORY

2.7.1 Historical Ordnance Survey mapping

A review of historical Ordnance Survey (OS) mapping of the Site has been undertaken. The historical mapping is provided in Appendix C. The salient observations are summarised in Table 2-2.

Table 2-2 Site history

Epoch	Details	Development consideration
1883-1884 1:10,560 & 1:2,500	The Site comprises agricultural land. Oaklands farm and related buildings have been constructed to the south-west of the Site. Grove Farm (later to become Park Farm) has been constructed to the North. New Barn Farm has been built near the centre of Site (Field O12). The northern extent of Site consists of open fields and a fish pond with a small lodge to the south west.	None.
1901-1902 1:10,560 & 1:2,500	A reservoir has been constructed in Field O5 adjacent north-east of Oaklands farm. Two gravel pits are marked extending east of Field P1 and in the centre of Grove Farm. Fairfield building has been constructed to the north of Site. A hydraulic ram has been installed at the junction of Fields O19 and O11. The northern extent fish pond is now marked as a Sluice.	Possible infilled ground.
1923-1938 1:10,560 & 1:2,500	An Old Marl Pit is marked to the east of Oaklands farm buildings and another to the south-west of Fairfield farm building. The gravel pit off-site east of field P4 is now marked as 'old'. By 1938 northern extent sluice has been extended and a hydraulic ram has been constructed.	Possible infilled ground.
1955-1963 1:10,000 & 1:2,500	Several ponds constructed to the north and south-west of New Barn. The reservoir has been filled in and is no longer marked. A large fishpond has been constructed in adjacent to Field F3's eastern boundary. No other significant changes. In the northern extent of the Site Drakelow Power Station was commissioned in 1955.	Possible infilled ground.
1968-1992 1:10,000 & 1:2,500	Rosliston Road that bisects the Site and Coton Road to the south of Site are now marked. Old Barn Farm has been constructed directly north of the Site below	Possible presence of Made Ground/ demolition waste

Epoch	Details	Development consideration
	Fairfield. Off Site to the South Oaklands farm buildings expanded in size with residential Twin Oaks House and Oaklands Farm Cottages constructed to the south and south-east. By 1969 mapping Drakelow power station in the north of the Site has been fully constructed with associated cooling towers and substation infrastructure.	on Site to the north.
1993-1994 1:10,000 & 1:2,500	A drain is marked crossing fields on Oaklands farm. By 1994 New Barn in field O12 has been demolished.	Possible presence of Made Ground/ demolition waste on Site.
1999-2000 1:10,000 & aerial	Drainage streams marked to the east of the Site with ponded areas to the south by Oaklands farm. Old Barn farm has been renamed as Ashtree farm.	None.
2006 1:10,000	Expansion of Oakland farm buildings to the south of Site. Drakelow power station to the north has demolished all cooling towers by 2006.	None.
2007-2020 aerial)	Shows the Site and surrounding area in their current layout.	None.

2.7.2 Other sources of date

Google Earth provides a sequence of aerial photographs dated from 1999 onwards. This shows the majority of the Site to comprise open farmland. Features of note are detailed in Table 2-3 below.

Table 2-3 Key features aerial photography

Date of aerial photography	Location	Comments
1999-2021	Field O4 – Oaklands Farm	Surface depression between two clumps of trees noted (Historic Marl Pit)
2021	Field P3 - Park Farm	Small, ponded area of water

2.8 GEO-HAZARDS

The Envirocheck report provided in Appendix C also includes information from the BGS regarding potential geo-hazards on or near the Site. These potential geo-hazards are summarised in Table 2-4 below.

Table 2-4 Summary of geo-hazards

Ground stability hazards	The following potential ground stability hazards have been identified by the BGS on-Site:	
	Collapsible ground	Very Low
	Compressible ground	Moderate
	Ground dissolution	No Hazard
	Landslide ground	Very Low
	Running sand	Low
	Shrinking or swelling clay	Low
Radon	The property is in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Therefore, no radon protective measures are necessary in the construction of new dwellings or extensions.	

2.9 ENVIRONMENTAL DESIGNATIONS

The Site lies within a Nitrate Vulnerable Zone. The River Mease SAC and SSSI lies 3.5km to the southwest of the Site. The Site falls within the outer bounds of the SSSI impact risk zone.

2.10 PRELIMINARY UXO RISK ASSESSMENT

Zetica produce online mapping relating to potential risks associated with discovering unexploded ordnance (UXO). Based on this mapping, the Site is indicated to be at a Low Risk from all forms of UXO.

2.11 MINERAL CONSULTATION AREA

The Mineral Planning Authority for the site is Derbyshire County Council. They state that the extant Minerals Plan (Derby and Derbyshire Minerals Local Plan – Adopted Edition – April 2000, Incorporating First Alteration: Chapter 13 – Coal – November 2002) is out of date and they are working on producing a new one. Notwithstanding this, the extant plan remains available for review and is the de facto current source of information on safeguarding of mineral resources in the county.

The Site boundary for the Proposed Development extends into the area of the former Drakelow Power Station to the north of Park Farm. This area is indicated on Derbyshire County Council's Minerals Plan Map 3 as being a Minerals Consultation Area. Interaction with the consultation areas is deemed to be minimal as construction in Drakelow Power Station is limited to a very small area of a grid connection via underground cables. Across the rest of the proposed development, the superficial geology and solid geology are such that key minerals are not present beneath. This is confirmed by the Minerals Plan, which does not detail any safeguarding or consultation areas elsewhere within the Site.

3 Preliminary conceptual site model and risk assessment

The following section draws together the relationship of identified sources, viable pathways and environmental receptors in order to define a conceptual site model for the ground conditions beneath the Site. These elements are then used to underpin a qualitative assessment of risk.

3.1 SOURCES

The key identified potential contaminant sources are summarised as follows:

3.1.1 On-Site source potential

- Possible infilled reservoir with unknown material;
- Possible infilled gravel and marl pits with unknown material; and,
- Demolition of New Barn on Site.

Whilst the former Drakelow power station is located to the north of the Site, it has been decommissioned therefore has limited ongoing source potential and is only proposed to facilitate a grid connection (underground cable). Therefore, it is not considered further.

3.1.2 Off-Site source potential

None identified.

3.2 PATHWAYS

For the purposes of this risk assessment, it is assumed that the relevant existing potential pathways comprise:

- Direct contact with sub-surface materials (dermal soil/ leachate contact, soil ingestion and dust ingestion/ inhalation);
- Leaching of contaminants to groundwater;
- Migration of dissolved phase contamination in groundwater; and,
- Migration of gas and/ or vapours through preferential pathways and/ or permeable sub-surface materials.

3.3 RECEPTORS

The key identified potential environmental receptors are summarised as follows:

3.3.1 Environmental

- Secondary A and B aquifers (Alluvium and Edwalton Member); and,
- River Trent and River Mease (SSSI and SAC).

3.3.2 Human Health

- Construction workers; and,
- Future Site users.

3.4 QUALITATIVE RISK ASSESSMENT

A summary of the potential contaminant linkages associated with the Site is presented in Table 3-1, alongside an assessment of the risks posed by each linkage. The contaminant linkages have been assessed using the risk assessment methodology described in CIRIA C552 (2001). As such, risk is considered to be a function of both the probability (likelihood) of

contamination occurring at the study site and also the potential severity (consequence) of the environmental impacts associated with any such contamination. The classification system used to define contaminant probability, consequence and risk is described in Appendix D.

Table 3-1 Pollutant linkage assessment

Sources	Pathways	Receptors	Consequence	Probability	Risk	Risk management / remediation
Infilled reservoir, marl and gravel pits. Demolition of New Barn – possible made ground	Direct human contact exposure pathways (dermal, ingestion, inhalation)	Future Site visitors	Mild	Unlikely	Very low	None required.
		Construction workers	Mild	Low Likelihood	Low	None required but a reactive watching brief should be maintained throughout development works with appropriate action(s) taken should unforeseen contamination be encountered. Risk to construction works can be adequately managed to low by standard precautions and health and safety procedures commensurate with working on brownfield sites.
	Leaching and/or water mobile constituents passing through permeable sub-surface soils and/or shallow preferential pathways	Secondary A and B Aquifers	Medium	Unlikely	Low	Significant contamination is not anticipated based on the historical Site use but the presence an infilled reservoir/ pits remains a residual risk. Mitigation is afforded by the sectioning-off of these areas in the Site layout plan. No excavation for cable routing or solar panel construction is to take place in these areas.
		Seasonal stream	Mild	Low likelihood	Low	The small stream along the eastern Site boundary was only noted to contain water in the north of the Site with the remainder appearing dry suggesting it is seasonal. Whilst the stream drains to the River Trent this is approximately 1.4km west of the Site. The River Mease (SSSI and SAC) is located approximately 3.5km south of the Site at their closest points. The River Mease and its confluence with the River Trent are also downstream of the Site therefore this is unlikely to be impacted. During construction, a Construction Environmental Management Plan (CEMP) should be implemented to control surface water runoff and potential contamination of the stream by silt or other potential contaminants. Otherwise, no further measures are recommended.
		River Trent and River Mease	Medium	Unlikely	Low	

Sources	Pathways	Receptors	Consequence	Probability	Risk	Risk management / remediation
	Migration of gases and/or vapours through permeable subsurface materials and/or preferential pathways	Future Site users	Medium	Unlikely	Low	Whilst Made Ground may be present, there is nothing to suggest an elevated source of ground gas (including radon) or vapour is present in the sub-surface. As areas of the Proposed Development such as the BESS and substation may interact with areas of infilled land, a Site Investigation targeting these areas is recommended s part of the DCO tr

4 Coal Mining Risk Assessment

4.1 DATA REVIEW

4.1.1 Sources of information

The CMRA is based on data obtained from the following sources:

- The Coal Authority Interactive Map Viewer – accessed online (Accessed 13/07/2021);
- Coal Authority guidance document 'Risk Based Approach to Development Management, Guidance for Developers, Version 4 2017';
- CON29M Coal Mining Report 'Park Farm, Swadlincote, Derbyshire, DE12 8LR', Report Ref 51002546237001, dated 25th May 2021;
- CON29M Coal Mining Report 'Oaklands, Swadlincote, Derbyshire, DE12 8LR', Report Ref 51002546237002, dated 25th May 2021;
- British Geological Survey (BGS) 1:50,000 geological mapping, Sheet 140, Burton upon Trent Solid and Drift (1982);
- BGS Onshore Geoindex – accessed online (Accessed July 2021);
- Historical BGS borehole data – accessed online (Accessed July 2021);
- Historical mapping – accessed online (Accessed July 2021);
- Google Earth Pro aerial photographs – accessed online (Accessed July 2021); and,
- Britain from the air – accessed online (Accessed July 2021).

4.1.2 Coal Authority Interactive Viewer

The Coal Authority interactive viewer identifies the Site to lie in a 'Coal Mining Reporting Area' albeit in a 'Development Low Risk Area'. The includes recorded mine workings beneath the south-eastern edge of the Site boundary near Catton Lane. No mine entries are indicated on or in the immediate proximity of the Site with the nearest mine entry indicated to be approximately 1.2km east / south-east of the Site, in close proximity to the village of Rosliston.

No coal sub-crops and no areas of probable working are indicated at the Site.

Multiple panels of underground workings are indicated along the eastern boundary of both sections of the Site as highlighted in Figure 4-1 below.

4.2 COAL AUTHORITY REPORT

Two CON29M Coal Mining Reports were obtained by Yellow Sub from the Coal Authority on the 25th of May 2021. Both reports cover each section of the Site and are presented as Appendix E.

4.2.1 Underground mine workings

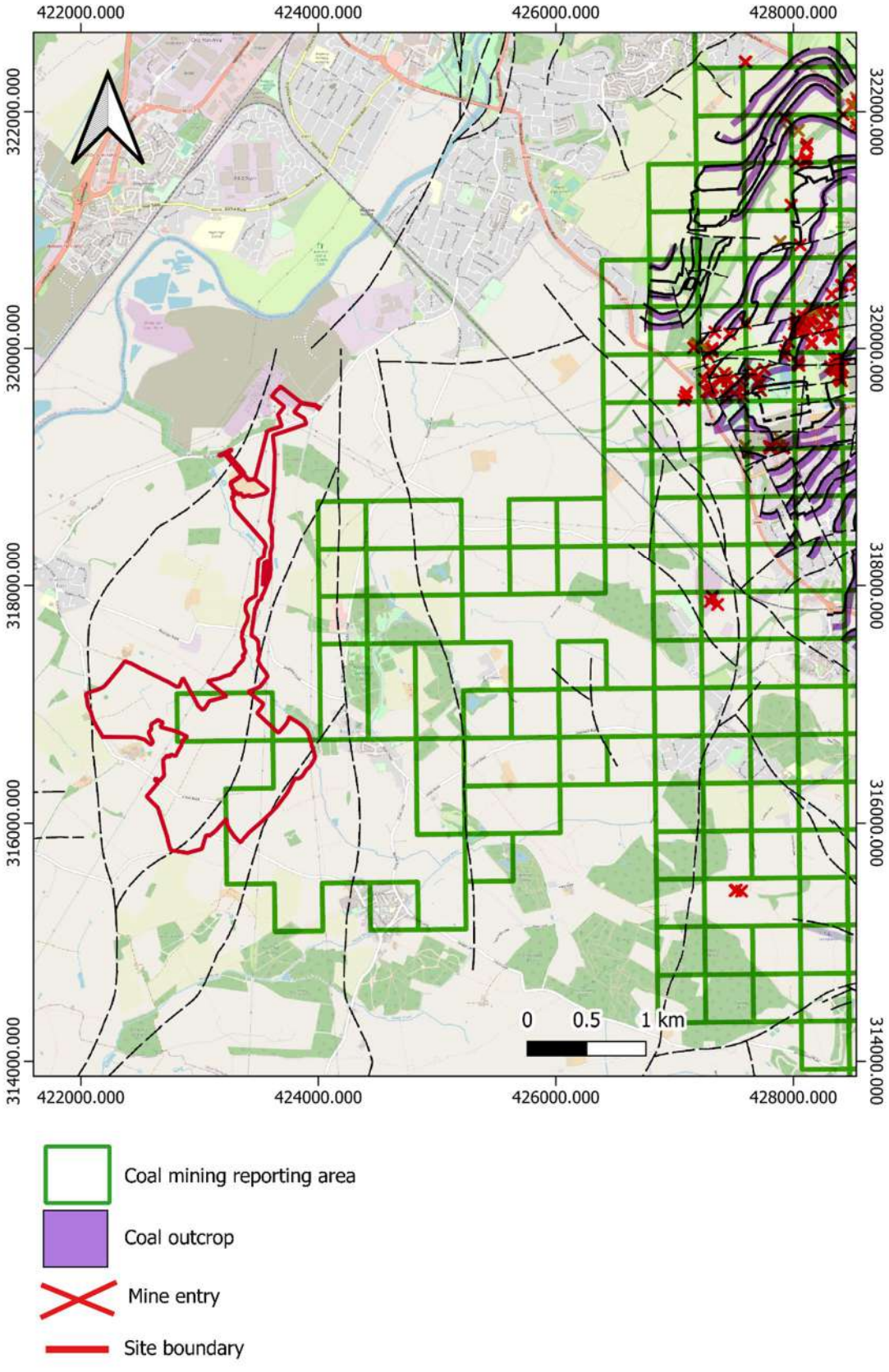
The report notes workings in six seams of coal, at depths ranging from 340m to 630m below ground level (m bgl), last worked in 1986. Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

The Site is not noted to be in an area that could be affected by present underground mining.

The Site is not present in an area where a licence has been applied for, granted, or is under consideration for the underground working of coal. Consequently, the Site is considered as not likely to be affected by planned future underground coal mining. However, reserves of coal are noted to be present beneath the Site, which could be worked at some point in the future.

No notices have been given stating that the Site is at risk of subsidence.

Figure 4-1 Coal Authority mapping showing workings near to the Site



4.2.2 Mine entries

There are no Coal Authority recorded mine entries on Site or within 20m of the boundary.

4.2.3 Coal mining geology

The Coal Authority are not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

4.2.4 Opencast coal mining

The Site is not located in an area of historic or current opencast mining and the site is not located in an area where a licence to extract coal in the future by opencast mining has been requested or granted.

The Site is not in an area that could be affected by present opencast mining.

4.2.5 Coal mining subsidence

The Coal Authority has not received a damage notice or claim within 50m of the enquiry boundary.

There is no current Stop Notice delaying the start of remedial works or repairs and the Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

4.2.6 Mine Gas

The Coal Authority has no record of mine gas emission requiring action.

4.2.7 Hazards related to coal mining

The Site has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures

4.2.8 Withdrawal of support

The Site is in an area where notices to withdraw support were given in 1956 and 1976.

The Site is not in an area where a notice has been given under Section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

4.2.9 Working facilities order

The Site is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

4.3 ASSESSMENT OF DATA

4.3.1 Evidence of Coal Mining Activities

The available information indicates that coal mining has taken place locally beneath the Site. Investigations in the 1970s by the NCB proved that productive coal measures were present at depth beneath the Site, covered by a significant thickness of non-productive Triassic strata (in the order of 330 to 500m). It is likely NCB investigations in the area were looking at the viability of extending underground workings from established mine shafts to the east.

The thickness of overlying non-productive strata is such that the potential for unrecorded mine workings predating the 1970s investigations, or the earlier requirement in the 19th Century to lodge mine abandonment plans, is negligible.

4.3.2 Recorded Mine Entries

No recorded mine entries have been identified at the Site by the Coal Authority. It is reasonable to assume that the workings beneath the Site were accessed via roadways from existing shafts in the Rosliston area, east of the Site.

The presence of unrecorded mine entries is considered to be negligible due to the thickness of the overlying Triassic strata, the depth to the productive coal measures, and the relatively recent confirmation of the presence of workable coal in the mid-20th Century.

4.3.3 Shallow Mine Workings.

Productive Coal Measures are present beneath the Site, however at depths in excess of 330m bgl. Based on the geological sequence, shallow working of coal would not have occurred at the Site.

It should be noted that the historical mapping suggests that localised areas in and around the Site have been used for the surface extraction of marl and gravel. Some features associated with these activities remain visible on Site as surface scarps (e.g. in the south of Oaklands farm).

4.3.4 Stability

Although deep coal mining has occurred beneath the Site, this ceased over 30 years ago. The Coal Authority notes that any movement in the ground associated with these workings should have stopped by now.

There is no evidence to suggest there is any recent mining induced instability at the Site.

4.3.5 Faulting

The BGS mapping shows one east-west trending fault running through Burton upon Trent to the north of Site and another two south-east to north-west trending faults to the east at Swadlincote.

There is no evidence on Site of a scar associated with reactivation of the fault due to mining subsidence.

The Coal Authority is not aware of damage on Site due to the impact of mining on faults or other lines of weakness.

There is no evidence to suggest that recent fault induced instability at the Site has occurred.

4.4 RISK ASSESSMENT

Based on the data in the preceding sections, Table 4-1 summarises the potential risks associated with the coal mining legacy in the context of the proposed development on Site.

Table 4-1 Coal mining risk assessment

Coal mining Issue	Yes	No	Risk assessment
Underground coal mining (recorded at shallow depths)	-	No	Very low risk – see Section 4.3.3
Underground coal mining (probable at shallow depths)	-	No	Very low risk – see Section 4.3.3
Mine entries (shafts and adits)	-	No	Very low risk – see Section 4.3.2

Coal mining Issue	Yes	No	Risk assessment
Coal mining geology (fissures)	-	No	Very low risk – see Section 4.3.5
Record of past mine gas emissions or potential	-	No	There is no evidence of past mine gas emissions or potential mine gas emissions at the Site. This is based on the absence of evidence of extensive coal deposits at shallow depth beneath the site and the absence of mine entries. The proposed development is considered to be at very low risk of being affected by mine gas emissions.
Recorded coal mining surface hazard	-	No	Very low risk – see Section 4.3
Surface mining (opencast workings)	-	No	Very low risk – see Section 4.3

5 Conclusions and next steps

5.1 CONCLUSIONS

5.1.1 Land quality desk study

The Site is located in an agricultural area south of Burton-on-Trent and east of Walton on Trent. However, the existence of historic marl pits, historic infilled reservoir, breaks in slope and shallow bedrock should be given further consideration as the design develops for the Proposed Development.

The potential risks to construction workers future site users are assessed to be of a **VERY LOW** order. A suitable watching brief should be maintained and protocol implemented should unexpected/ unforeseen contamination be encountered. A Site Investigation is also stated as pre-commencement requirement in the draft DCO for areas of potential made ground as discussed below.

Potential risks to controlled waters from land quality are assessed to be of a **LOW** order and other than a CEMP, no special precautions are considered to be warranted to be protective of wider environment.

5.1.2 CMRA

The coal mining risk assessment has resulted in very low potential risks to the proposed development at the Site associated with historic, present or future coal mining activities. Therefore, remediation and/or mitigation is not required.

5.2 NEXT STEPS

The preliminary conceptual site model and desk based preliminary risk assessment presented herein is considered sufficient to support the proposed planning application. However, the following should be considered as part of the proposed development in due course.

5.2.1 CEMP

A CEMP should be implemented to ensure that potential construction phase environmental risks may be managed on Site.

5.2.2 Phase 2 Site Investigation

In order to inform the design of the Proposed Development, a programme of intrusive site investigation will be required. This is a pre-commencement requirement in the draft DCO (Requirement 6). During this process, the site investigation will target potential areas of made ground infill to former pits, reservoirs/ponds and in the area of former buildings at New Barn. Soil sampling, laboratory analysis and a suitable assessment shall then be undertaken in accordance with current best practice in order to ascertain the potential risk posed to ground conditions human health and the wider environment.

6 References

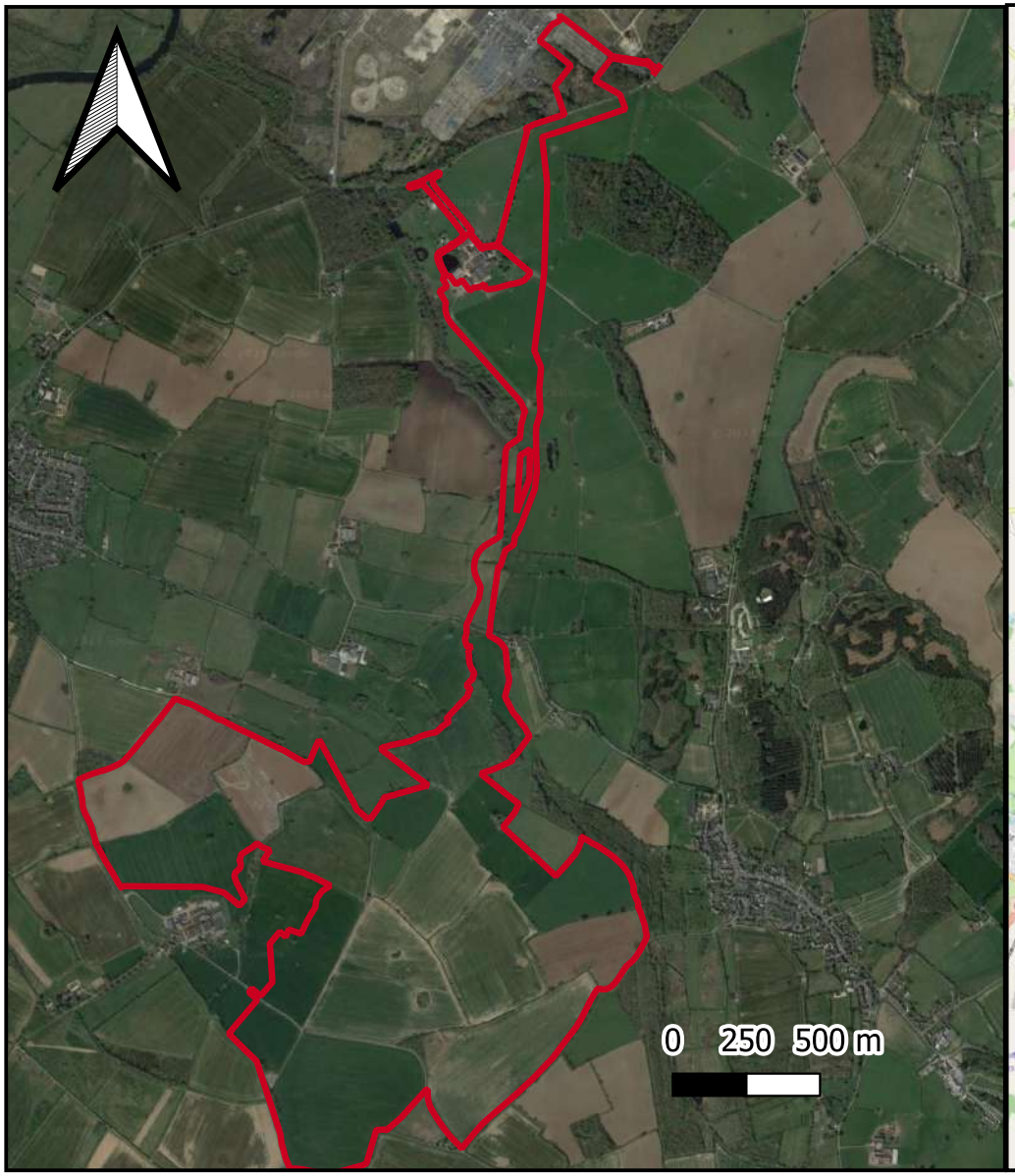
Bisknell **2019**. New power plant in South Derbyshire given the green light. Derby Telegraph. Available at: https://www.derbytelegraph.co.uk/burton/new-power-plant-south-derbyshire-3075240

CIRIA **2001**. *Contaminated land risk assessment: A guide to good practice*. CIRIA document reference C552.

EA **2017a**. *Environment Agency's approach to groundwater protection.* Environment Agency. Version 1.1

EA **2021.** *Land Contamination Risk Management.* Environment Agency, April 2021

Figures



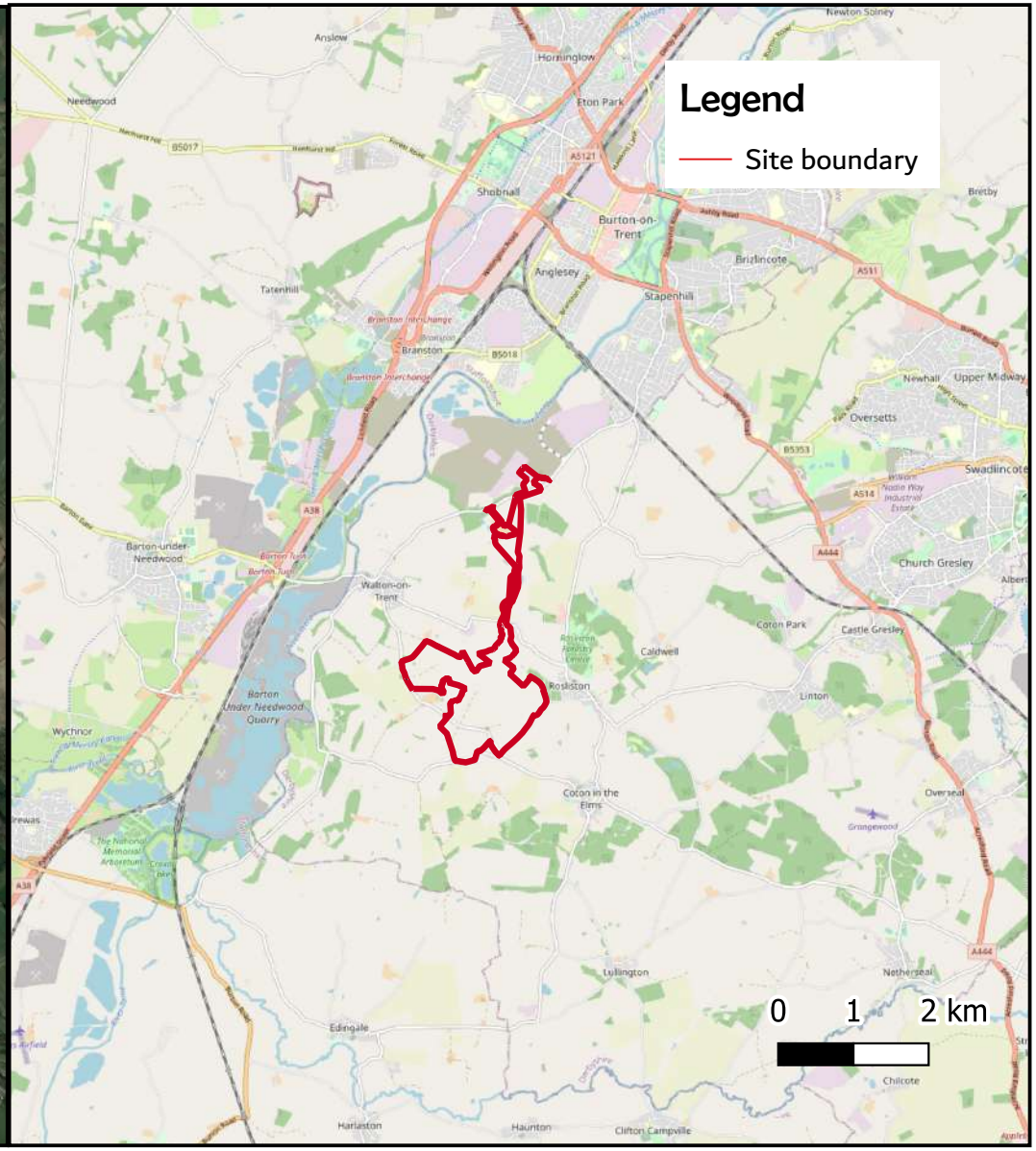


Figure Title

Site location, Oaklands

Client

Oaklands Solar Farm

Drawing Number	Scale	Original
P20209_R1_D01	NTS	A4
Project Number	**Drawn**	**Checked**
P20209	ACW	JEM
Date	**Site Location**	
18/08/2023	Oaklands Solar Farm, Rosliston	

YELLOW SUB GEO

Figure Title

Historic borehole locations, Swandlicote

Client

Oaklands Solar Farm

Drawing Number	Scale	Original
P20209_R1_D02	1:8,000	A4
Project Number	**Drawn**	**Checked**
P20209	ACW	JEM
Date	**Site Location**	
18/08/2023	Oaklands, Swandlicote	

YELLOW SUB GEO

Appendices

Appendix A: Report conditions

Appendix A: Report Conditions

This report has been prepared by Yellow Sub Geo Ltd. (Yellow Sub Geo) in its professional capacity as soil and groundwater specialists, with reasonable skill, care and diligence within the agreed scope and terms of contract and taking account of the manpower and resources devoted to it by agreement with its client, and is provided by Yellow Sub Geo solely for the internal use of its client.

The advice and opinions in this report should be read and relied on only in the context of the report as a whole, taking account of the terms of reference agreed with the client. The findings are based on the information made available to Yellow Sub Geo at the date of the report (and will have been assumed to be correct) and on current UK standards, codes, technology and practices as at that time. They do not purport to include any manner of legal advice or opinion. New information or changes in conditions and regulatory requirements may occur in future, which will change the conclusions presented here.

Where necessary and appropriate, the report represents and relies on published information from third party, publicly and commercially available sources which is used in good faith of its accuracy and efficacy. Yellow Sub Geo cannot accept responsibility for the work of others.

Site investigation results necessarily rely on tests and observations within exploratory holes only. The inherent variation in ground conditions mean that the results may not be representative of ground conditions between exploratory holes. Yellow Sub Geo take no responsibility for variation in ground conditions between exploratory positions.

This report is confidential to the client. The client may submit the report to regulatory bodies, where appropriate. Should the client wish to release this report to any other third party for that party's reliance, Yellow Sub Geo may, by prior written agreement, agree to such release, provided that it is acknowledged that Yellow Sub Geo accepts no responsibility of any nature to any third party to whom this report or any part thereof is made known. Yellow Sub Geo accepts no responsibility for any loss or damage incurred as a result, and the third party does not acquire any rights whatsoever, contractual or otherwise, against Yellow Sub Geo except as expressly agreed with Yellow Sub Geo in writing. Yellow Sub Geo reserves the right to withhold and/ or negotiate the transference of reliance on this report, subject to legal and commercial review.

Appendix B: Photos

Field O5

Field O1

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field O4 looking east

End of access track between Field O12 and O13

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field O4

Coton Road

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Boundary between field O5 and O13

Field O11

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Fields O11 (left)/O12(right)

Filed O11

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Fields O4 (left) and O5 (right)

Field O2

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field O3

Field O1

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field P2

Public footpath running through coppice east of field F3

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Entrance to Oaklands dairy farm and field O15

Field O14

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field O16

Field O17 and O13

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field O15 showing undulating fields in the distance

Boundary between Field O15 and O14 – Oaklands farm in the distance

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Small drain with adjacent culvert to Field F1

Field O24

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field east of O24

Field east of F1

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field east of P2

Field east of P2

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field P3 with Park Farm and Drakelow Power station in the distance

Field P2

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Badger sett in [CONFIDENTIAL INFO REDACTED]

Public access through wooden area

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field P1

Field east of P1

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field east of P2

Eastern boundary next to Field F3 – no evidence of small drainage brook found

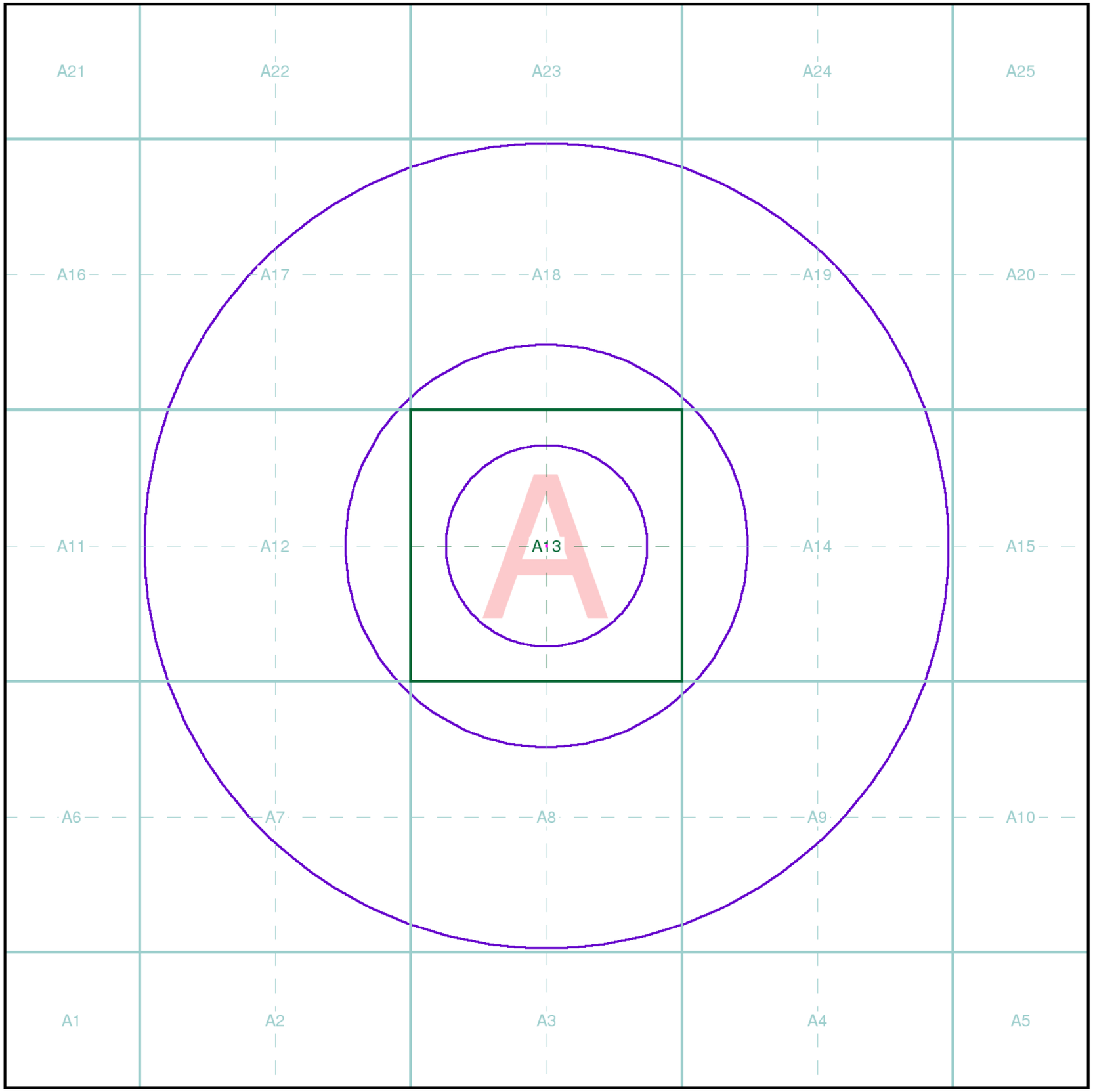
Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Field P2 backing onto Park Farm

Off Site looking north past Park Farm – ponded area delineated by reeds

Project	Oaklands Solar Park, Derbyshire
Project No.	P20209
Client	Oaklands Farm Solar Ltd

Appendix C: Envirocheck Report



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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 A Egan, Yellow Sub Geo Ltd, 7 Neptune Courtt, Vangaurd Way, Cardiff, CF24 5PJ

Order Details

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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http://www.landmarkinfo.co.uk/Terms/Show/515

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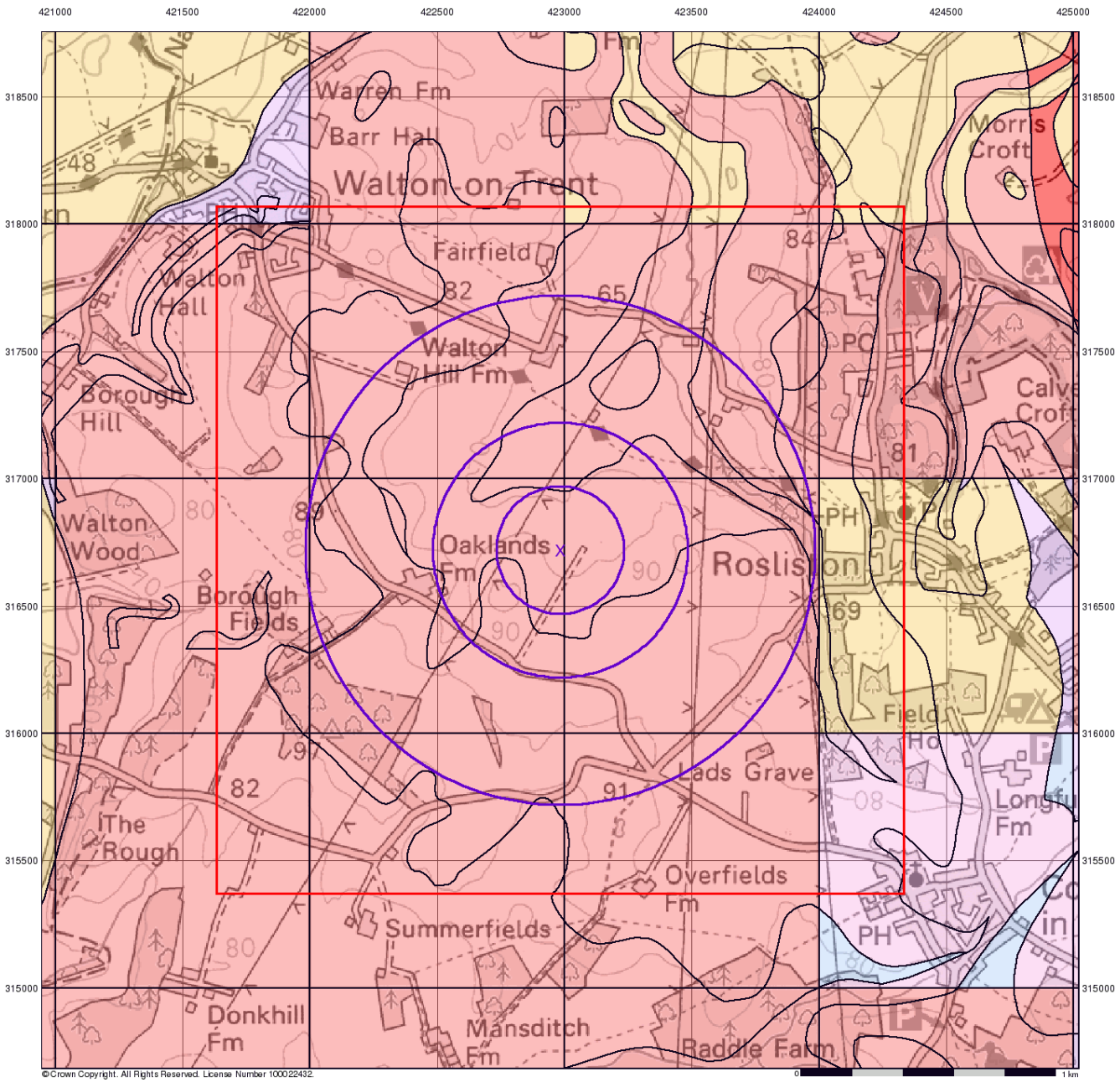

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Groundwater Vulnerability

General

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

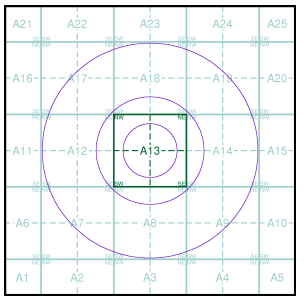
Agency and Hydrological

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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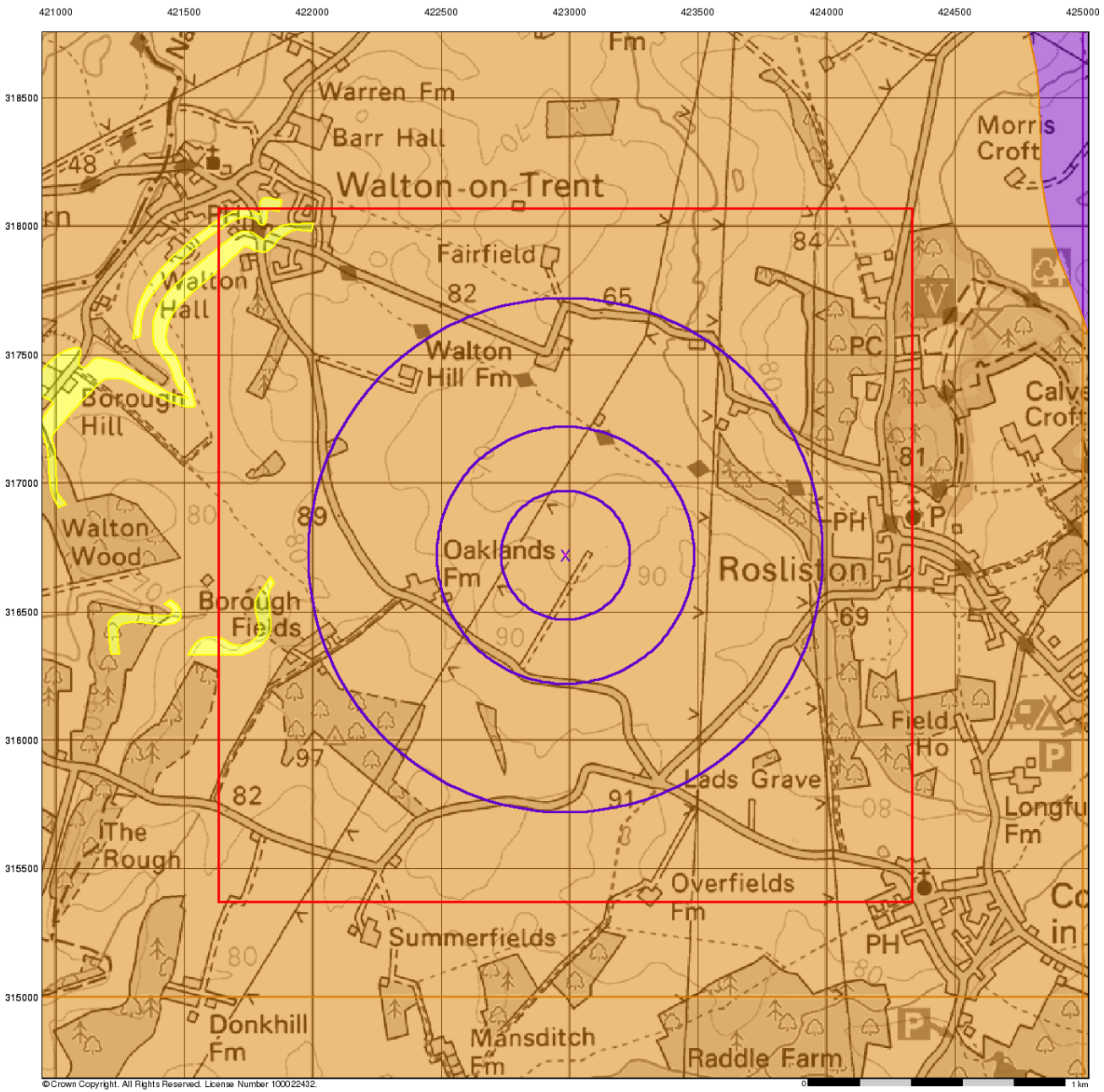

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Bedrock Aquifer Designation

General

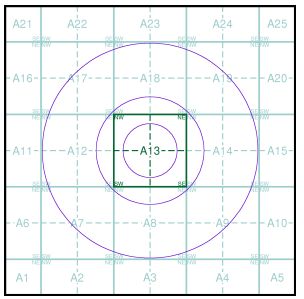
Specified Site | Specified Buffer(s) | Bearing Reference Point
Slice | Map ID

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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Site Area (Ha):	0.01
Search Buffer (m):	1000

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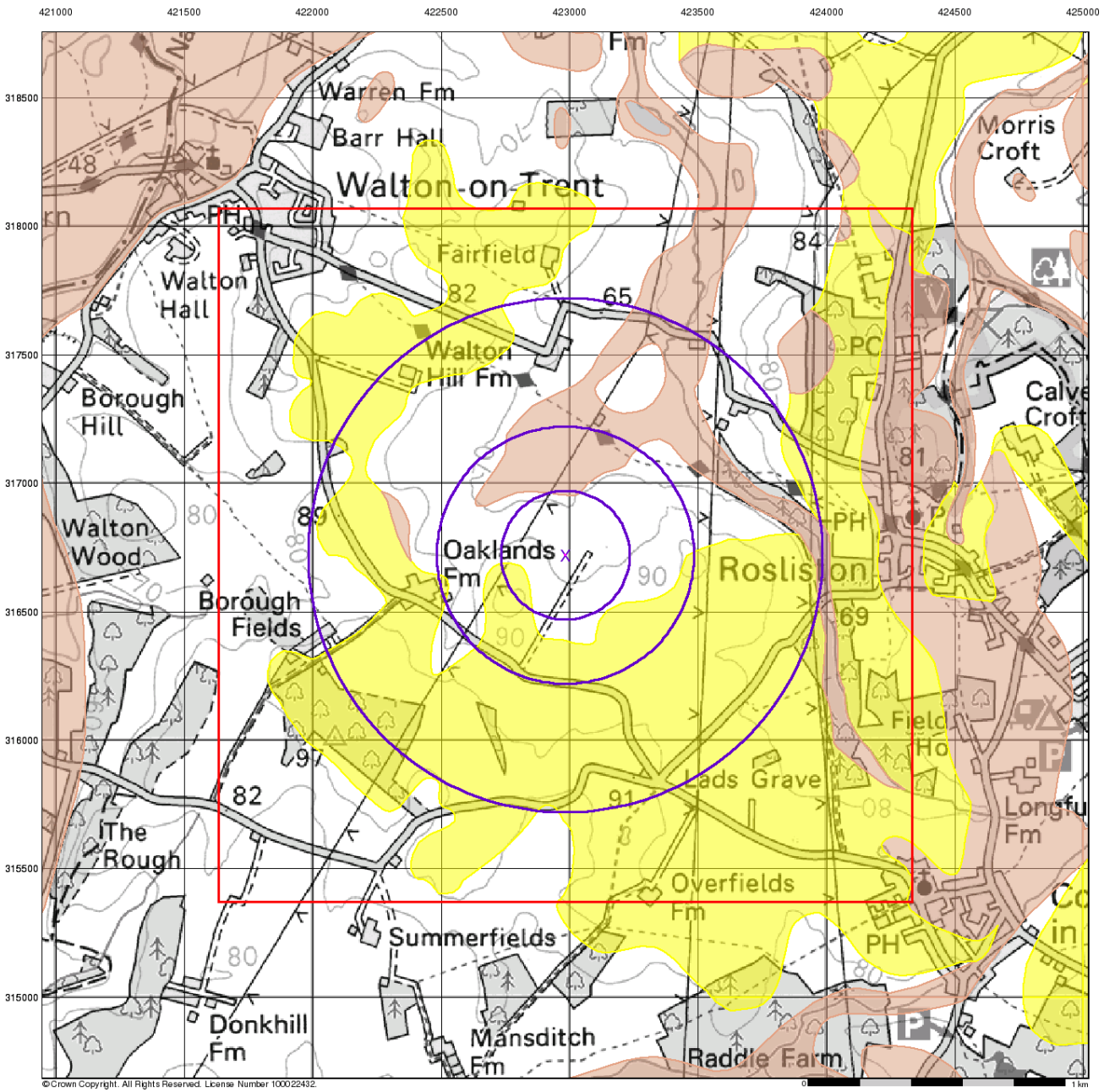

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Superficial Aquifer Designation

General

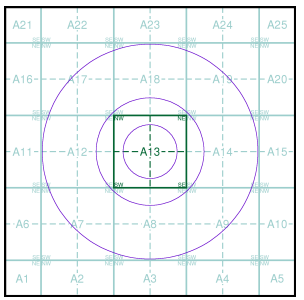
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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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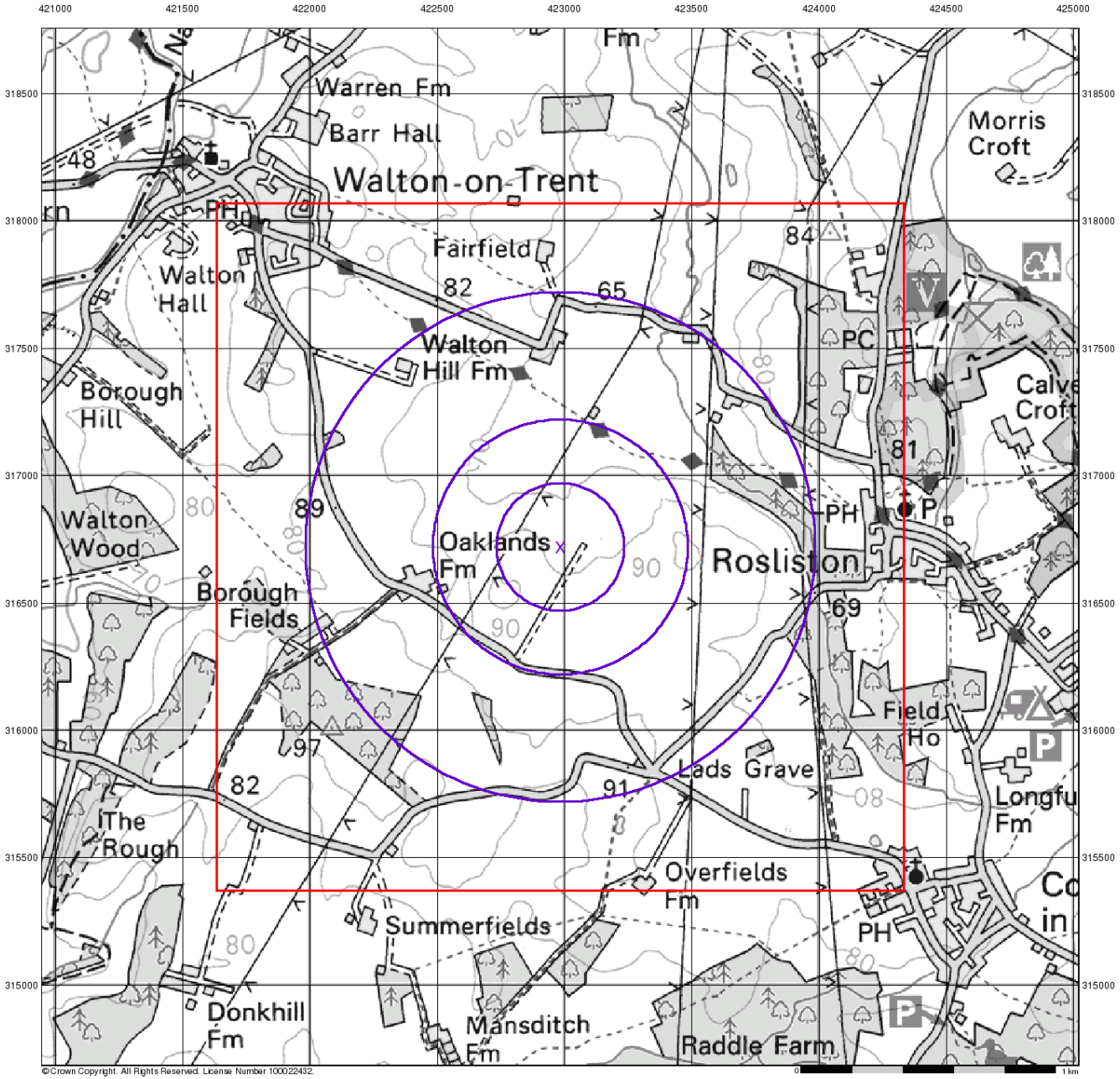

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Source Protection Zones

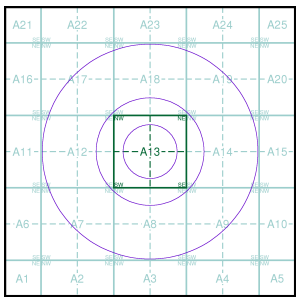
General

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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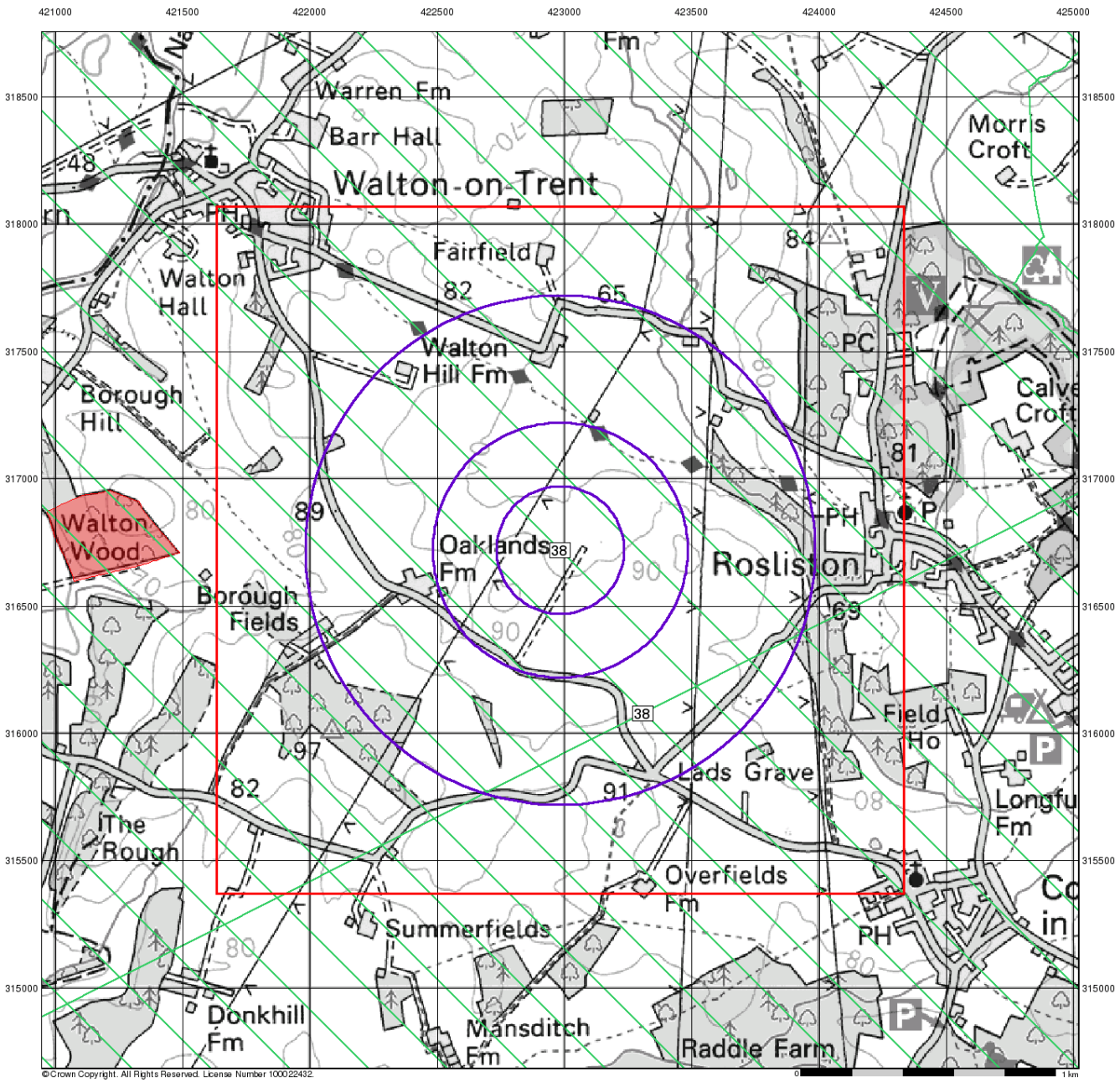

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Sensitive Land Uses

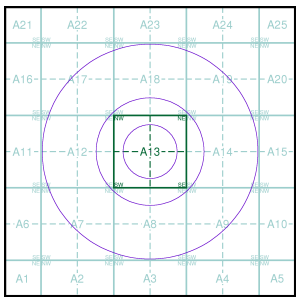
General

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



Order Details

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Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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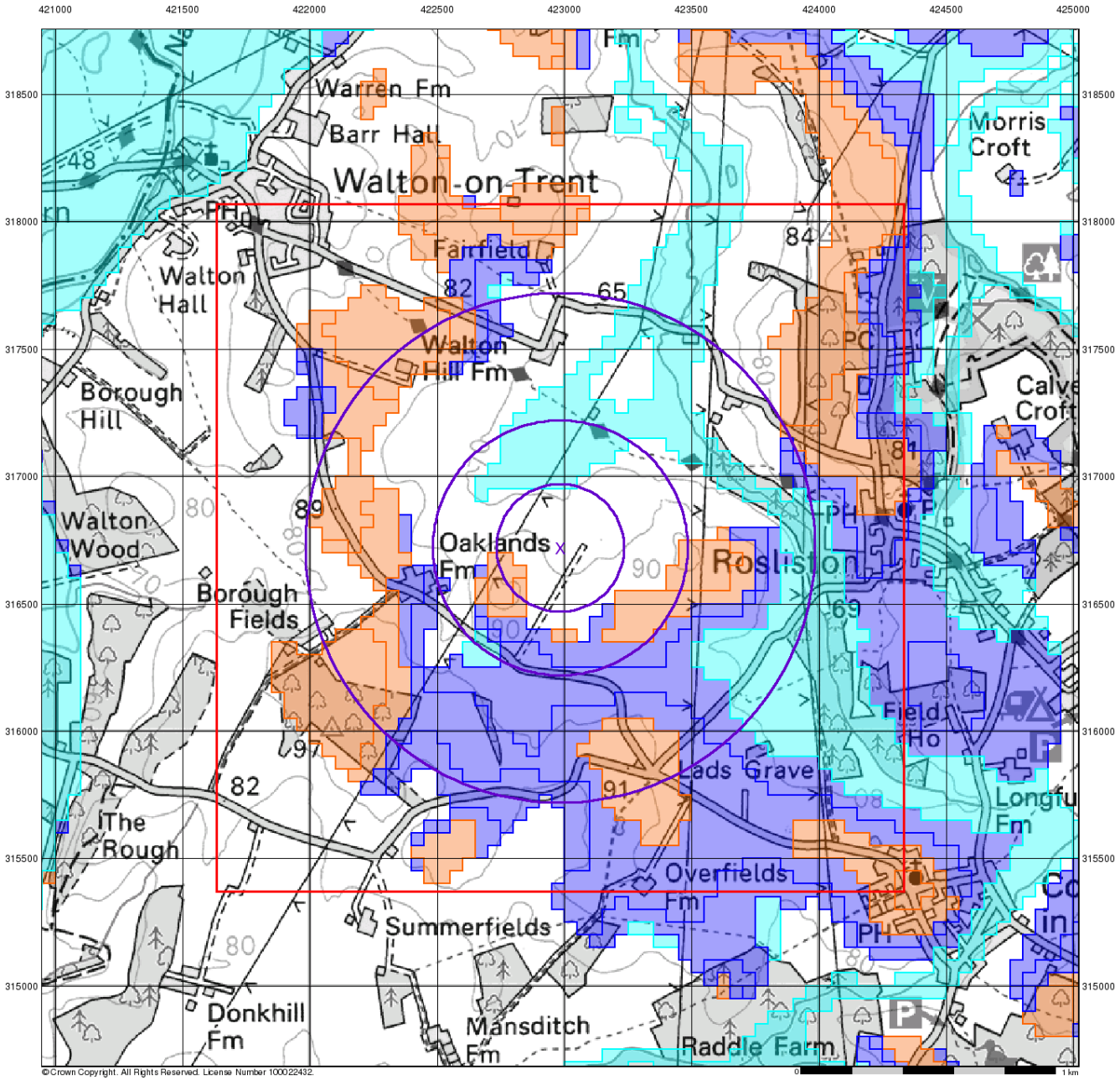

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BGS Flood GFS Data

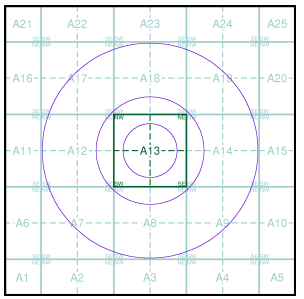
General

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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Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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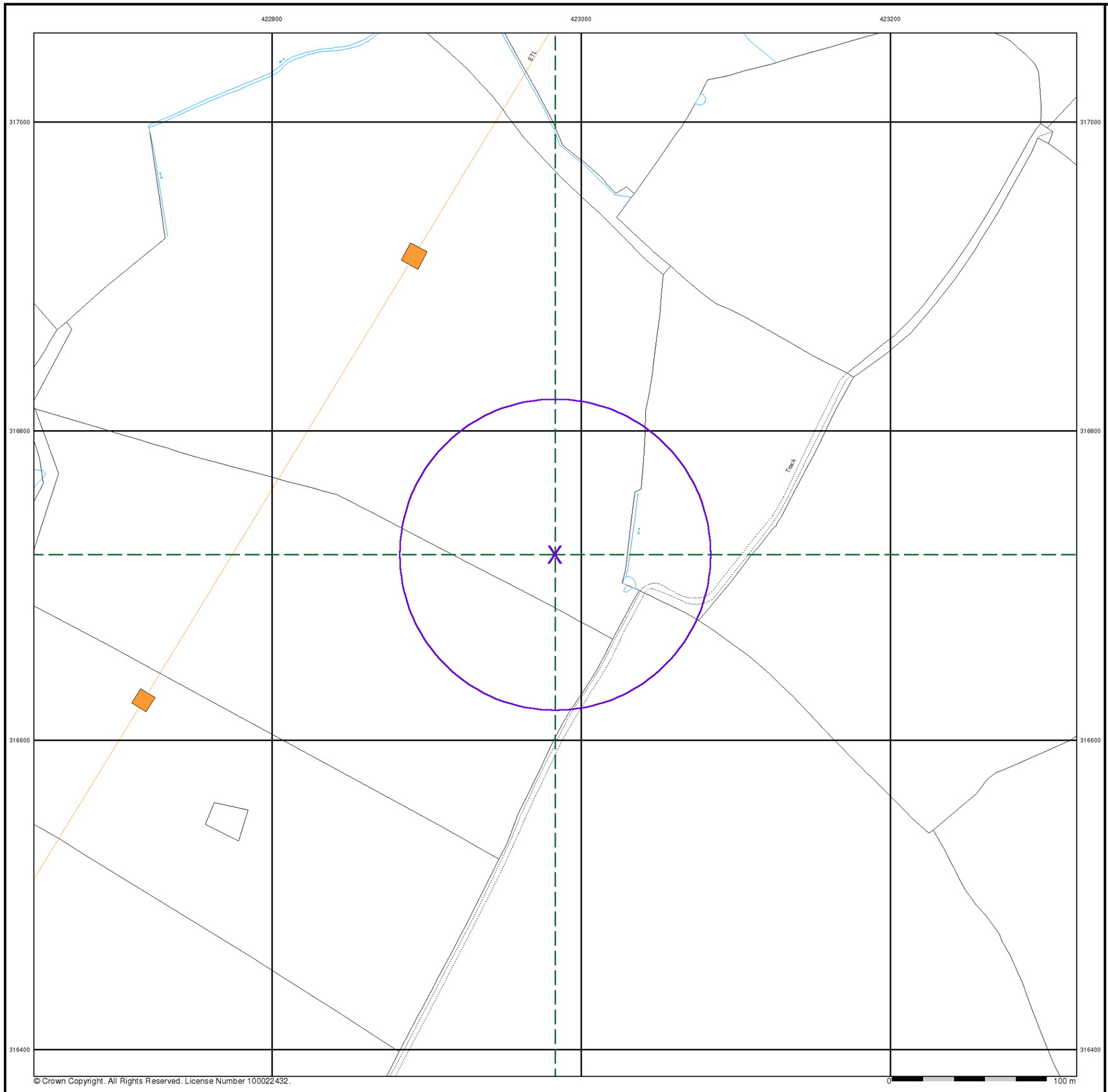

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General

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

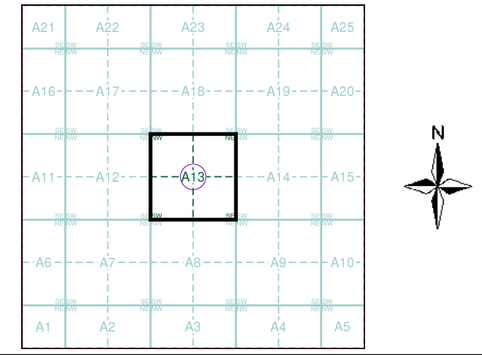
Geological

- 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:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Plot Buffer (m):	100

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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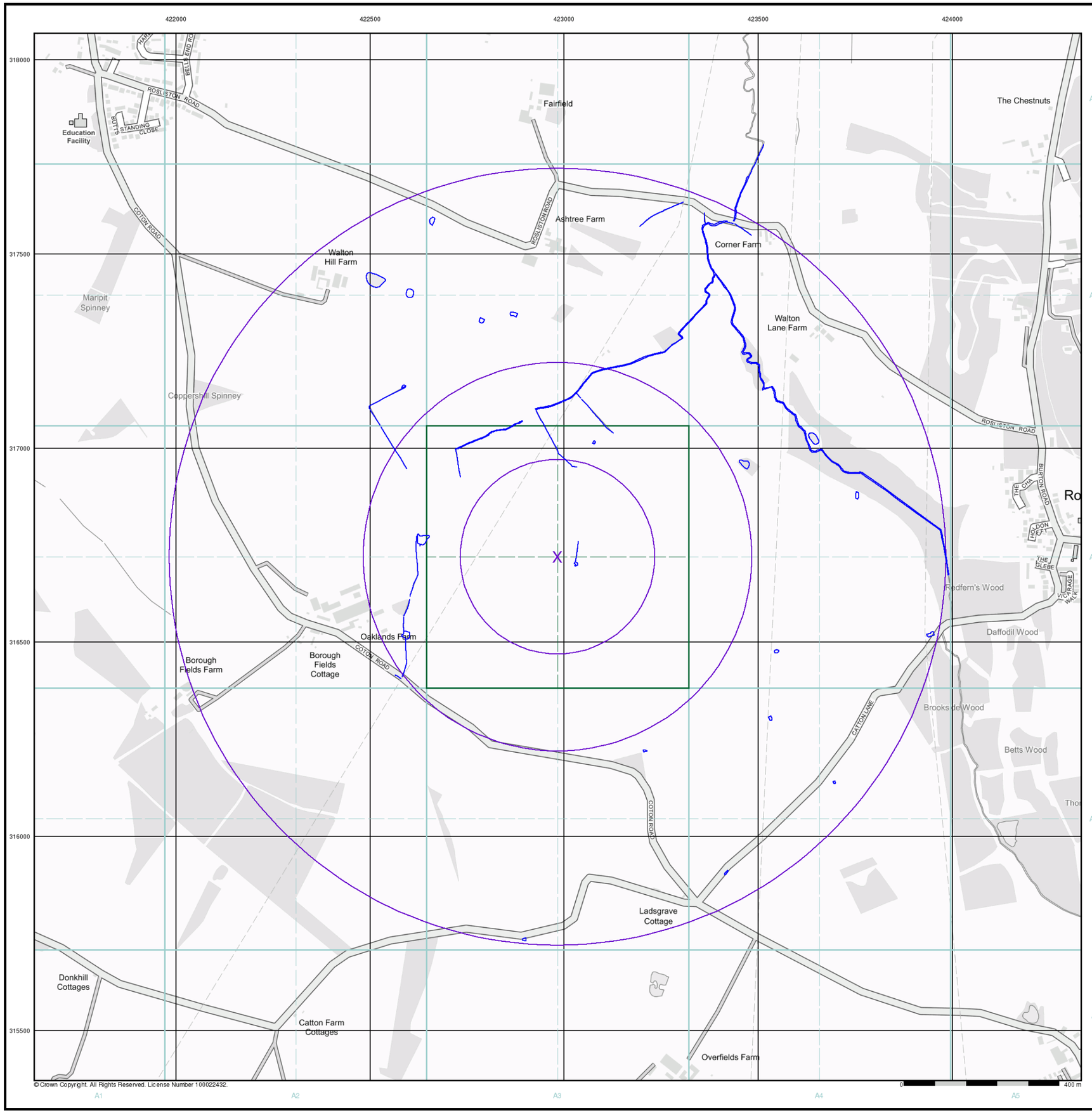

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General

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

Agency and Hydrological

- 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

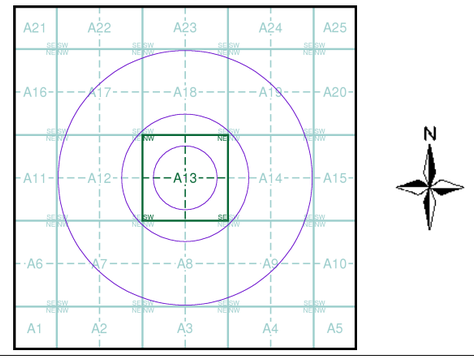
Geological

- 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



Order Details

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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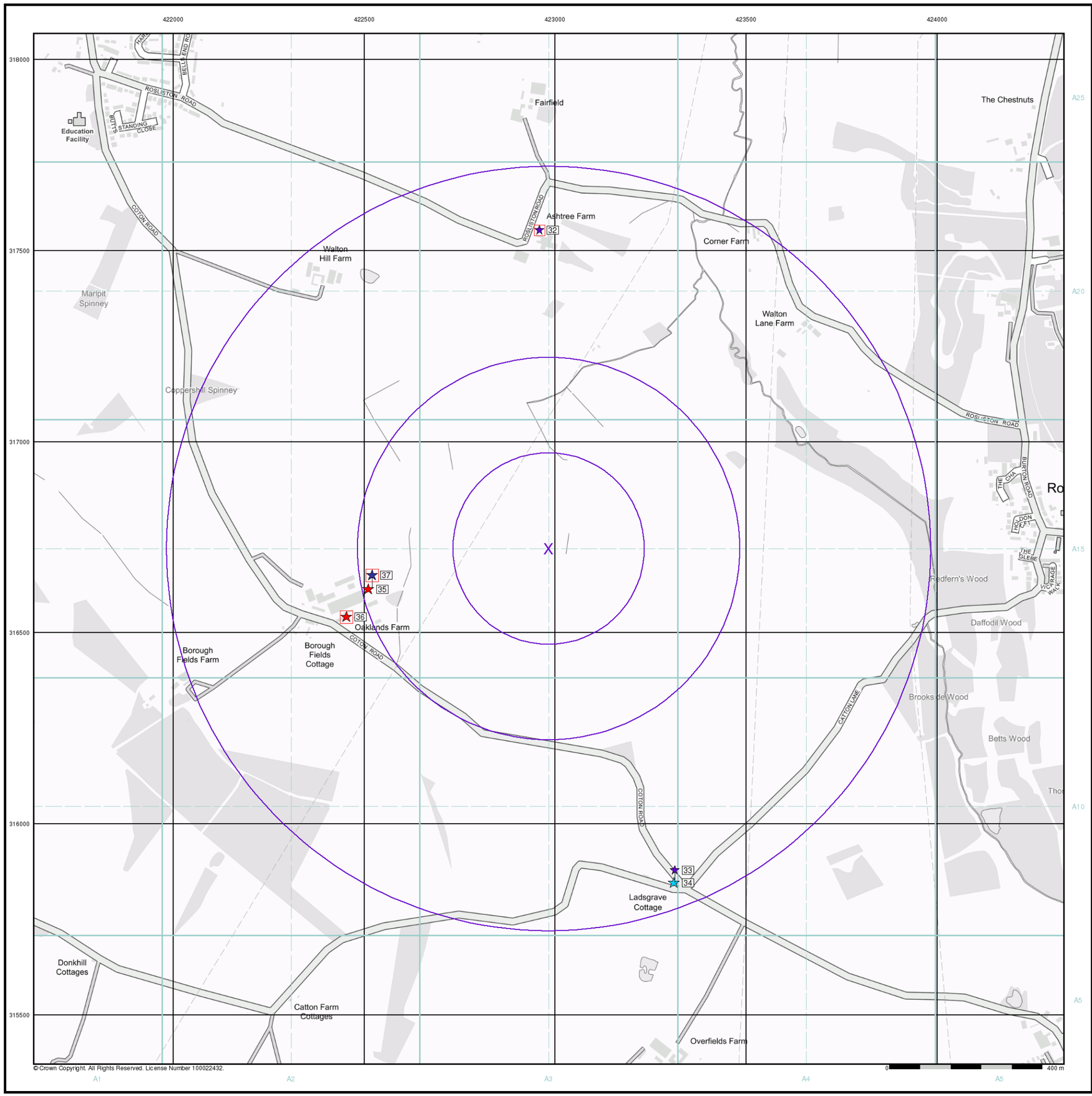

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Industrial Land Use Map

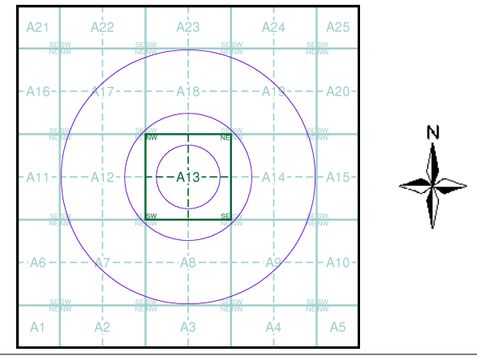
General

- 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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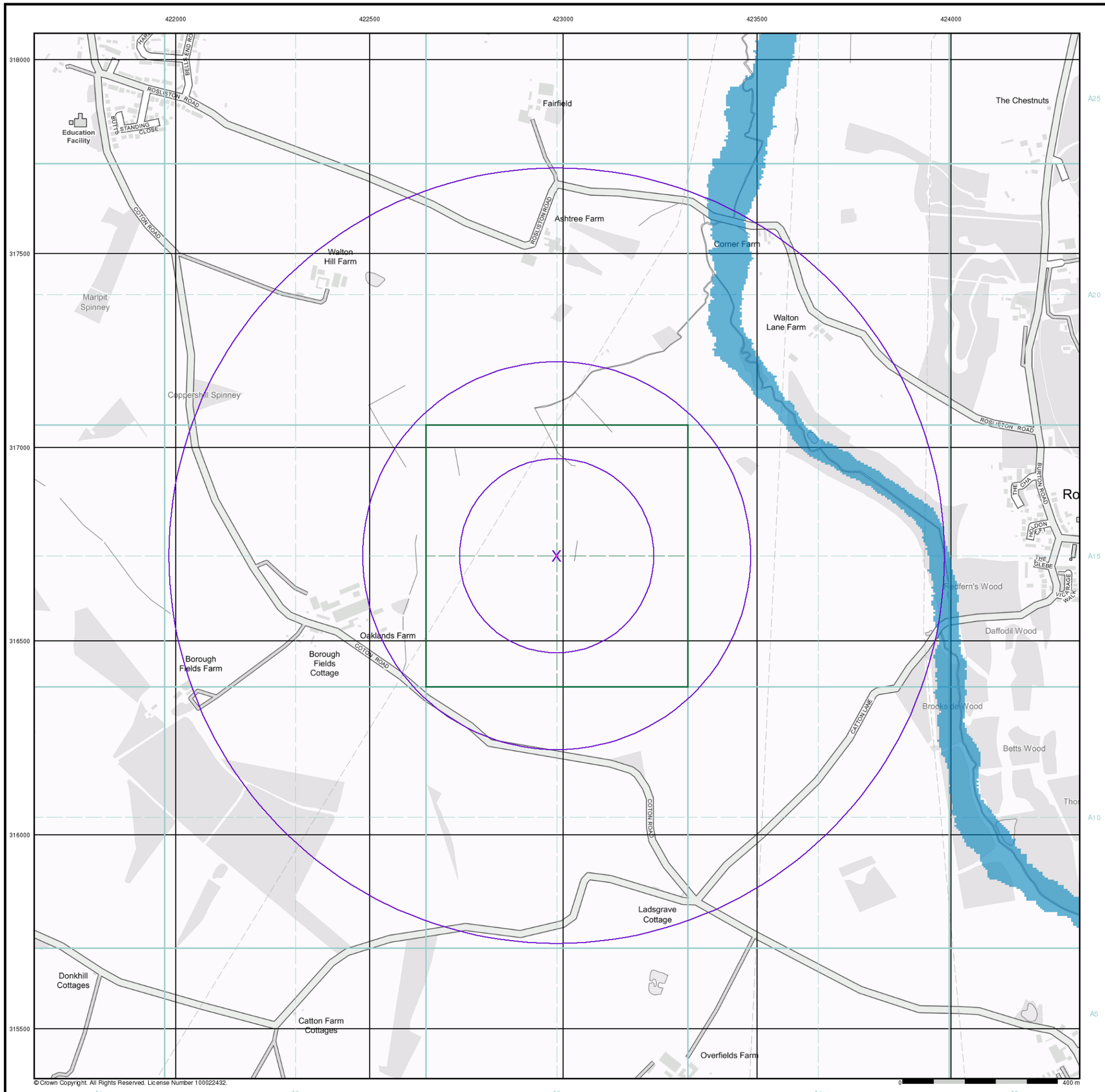

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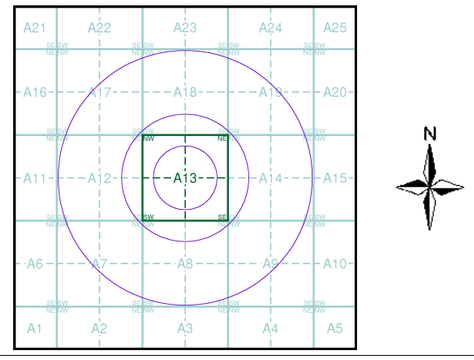
General

- 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



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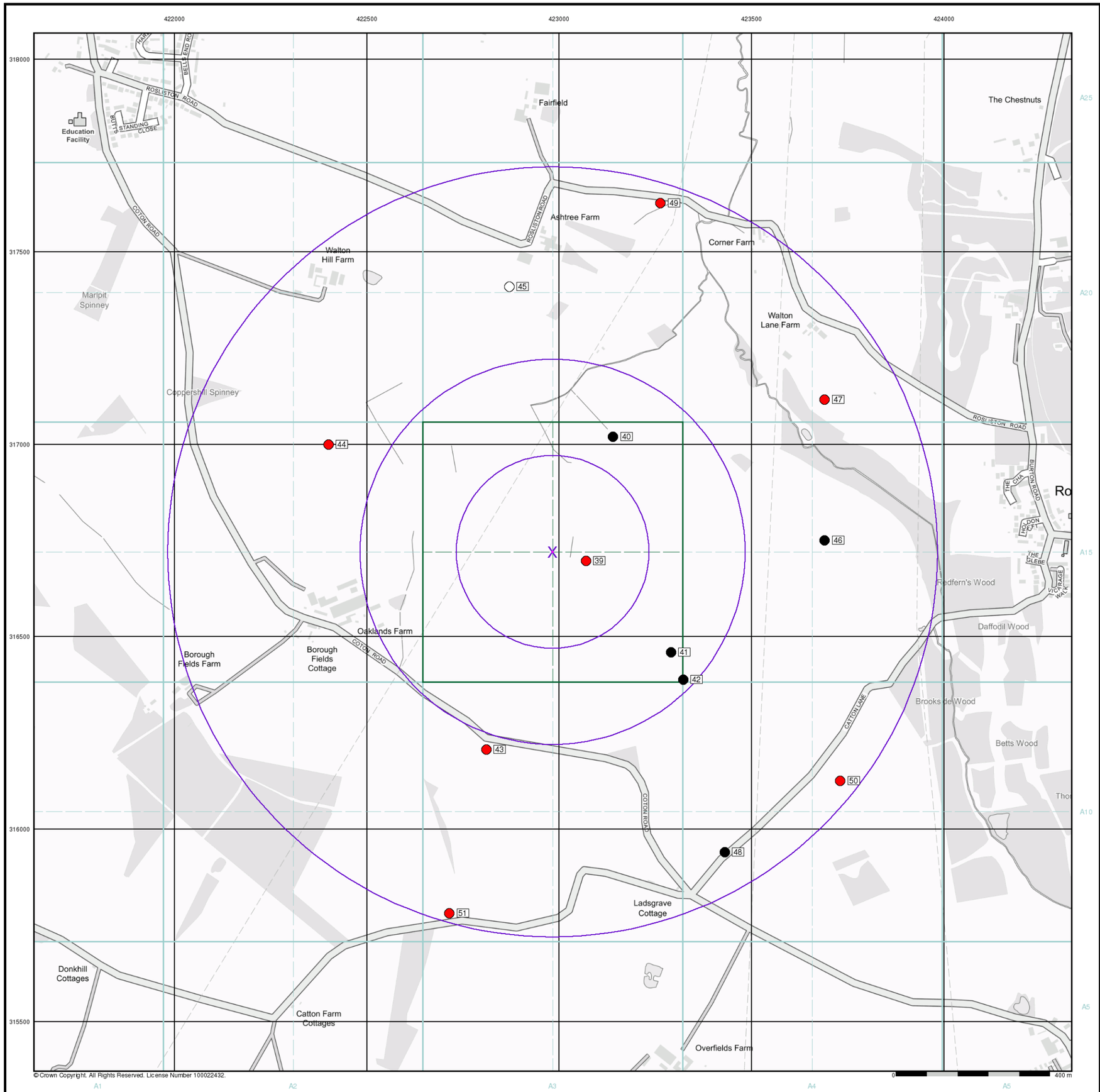

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General

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

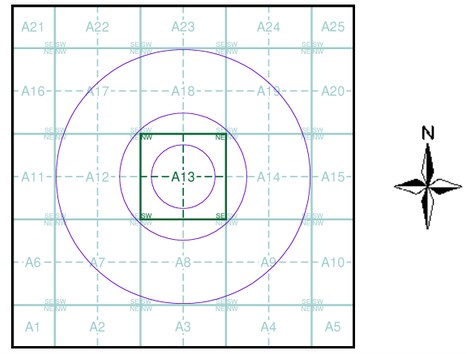
Agency and Hydrological (Boreholes)

- 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



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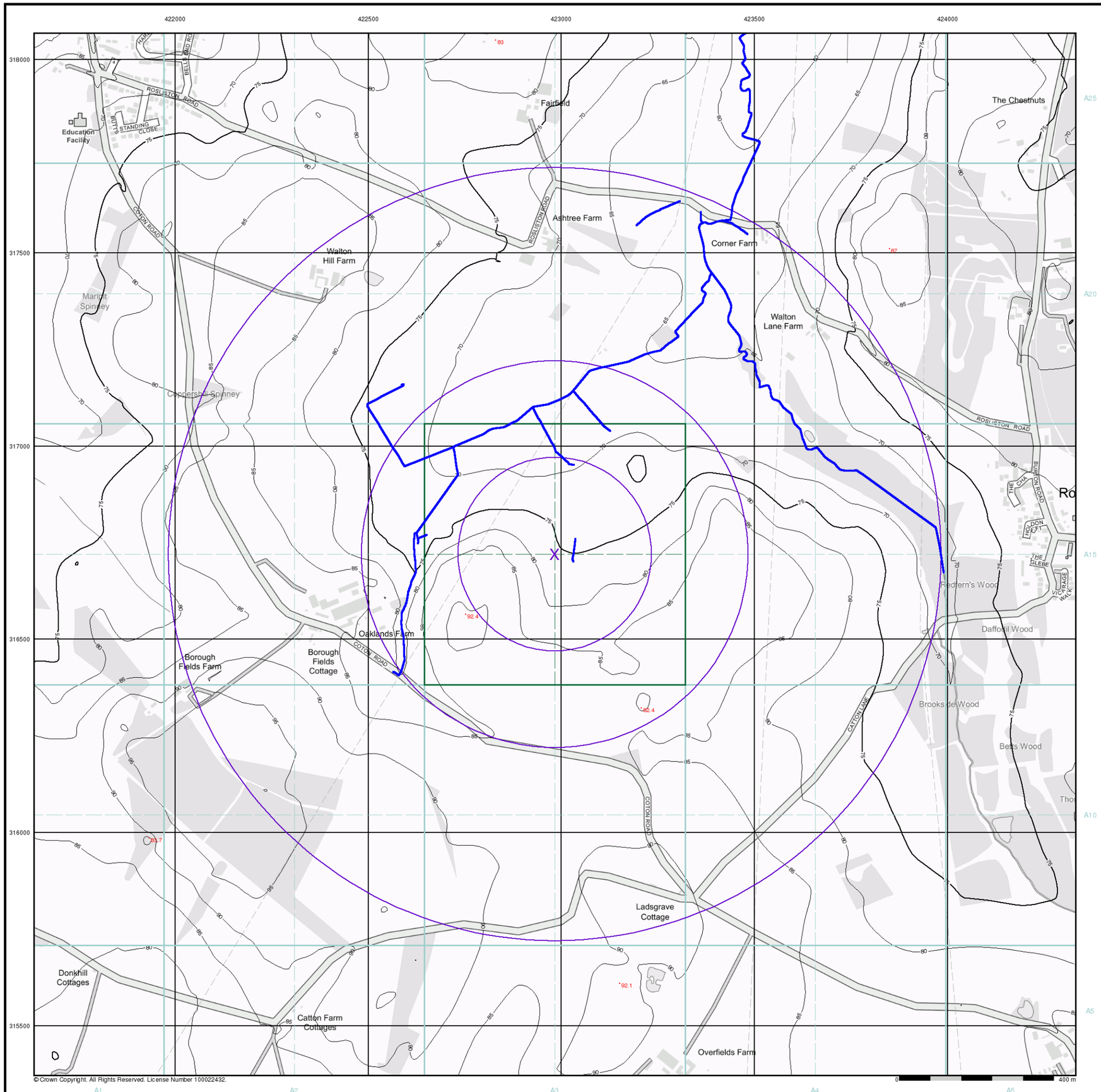

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General

- 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)

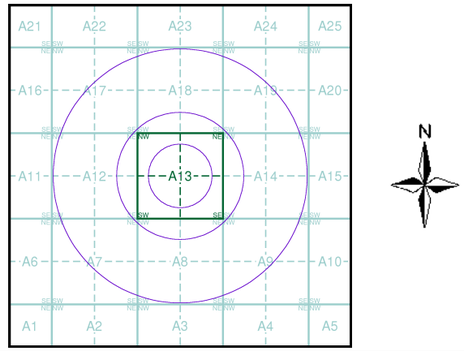
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



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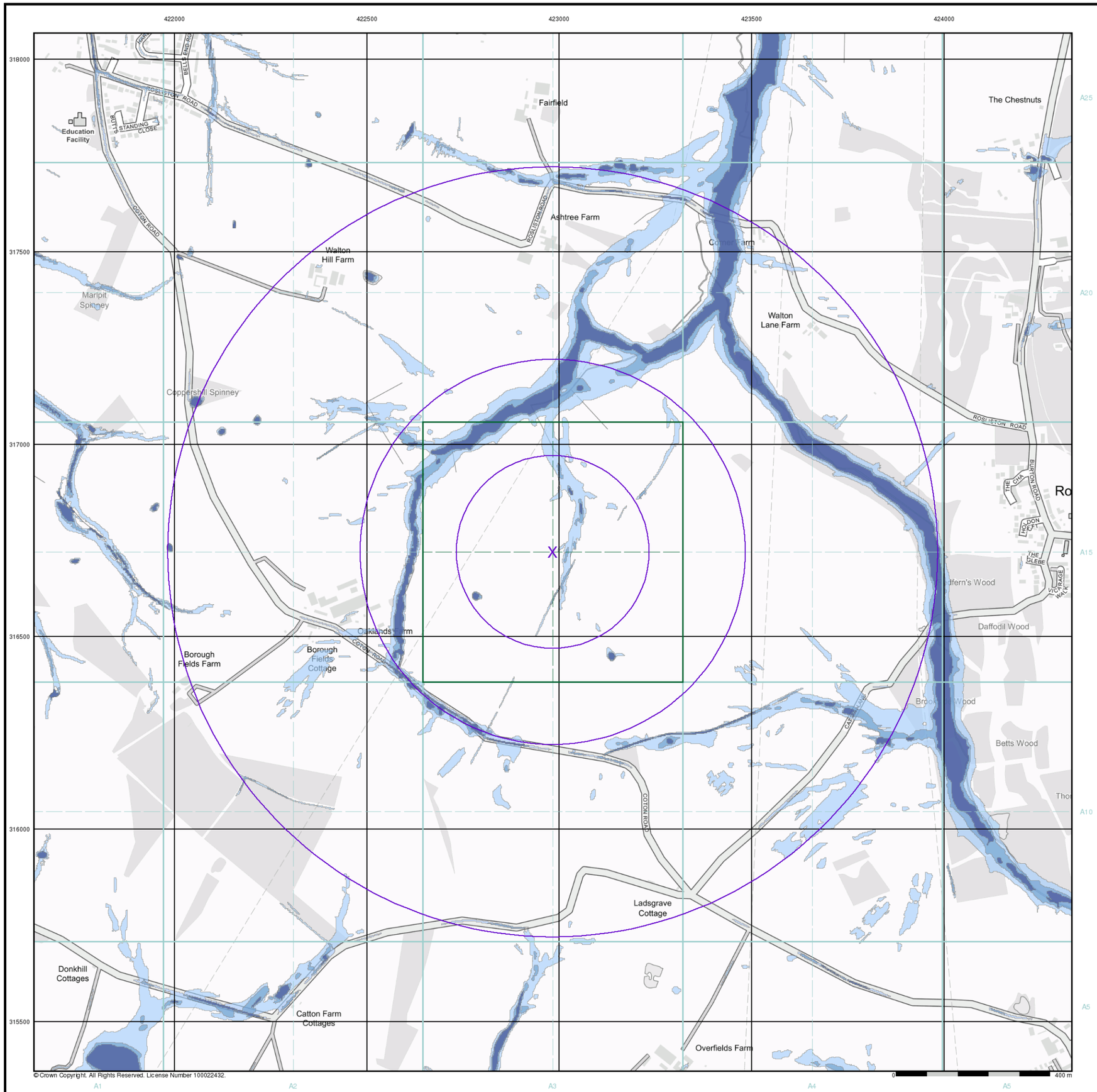

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General

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

Risk of Flooding from Surface Water

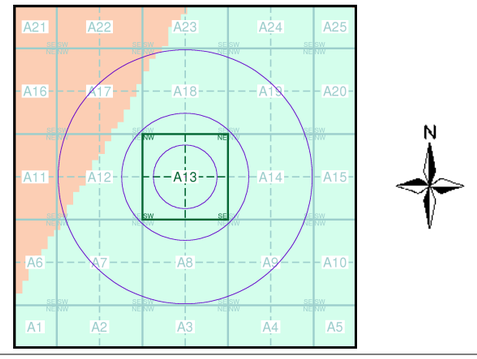
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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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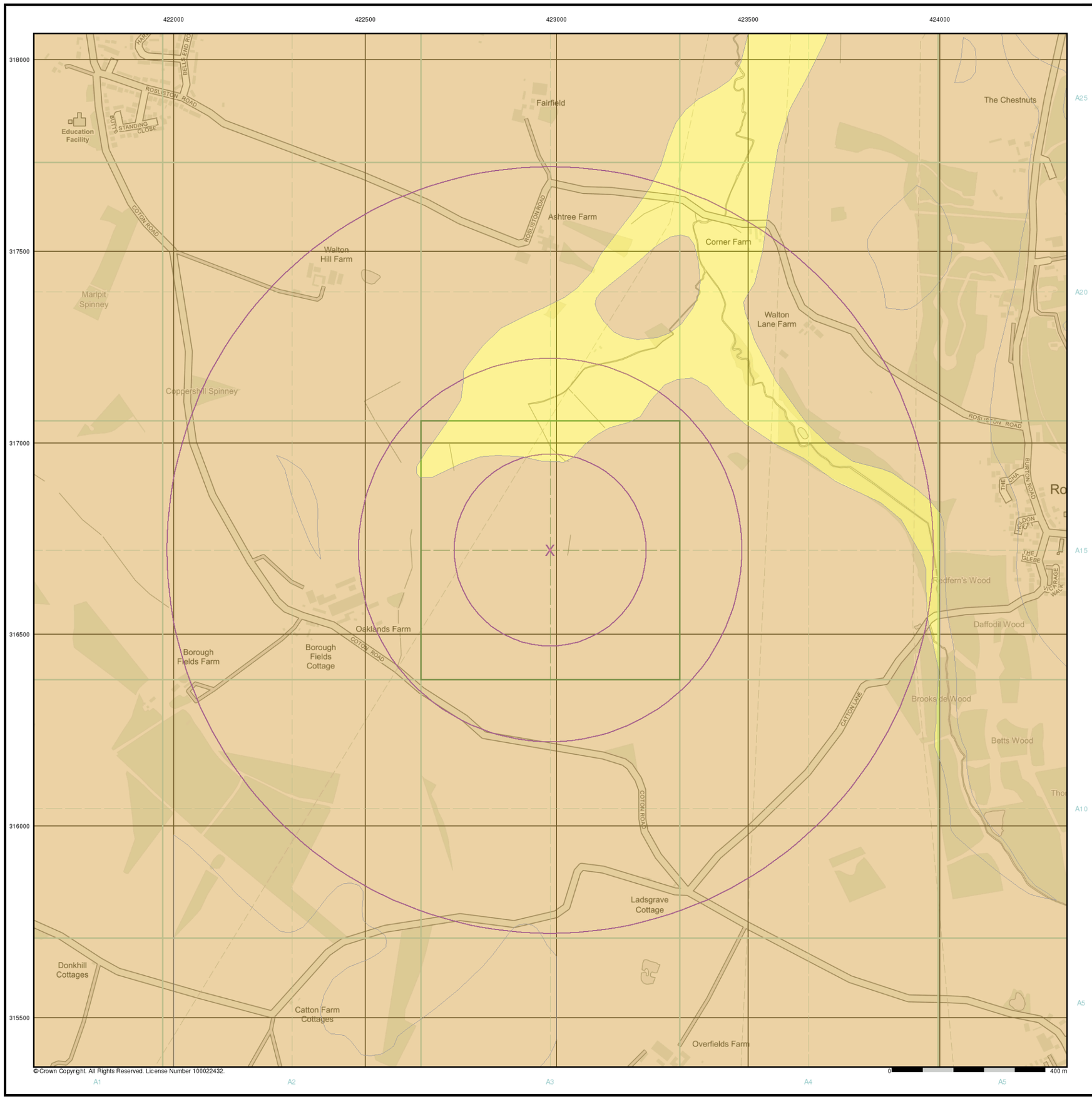

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General

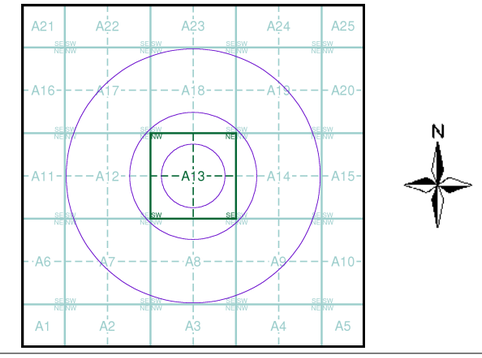
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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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Slice:	A
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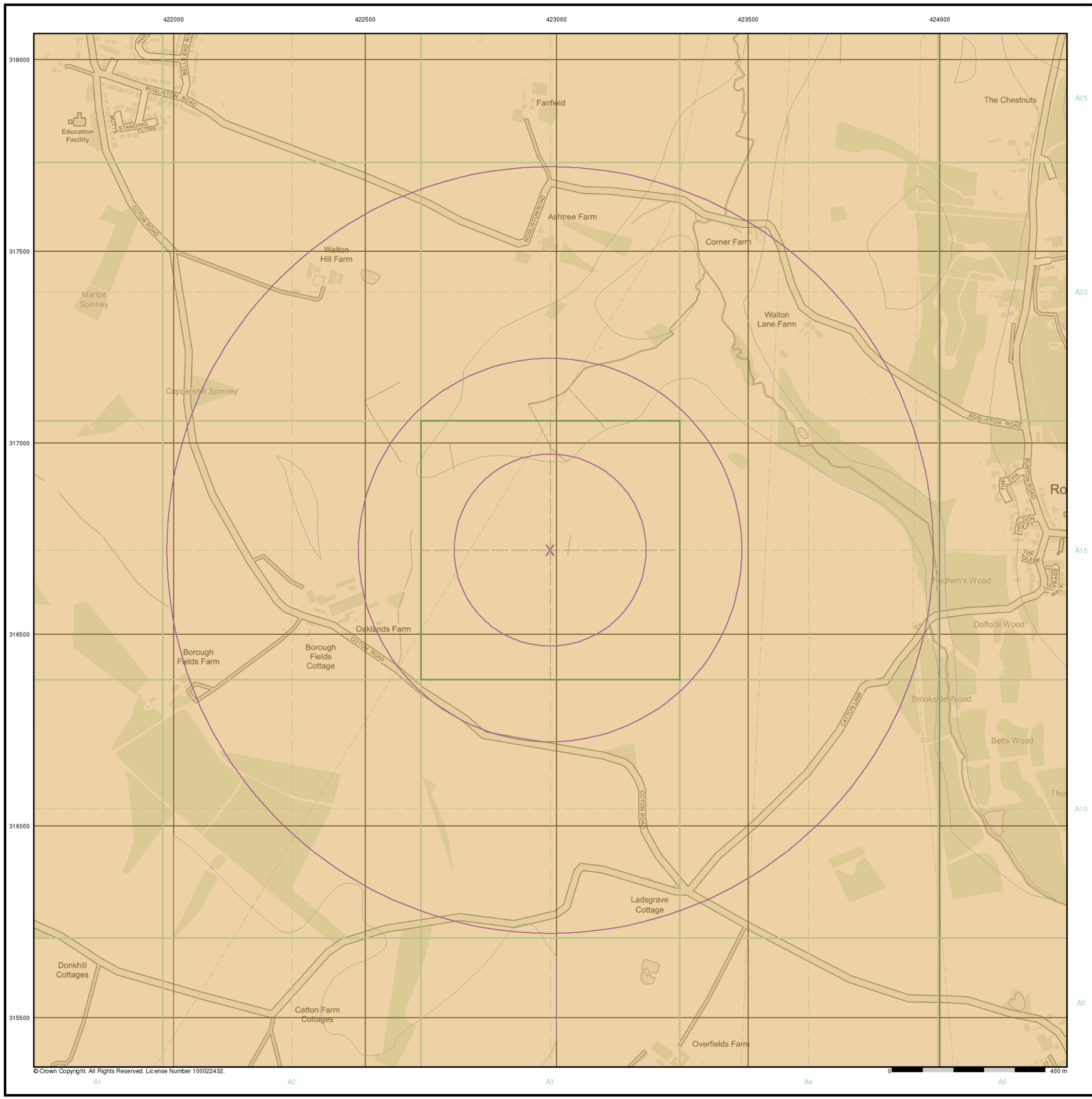

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General

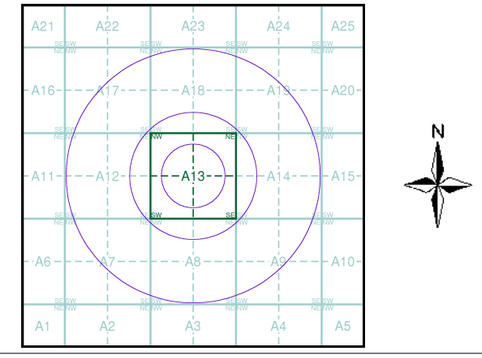
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

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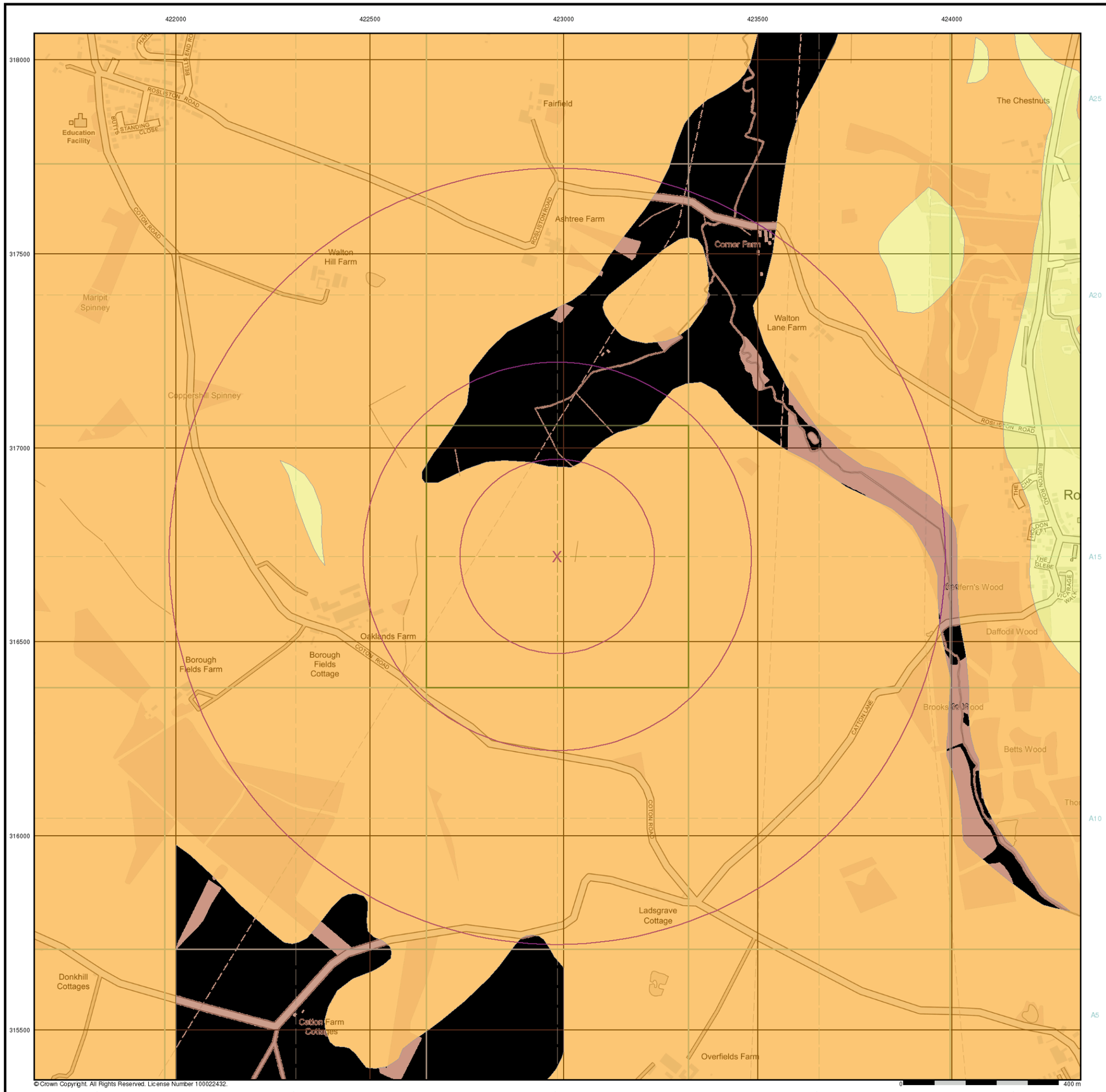

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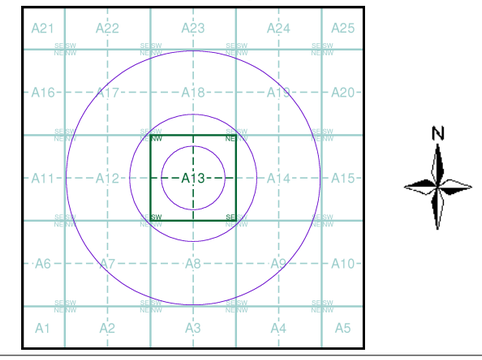
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



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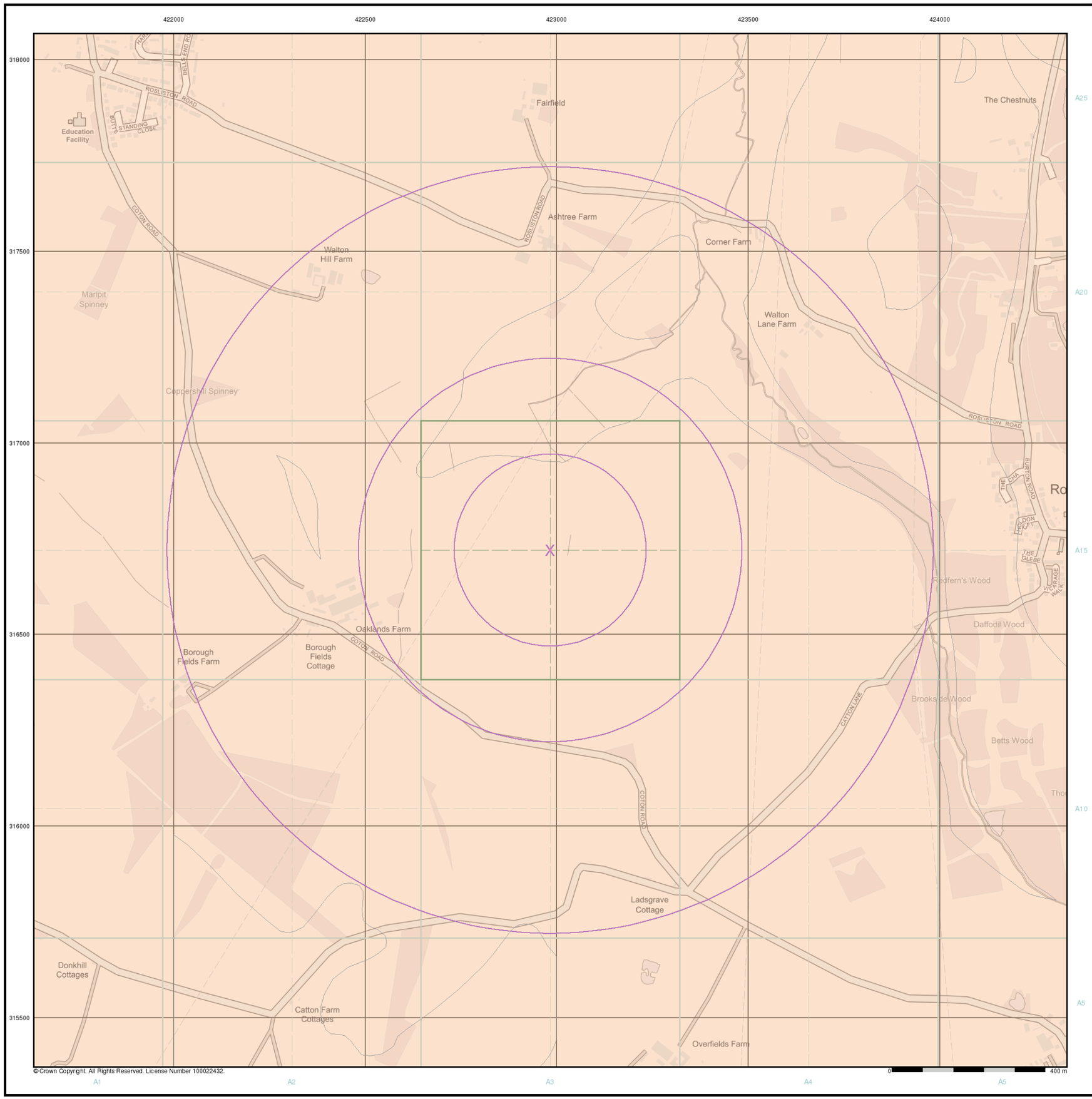

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General

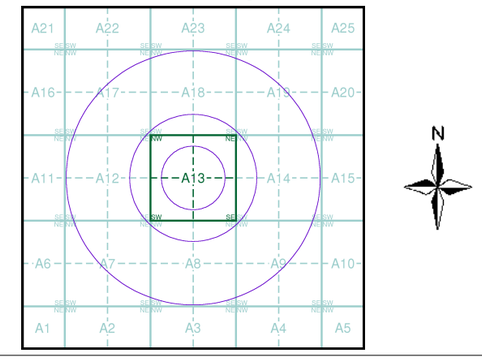
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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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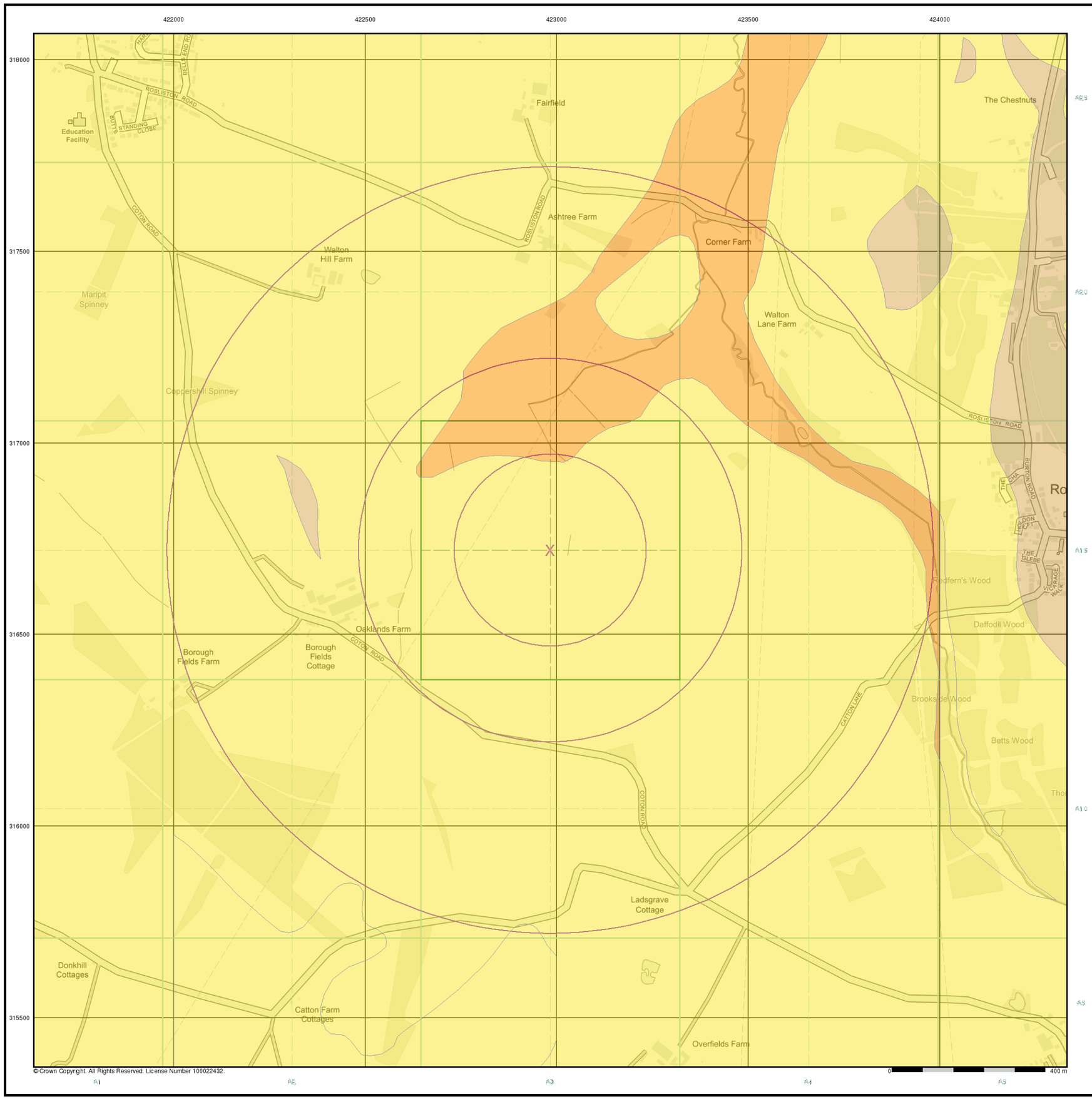

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General

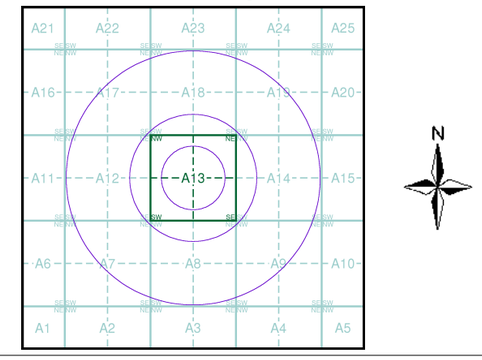
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
279264891_1_1

Customer Reference:
20209 - Oaklands

National Grid Reference:
422980, 316720

Slice:
A

Site Area (Ha):
0.01

Search Buffer (m):
1000

Site Details:

Old Barn Farm, Rosliston Road
Walton-on-Trent
SWADLINCOTE
DE12 8LR

Client Details:

Mr A Egan
Yellow Sub Geo Ltd
7 Neptune Courtt
Vangaurd Way
Cardiff
CF24 5PJ

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Contents

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	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				(*4)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 2	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 2	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 3		3	18	10

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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 7	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Envirocheck®
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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 8	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 8	Yes	Yes		Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 8	Yes	n/a	n/a	n/a
Mining Instability	pg 9	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 9		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 9	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 9		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 9		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 10				4
Fuel Station Entries					
Points of Interest - Commercial Services	pg 10				1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 10			1	2
Points of Interest - Public Infrastructure	pg 10			2	
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 11	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	151	1	422850 316650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	180	1	422850 316600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	230	1	422983 316950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	276	1	423200 316550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	277	1	423150 316500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	292	1	422700 316650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	308	1	422700 316600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	321	1	422983 316400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	359	1	422700 316500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	380	1	422900 316350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	392	1	422700 316450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	397	1	422750 316400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	423	1	423400 316650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	428	1	422700 316400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	450	1	422550 316600
	Nearest Surface Water Feature	A13SE (E)	48	-	423030 316709
	Water Abstractions Operator: S E Avery & Son Licence Number: 03/28/24/0099 Permit Version: 100 Location: Fairfields Farm - Borehole Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fairfields Farm - Borehole Authorised Start: 01 March Authorised End: 30 April Permit Start Date: 15th July 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1172	2	422920 317890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Catton Farms Licence Number: 03/28/24/0021 Permit Version: 100 Location: Catton Hall - Well Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Catton Hall - Well Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th July 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11SW (W)	1384	2	421600 316700
	Water Abstractions Operator: Forestry Commission Licence Number: 03/28/24/01091 Permit Version: Not Supplied Location: Tributary Of River Trent, Roliston Farm Forestry Centre Authority: Environment Agency, Midlands Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Trent Catchment To Confluence With Dove 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	A15NE (E)	1396	2	424350 317000
	Water Abstractions Operator: J H & C J N Williams Licence Number: 03/28/24/0101 Permit Version: 100 Location: River Trent - Unnamed Tributary At Walton Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barr Hall Farm, Walton-On-Trent Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 28th January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1996	2	423230 318700
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: No Data	A13NW (N)	0	3	422983 316720
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NW (N)	0	3	422983 316720
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
1	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SE (E)	48	4	423030 316709
2	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SE (E)	49	4	423029 316706
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NE (N)	237	4	423022 316953
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 184.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (NW)	324	4	422718 316906
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (NW)	325	4	422733 316926
6	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 25.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (W)	336	4	422652 316770
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NE (NE)	350	4	423127 317039
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (N)	354	4	422856 317050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (W)	355	4	422630 316752
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (W)	355	4	422630 316752
11	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (W)	358	4	422628 316760
12	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (W)	361	4	422627 316776
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 254.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12SE (W)	362	4	422622 316699
14	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (W)	363	4	422624 316775
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (NW)	382	4	422720 316997
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (NW)	382	4	422721 316998
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18SW (N)	385	4	422927 317101

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 529.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18SE (N)	424	4	423030 317141
19	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 20.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12SE (SW)	441	4	422587 316528
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 121.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12SE (SW)	446	4	422591 316507
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 296.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (NW)	451	4	422595 316948
22	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 5.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	588	4	422593 317159
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1114.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19SW (NE)	686	4	423515 317153
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	834	4	423389 317448
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NE (N)	877	4	423195 317571
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	938	4	423365 317577

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	938	4	423365 317577
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	967	4	423420 317583
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	967	4	423482 317548
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1162.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	968	4	423419 317583
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	971	4	423436 317578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Derbyshire District Council - Has no landfill data to supply		0	5	422983 316720
	Local Authority Landfill Coverage Name: Derbyshire County Council - Had landfill data but passed it to the relevant environment agency		0	6	422983 316720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NW (N)	0	1	422983 316720
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	0	1	422983 316720
	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: 30 - 45 mg/kg	A13NE (N)	232	1	422995 316951
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	590	1	423173 317278
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12SE (W)	600	1	422384 316697
	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	A8SW (S)	978	1	422919 315745
	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.	A13NW (N)	0	7	422983 316720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (N)	0	-	422983 316720
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	232	1	422995 316951
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	232	1	422995 316951
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	168	1	422833 316645
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	232	1	422995 316951
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	422983 316720
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	168	1	422833 316645
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	232	1	422995 316951
	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	A13NW (N)	0	1	422983 316720
	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	A13NW (N)	0	1	422983 316720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	**Contemporary Trade Directory Entries** Name: Heaton Products Ltd Location: Old Barn Farm, Rosliston Road, Walton-on-Trent, Swadlincote, Derbyshire, DE12 8LR Classification: Builders' Merchants **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NW (N)	806	-	422965 317526
32	**Contemporary Trade Directory Entries** Name: Spotless Cleaning Location: Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, Derbyshire, DE12 8LR Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	806	-	422965 317526
32	**Contemporary Trade Directory Entries** Name: Fabrication Services Location: Old Barn Farm, Rosliston Road, Walton-on-Trent, Swadlincote, Derbyshire, DE12 8LR Classification: Fencing Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NW (N)	834	-	422959 317553
33	**Contemporary Trade Directory Entries** Name: Mccallum Logistics Location: Ladsgrave Cottage, Catton, Swadlincote, Derbyshire, DE12 8LW Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A8SE (S)	933	-	423313 315848
34	**Points of Interest - Commercial Services** Name: McCallum Logistics Location: Ladsgrave Cottage, Catton, Swadlincote, DE12 8LW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	935	8	423311 315845
35	**Points of Interest - Manufacturing and Production** Name: Pit Location: DE12 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	484	8	422511 316614
36	**Points of Interest - Manufacturing and Production** Name: G L White Location: Coton Road, Walton-on-Trent, Swadlincote, DE12 8LP Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12SE (W)	560	8	422453 316541
36	**Points of Interest - Manufacturing and Production** Name: Tank Location: DE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	560	8	422436 316604
37	**Points of Interest - Public Infrastructure** Name: Slurry Pit Location: DE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	474	8	422521 316617
37	**Points of Interest - Public Infrastructure** Name: Slurry Location: DE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	486	8	422508 316621

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	**Nitrate Vulnerable Zones** Name: River Trent (Source To Confluence With Derwent) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (N)	0	3	422983 316720

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Lichfield District Council - Pollution Control	April 2014	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	January 2015	Annual Rolling Update
Environment Agency - Head Office	June 2020	Annually
East Staffordshire Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
North West Leicestershire District Council - Environmental Protection Department	September 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	April 2021	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	April 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
South Derbyshire District Council - Environmental Health Department	January 2015	Variable
North West Leicestershire District Council - Environmental Health Department	July 2014	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
East Staffordshire Borough Council - Environmental Health Department	October 2014	Variable
Local Authority Pollution Prevention and Controls		
South Derbyshire District Council - Environmental Health Department	January 2015	Annual Rolling Update
North West Leicestershire District Council - Environmental Health Department	July 2014	Annual Rolling Update
Lichfield District Council - Environmental Health Department	March 2014	Annual Rolling Update
East Staffordshire Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
East Staffordshire Borough Council - Environmental Health Department	January 2013	Variable
South Derbyshire District Council - Environmental Health Department	January 2015	Variable
North West Leicestershire District Council - Environmental Health Department	July 2014	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	January 2021	
Pollution Incidents to Controlled Waters		
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	
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 - Central Area	January 2021	Quarterly
Environment Agency - Midlands Region - East Area	January 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	January 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	January 2021	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	January 2021	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
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	March 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	September 2020	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	May 2021	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 - Central Area	April 2021	Quarterly
Environment Agency - Midlands Region - East Area	April 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	April 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - Central Area	April 2021	Quarterly
Environment Agency - Midlands Region - East Area	April 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	April 2021	Quarterly
Local Authority Landfill Coverage		
Derbyshire County Council	May 2000	Not Applicable
East Staffordshire Borough Council - Environmental Health Department	May 2000	Not Applicable
Leicestershire County Council	May 2000	Not Applicable
Lichfield District Council	May 2000	Not Applicable
North West Leicestershire District Council - Environmental Health Department	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Staffordshire County Council - Waste Management	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
East Staffordshire Borough Council - Environmental Health Department	March 2004	Not Applicable
Derbyshire County Council	May 2000	Not Applicable
Leicestershire County Council	May 2000	Not Applicable
Lichfield District Council	May 2000	Not Applicable
North West Leicestershire District Council - Environmental Health Department	May 2000	Not Applicable
South Derbyshire District Council	May 2000	Not Applicable
Staffordshire County Council - Waste Management	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 - Central Area	March 2003	Not Applicable
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Upper Trent Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Central Area	March 2003	Not Applicable
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Upper Trent Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Central Area	March 2003	Not Applicable
Environment Agency - Midlands Region - East Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2003	Not Applicable
Environment Agency - Midlands Region - Upper 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		
Derbyshire County Council	February 2016	Variable
East Staffordshire Borough Council - Planning Department	February 2016	Variable
Leicestershire County Council	February 2016	Variable
Lichfield District Council - Planning Department	February 2016	Variable
North West Leicestershire District Council	February 2016	Variable
South Derbyshire District Council	February 2016	Variable
Staffordshire County Council	February 2016	Variable
Planning Hazardous Substance Consents		
Derbyshire County Council	February 2016	Variable
East Staffordshire Borough Council - Planning Department	February 2016	Variable
Leicestershire County Council	February 2016	Variable
Lichfield District Council - Planning Department	February 2016	Variable
North West Leicestershire District Council	February 2016	Variable
South Derbyshire District Council	February 2016	Variable
Staffordshire County Council	February 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	November 2020	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	April 2020	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	April 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2021	Quarterly
Gas Pipelines National Grid	January 2021	
Points of Interest - Commercial Services PointX	March 2021	Quarterly
Points of Interest - Education and Health PointX	March 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2021	Quarterly
Points of Interest - Public Infrastructure PointX	March 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2021	Quarterly
Underground Electrical Cables National Grid	May 2021	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt		
East Staffordshire Borough Council	June 2020	As notified
Lichfield District Council	June 2020	As notified
North West Leicestershire District Council	June 2020	As notified
South Derbyshire District Council	June 2020	As notified
Areas of Unadopted Green Belt		
East Staffordshire Borough Council	June 2020	As notified
Lichfield District Council	June 2020	As notified
North West Leicestershire District Council	June 2020	As notified
South Derbyshire District Council	June 2020	As notified
Areas of Outstanding Natural Beauty		
Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2021	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	January 2021	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2016	Not Applicable
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	August 2020	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2021	Bi-Annually
Special Areas of Conservation		
Natural England	July 2020	Bi-Annually
Special Protection Areas		
Natural England	February 2021	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	
Stantec UK Ltd	

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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**South Derbyshire District Council** Civic Offices, Civic Way, Swadlincote, Derbyshire, DE11 0AH	Telephone: 01283 221000 Fax: 01283 550128 Website: www.south-derbys.gov.uk
6	**Derbyshire County Council** County Offices, Matlock, Derbyshire, DE4 3AG	Telephone: 01629 580000 Fax: 01629 580119 Website: www.derbyshire.gov.uk
7	**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
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.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.

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
Pylon
Electricity Transmission Line
Sloping Masonry
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
Mud
Sand
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

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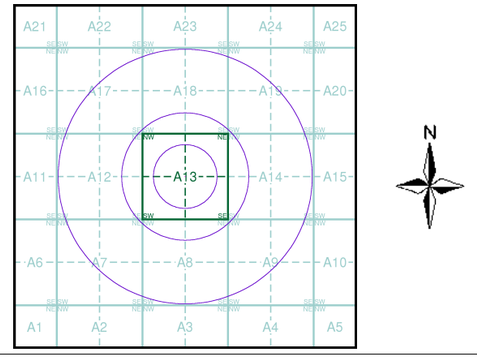
Historical Mapping & Photography included:

Historical Map - Slice A



Order Details

Order Number: 279264891_1_1
Customer Ref: 20209 - Oaklands
National Grid Reference: 422980, 316720
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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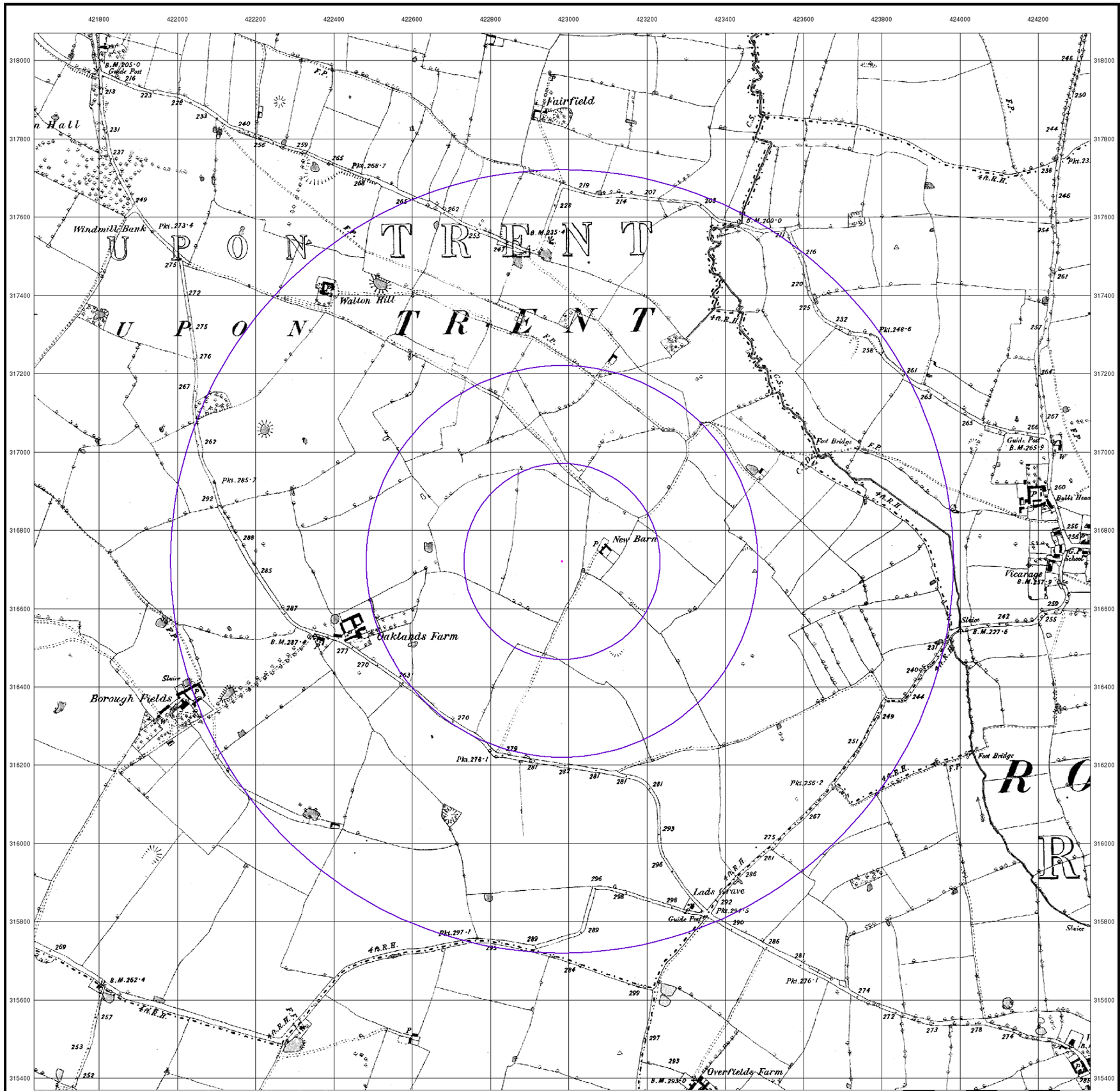

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Derbyshire

Published 1884

Source map scale - 1:10,560

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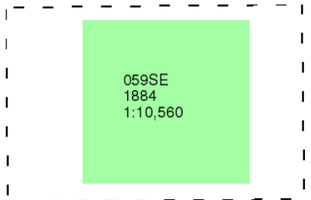
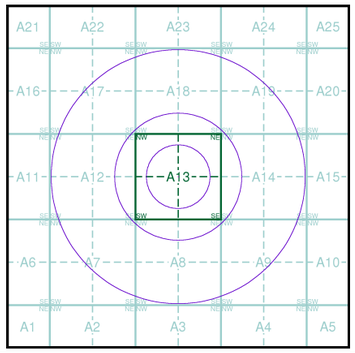
Map Name(s) and Date(s)



Historical Map - Slice A



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Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
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Site Area (Ha):	0.01
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Site Details

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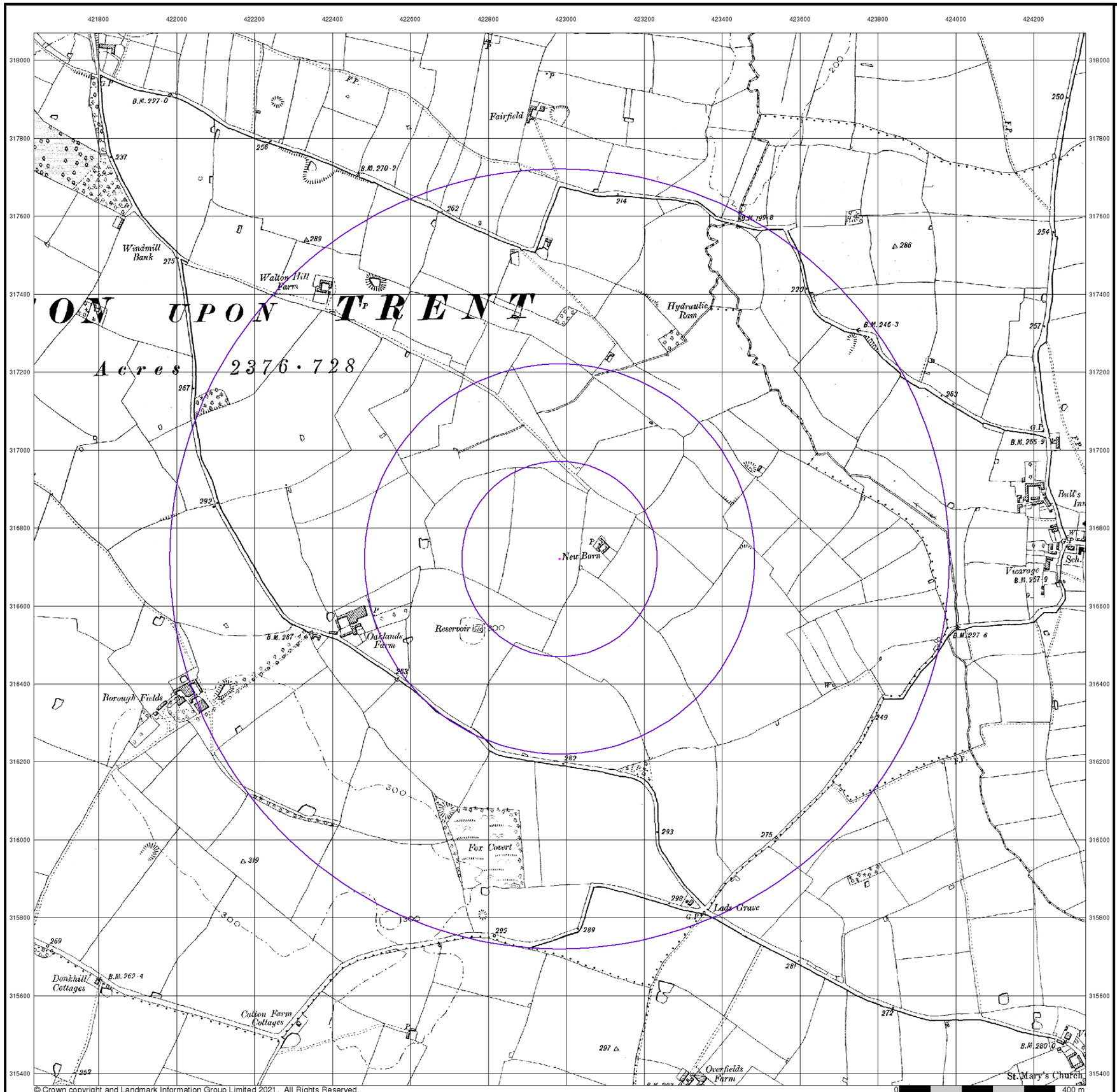

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Derbyshire

Published 1902

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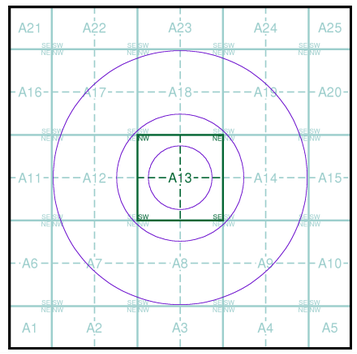
Map Name(s) and Date(s)

059SE
1902
1:10,560

Historical Map - Slice A



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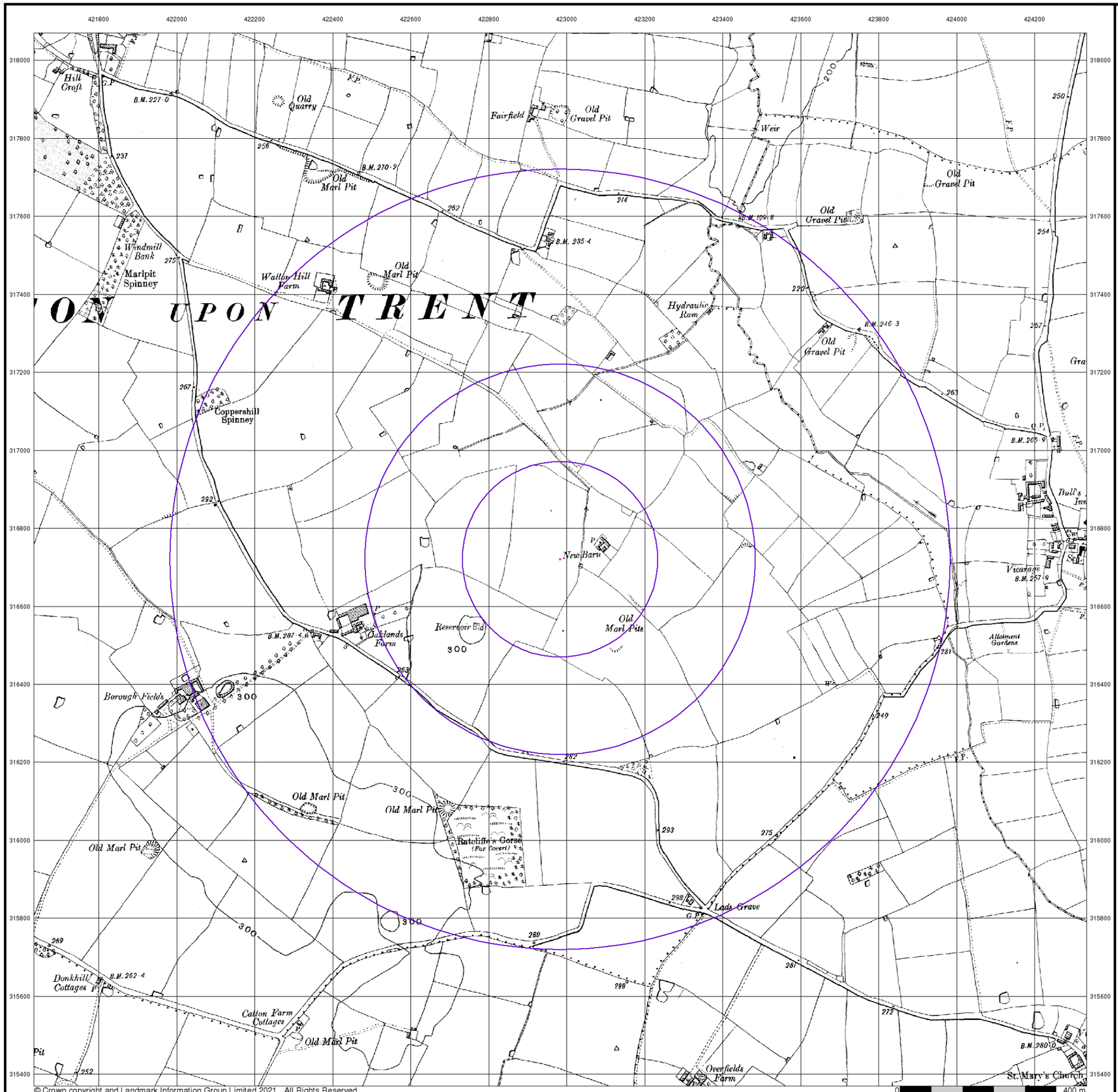

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Derbyshire

Published 1925

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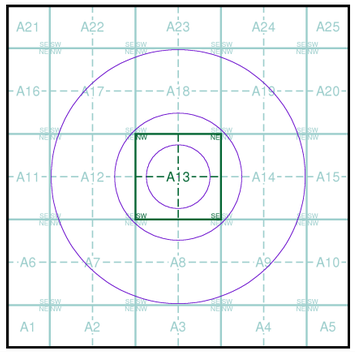
Map Name(s) and Date(s)

059SE
1925
1:10,560

Historical Map - Slice A



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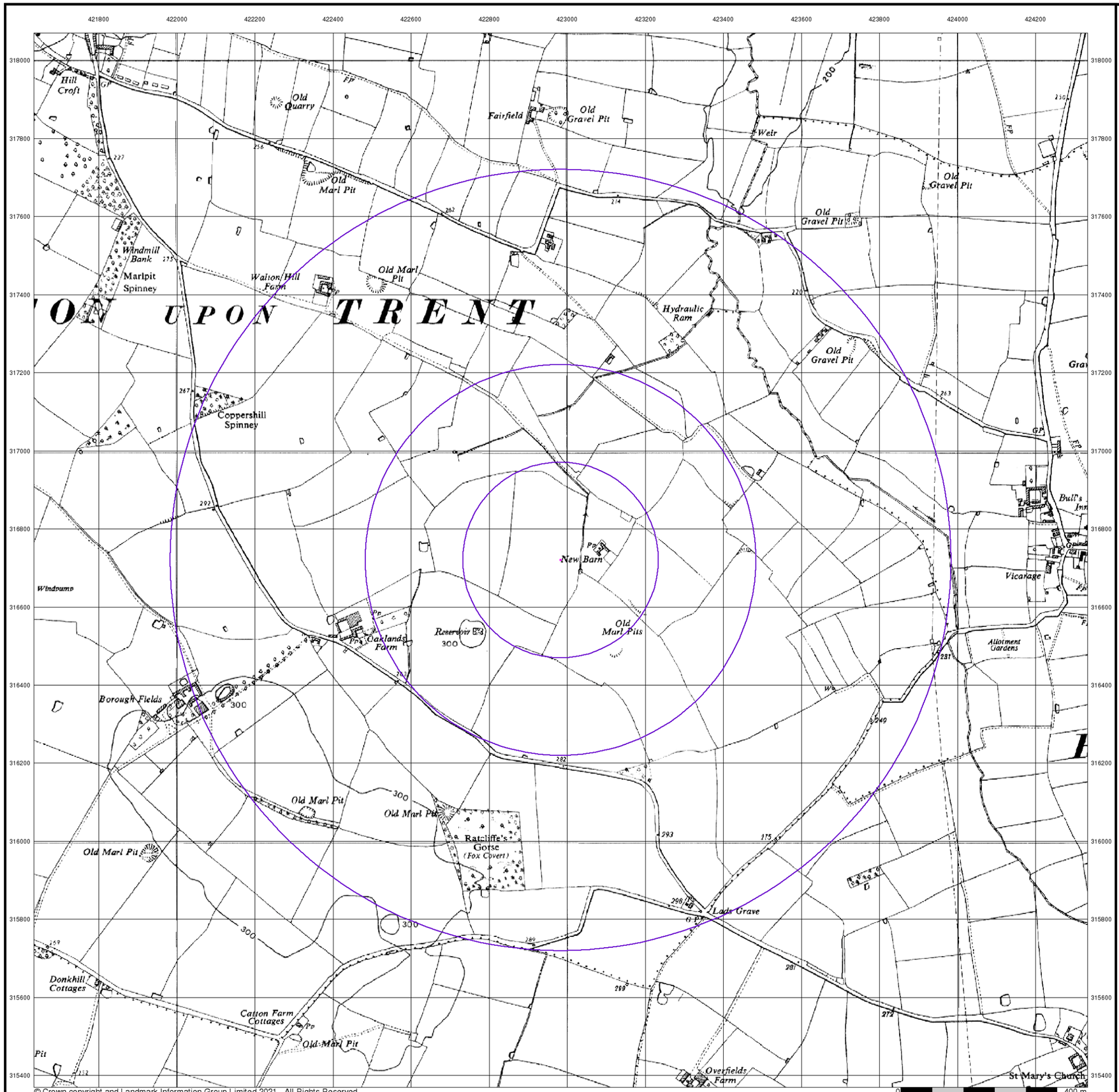

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Ordnance Survey Plan

Published 1955

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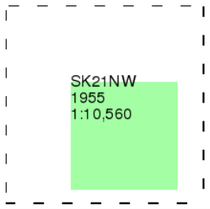
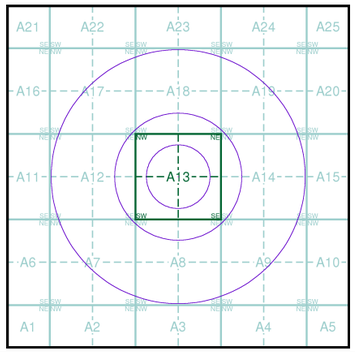
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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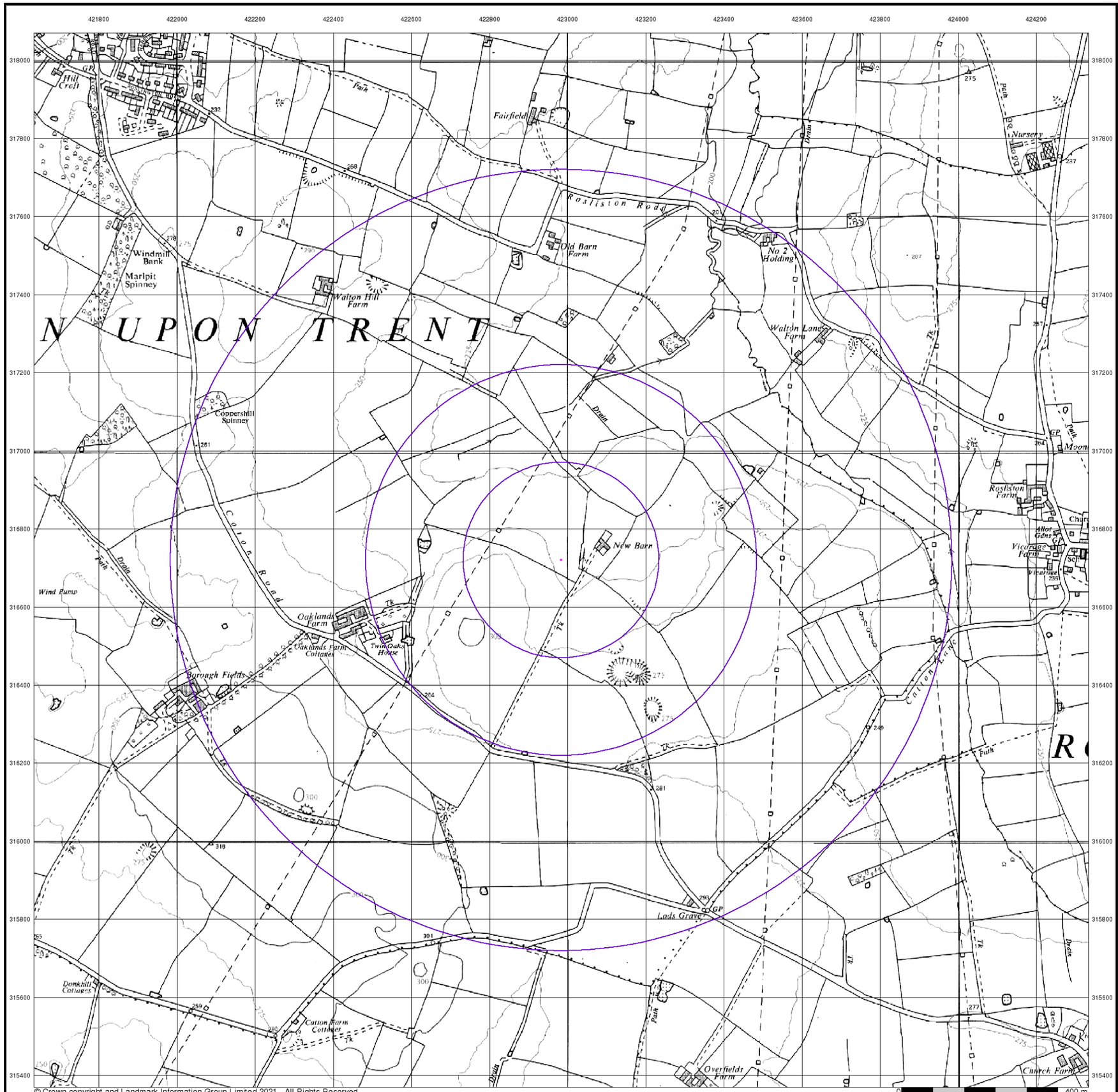

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Ordnance Survey Plan

Published 1968

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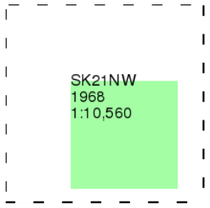
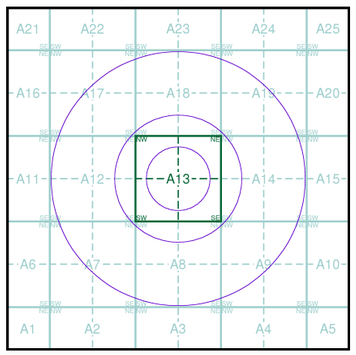
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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



Order Details

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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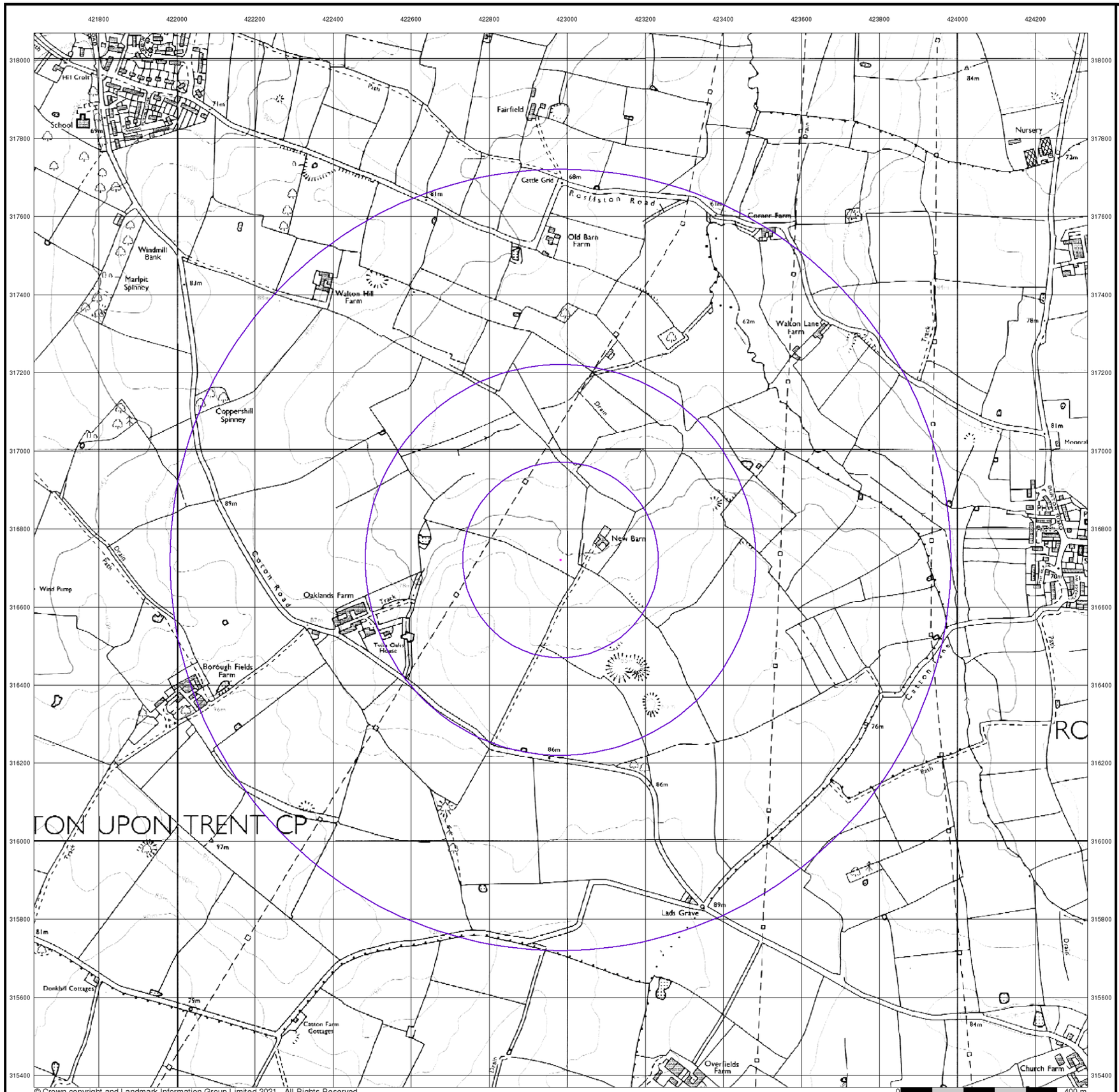

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Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

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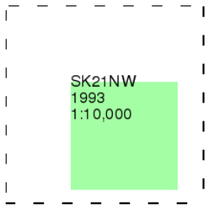

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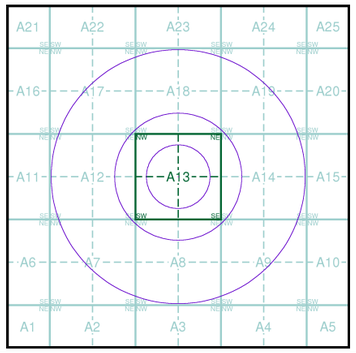

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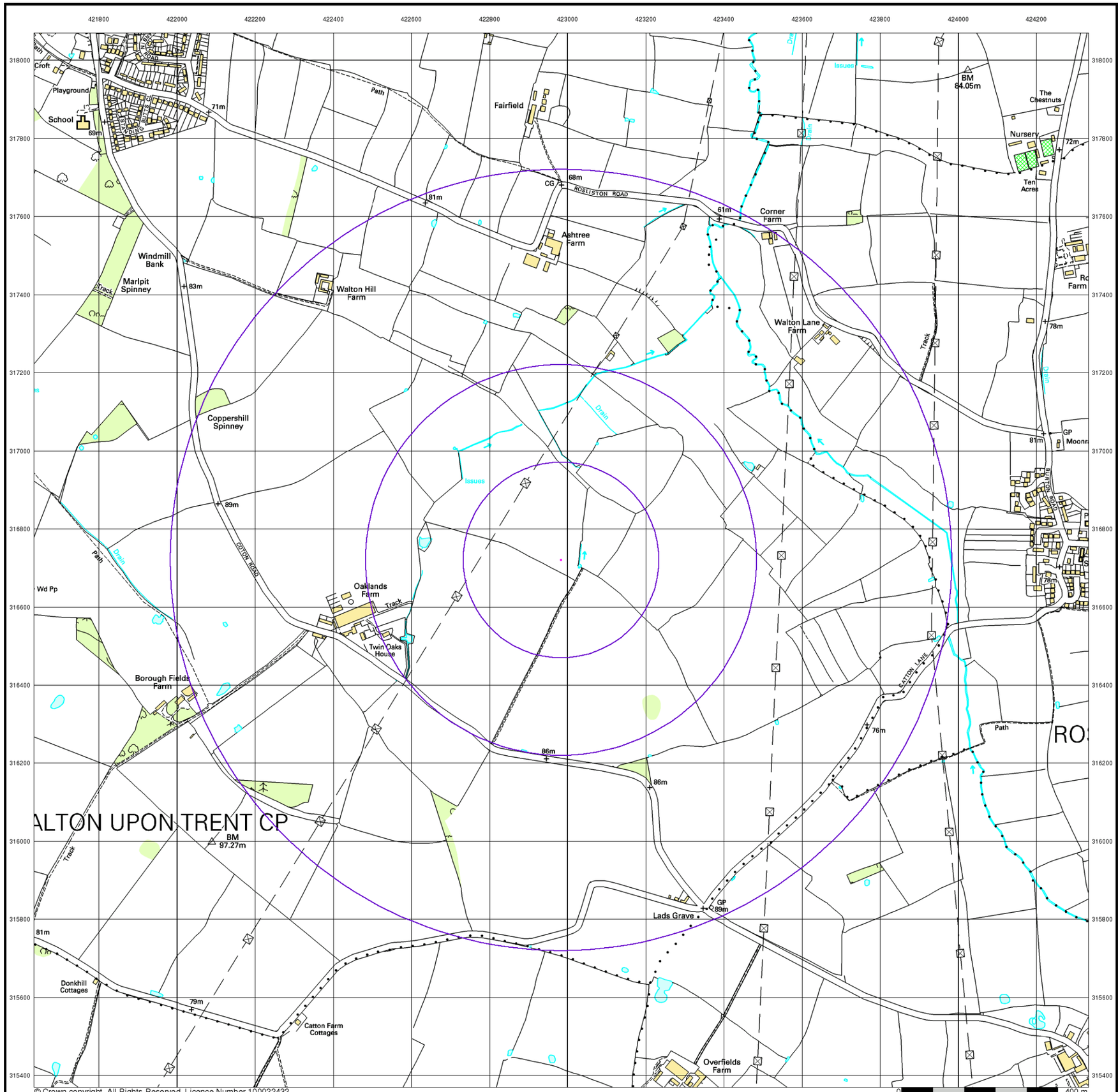

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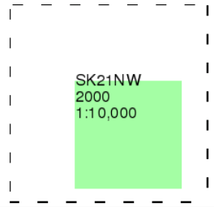
10k Raster Mapping

Published 2000

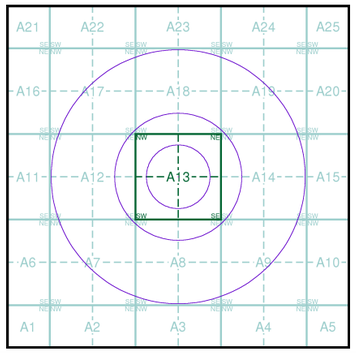
Source map scale - 1:10,000

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



Order Details

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Slice:	A
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Search Buffer (m):	1000

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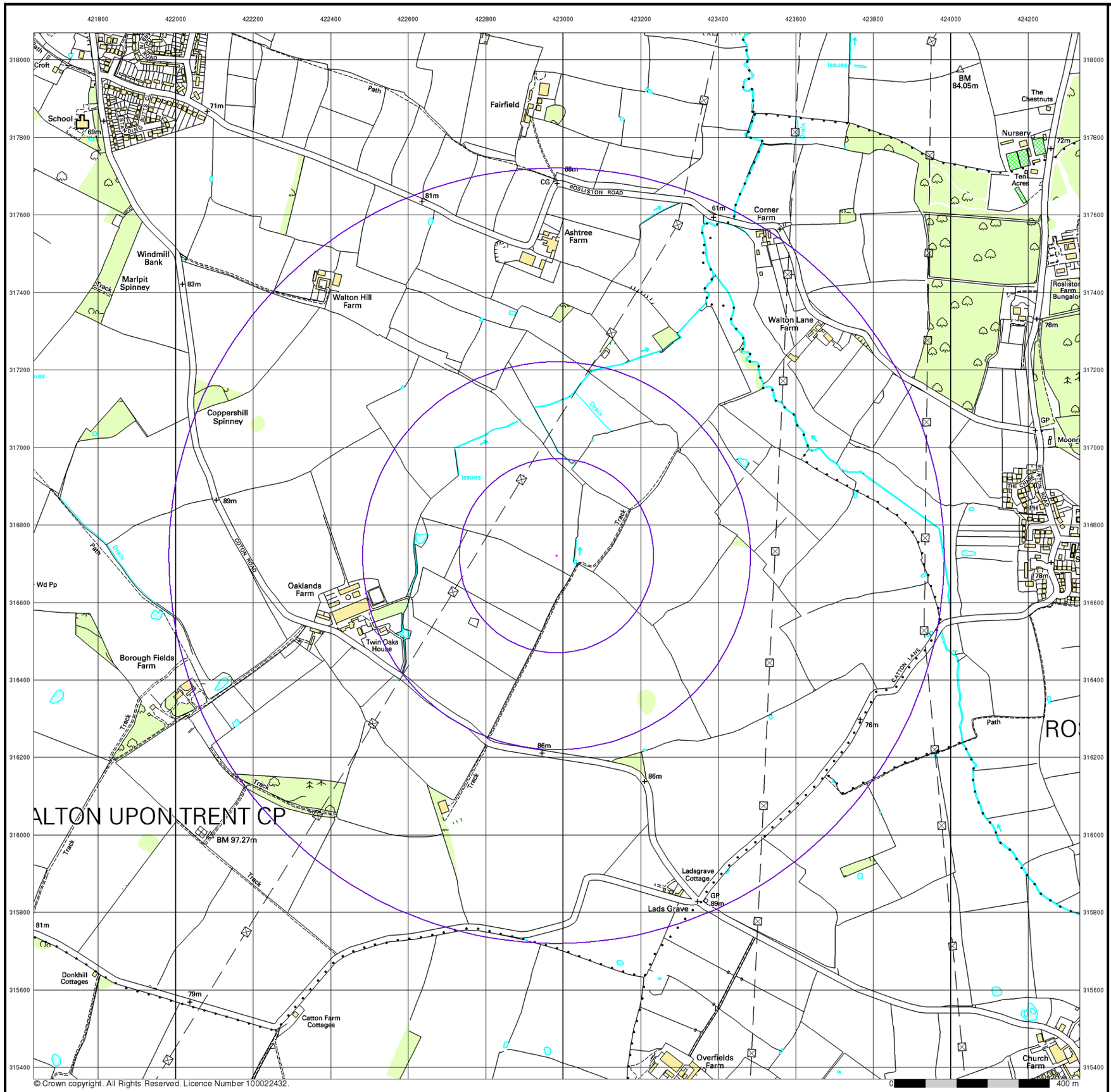

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10k Raster Mapping

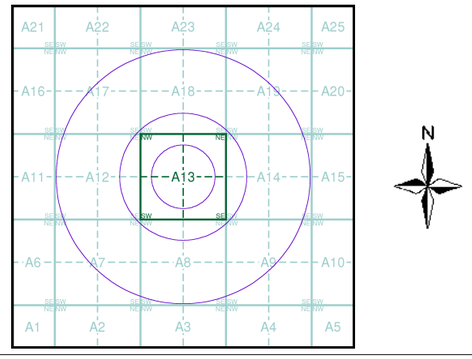
Published 2006

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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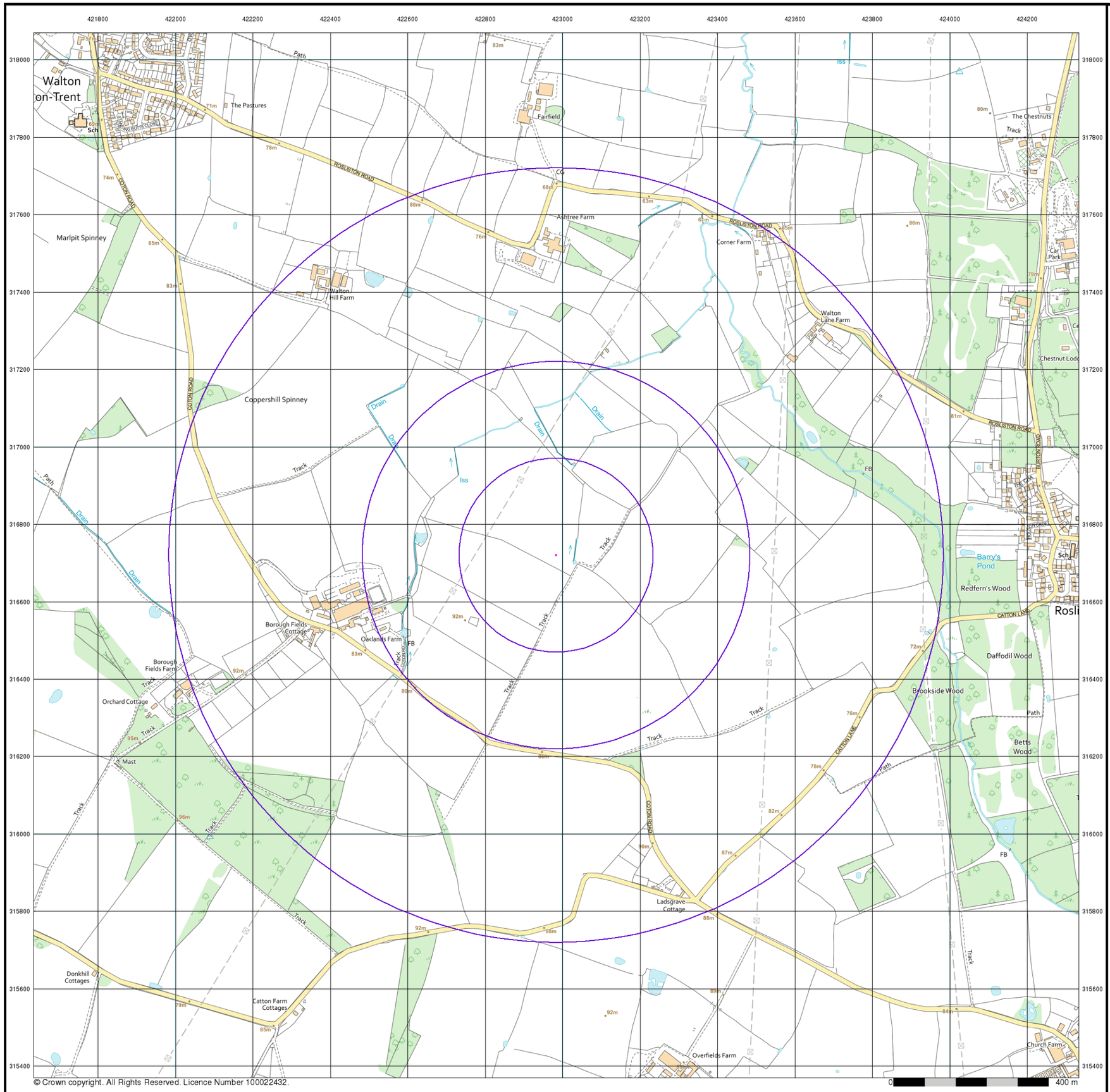

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VectorMap Local

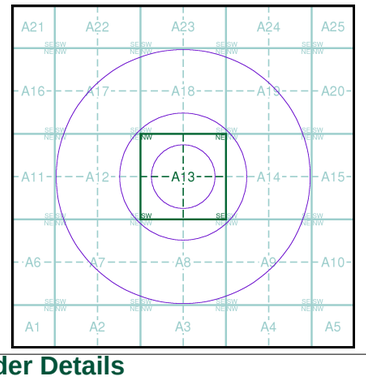
Published 2021

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)

Historical Map - Slice A



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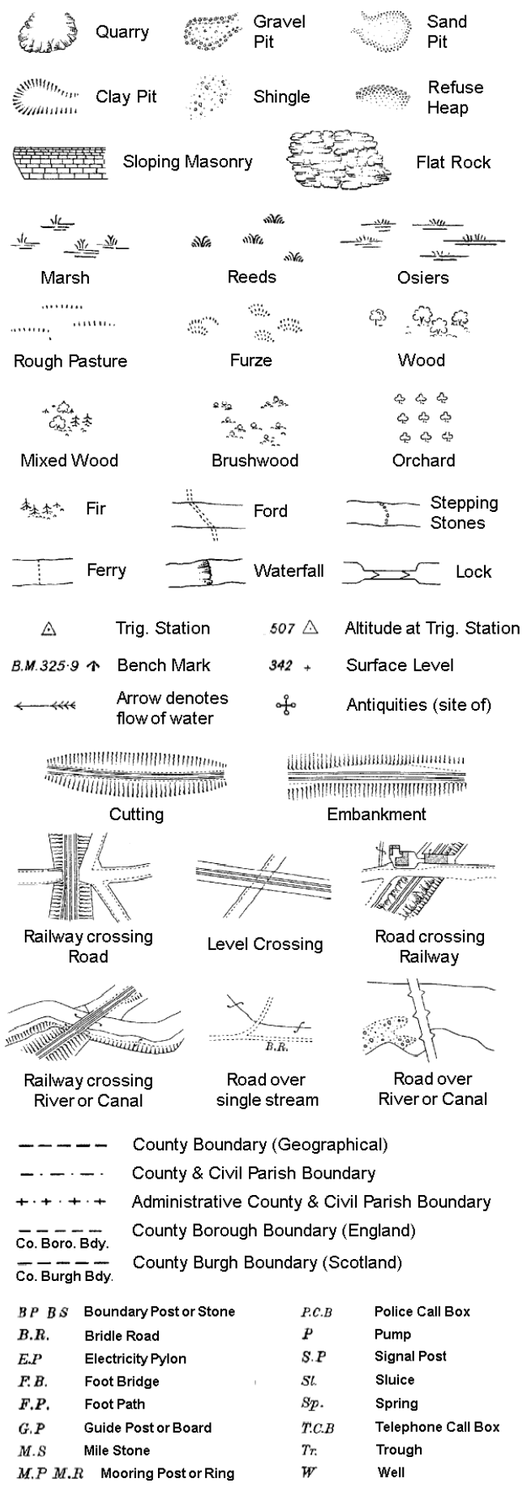
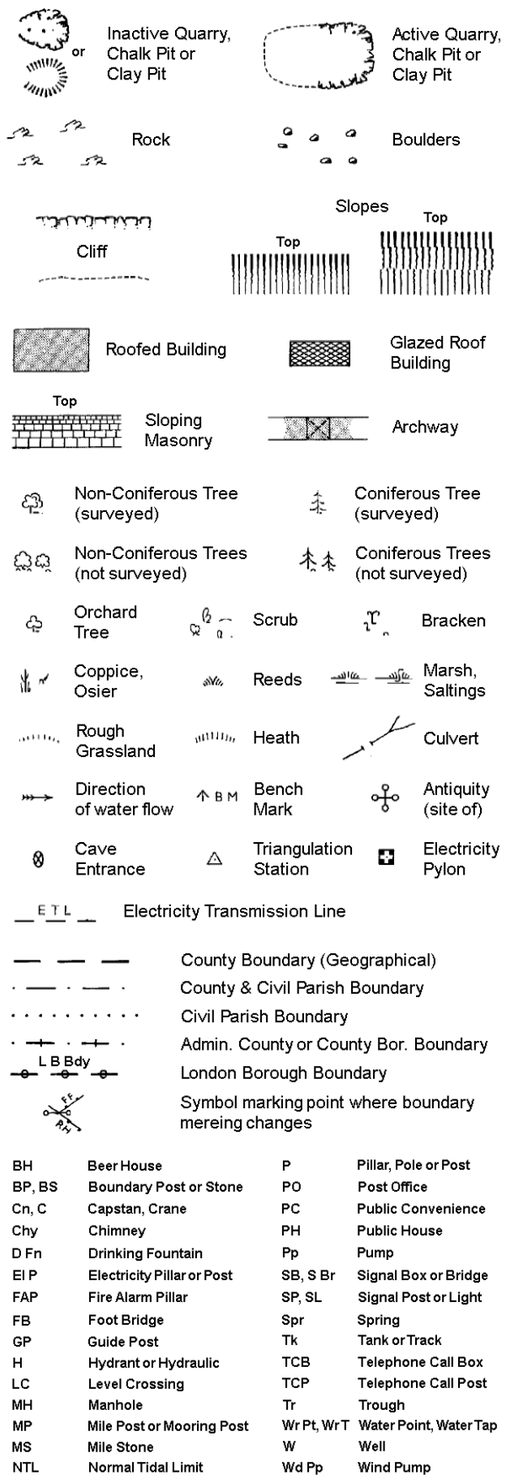
Historical Mapping Legends

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



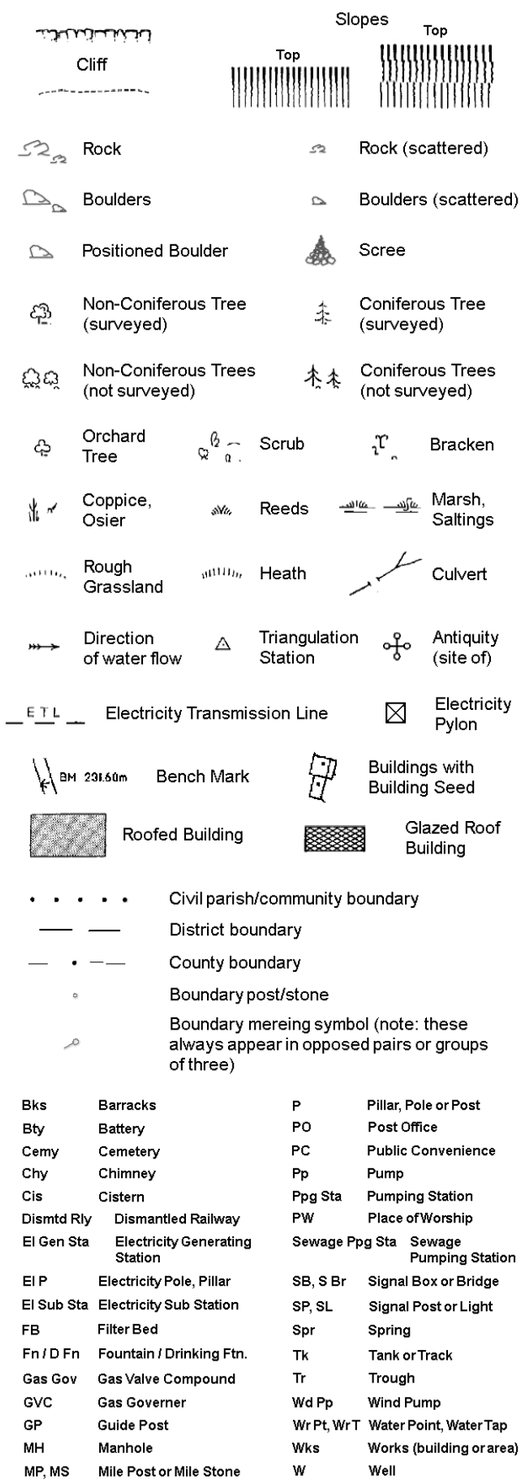
B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



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



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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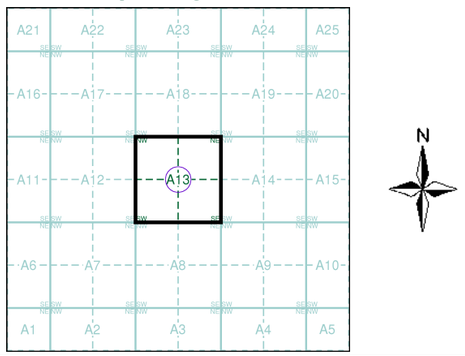
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1883	2
Derbyshire	1:2,500	1901	3
Derbyshire	1:2,500	1923	4
Ordnance Survey Plan	1:2,500	1963	5
Additional SIMs	1:2,500	1992	6
Large-Scale National Grid Data	1:2,500	1994	7
Historical Aerial Photography	1:2,500	1999	8

Historical Map - Segment A13



Order Details

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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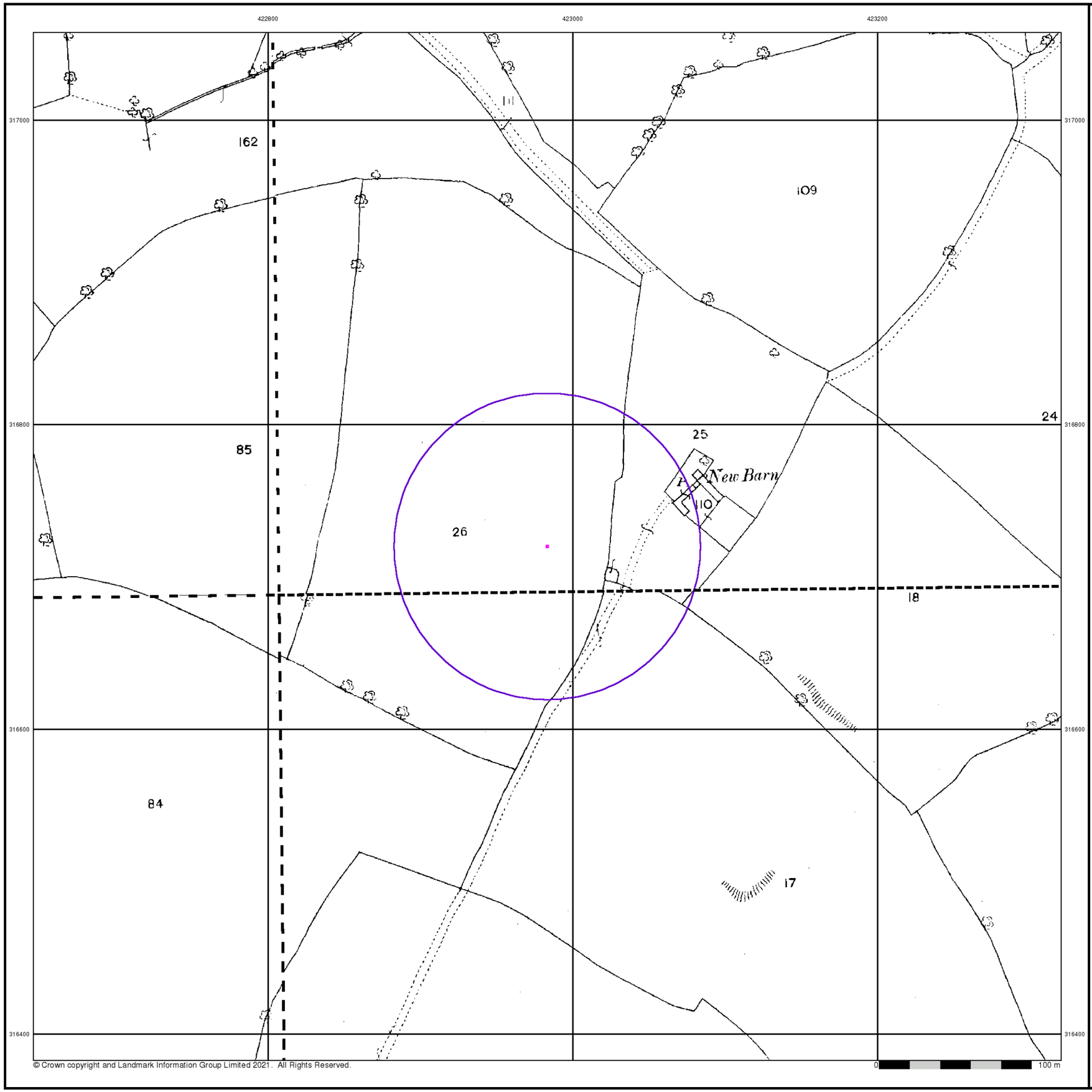

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Derbyshire

Published 1883

Source map scale - 1:2,500

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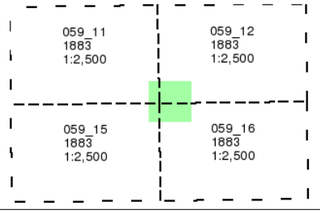
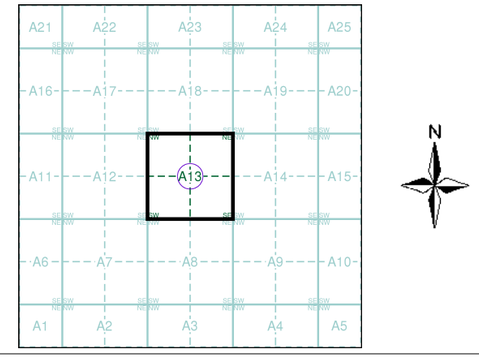
Map Name(s) and Date(s)



Historical Map - Segment A13



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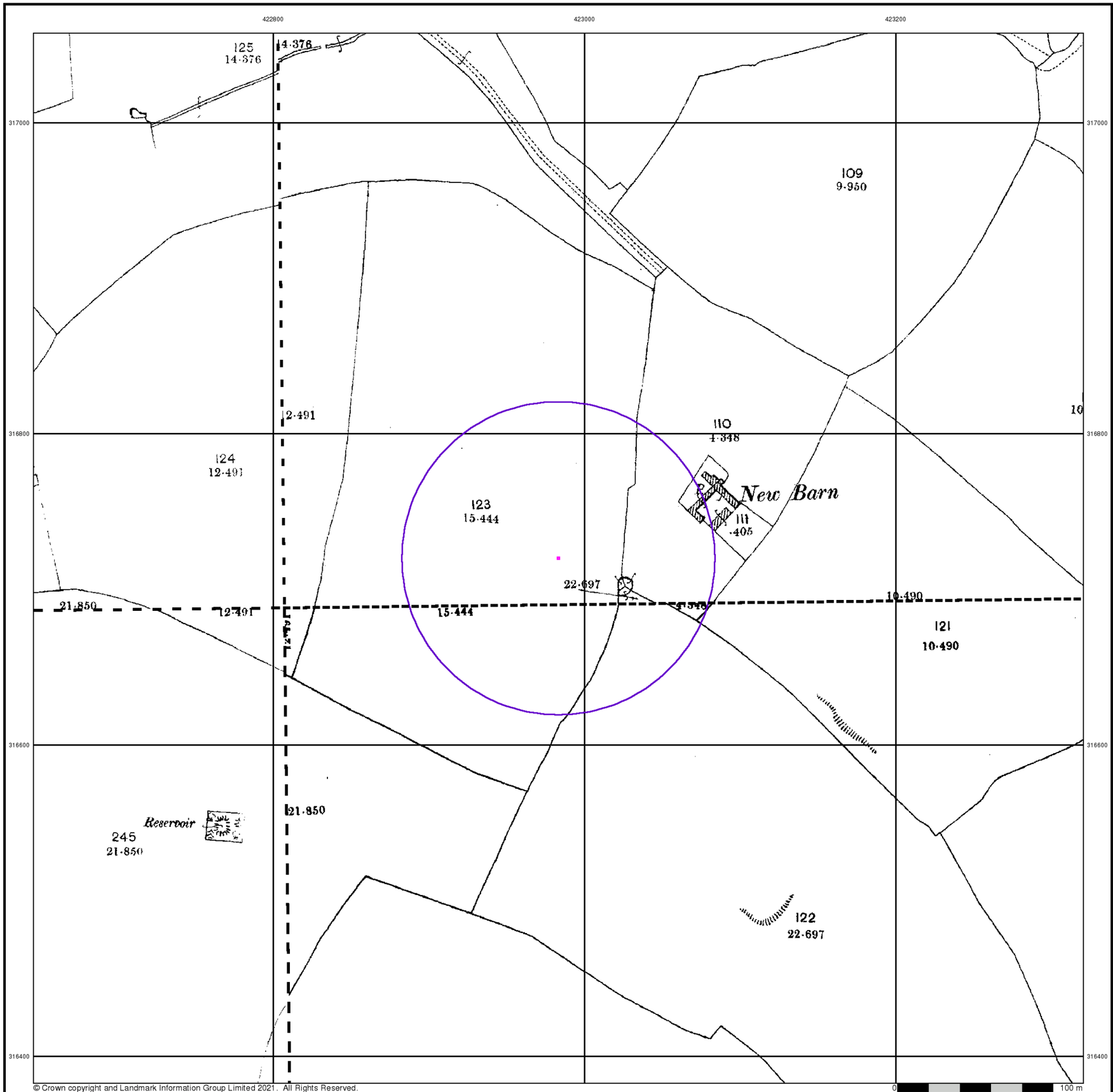

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Derbyshire

Published 1901

Source map scale - 1:2,500

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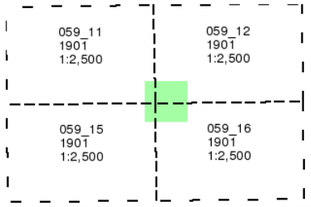
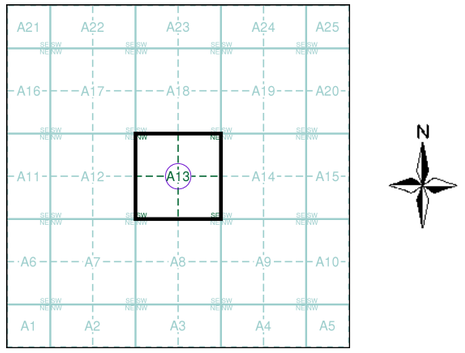


Historical Map - Segment A13



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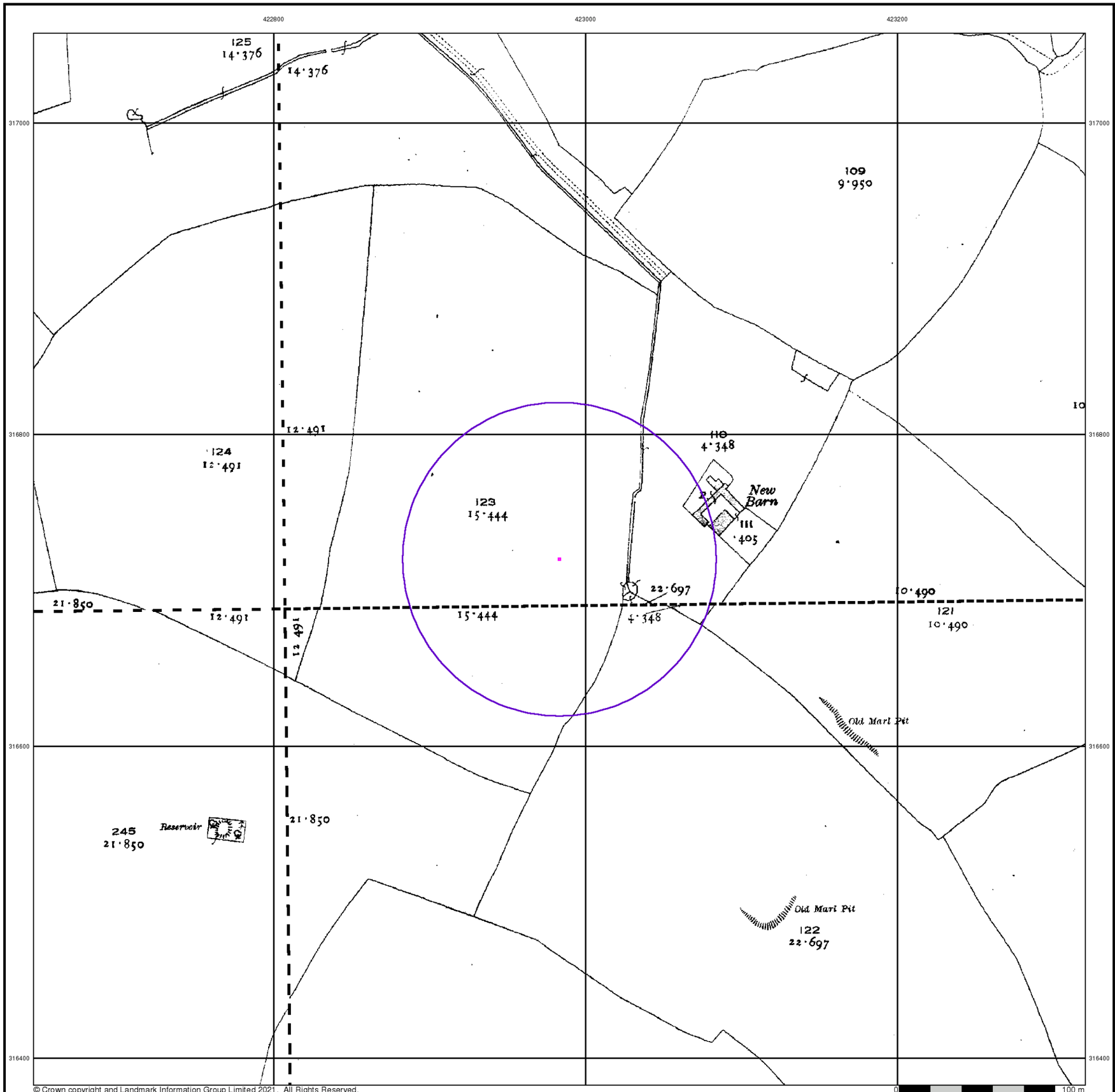

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Derbyshire

Published 1923

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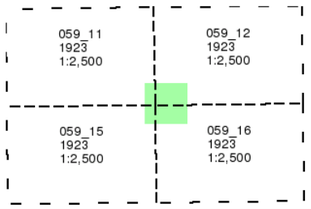
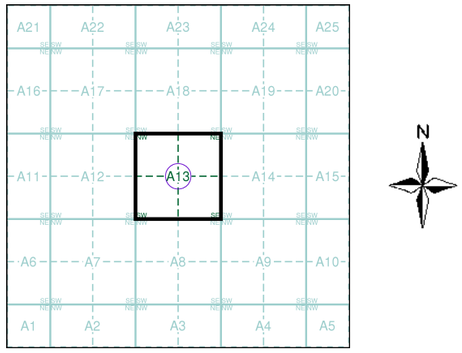


Historical Map - Segment A13



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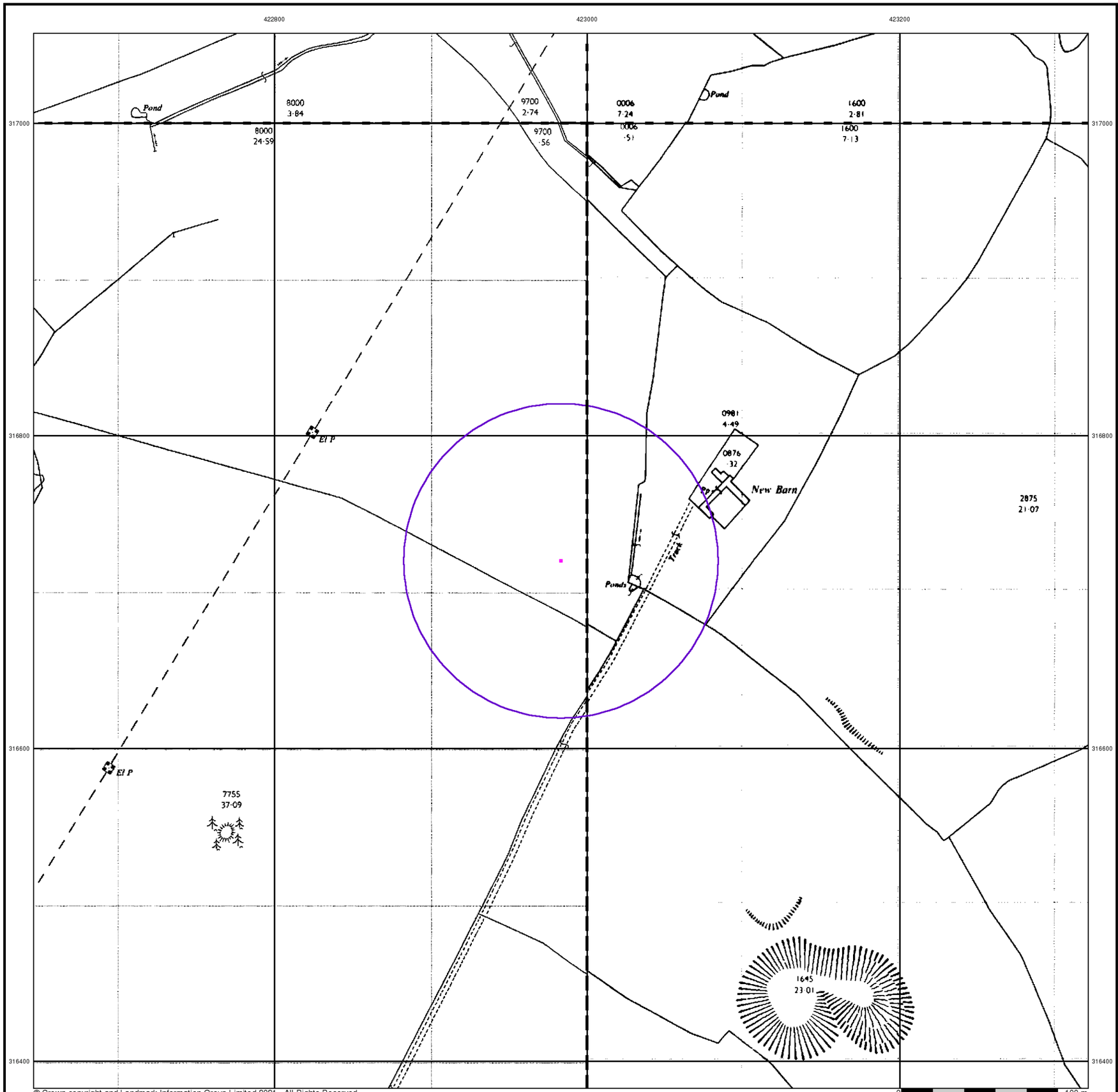

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Ordnance Survey Plan

Published 1963

Source map scale - 1:2,500

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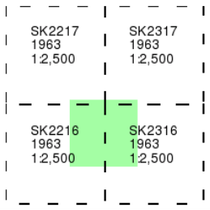
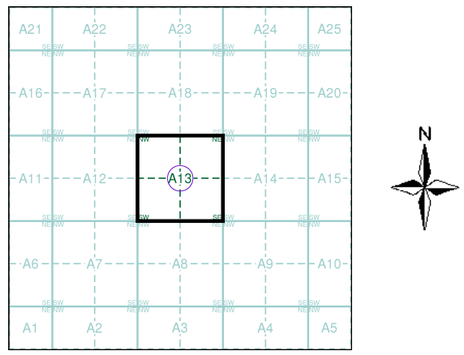


Historical Map - Segment A13



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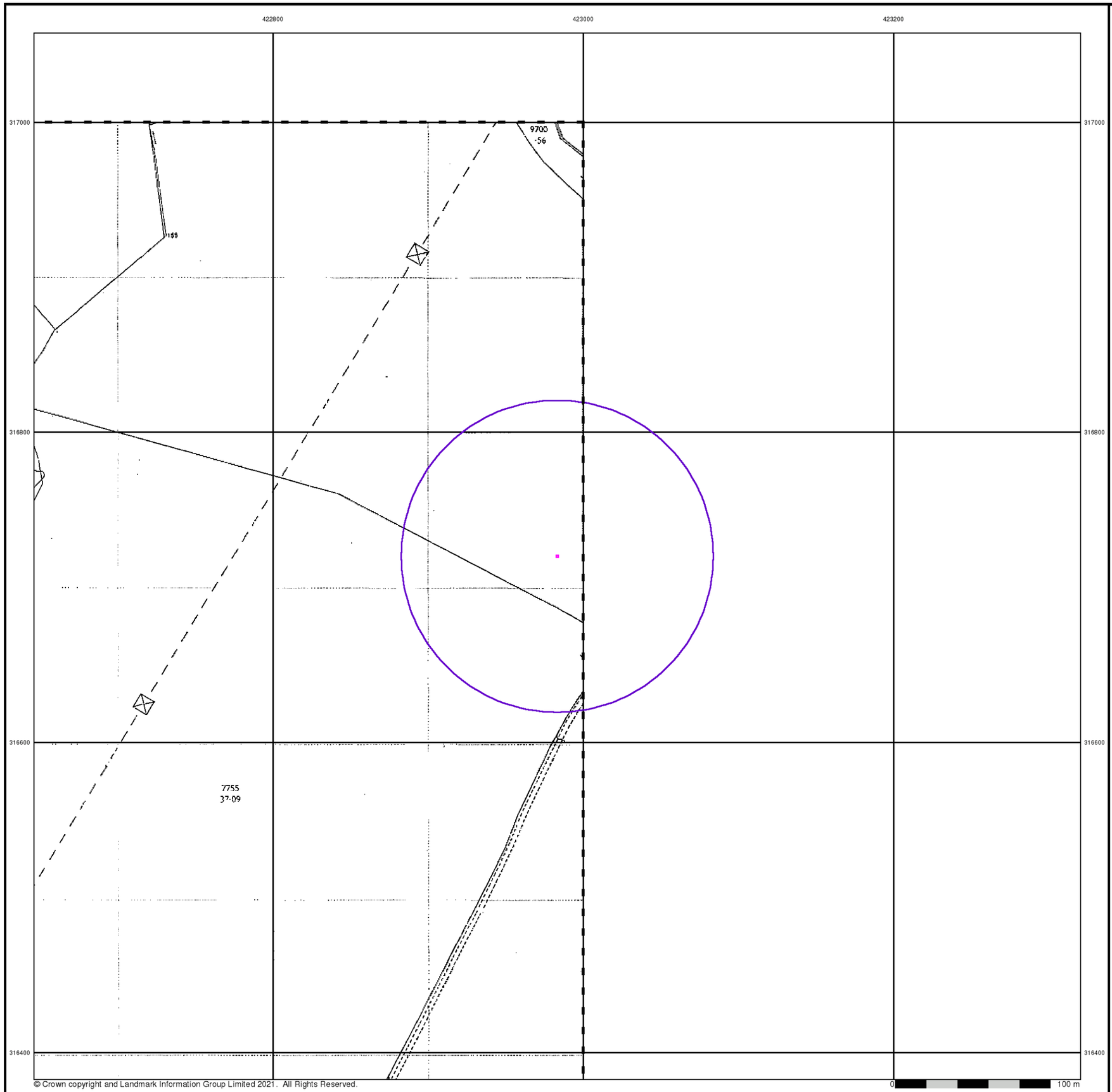

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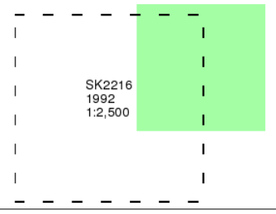
Additional SIMs

Published 1992

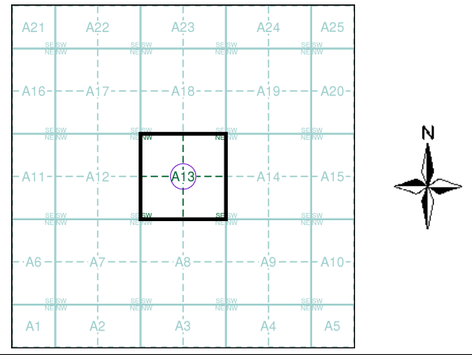
Source map scale - 1:2,500

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

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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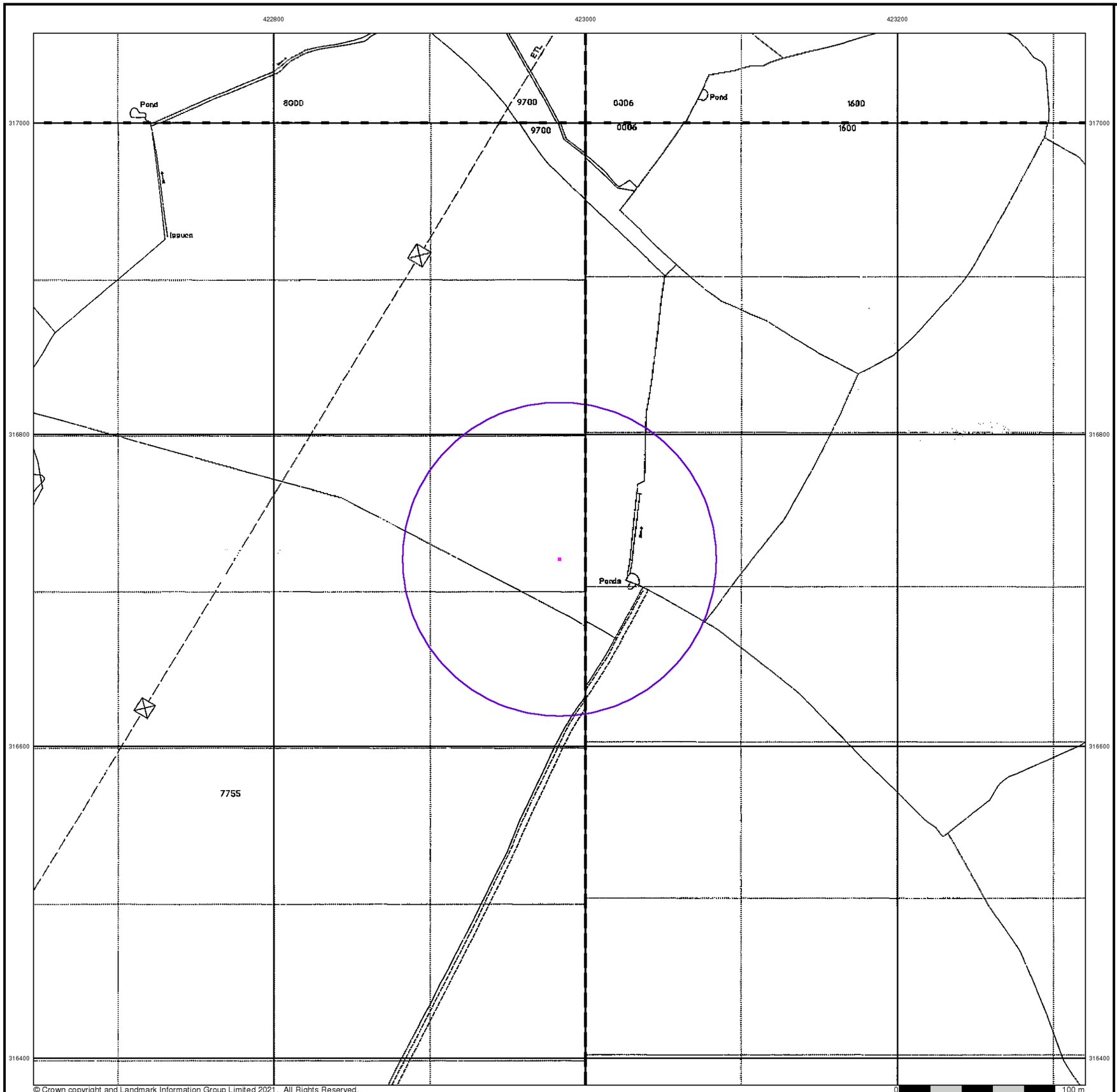

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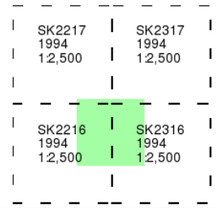
Large-Scale National Grid Data

Published 1994

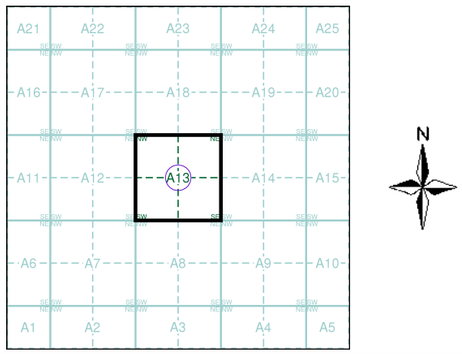
Source map scale - 1:2,500

'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:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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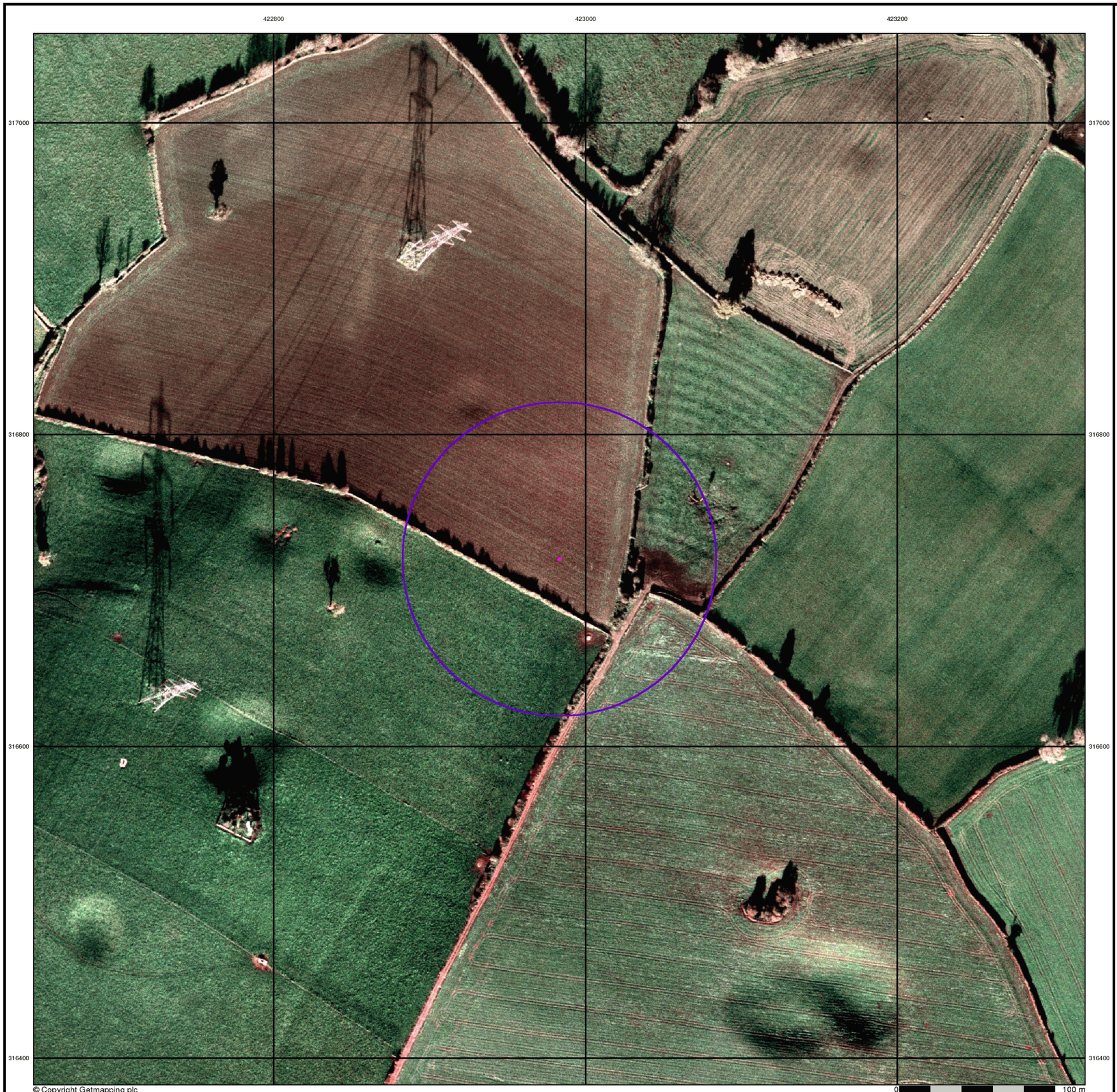

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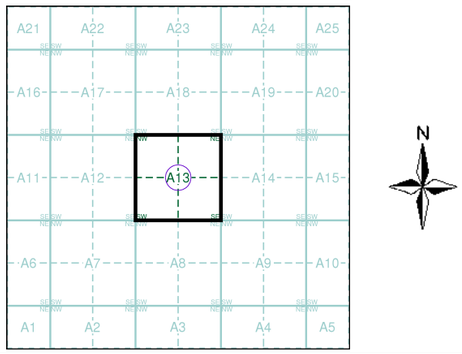
Historical Aerial Photography

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

Order Number:	279264891_1_1
Customer Ref:	20209 - Oaklands
National Grid Reference:	422980, 316720
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	100

Site Details

Old Barn Farm, Rosliston Road, Walton-on-Trent, SWADLINCOTE, DE12 8LR

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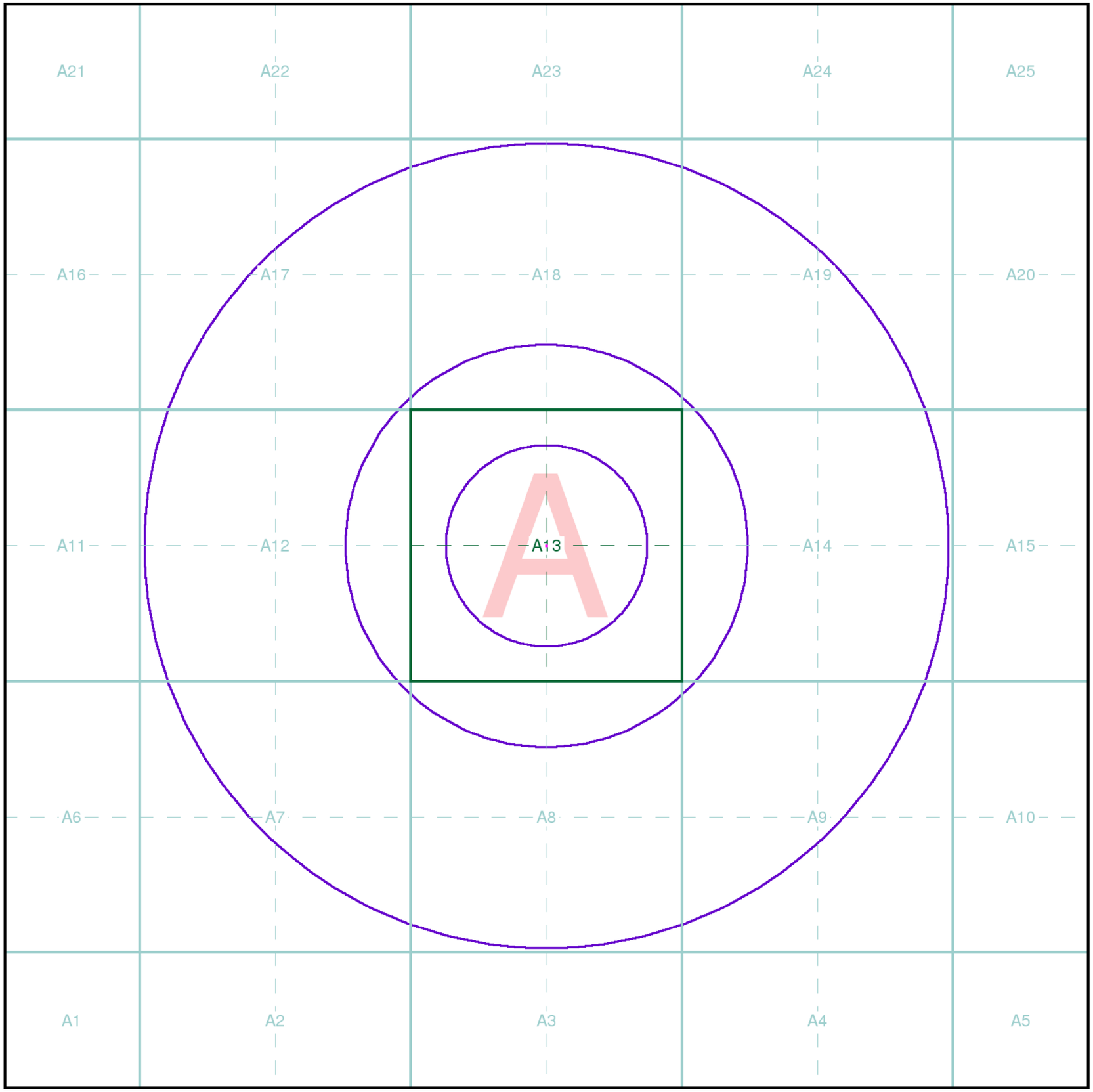

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Index Map

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.

Prepared For

Cardiff
CF24 3PJ

Client Details

Mr A Egan, Yellow Sub Geo Ltd, 7 Neptune Courtt, Vangaurd Way, Cardiff, CF24 5PJ

Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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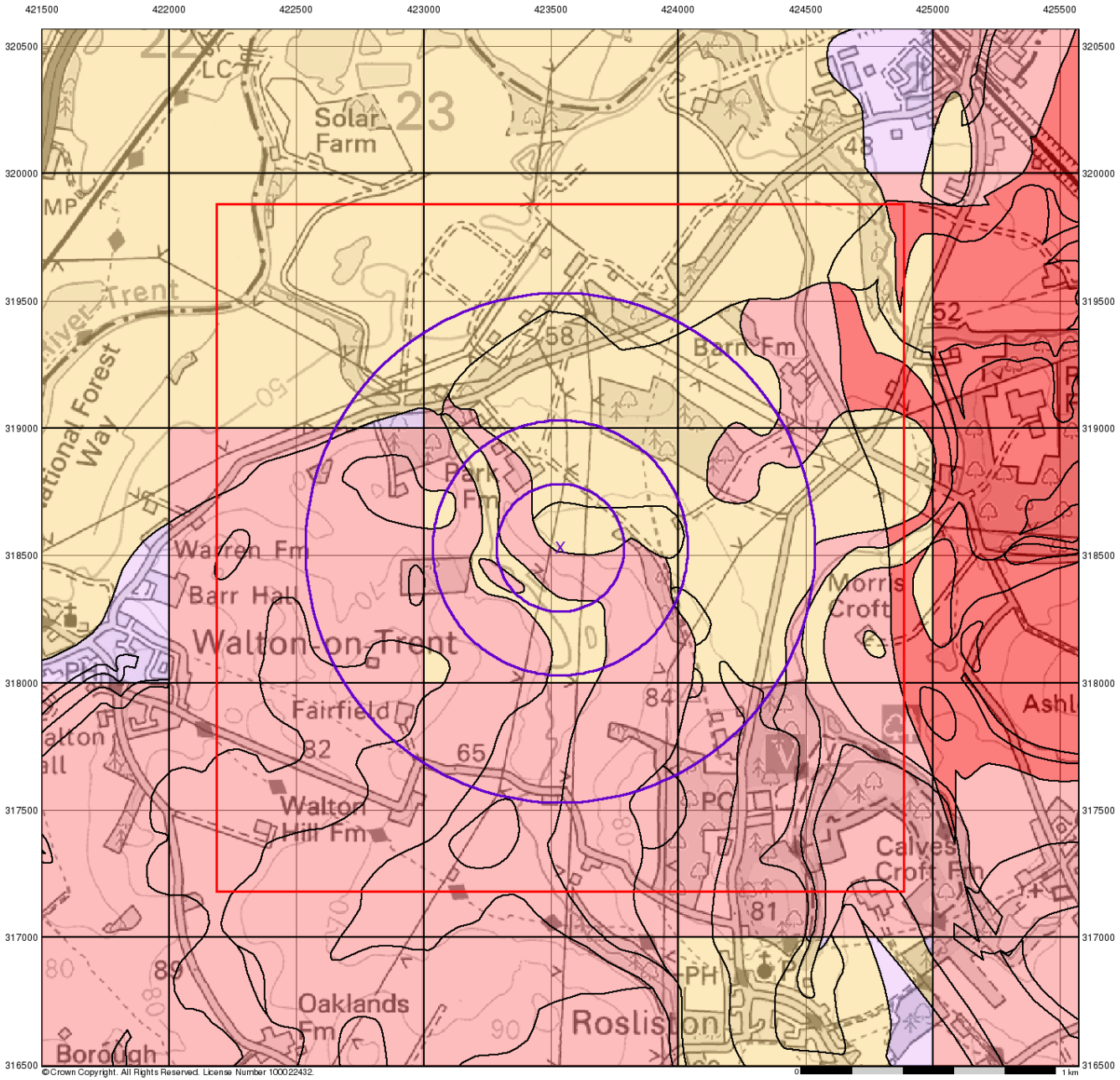

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Groundwater Vulnerability

General

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

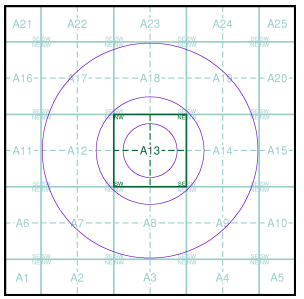
Agency and Hydrological

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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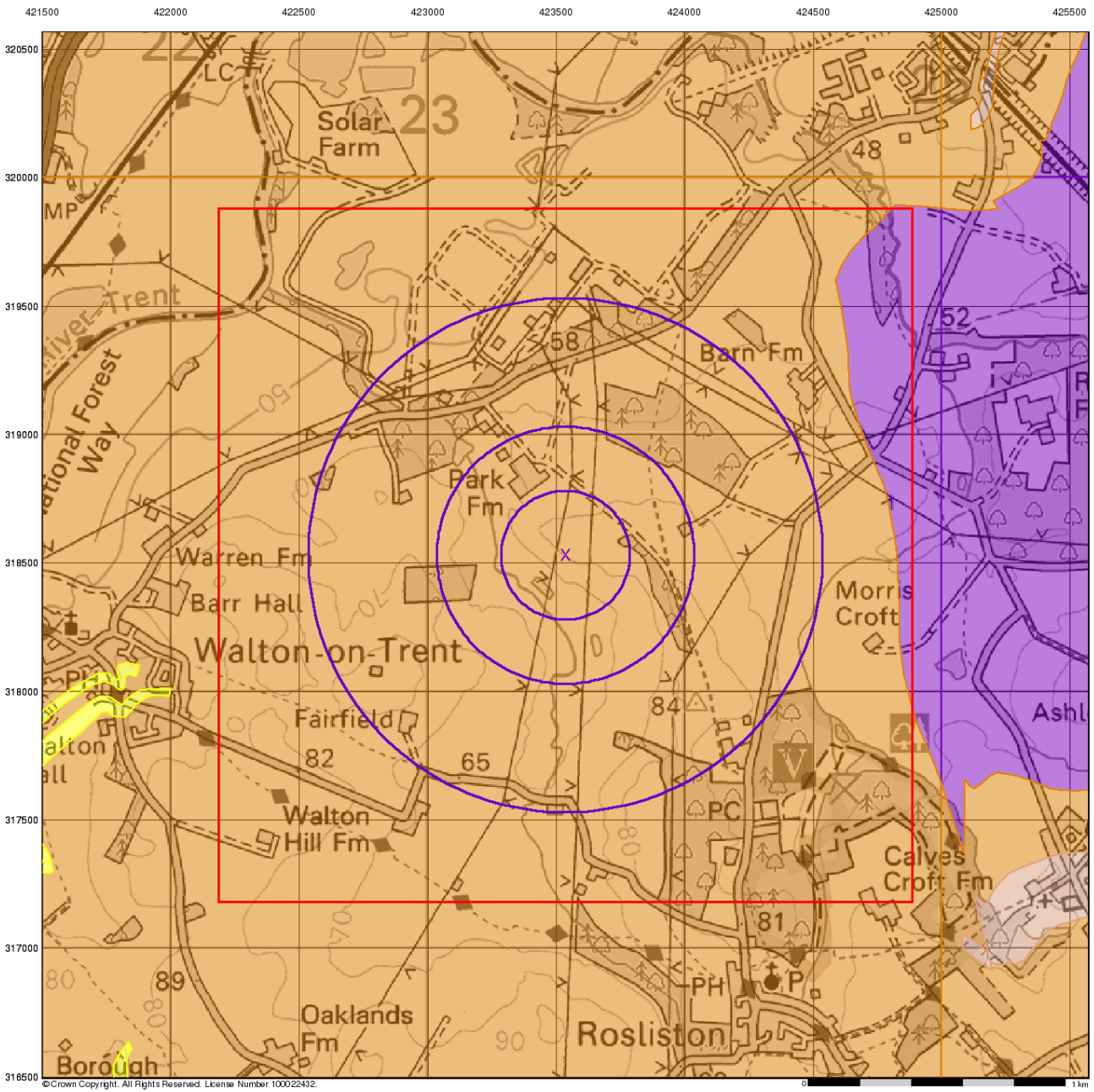

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Bedrock Aquifer Designation

General

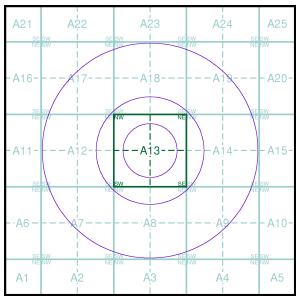
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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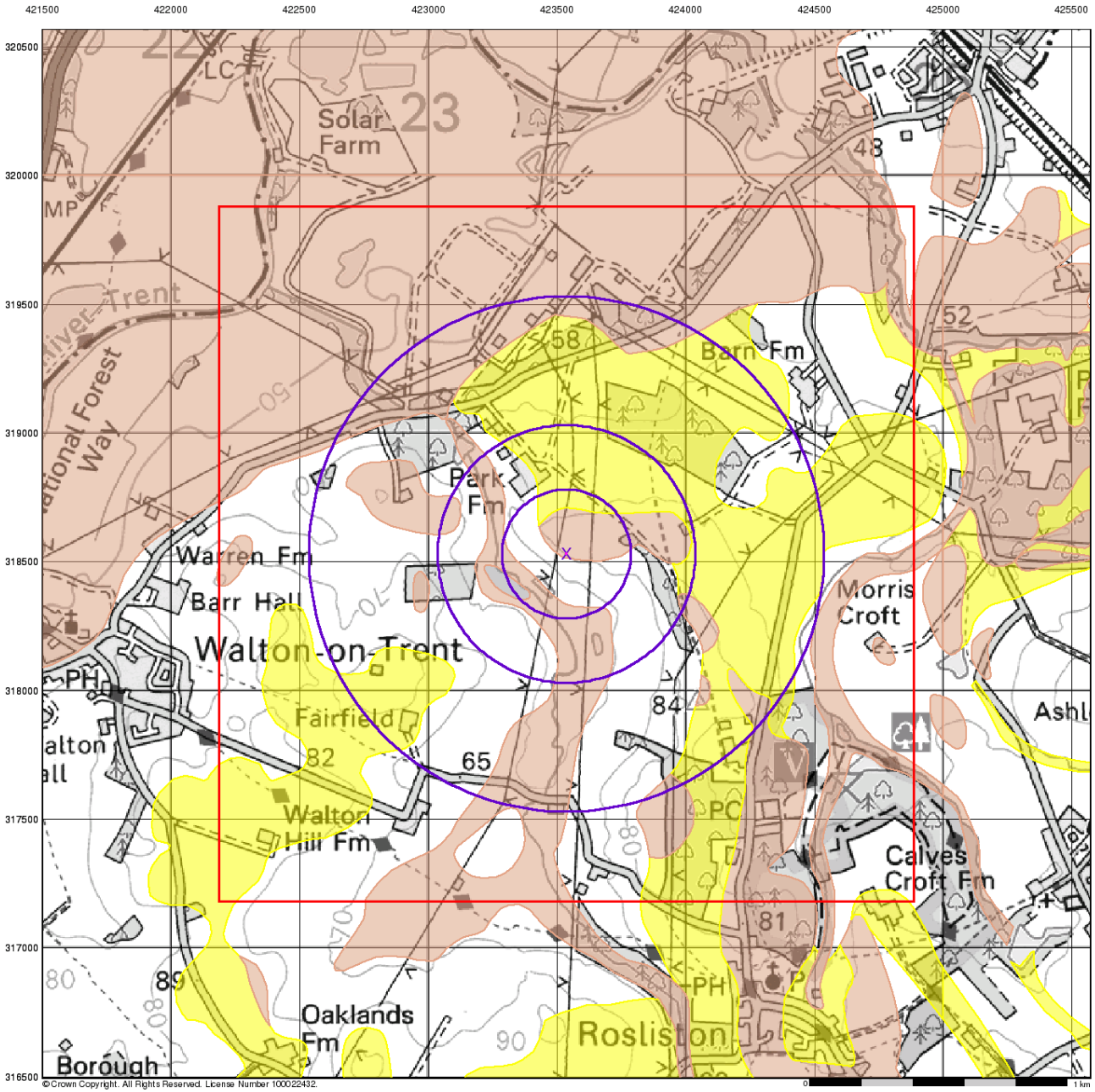

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Superficial Aquifer Designation

General

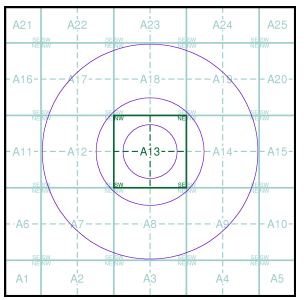
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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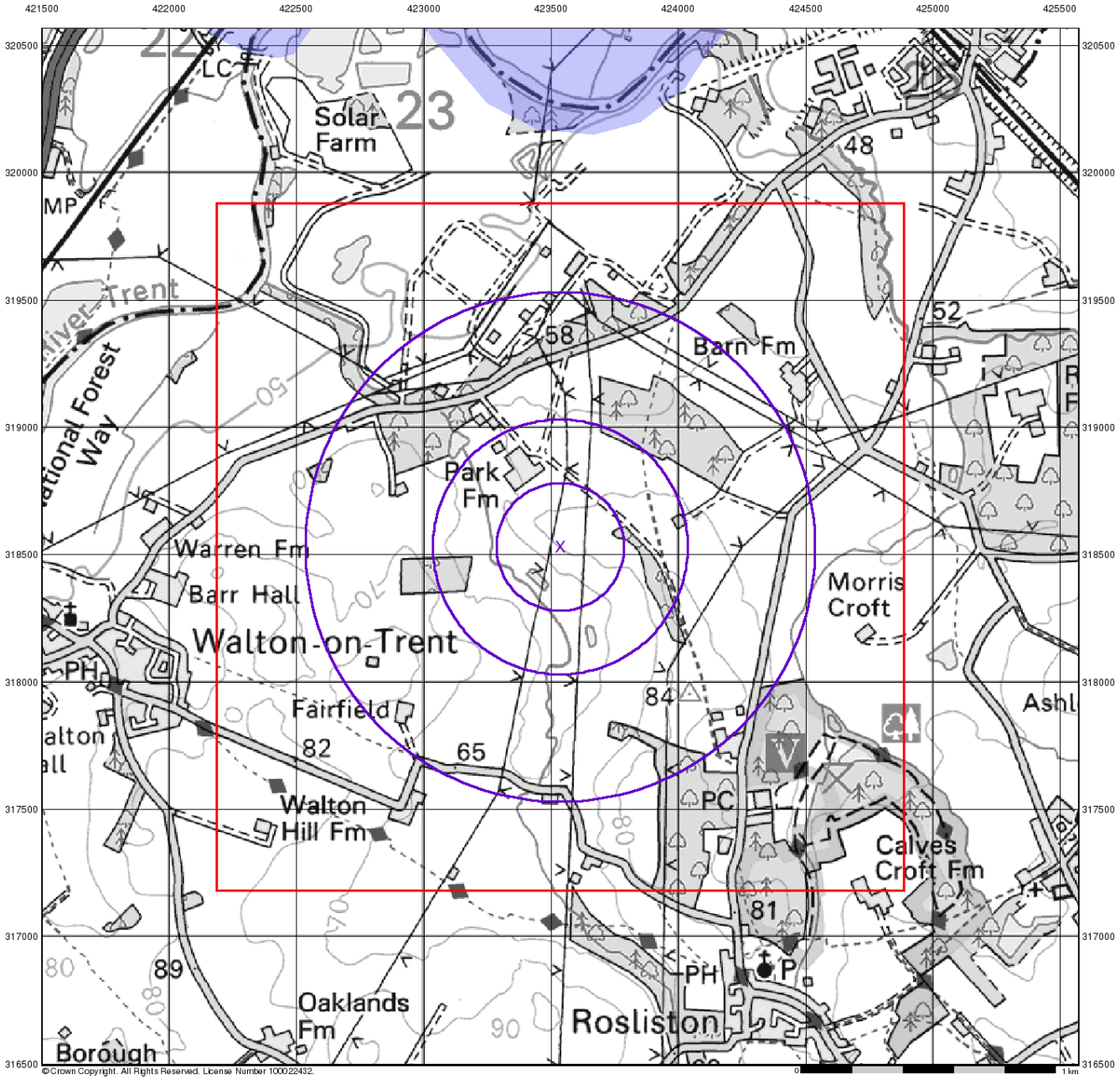

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Source Protection Zones

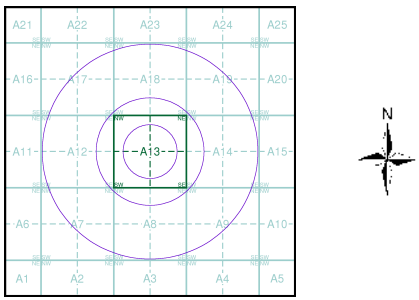
General

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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Sensitive Land Uses

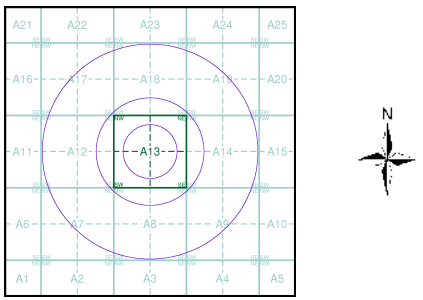
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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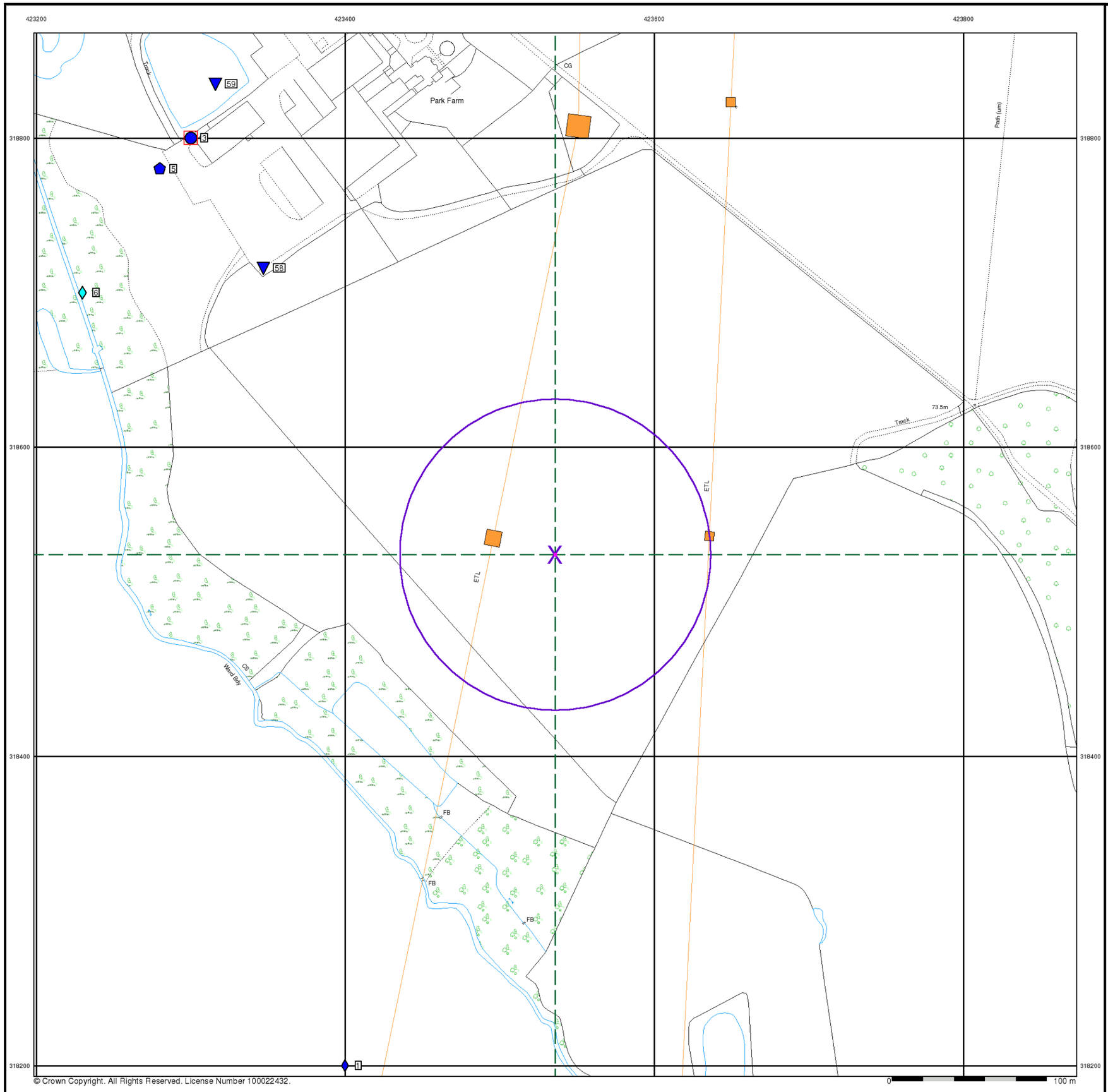

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General

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

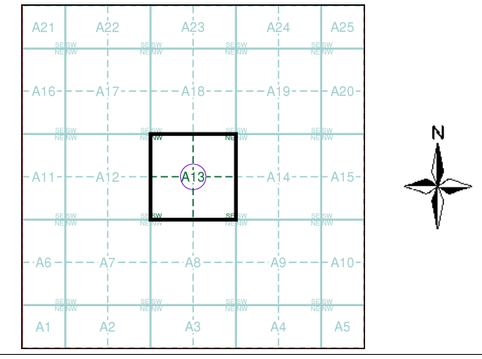
Geological

- 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:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Plot Buffer (m):	100

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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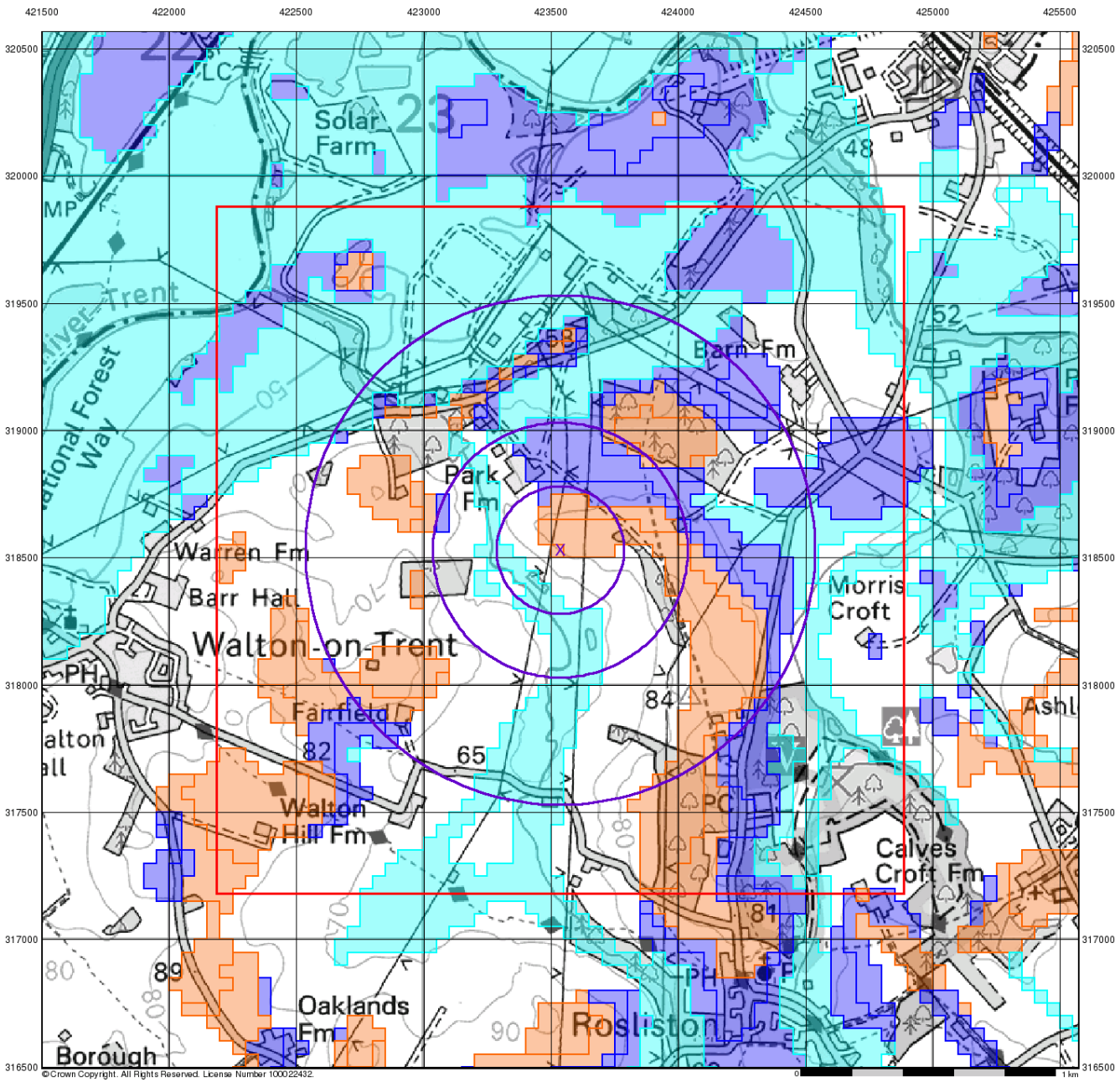

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BGS Flood GFS Data

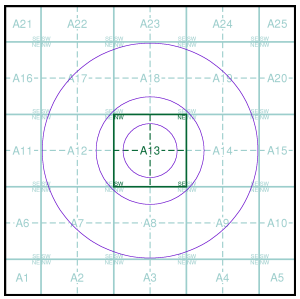
General

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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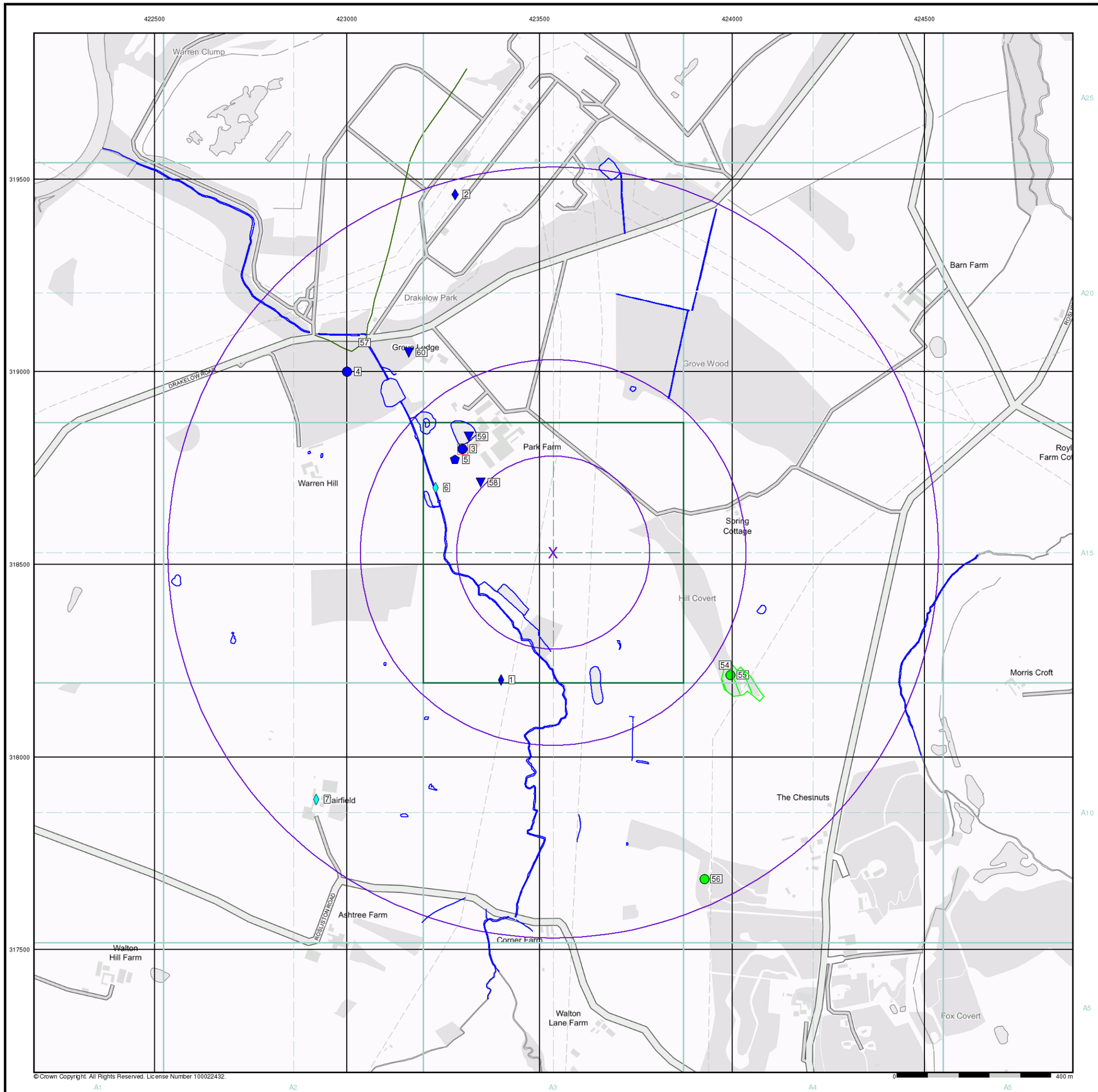

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General

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

Agency and Hydrological

- 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)
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- Potentially Infilled Land (Water)
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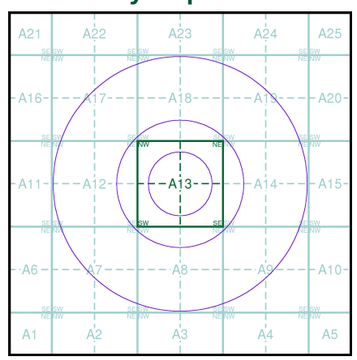
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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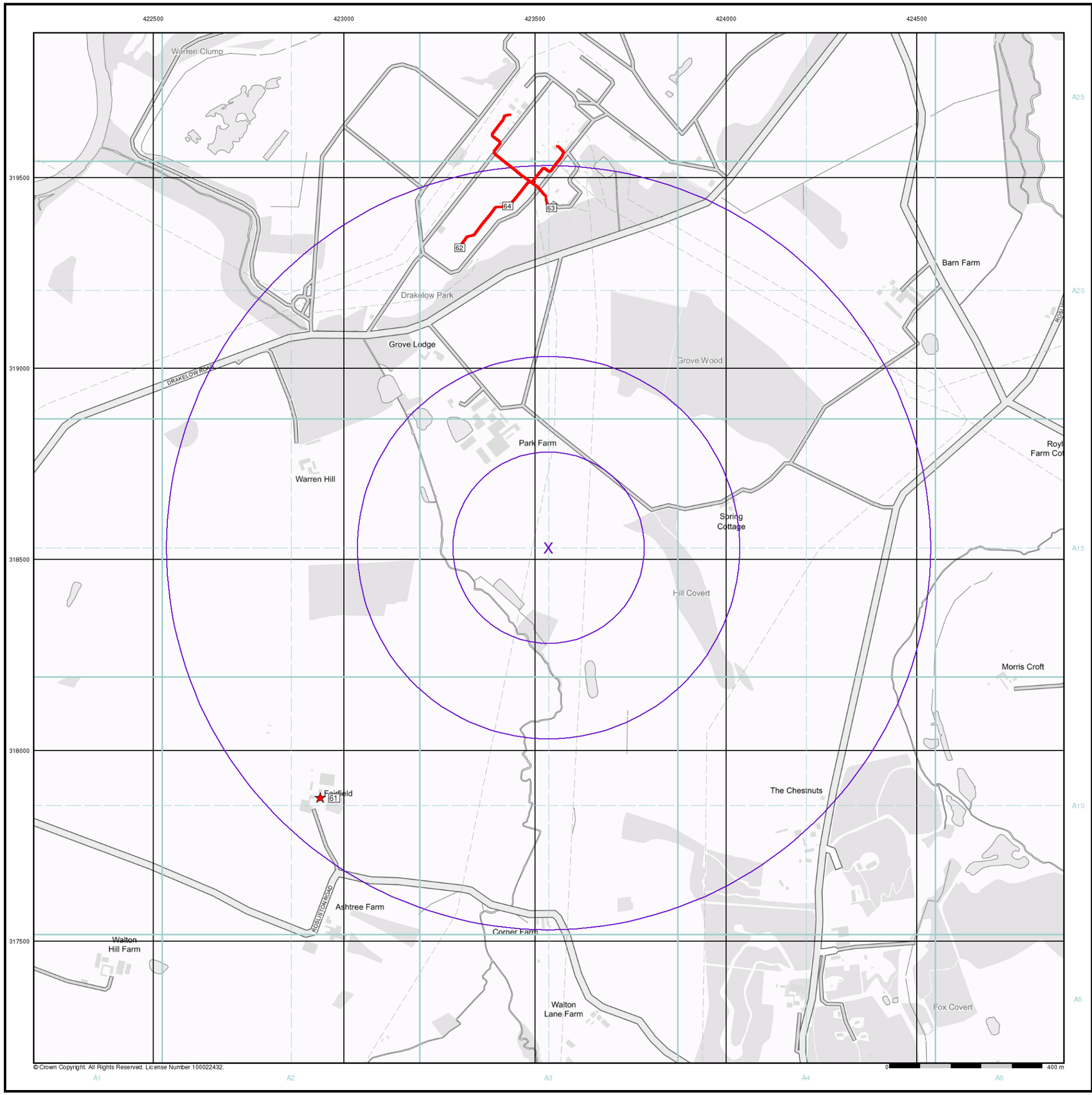

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Industrial Land Use Map

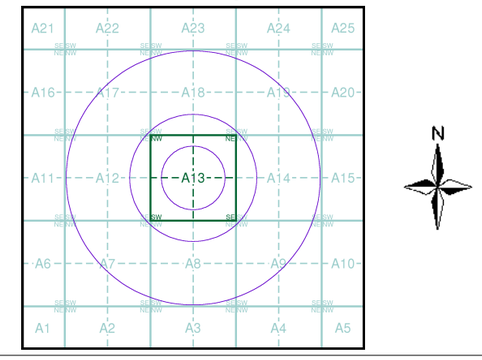
General

- 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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National Grid Reference:	423540, 318530
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Site Area (Ha):	0.01
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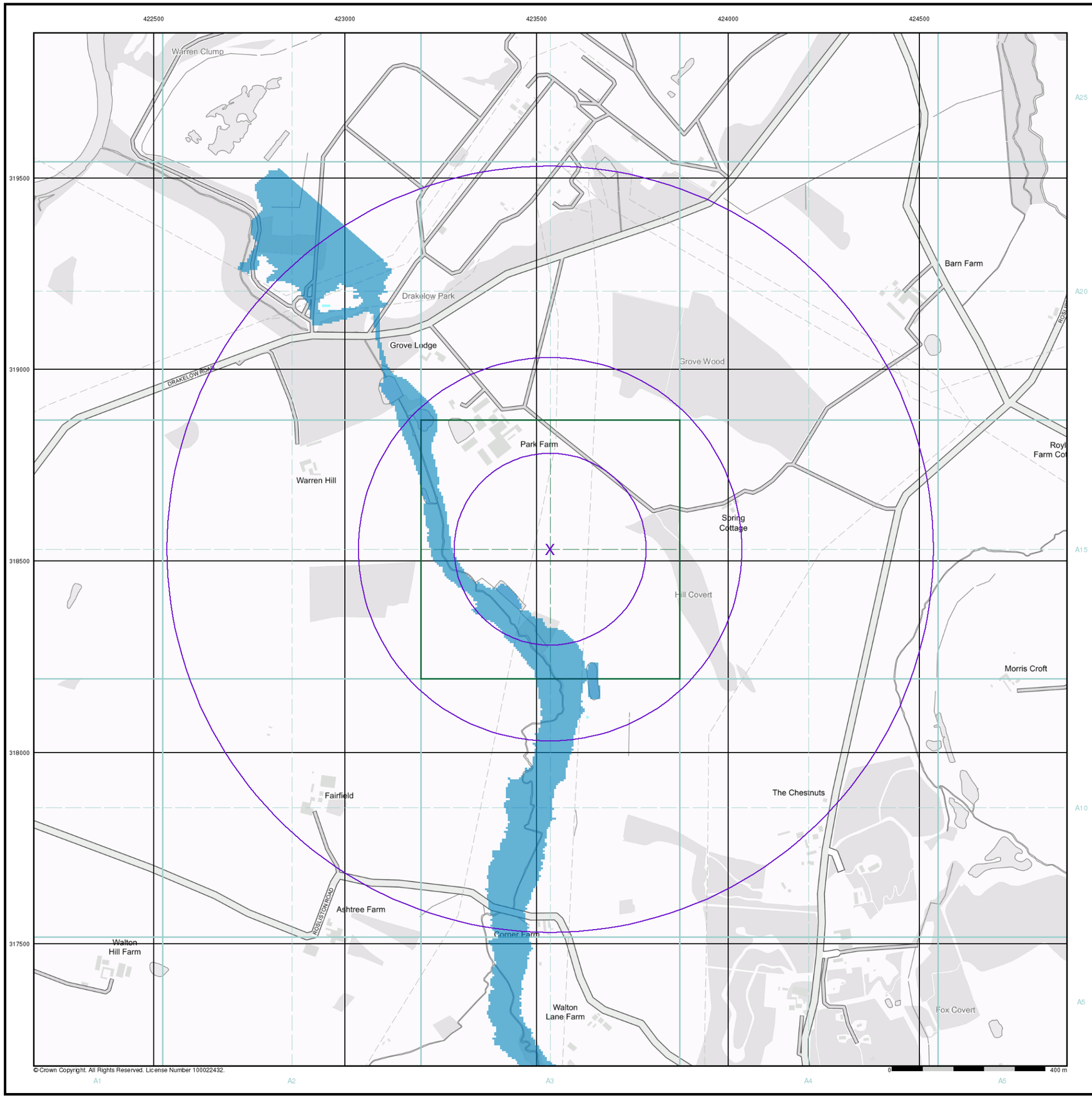

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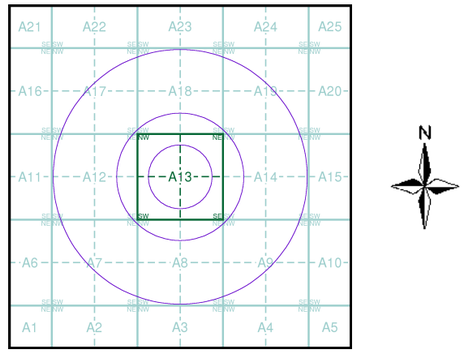
General

- 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:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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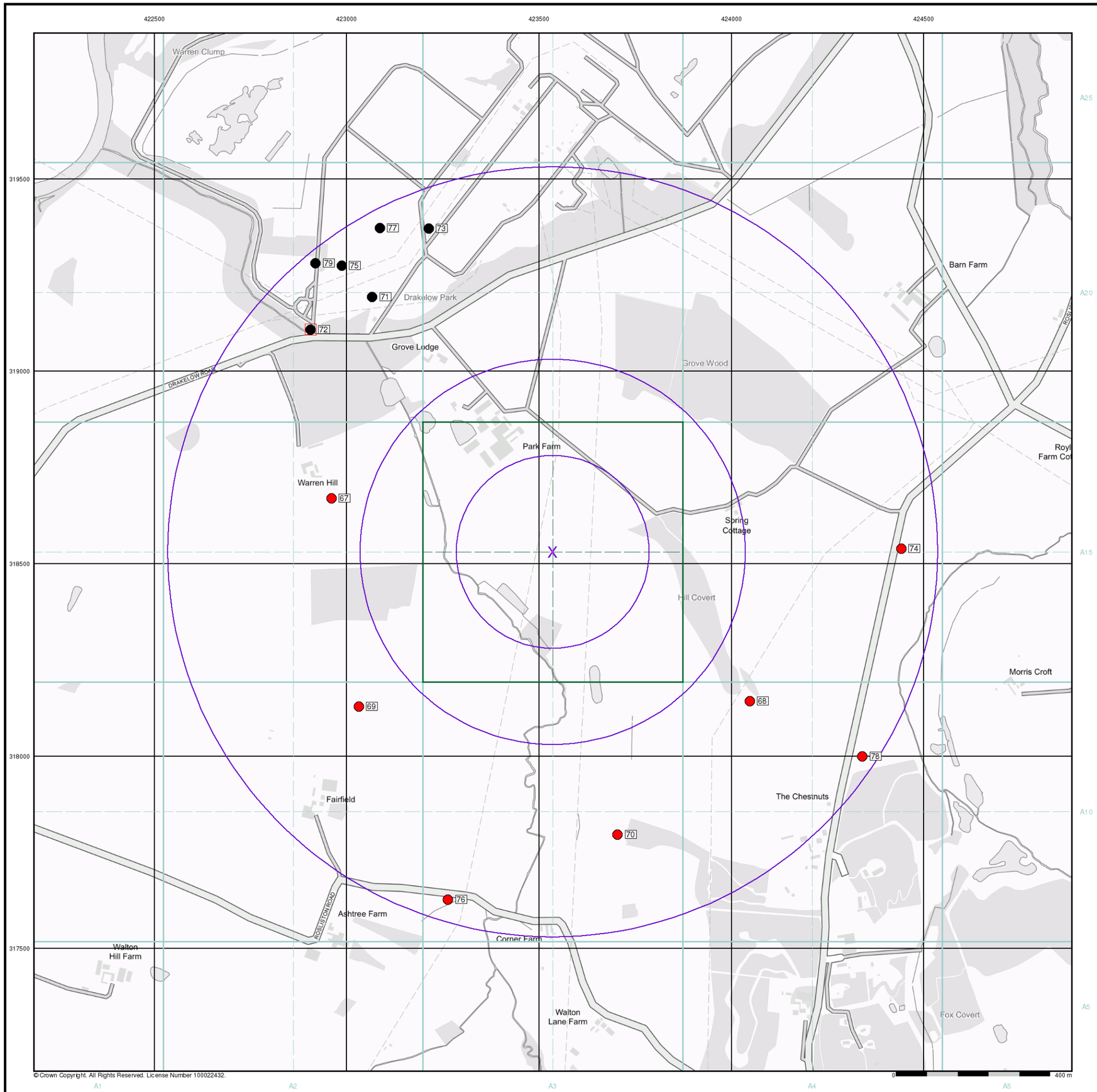

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General

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

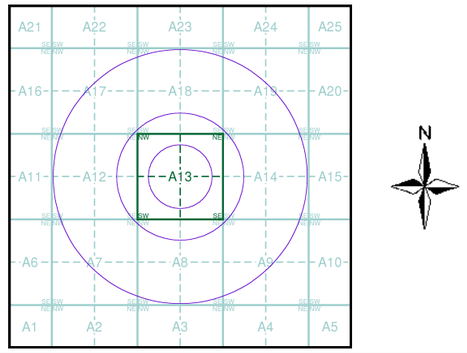
Agency and Hydrological (Boreholes)

- 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

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Customer Ref:	20209 - Oaklands - Park Lane
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Slice:	A
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Site Details

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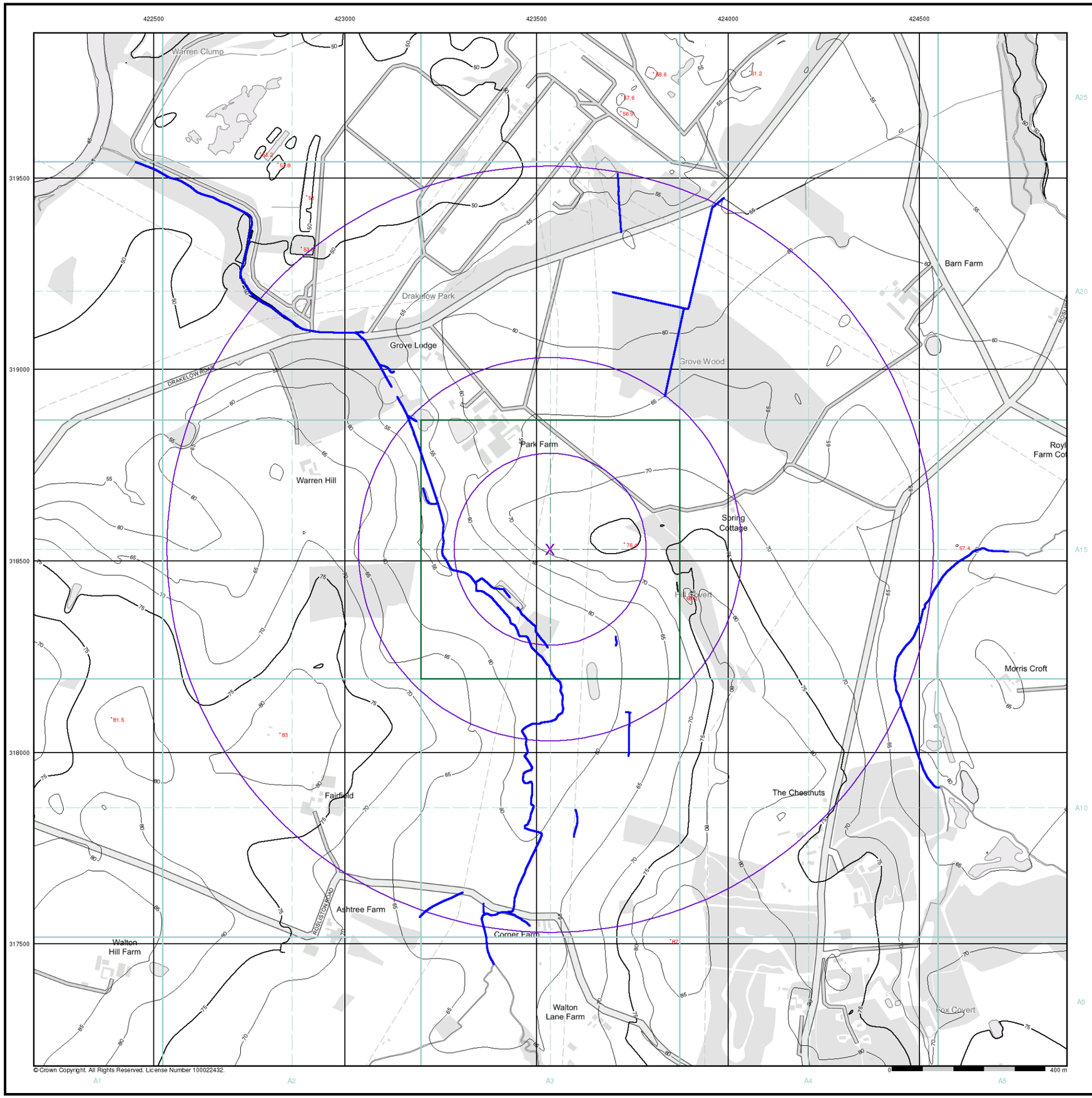

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General

- 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)

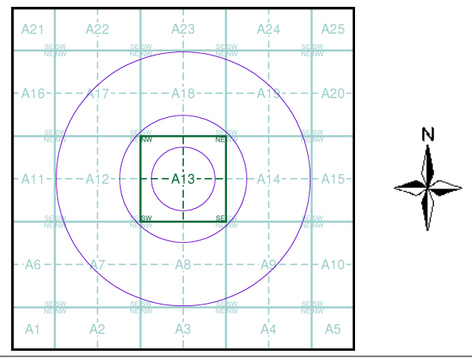
Standard Contour 105 100 95

Master Contour

Spot Height 167.3

- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



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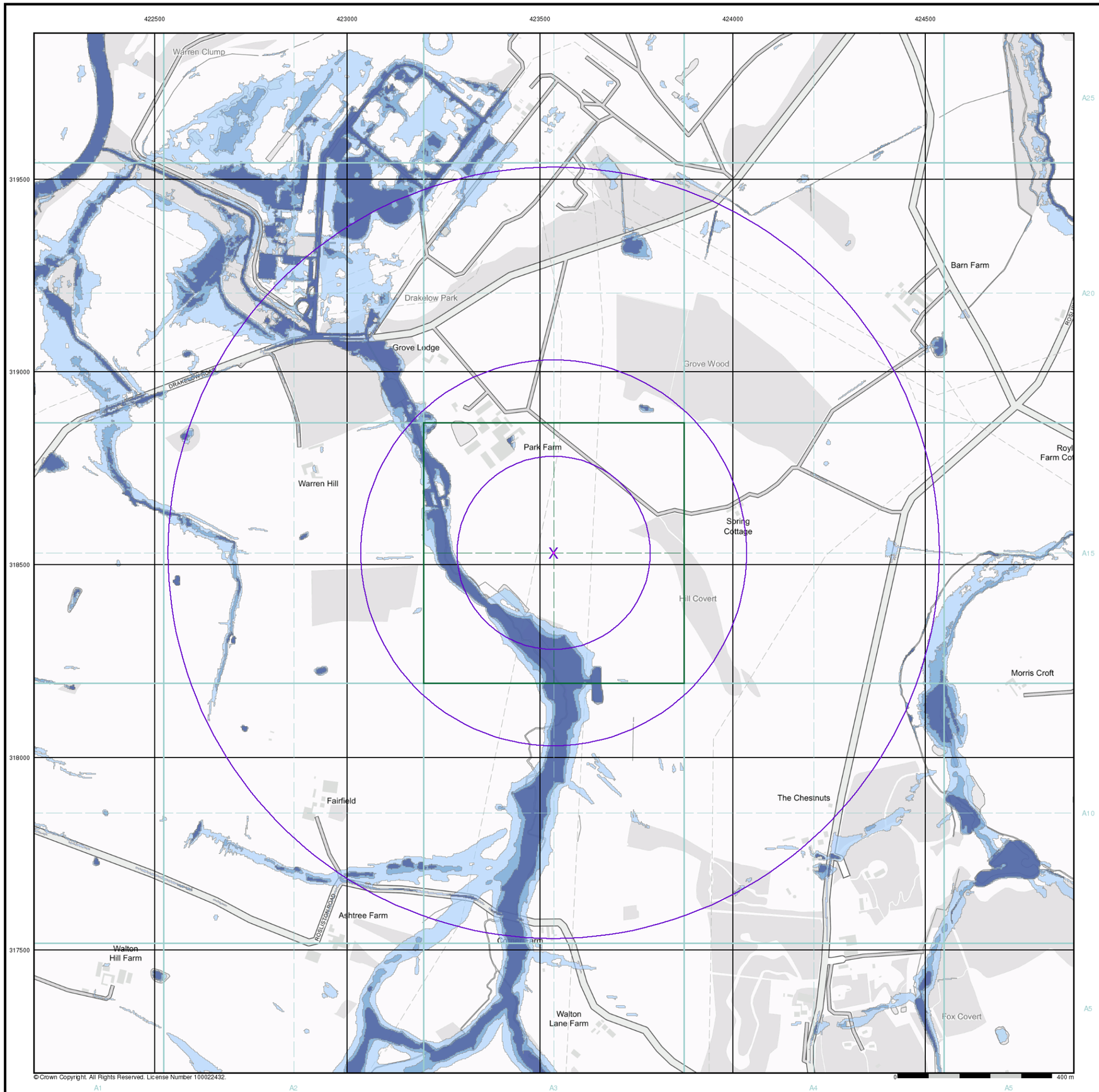

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General

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

Risk of Flooding from Surface Water

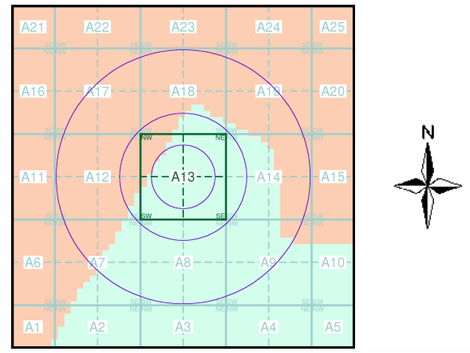
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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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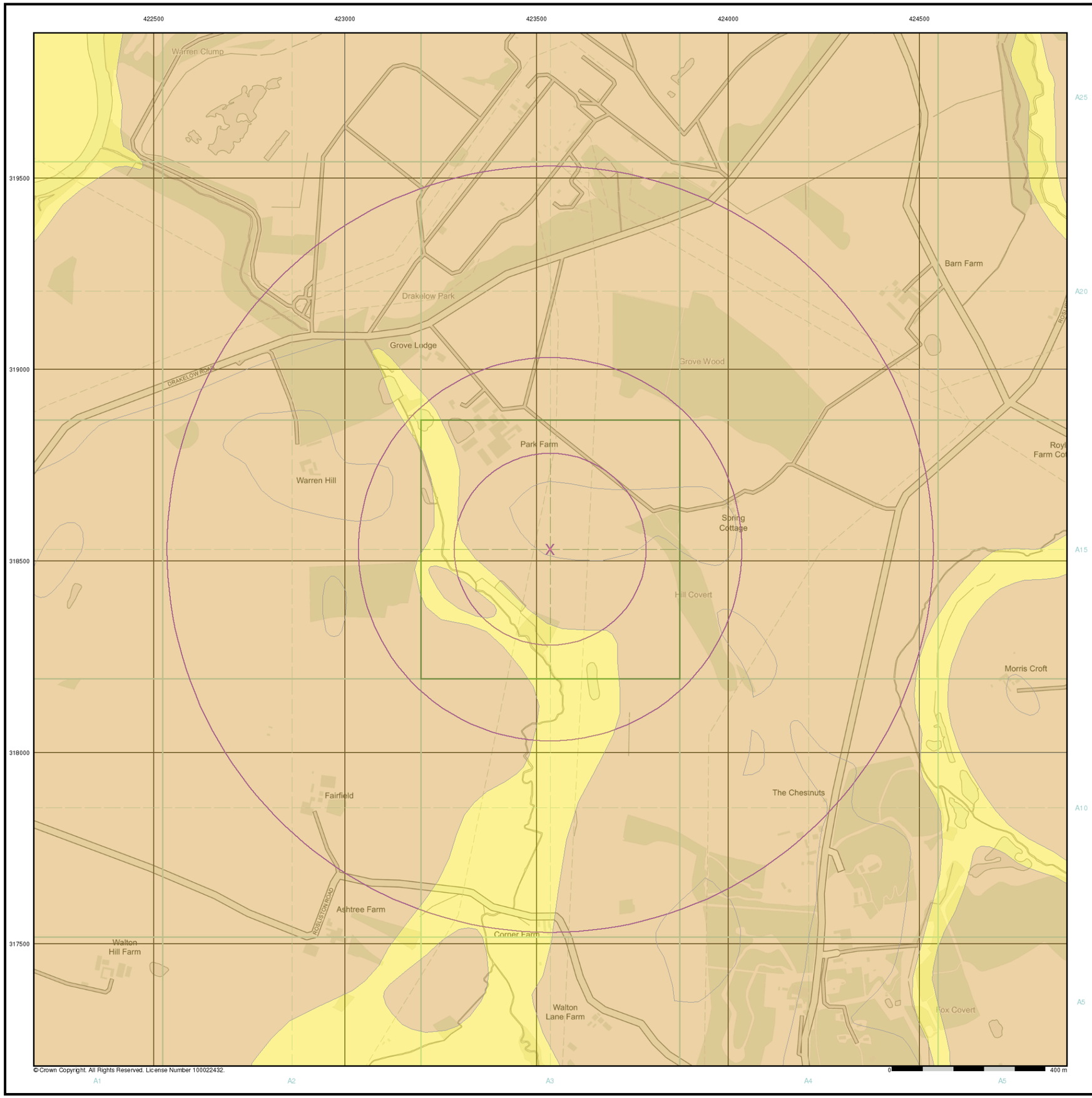

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General

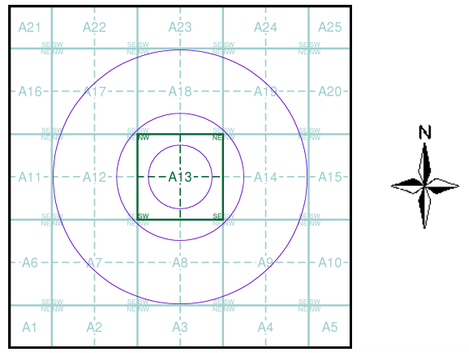
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

Order Details:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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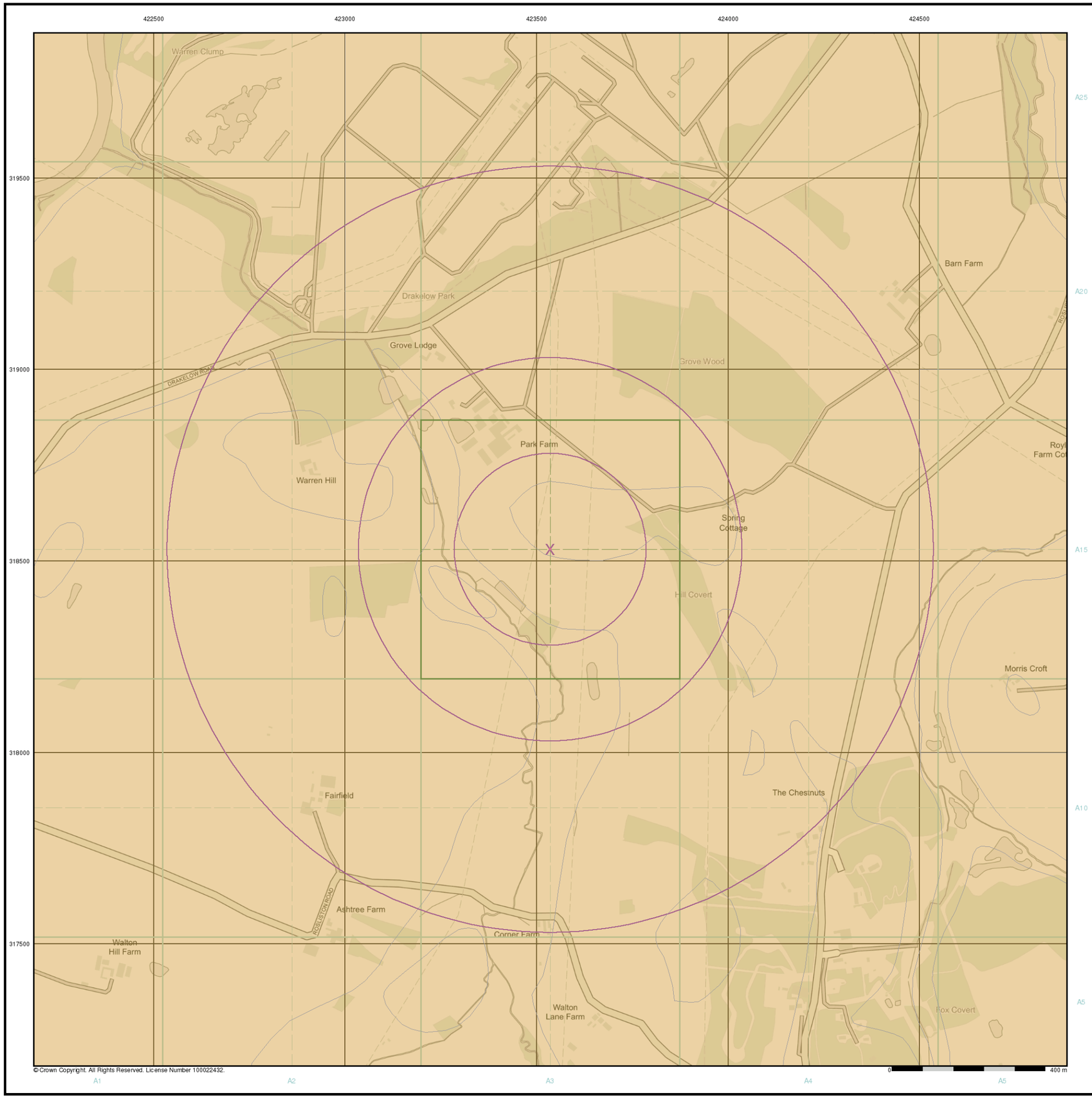

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General

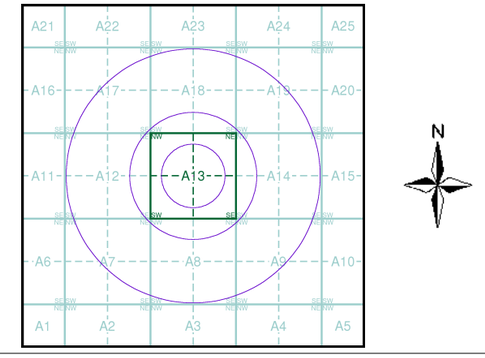
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

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Search Buffer (m):	1000

Site Details

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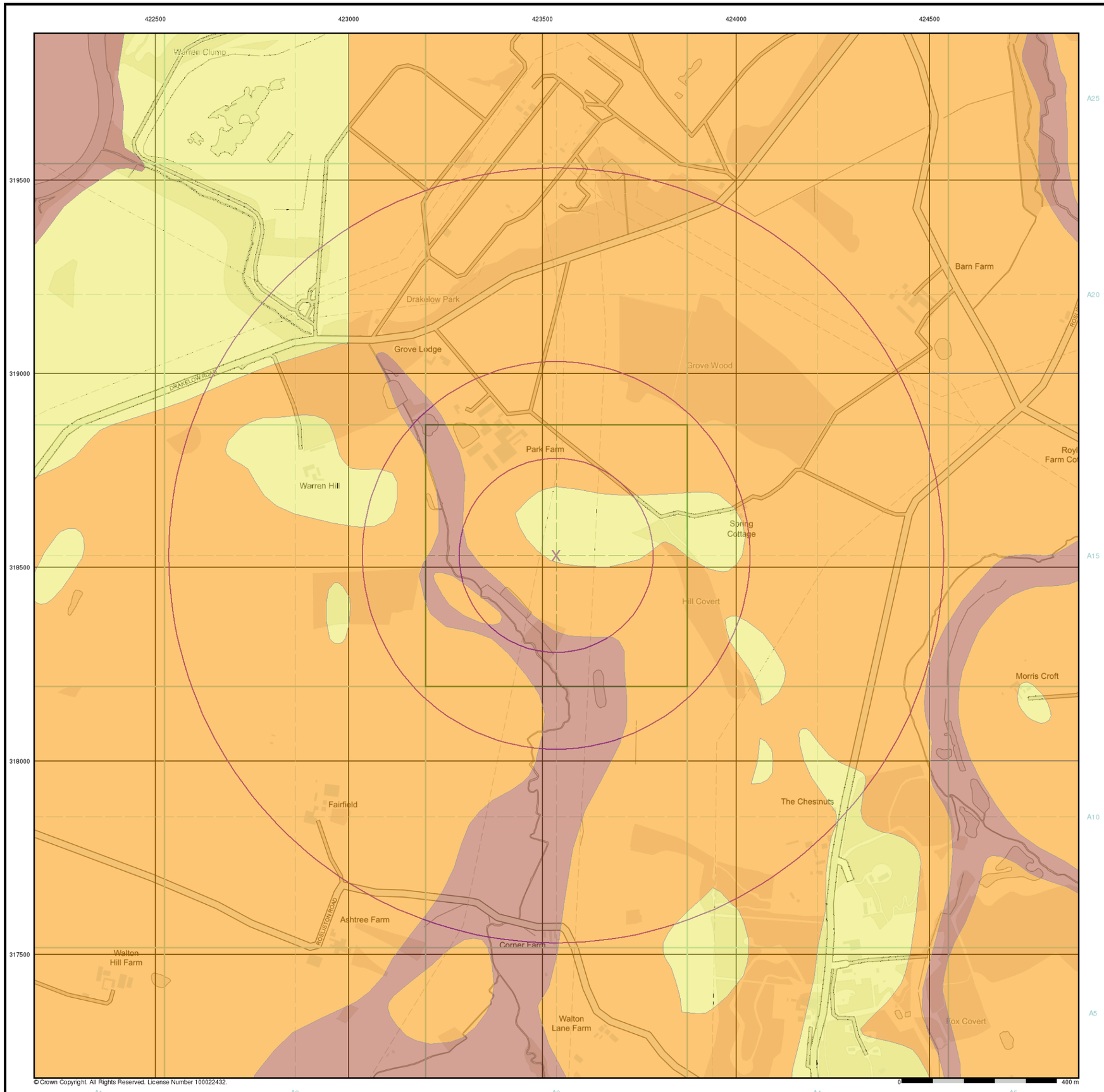

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General

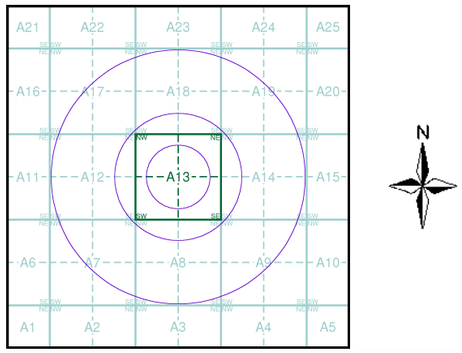
Specified Site Specified Buffer(s) X Bearing Reference Point

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



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Site Area (Ha):	0.01
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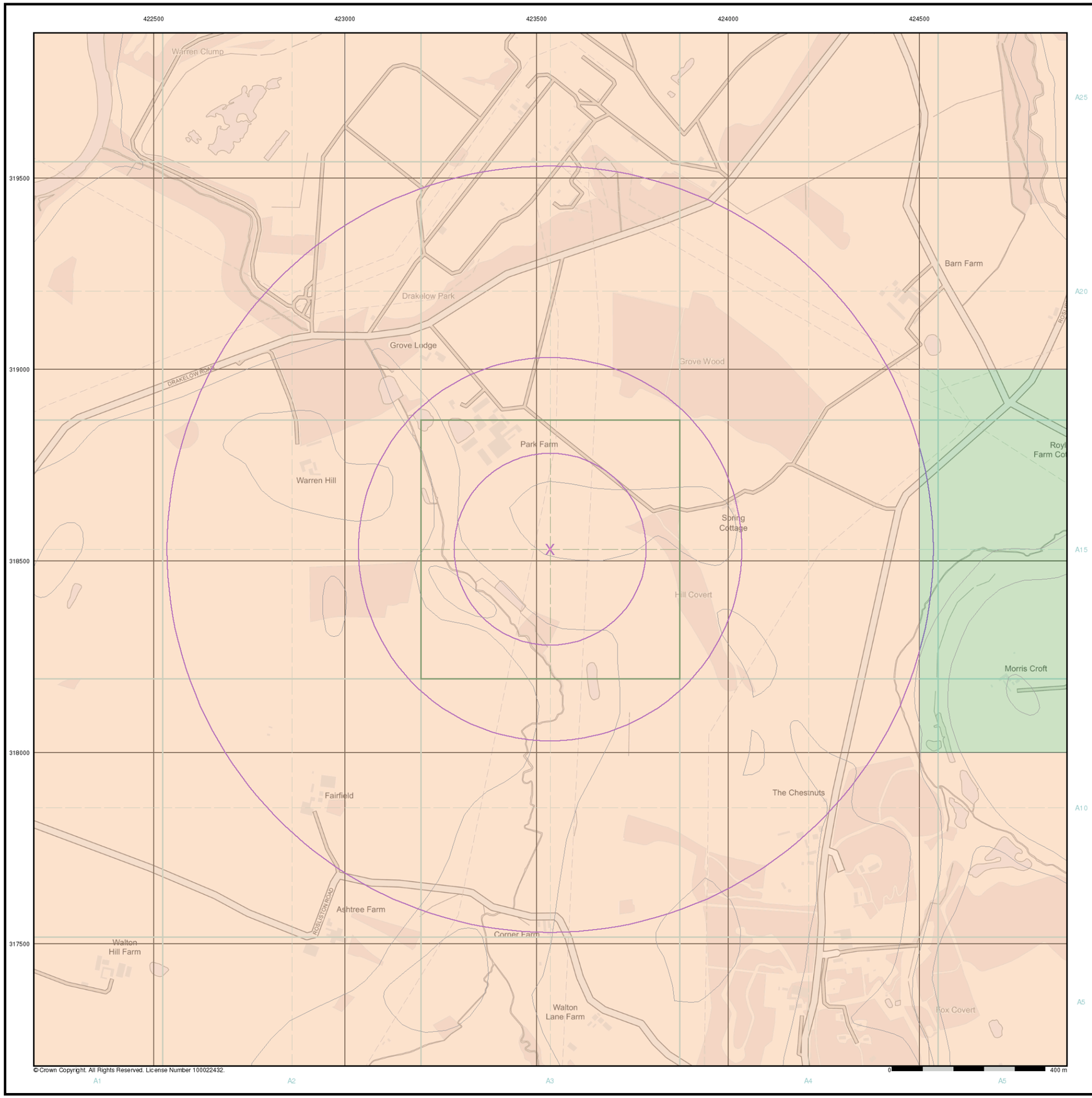

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General

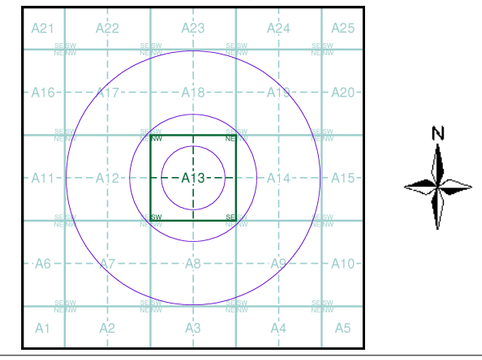
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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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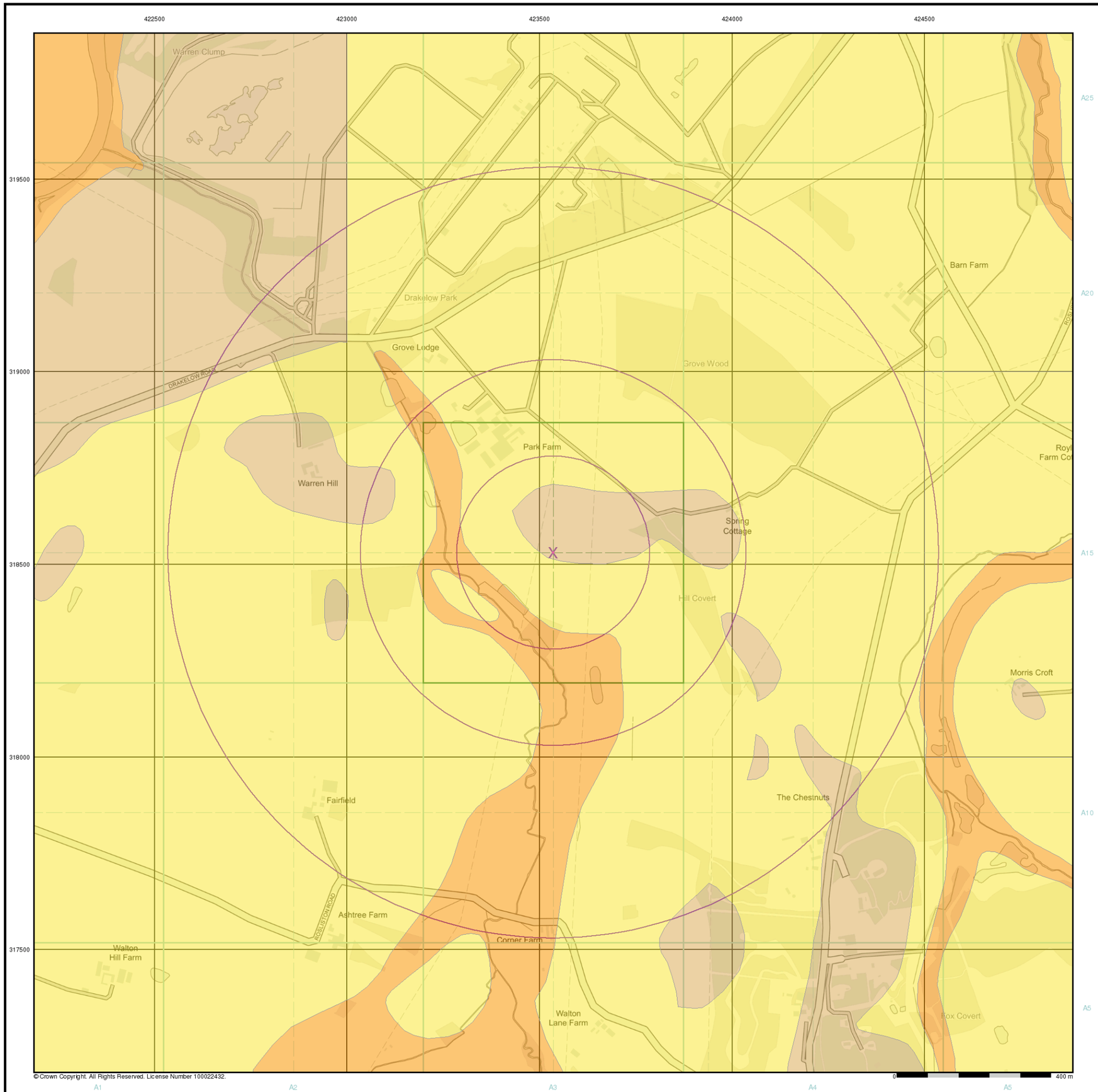

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General

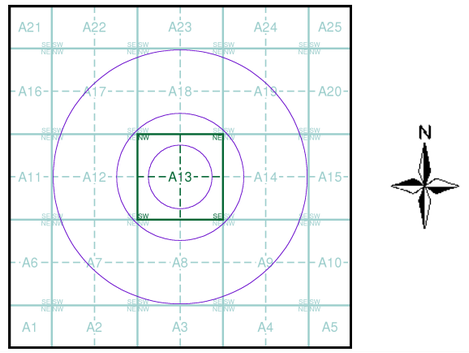
Specified Site | Specified Buffer(s) | X Bearing Reference Point

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



Order Details

Order Details:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
283096012_1_1

Customer Reference:
20209 - Oaklands - Park Lane

National Grid Reference:
423540, 318530

Slice:
A

Site Area (Ha):
0.01

Search Buffer (m):
1000

Site Details:

Badgers Rest, Drakelow
BURTON-ON-TRENT
DE15 9UG

Client Details:

Mr A Egan
Yellow Sub Geo Ltd
7 Neptune Courtt
Vangaurd Way
Cardiff
CF24 5PJ

Prepared For:

Cardiff
CF24 3PJ

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Contents

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	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2			1	1
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2			2	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 3			1	
Water Abstractions	pg 3			1	1 (*21)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 8	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 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 9		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 9		Yes	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 9		5	9	32

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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 15	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 15				3
Potentially Infilled Land (Water)	pg 15				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

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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 16	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 16	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18			2	1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 18	Yes	n/a	n/a	n/a
Mining Instability	pg 18	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 18		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 19	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 19	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 19		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					
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 20				1
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
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Underground Electrical Cables	pg 20				3

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Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 21			1	
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 21	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	423536 318531
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	15	1	423550 318531
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	118	1	423450 318450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	120	1	423536 318650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	174	1	423500 318700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	270	1	423300 318400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	270	1	423536 318800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (NE)	405	1	423700 318900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	432	1	423950 318650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	441	1	423400 318950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	442	1	423100 318600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	449	1	423850 318850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	451	1	423700 318950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	455	1	423800 318900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	465	1	424000 318550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	470	1	424000 318600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	471	1	423750 318950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	491	1	423050 318600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Sir Clifford Gothard Property Type: Not Given Location: Grove Farm Cottage, Drakelow, BURTON UPON TRENT, Staffordshire Authority: Environment Agency, Midlands Region Catchment Area: Not Given Reference: 3/28/24/2331/1 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 17th May 1973 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge Environment: Groundwater Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A13SW (S)	358	2	423400 318200
2	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Undefined Or Other Location: 400 Ft South Of Railway In Hospital, Lane, Swadlincote, Derbyshire Authority: Environment Agency, Midlands Region Catchment Area: Trent Catchment To Confluence With Dove Reference: Dt/4934 Permit Version: 1 Effective Date: 29th May 1963 Issued Date: 29th May 1963 Revocation Date: 1st March 2001 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Trent (Non Tidal) (Trib) **Status: Application refused - 1961 Rivers (Prevention of Pollution) Act** Positional Accuracy: Located by supplier to within 10m	A18NW (N)	964	2	423280 319460
	Nearest Surface Water Feature	A13SW (SW)	147	-	423433 318426
3	**Pollution Incidents to Controlled Waters** Property Type: Arable Location: Drakelow Walton Road, Grove Lodge Authority: Environment Agency, Midlands Region Pollutant: Oils - Diesel (Including Agricultural) Note: Amenity Affected; Trent Tributary; Diesel From Pump Incident Date: 5th August 1996 Incident Reference: 2700196 Catchment Area: Trent Catchment : Trent To Confluence With Dove Receiving Water: Pond/Lake Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	355	2	423300 318795
3	**Pollution Incidents to Controlled Waters** Property Type: Arable Location: Grid Ref Sk 2322 1870, WALTON-ON-TRENT Authority: Environment Agency, Midlands Region Pollutant: Oils - Gas Oil Note: Other Adverse Effects; Tributary Of Trent; Diesel Spill After Vandalism Of Pumps Incident Date: 2nd August 1996 Incident Reference: 2701220 Catchment Area: Trent Catchment : Trent To Confluence With Dove Receiving Water: Watercourse Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	358	2	423300 318800
4	**Pollution Incidents to Controlled Waters** Property Type: Power Generation/Distribution Location: Power Station, DRAKELOW Authority: Environment Agency, Midlands Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Oil To Watercourse From Power Station; No Adverse Effects Incident Date: 2nd April 1998 Incident Reference: 2704200 Catchment Area: Trent Catchment : Trent To Confluence With Dove Receiving Water: Watercourse Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	713	2	423000 319000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, East Area Incident Date: 2nd November 2001 Incident Reference: 41173 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert Materials And Wastes: Soils And Clay	A13NW (NW)	358	2	423280 318780
6	**Water Abstractions** Operator: J H & C J N Williams Licence Number: 03/28/24/0101 Permit Version: 100 Location: River Trent - Unnamed Tributary At Walton Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barr Hall Farm, Walton-On-Trent Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 28th January 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	350	2	423230 318700
7	**Water Abstractions** Operator: S E Avery & Son Licence Number: 03/28/24/0099 Permit Version: 100 Location: Fairfields Farm - Borehole Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fairfields Farm - Borehole Authorised Start: 01 March Authorised End: 30 April Permit Start Date: 15th July 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	889	2	422920 317890
	Water Abstractions Operator: Forestry Commission Licence Number: 03/28/24/0141/1 Permit Version: 1 Location: Rosliston Forestry Centre - Unnamed Trib Of Darklands Brook Authority: Environment Agency, Midlands Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rosliston Forestry Centre, Burton Road, Rosliston, S. Derbyshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (SE)	1483	2	424790 317740
	Water Abstractions Operator: Forest Enterprises Licence Number: 03/28/24/0141 Permit Version: 1 Location: Rosliston Forestry Centre - Unnamed Trib Of Darklands Brook Authority: Environment Agency, Midlands Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Rosliston Forestry Centre, Burton Road, Rosliston, S. Derbyshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SW (SE)	1483	2	424790 317740

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mountford Partners Licence Number: 03/28/24/0059/G Permit Version: 100 Location: Royle Farm,Drakelow - Well Authority: Environment Agency, Midlands Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royle Farm, Drakelow - Well Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 18th June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1489	2	425000 318800
	Water Abstractions Operator: Bjb Farming Limited Licence Number: Md/028/0024/001 Permit Version: 1 Location: Land At Drakelow Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 March Authorised End: 30 September Permit Start Date: 1st April 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21SE (NW)	1564	2	422350 319550
	Water Abstractions Operator: Mallaber Partners Licence Number: 03/28/24/0068 Permit Version: 100 Location: Drakelow Mill Brook - Point A Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barn Farm, Drakelow Authorised Start: 01 May Authorised End: 31 August Permit Start Date: 8th July 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A20NW (NE)	1594	2	424800 319500
	Water Abstractions Operator: D W Allen Licence Number: 03/28/24/0102 /1 Permit Version: Not Supplied Location: Land At Drakelow Authority: Environment Agency, Midlands Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 182 Yearly Rate (m3): 2727 Details:]Text]; 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	A20NE (NE)	1618	2	424900 319400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G, D H & L E Mycock Licence Number: 03/28/24/0052 Permit Version: 100 Location: Unnamed Tributary Of River Trent At Flint Mill Farm Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Flint Mill Farm - Tributary Of River Trent Authorised Start: 01 February Authorised End: 31 October Permit Start Date: 28th April 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A20NE (NE)	1628	2	424970 319300
	Water Abstractions Operator: Mallaber Partners Licence Number: 03/28/24/0068 Permit Version: 100 Location: Drakelow Mill Brook - Point B Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barn Farm, Drakelow Authorised Start: 01 May Authorised End: 31 August Permit Start Date: 8th July 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SW (NE)	1656	2	424800 319600
	Water Abstractions Operator: Mountford Partners Licence Number: 03/28/24/0059/S Permit Version: 100 Location: Royle Farm,Drakelow - Darklands Brook (A) Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royle Farm, Drakelow - Darklands Brook Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 18th June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SW (NE)	1656	2	424800 319600
	Water Abstractions Operator: Mallaber Partners Licence Number: 03/28/24/0068 Permit Version: 100 Location: Drakelow Mill Brook - Point C Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barn Farm, Drakelow Authorised Start: 01 May Authorised End: 31 August Permit Start Date: 8th July 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SW (NE)	1723	2	424700 319800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Forestry Commission Licence Number: 03/28/24/01091 Permit Version: Not Supplied Location: Tributary Of River Trent, Roliston Farm Forestry Centre Authority: Environment Agency, Midlands Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Trent Catchment To Confluence With Dove 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	A4SE (SE)	1734	2	424350 317000
	Water Abstractions Operator: Roger Bullivant Limited Licence Number: 03/28/24/0116 Permit Version: 1 Location: Roger Bullivant Limited, Drakelow - Darklands Brook Authority: Environment Agency, Midlands Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Roger Bullivant Limited - Darklands Brook Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1844	2	424360 320180
	Water Abstractions Operator: Branston Golf Club Ltd Licence Number: 03/28/24/0104 Permit Version: 100 Location: River Trent Authority: Environment Agency, Midlands Region Abstraction: Golf Courses: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Branston Golf Club Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th June 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1875	2	423300 320390
	Water Abstractions Operator: Roger Bullivant Limited Licence Number: 03/28/24/0116 Permit Version: 1 Location: Roger Bullivant Limited, Drakelow - Darklands Brook Authority: Environment Agency, Midlands Region Abstraction: Construction: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Roger Bullivant Limited - Darklands Brook Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1886	2	424450 320180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mountford Partners Licence Number: 03/28/24/0059/S Permit Version: 100 Location: Royle Farm,Drakelow - Darklands Brook (B) Authority: Environment Agency, Midlands Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Royle Farm, Drakelow - Darklands Brook Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 18th June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1925	2	425300 319300
	Water Abstractions Operator: Branston Golf Club Ltd Licence Number: 03/28/24/0100 /1 Permit Version: Not Supplied Location: Branston Golf Course Authority: Environment Agency, Midlands Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 80 Yearly Rate (m3): 8000 Details: Not Supplied 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	(N)	1931	2	423250 320440
	Water Abstractions Operator: Powergen Licence Number: 03/28/24/0054 /1 Permit Version: Not Supplied Location: Drakelow Power Station Authority: Environment Agency, Midlands Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 872832 Yearly Rate (m3): 25000000 Details: River Trent 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	A21NE (NW)	1936	2	422390 320090
	Water Abstractions Operator: E.On Uk Plc Licence Number: 03/28/24/0108 Permit Version: 102 Location: Drakelow Power Station - River Trent Authority: Environment Agency, Midlands Region Abstraction: Production of Energy: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Drakelow Power Station, Drakelow Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1944	2	422390 320100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: E On Uk Plc Licence Number: 03/28/24/0108 Permit Version: 103 Location: Drakelow Power Station - River Trent Authority: Environment Agency, Midlands Region Abstraction: Production of Energy: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Drakelow Power Station, Drakelow Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th July 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1944	2	422390 320100
	Water Abstractions Operator: Txu Europe Merchant Generation Ltd Licence Number: 03/28/24/0108 Permit Version: 101 Location: Drakelow Power Station - River Trent Authority: Environment Agency, Midlands Region Abstraction: Production of Energy: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Drakelow Power Station, Drakelow Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NE (NW)	1944	2	422390 320100
	Water Abstractions Operator: Eastern Merchant Generation Ltd Licence Number: 03/28/24/0108 Permit Version: 100 Location: Drakelow Power Station - River Trent Authority: Environment Agency, Midlands Region Abstraction: Production of Energy: Process water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Drakelow Power Station, Drakelow Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 24th December 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21NE (NW)	1944	2	422390 320100
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: High	A13SW (W)	0	3	423536 318531
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SW (W)	0	3	423536 318531
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	3	423536 318531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	146	2	423435 318425
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	146	2	423435 318425
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
8	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 92.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SW (SW)	161	4	423414 318427
9	**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: Trent Primacy: 1	A13SW (SW)	177	4	423392 318428
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 124.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SW (SW)	179	4	423457 318370
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1162.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SW (SW)	199	4	423387 318399
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 256.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SW (SW)	214	4	423340 318444
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13SE (SE)	286	4	423707 318302
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (W)	318	4	423242 318651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 242.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A13NW (W)	318	4	423242 318651
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8NE (SE)	470	4	423734 318105
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8NE (SE)	475	4	423743 318104
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8NE (SE)	475	4	423743 318104
19	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 33.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A12NE (NW)	479	4	423190 318861
20	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8NE (SE)	486	4	423743 318091
21	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8NE (SE)	489	4	423743 318088
22	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 233.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18SE (NE)	501	4	423836 318931
23	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	512	4	423162 318880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	558	4	423139 318923
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	618	4	423128 318995
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	620	4	423122 318992
27	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	621	4	423108 318979
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	655	4	423092 319012
29	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	656	4	423090 319012
30	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SE (S)	685	4	423602 317850
31	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18SE (N)	691	4	423699 319201
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19SW (NE)	717	4	423876 319161

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 58.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19SW (NE)	720	4	423885 319159
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	747	4	423048 319096
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	756	4	423036 319097
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	758	4	423033 319097
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	760	4	423028 319096
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	771	4	423908 319206
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 216.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	777	4	423909 319211
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	833	4	422927 319098
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NE (N)	849	4	423722 319359

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 726.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A17SE (NW)	853	4	422903 319102
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 129.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	927	4	423307 317633
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	942	4	423361 317605
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NE (N)	950	4	423714 319463
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 815.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A14SE (E)	951	4	424441 318241
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A18NE (N)	953	4	423714 319466
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	955	4	423419 317583
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	955	4	423419 317583
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	958	4	423436 317578

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	959	4	423440 317577
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A8SW (S)	970	4	423365 317577
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A19NW (NE)	987	4	423959 319422

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Derbyshire District Council - Has no landfill data to supply		0	5	423536 318531
	Local Authority Landfill Coverage Name: Derbyshire County Council - Had landfill data but passed it to the relevant environment agency		0	6	423536 318531
54	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SW (SE)	535	9	423982 318236
55	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14SW (SE)	559	9	423996 318213
56	**Potentially Infilled Land (Non-Water)** Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9SW (SE)	934	9	423928 317683
57	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A17SE (NW)	734	9	423045 319076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (W)	0	1	423536 318531
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A13SW (W)	0	1	423536 318531
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (S)	16	1	423532 318515
	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: 30 - 45 mg/kg	A13SW (SW)	152	1	423427 318426
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	207	1	423390 318385
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12NE (W)	435	1	423115 318642
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A14SW (E)	466	1	423971 318366

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 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A12SE (W)	546	1	423002 318420
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A9NW (SE)	706	1	424061 318059
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A17SE (NW)	765	1	423000 319076
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A9NW (SE)	775	1	424164 318078
	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: 20 - 40 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A9SW (SE)	949	1	423940 317673
	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: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SE (E)	965	1	424500 318531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**BGS Recorded Mineral Sites** Site Name: Warren Hill Location: Walton On Trent, Burton Upon Trent, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 34698 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	266	1	423347 318717
59	**BGS Recorded Mineral Sites** Site Name: Warren Hill Location: Walton On Trent, Burton Upon Trent, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 34699 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	377	1	423316 318836
60	**BGS Recorded Mineral Sites** Site Name: Warren Hill Location: Walton On Trent, Burton Upon Trent, Derbyshire Source: British Geological Survey, National Geoscience Information Service Reference: 34697 Type: Opencast **Status: Ceased** Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Mercia Mudstone Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	645	1	423160 319054
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (W)	0	7	423536 318531
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (W)	0	-	423536 318531
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	152	1	423427 318426
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	152	1	423427 318426
	Potential for Compressible Ground Stability Hazards Hazard Potential: High Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	207	1	423390 318385

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	16	1	423532 318515
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	152	1	423427 318426
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	207	1	423390 318385
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	152	1	423427 318426
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	153	1	423429 318640
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	207	1	423390 318385
	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	A13SW (W)	0	1	423536 318531
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	423536 318531

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**Points of Interest - Manufacturing and Production** Name: P J Avery Location: Rosliston Road, Walton-on-Trent, Swadlincote, DE12 8LR Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A7NE (SW)	888	8	422938 317875
62	**Underground Electrical Cables** Unique Feature Identifier: 10055177 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 12th February 2019	A18NW (N)	820	9	423303 319317
63	**Underground Electrical Cables** Unique Feature Identifier: 10007423 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 27th October 2017	A18NE (N)	890	9	423543 319420
64	**Underground Electrical Cables** Unique Feature Identifier: 10055178 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 12th February 2019	A18NW (N)	902	9	423429 319426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	**Ancient Woodland** Name: Grove Wood Reference: 1104715 Area(m²): 132311.05 Type: Ancient and Semi-Natural Woodland	A18SE (NE)	447	10	423729 318933
66	**Nitrate Vulnerable Zones** Name: River Trent (Source To Confluence With Derwent) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (W)	0	3	423536 318531

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	June 2020	Annually
Lichfield District Council - Pollution Control	October 2017	Annual Rolling Update
South Derbyshire District Council - Environmental Health Department	October 2017	Annual Rolling Update
North West Leicestershire District Council - Environmental Protection Department	September 2014	Annual Rolling Update
East Staffordshire Borough Council - Environmental Health Department	September 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	April 2021	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - Midlands Region	March 2013	
Integrated Pollution Controls		
Environment Agency - Midlands Region	January 2009	
Integrated Pollution Prevention And Control		
Environment Agency - Midlands Region	April 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control		
South Derbyshire District Council - Environmental Health Department	January 2015	Variable
North West Leicestershire District Council - Environmental Health Department	July 2014	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
East Staffordshire Borough Council - Environmental Health Department	October 2014	Variable
Local Authority Pollution Prevention and Controls		
South Derbyshire District Council - Environmental Health Department	January 2015	Annual Rolling Update
North West Leicestershire District Council - Environmental Health Department	July 2014	Annual Rolling Update
Lichfield District Council - Environmental Health Department	March 2014	Annual Rolling Update
East Staffordshire Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
South Derbyshire District Council - Environmental Health Department	January 2015	Variable
North West Leicestershire District Council - Environmental Health Department	July 2014	Variable
Lichfield District Council - Environmental Health Department	March 2014	Variable
East Staffordshire Borough Council - Environmental Health Department	October 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	June 2021	
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	
Prosecutions Relating to Authorised Processes		
Environment Agency - Midlands Region	July 2015	
Prosecutions Relating to Controlled Waters		
Environment Agency - Midlands Region	March 2013	
Registered Radioactive Substances		
Environment Agency - Midlands Region	June 2016	Annually
River Quality		
Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points		
Environment Agency - Head Office	April 2012	Annually
River Quality Chemistry Sampling Points		
Environment Agency - Head Office	April 2012	Annually
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - Central Area	April 2021	Quarterly
Environment Agency - Midlands Region - East Area	April 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	April 2021	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	April 2021	Quarterly

Data Currency

Agency & Hydrological	Version	Update Cycle
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	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	July 2021	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	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	November 2002	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	May 2021	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Midlands Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Midlands Region - Central Area	April 2021	Quarterly
Environment Agency - Midlands Region - East Area	April 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	April 2021	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - Central Area	April 2021	Quarterly
Environment Agency - Midlands Region - East Area	April 2021	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	April 2021	Quarterly
Environment Agency - Midlands Region - Upper Trent Area	April 2021	Quarterly
Local Authority Landfill Coverage		
Derbyshire County Council	February 2003	Not Applicable
East Staffordshire Borough Council - Environmental Health Department	February 2003	Not Applicable
Leicestershire County Council	February 2003	Not Applicable
Lichfield District Council	February 2003	Not Applicable
North West Leicestershire District Council - Environmental Health Department	February 2003	Not Applicable
South Derbyshire District Council	February 2003	Not Applicable
Staffordshire County Council - Waste Management	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Derbyshire County Council	October 2018	
East Staffordshire Borough Council - Environmental Health Department	October 2018	
Leicestershire County Council	October 2018	
Lichfield District Council	October 2018	
North West Leicestershire District Council - Environmental Health Department	October 2018	
South Derbyshire District Council	October 2018	
Staffordshire County Council - Waste Management	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - Midlands Region - Central Area	March 2006	Not Applicable
Environment Agency - Midlands Region - East Area	March 2006	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2006	Not Applicable
Environment Agency - Midlands Region - Upper Trent Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - Central Area	April 2018	
Environment Agency - Midlands Region - East Area	April 2018	
Environment Agency - Midlands Region - Lower Trent Area	April 2018	
Environment Agency - Midlands Region - Upper Trent Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - Central Area	June 2015	
Environment Agency - Midlands Region - East Area	June 2015	
Environment Agency - Midlands Region - Lower Trent Area	June 2015	
Environment Agency - Midlands Region - Upper Trent Area	June 2015	

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	August 2001	
Planning Hazardous Substance Enforcements		
Derbyshire County Council	February 2016	Variable
East Staffordshire Borough Council - Planning Department	February 2016	Variable
Leicestershire County Council	February 2016	Variable
Lichfield District Council - Planning Department	February 2016	Variable
North West Leicestershire District Council	February 2016	Variable
South Derbyshire District Council	February 2016	Variable
Staffordshire County Council	February 2016	Variable
Planning Hazardous Substance Consents		
Derbyshire County Council	February 2016	Variable
East Staffordshire Borough Council - Planning Department	February 2016	Variable
Leicestershire County Council	February 2016	Variable
Lichfield District Council - Planning Department	February 2016	Variable
North West Leicestershire District Council	February 2016	Variable
South Derbyshire District Council	February 2016	Variable
Staffordshire County Council	February 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	December 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	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	April 2020	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	July 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2021	Quarterly
Gas Pipelines National Grid	May 2021	Annually
Points of Interest - Commercial Services PointX	June 2021	Quarterly
Points of Interest - Education and Health PointX	June 2021	Quarterly
Points of Interest - Manufacturing and Production PointX	June 2021	Quarterly
Points of Interest - Public Infrastructure PointX	June 2021	Quarterly
Points of Interest - Recreational and Environmental PointX	June 2021	Quarterly
Underground Electrical Cables National Grid	May 2021	Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt		
East Staffordshire Borough Council	October 2020	Quarterly
Lichfield District Council	October 2020	Quarterly
North West Leicestershire District Council	October 2020	Quarterly
South Derbyshire District Council	October 2020	Quarterly
Areas of Unadopted Green Belt		
East Staffordshire Borough Council	October 2020	Quarterly
Lichfield District Council	October 2020	Quarterly
North West Leicestershire District Council	October 2020	Quarterly
South Derbyshire District Council	October 2020	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	February 2021	Bi-Annually
Marine Nature Reserves		
Natural England	July 2019	Bi-Annually
National Nature Reserves		
Natural England	January 2021	Bi-Annually
National Parks		
Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	June 2017	Bi-Annually
Ramsar Sites		
Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest		
Natural England	February 2021	Bi-Annually
Special Areas of Conservation		
Natural England	July 2020	Bi-Annually
Special Protection Areas		
Natural England	February 2021	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	
Stantec UK Ltd	

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	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**South Derbyshire District Council** Civic Offices, Civic Way, Swadlincote, Derbyshire, DE11 0AH	Telephone: 01283 221000 Fax: 01283 550128 Website: www.south-derbys.gov.uk
6	**Derbyshire County Council** County Offices, Matlock, Derbyshire, DE4 3AG	Telephone: 01629 580000 Fax: 01629 580119 Website: www.derbyshire.gov.uk
7	**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
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
10	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	**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.

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
Pylon
Electricity Transmission Line
Sloping Masonry
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

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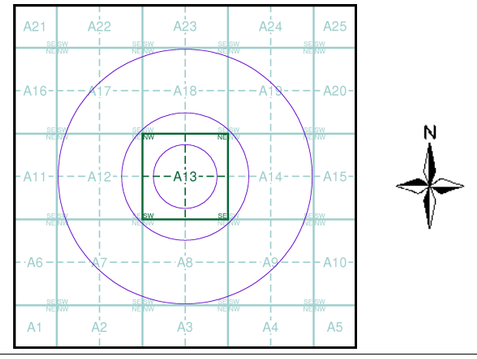
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:10,560	1884	2
Derbyshire	1:10,560	1902	3
Derbyshire	1:10,560	1925	4
Derbyshire	1:10,560	1938	5
Ordnance Survey Plan	1:10,000	1955	6
Ordnance Survey Plan	1:10,000	1968	7
Ordnance Survey Plan	1:10,000	1993	8
10K Raster Mapping	1:10,000	2000	9
10K Raster Mapping	1:10,000	2006	10
VectorMap Local	1:10,000	2021	11

Historical Map - Slice A



Order Details

Order Number: 283096012_1_1
Customer Ref: 20209 - Oaklands - Park Lane
National Grid Reference: 423540, 318530
Slice: A
Site Area (Ha): 0.01
Search Buffer (m): 1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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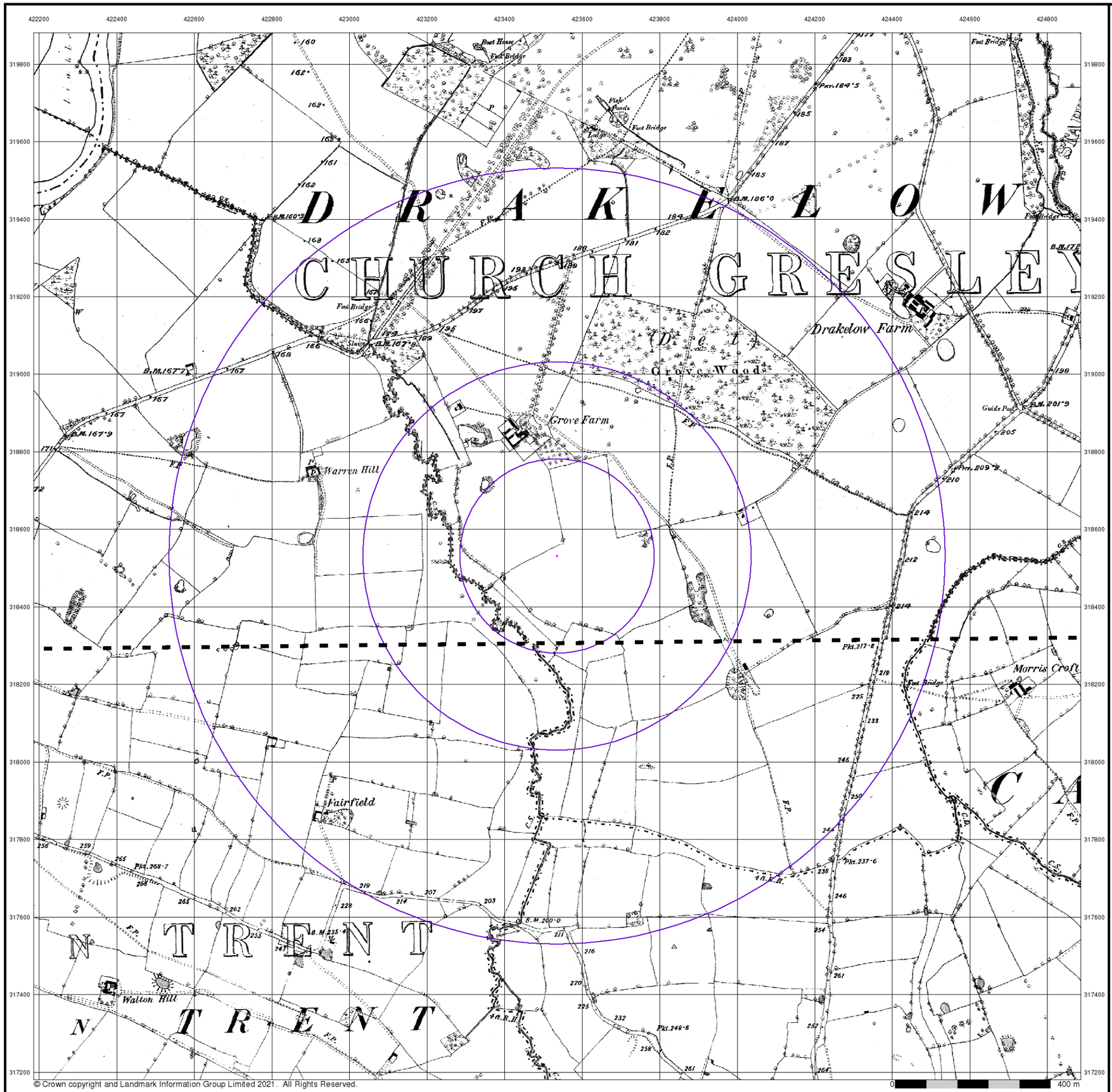
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



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Derbyshire

Published 1884

Source map scale - 1:10,560

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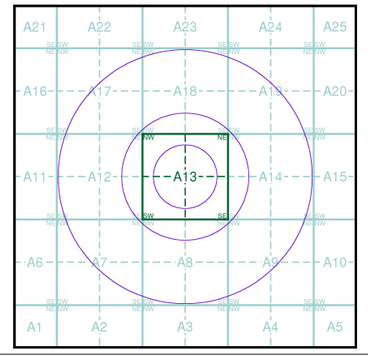
Map Name(s) and Date(s)

059NE
1884
1:10,560

059SE
1884
1:10,560

Historical Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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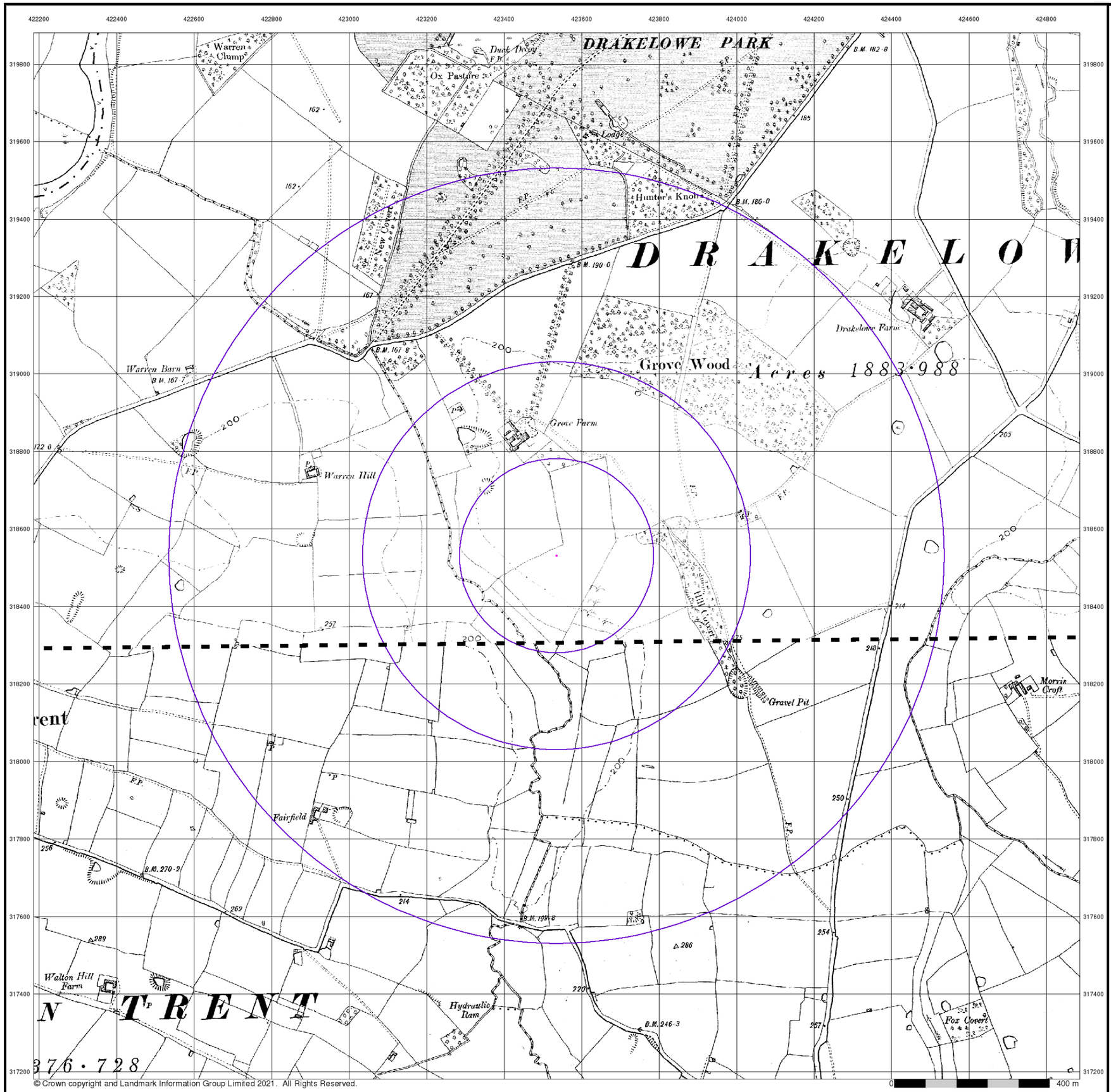

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Derbyshire

Published 1902

Source map scale - 1:10,560

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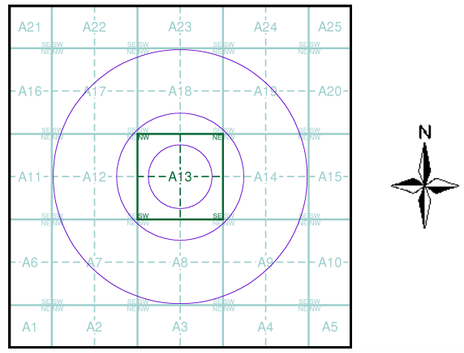
Map Name(s) and Date(s)

059NE
1902
1:10,560

059SE
1902
1:10,560

Historical Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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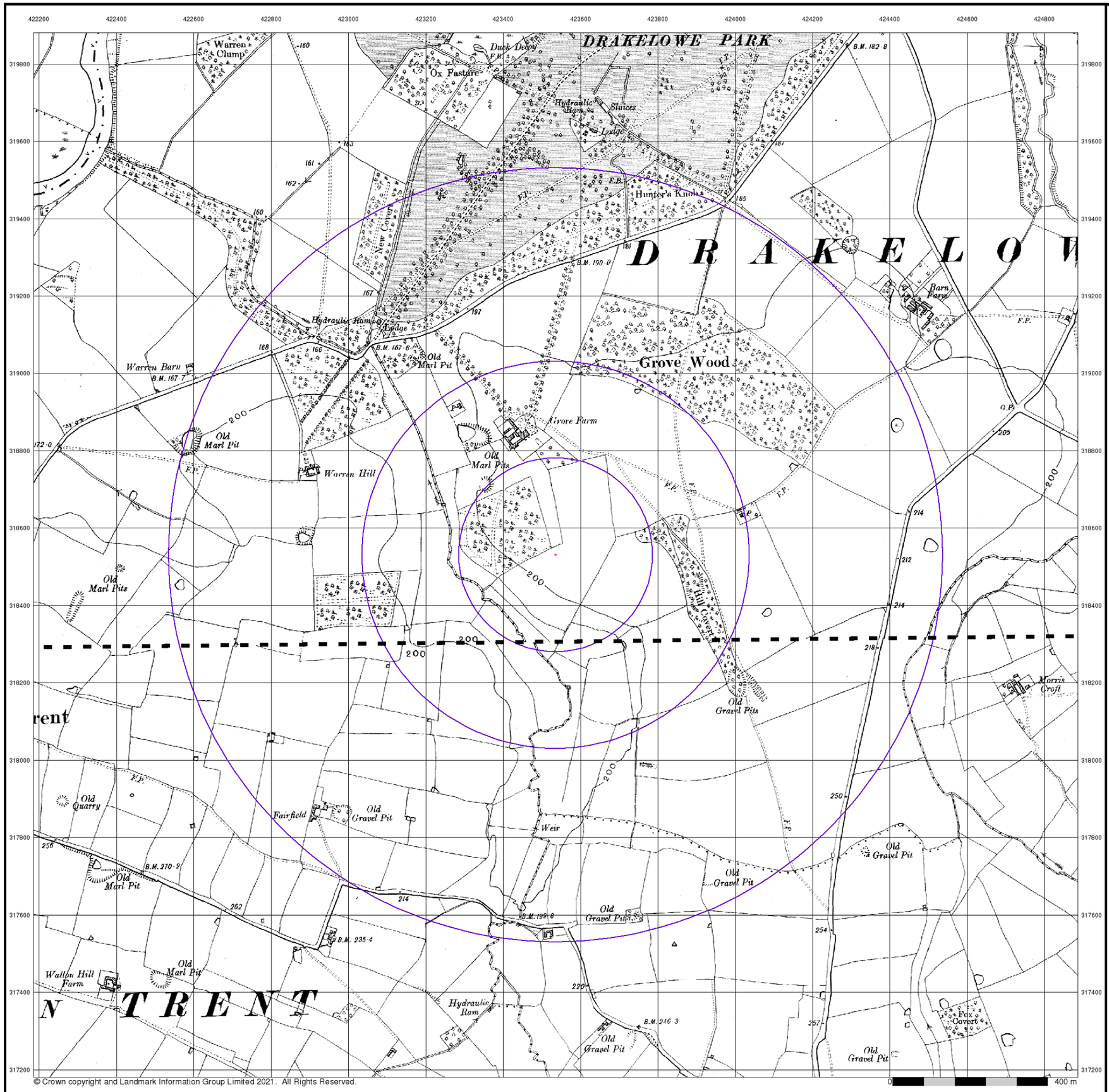

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Derbyshire

Published 1925

Source map scale - 1:10,560

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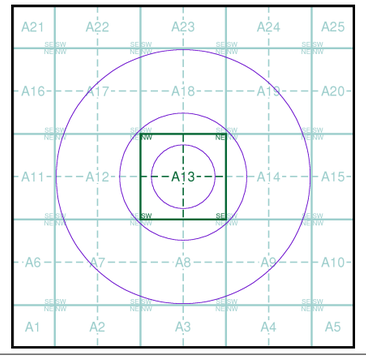
Map Name(s) and Date(s)

059NE
1925
1:10,560

059SE
1925
1:10,560

Historical Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

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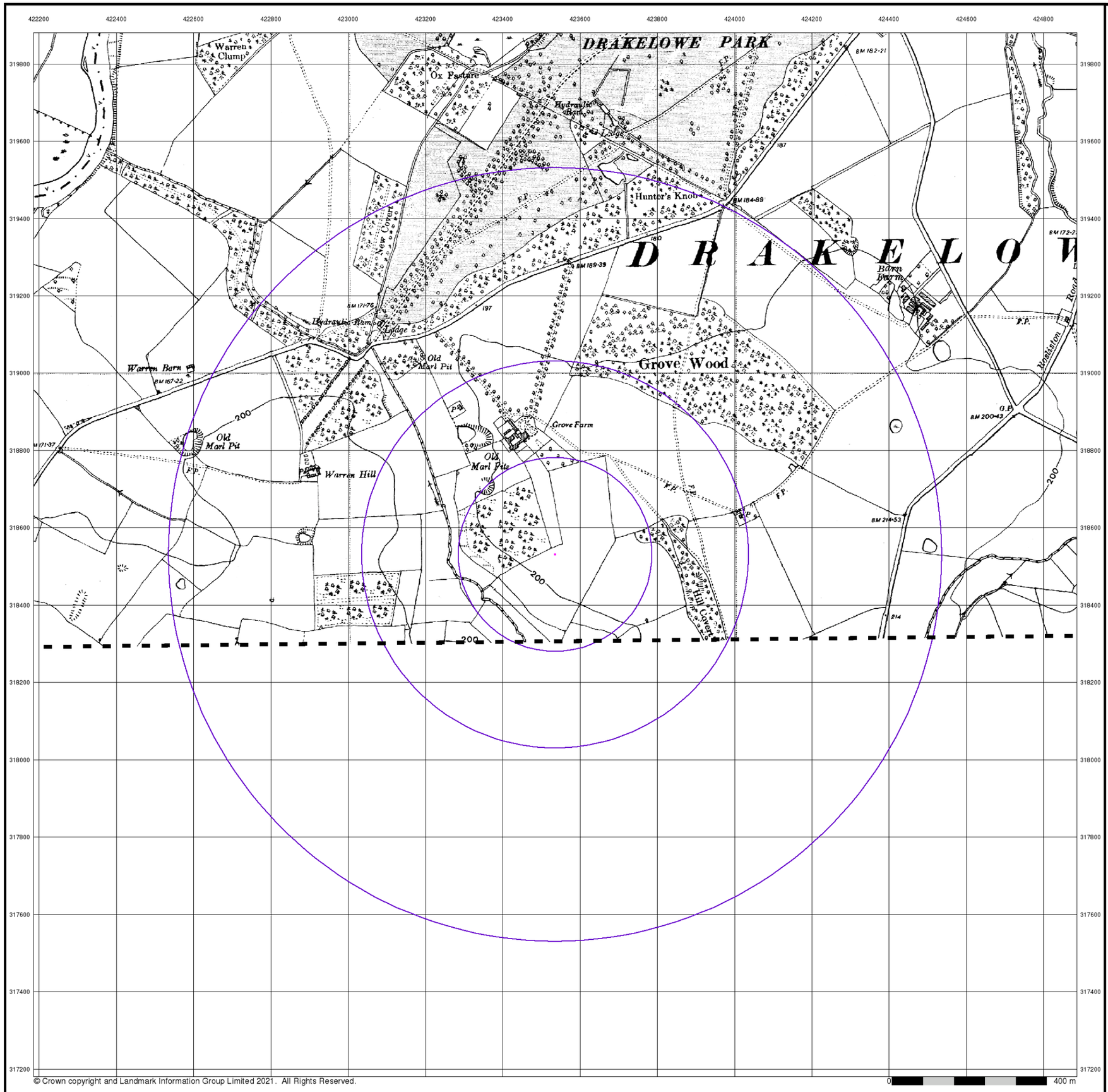

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Derbyshire

Published 1938

Source map scale - 1:10,560

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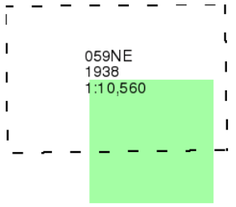
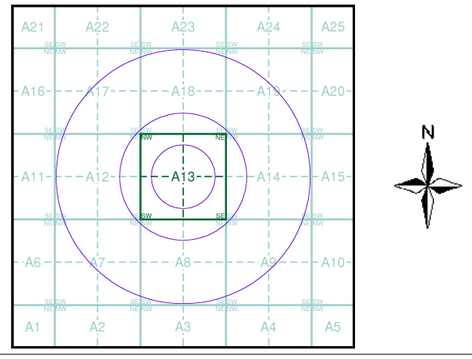
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
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Search Buffer (m):	1000

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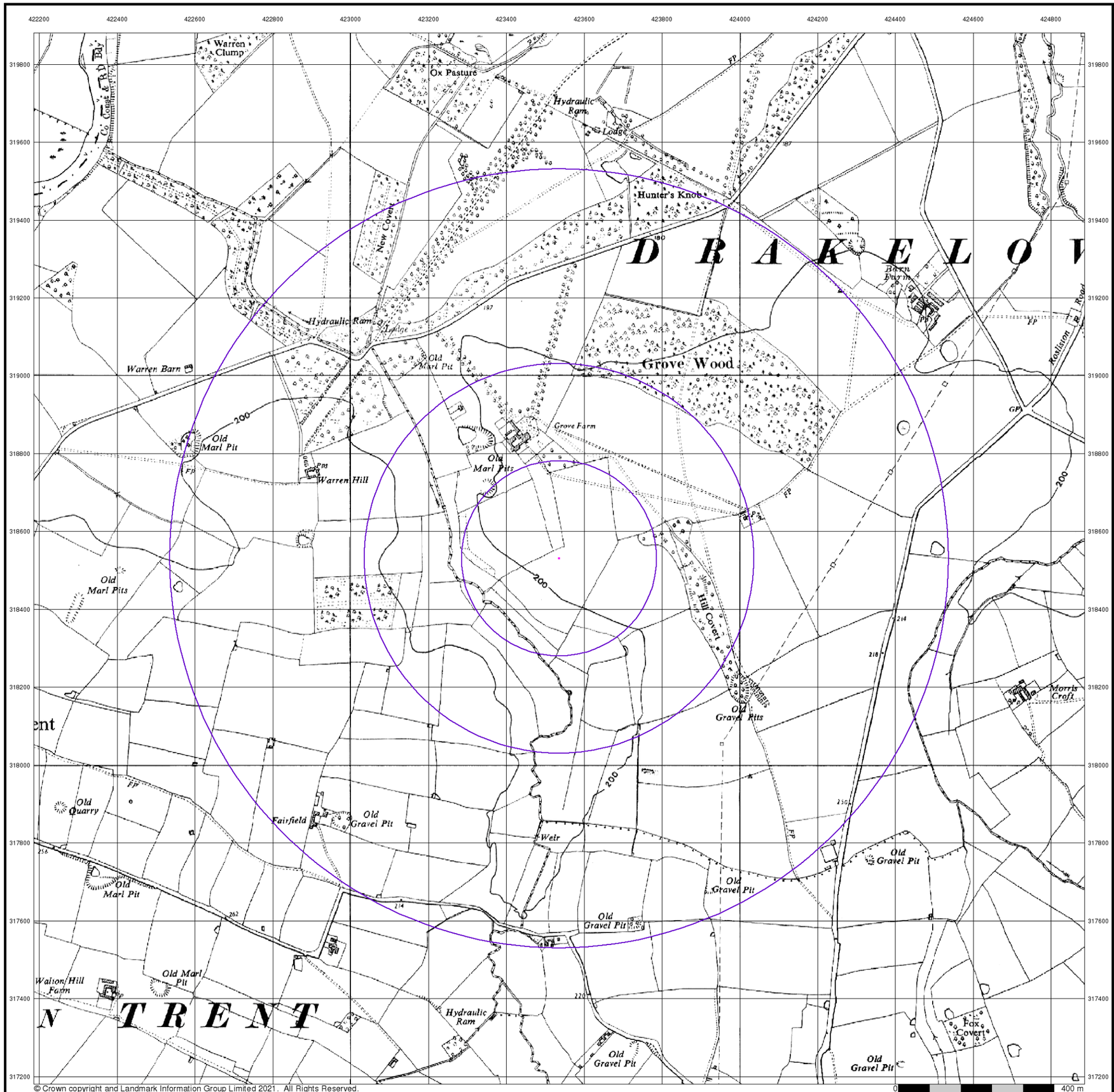

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Ordnance Survey Plan

Published 1955

Source map scale - 1:10,000

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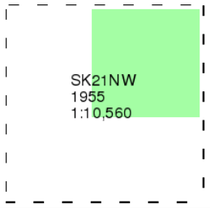
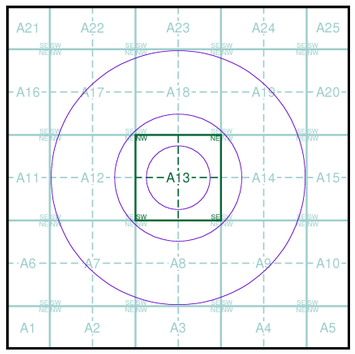
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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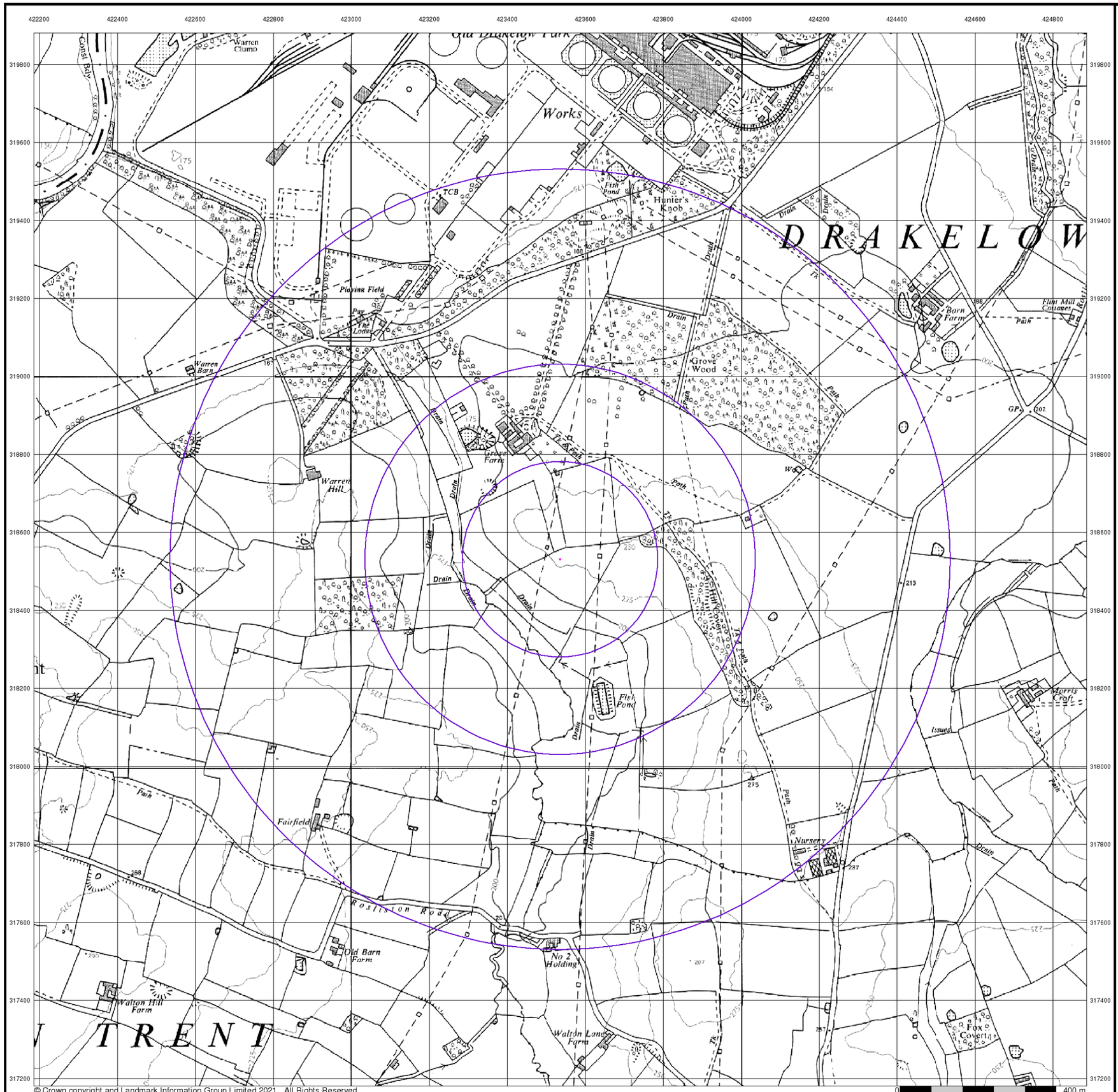

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Ordnance Survey Plan

Published 1968

Source map scale - 1:10,000

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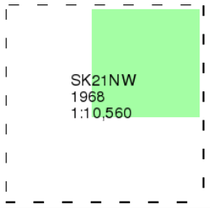
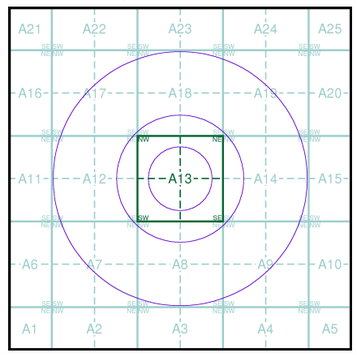
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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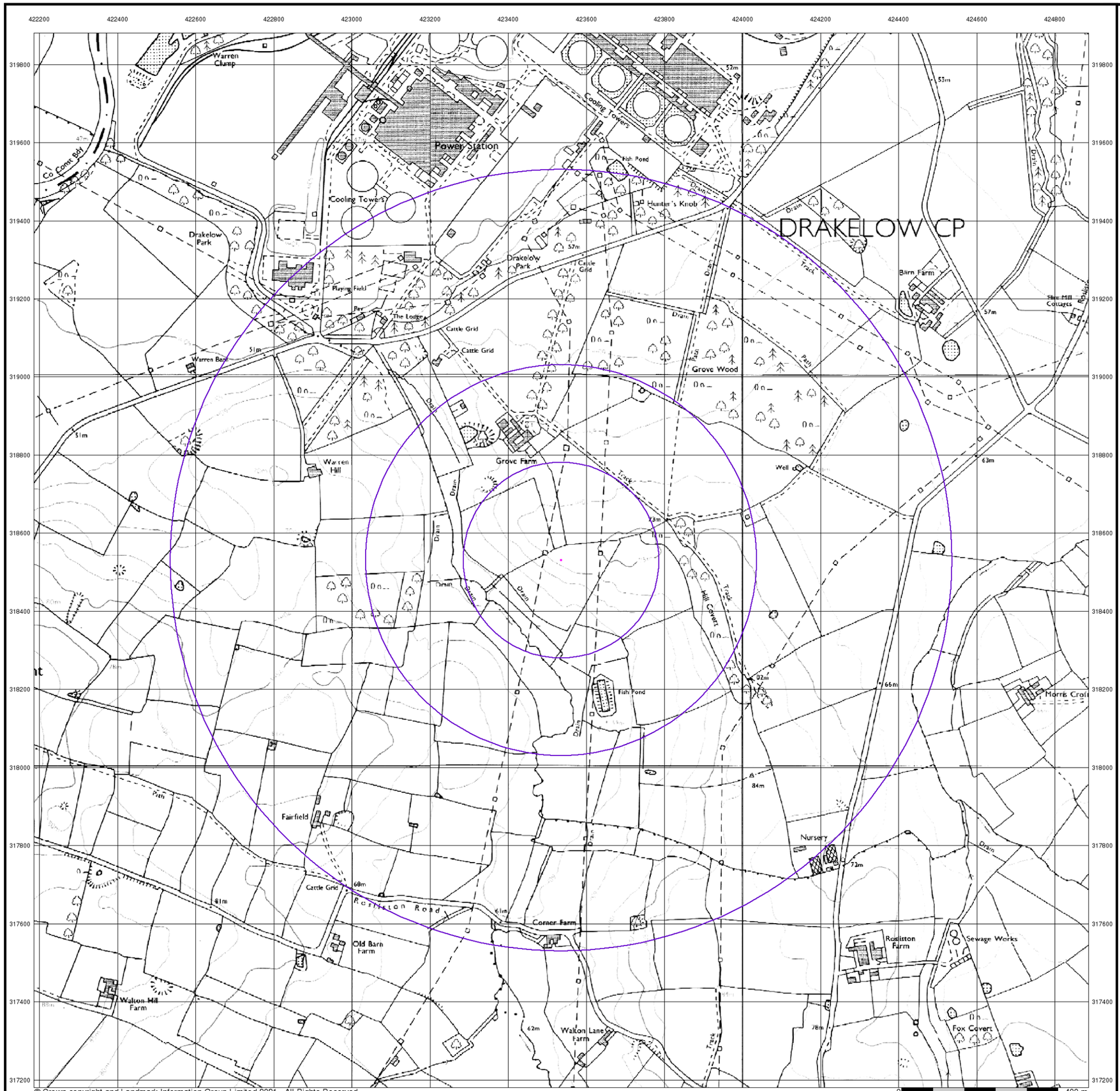

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Ordnance Survey Plan

Published 1993

Source map scale - 1:10,000

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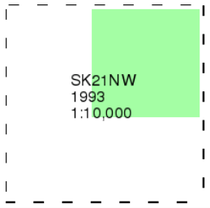
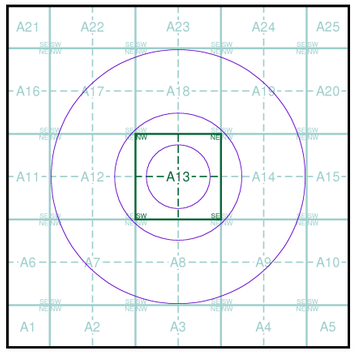
Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

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Slice:	A
Site Area (Ha):	0.01
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Site Details

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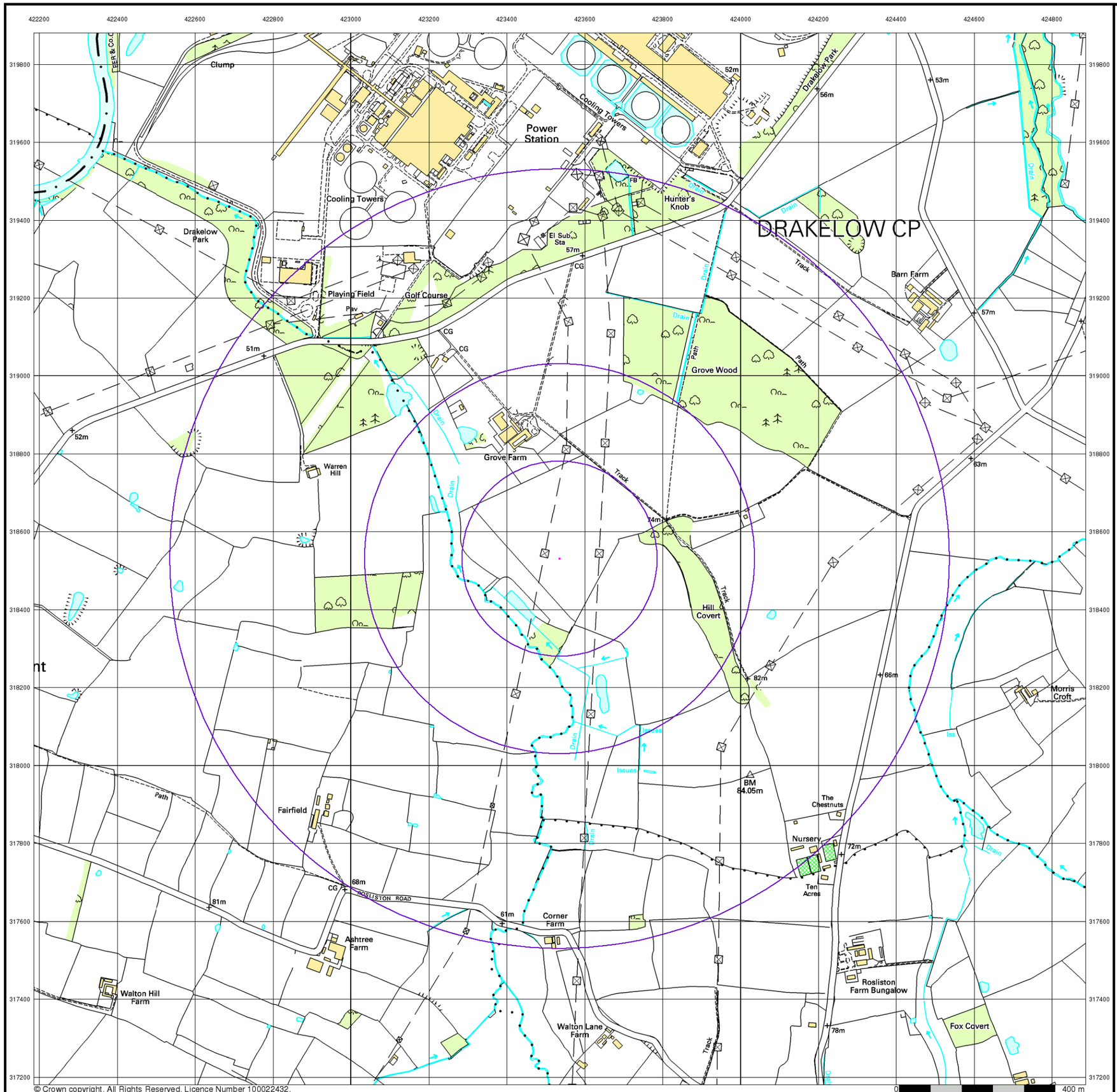

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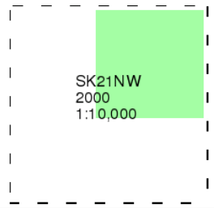
10k Raster Mapping

Published 2000

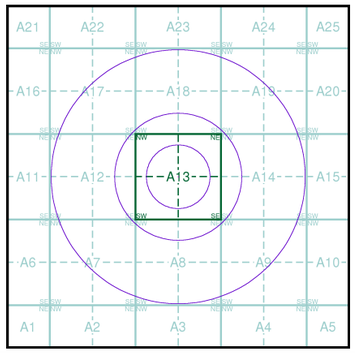
Source map scale - 1:10,000

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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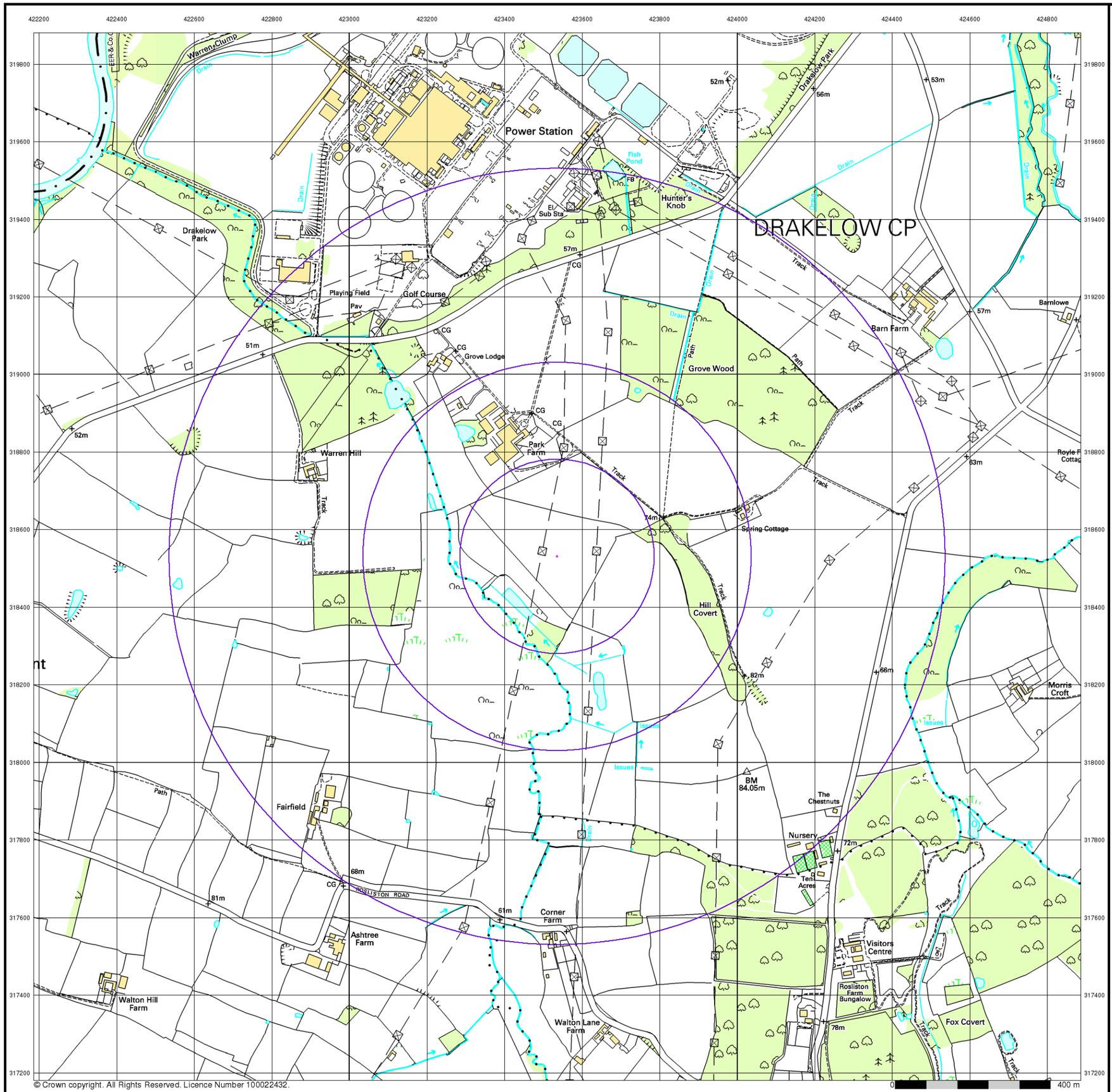
Web: www.envirocheck.co.uk



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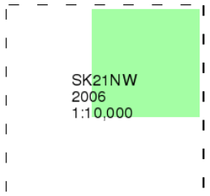
10k Raster Mapping

Published 2006

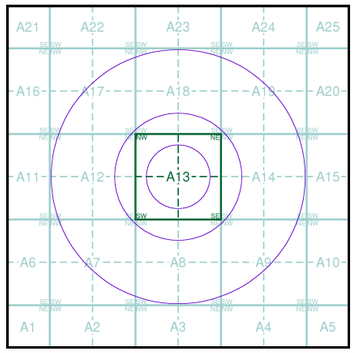
Source map scale - 1:10,000

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



Order Details

Order Number:	283096012_1_1
Customer Ref:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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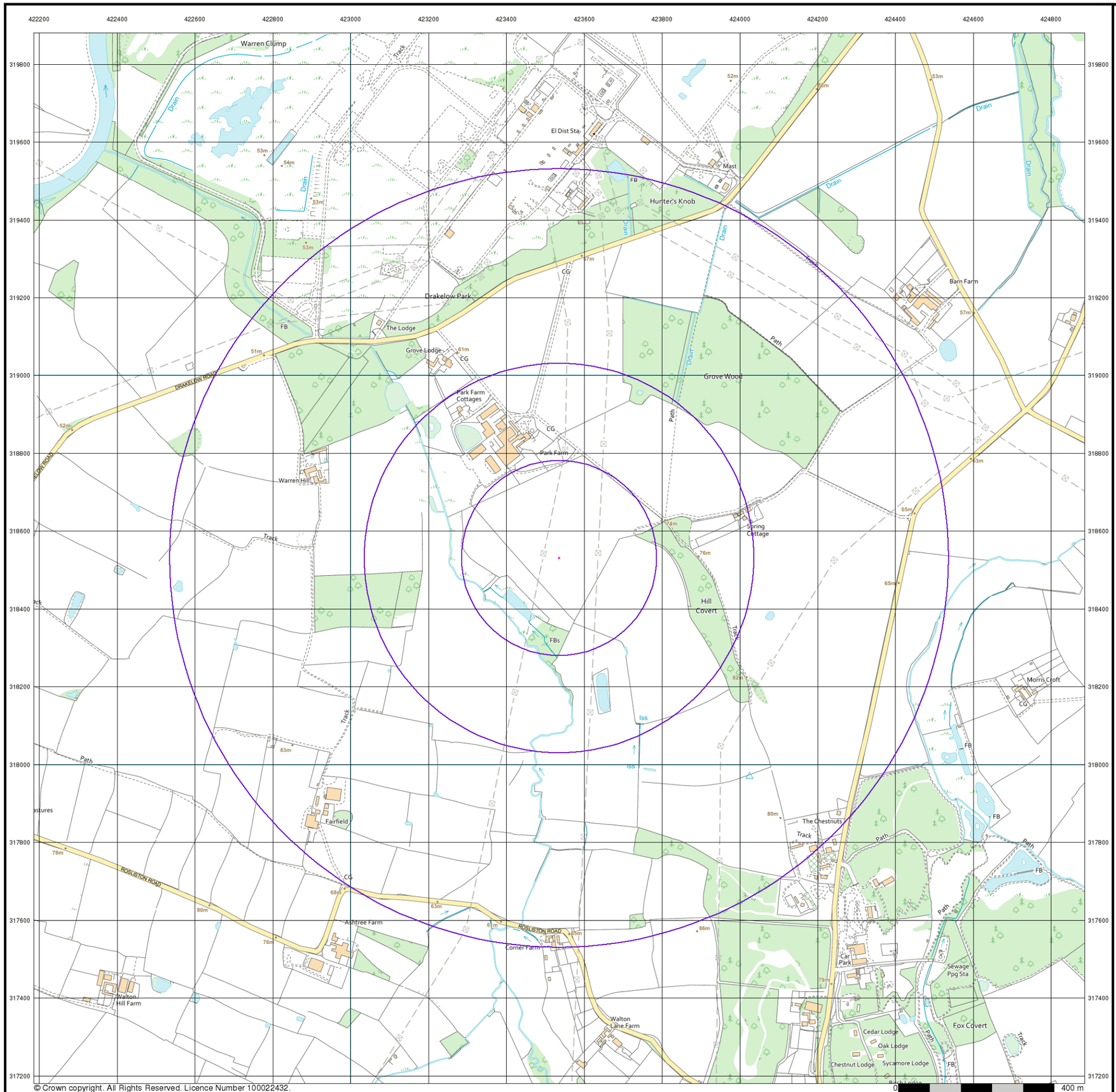

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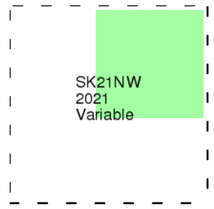
VectorMap Local

Published 2021

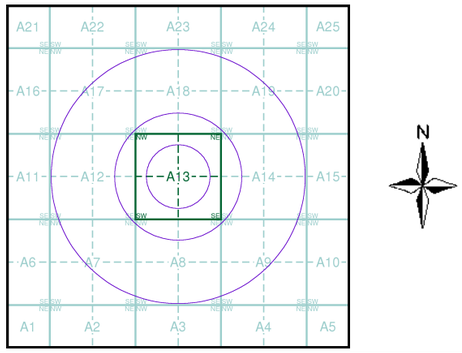
Source map scale - 1:10,000

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)



Historical Map - Slice A



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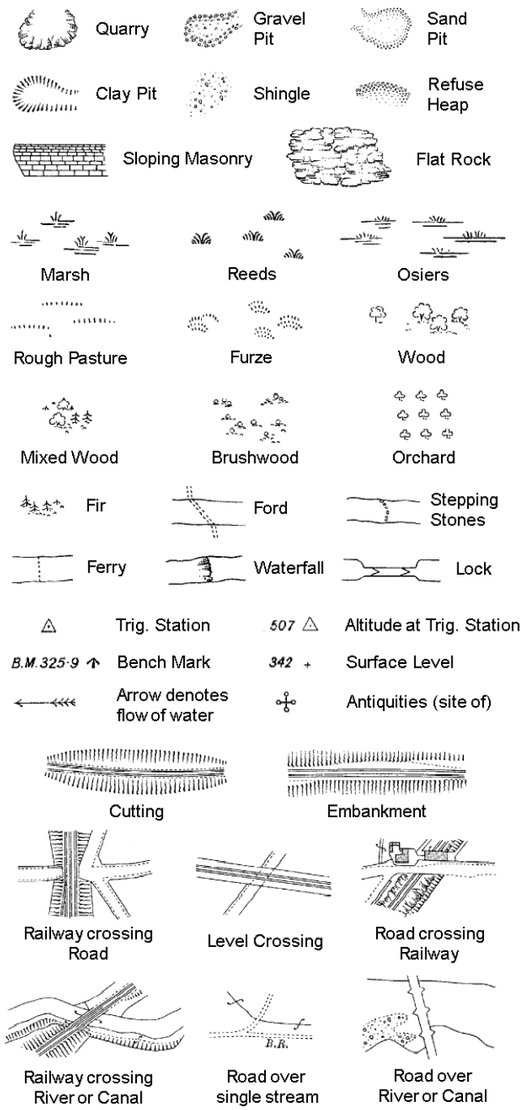
Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

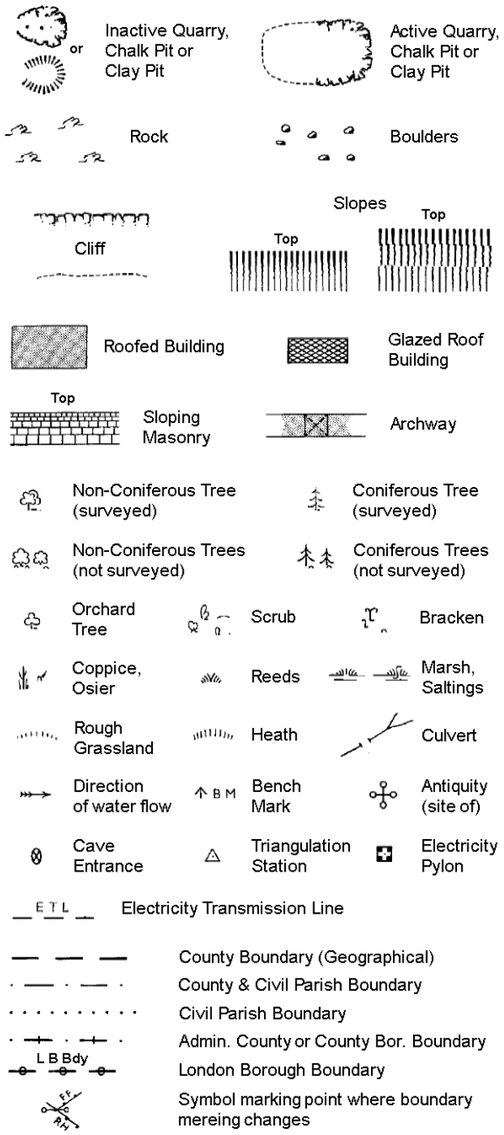
Administrative County & Civil Parish Boundary

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

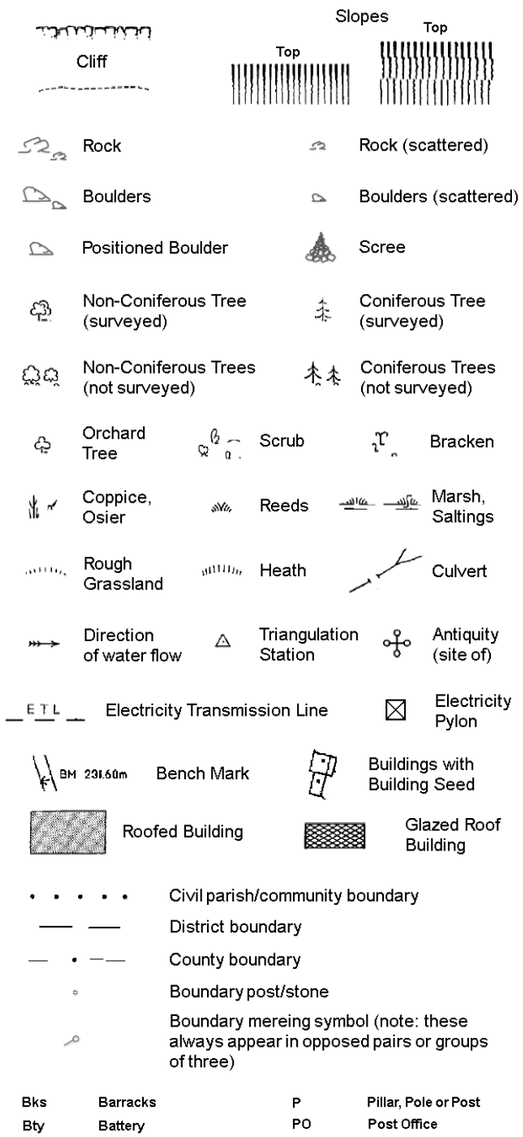
Admin. County or County Bor. Boundary

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



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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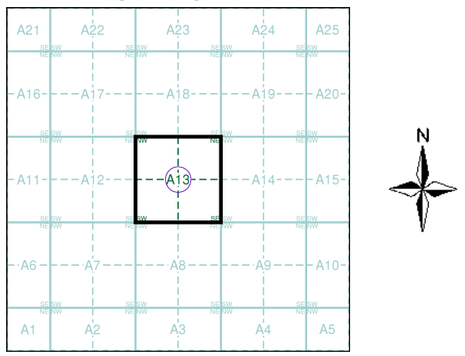
Historical Mapping & Photography included:

Historical Map - Segment A13



Order Details

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Slice:	A
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Search Buffer (m):	100

Site Details

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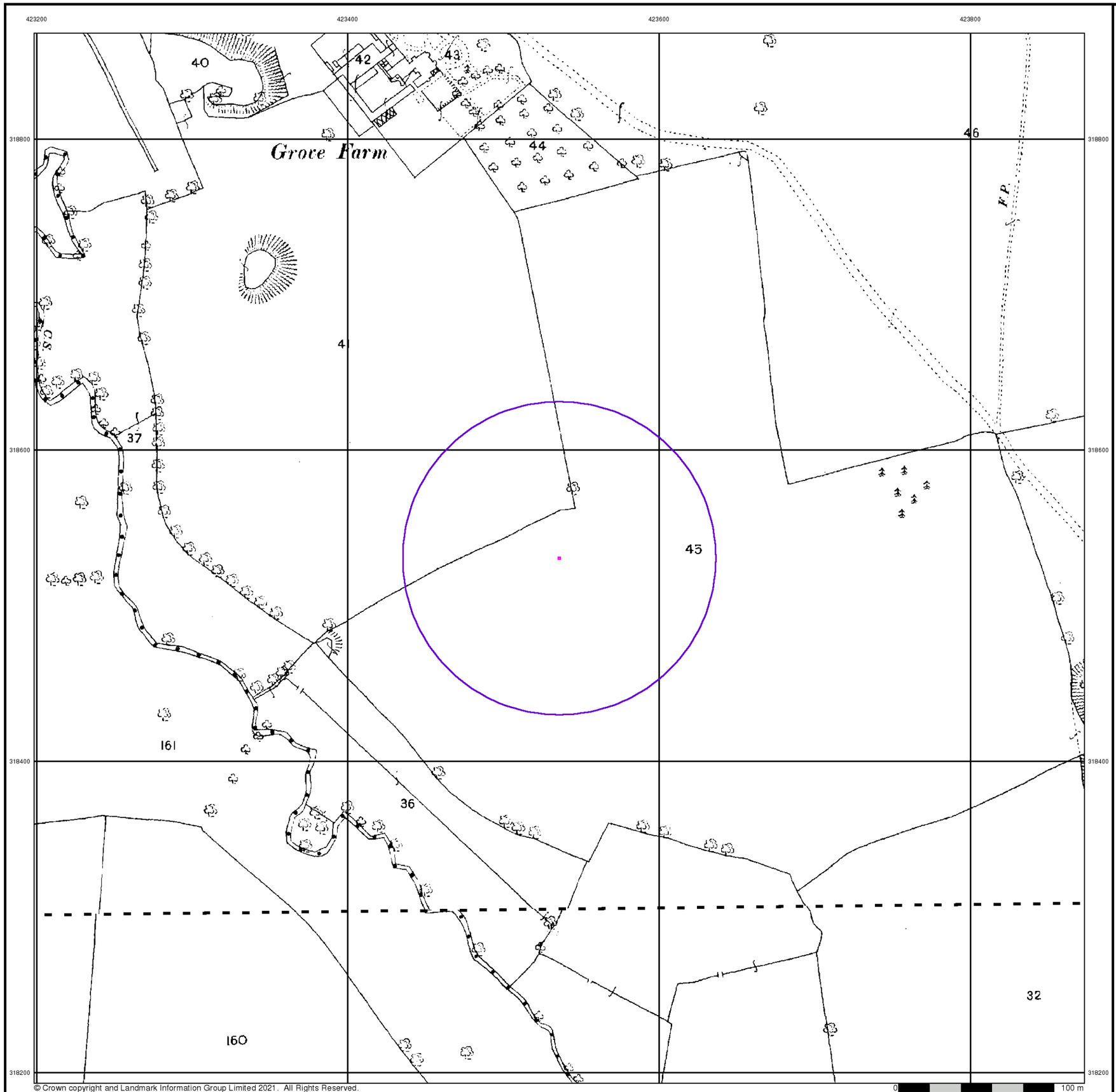

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Derbyshire

Published 1883

Source map scale - 1:2,500

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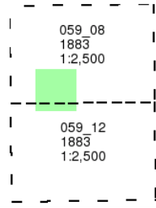
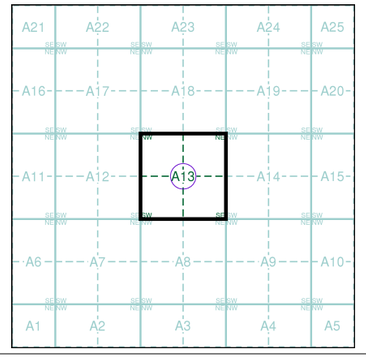
Map Name(s) and Date(s)



Historical Map - Segment A13



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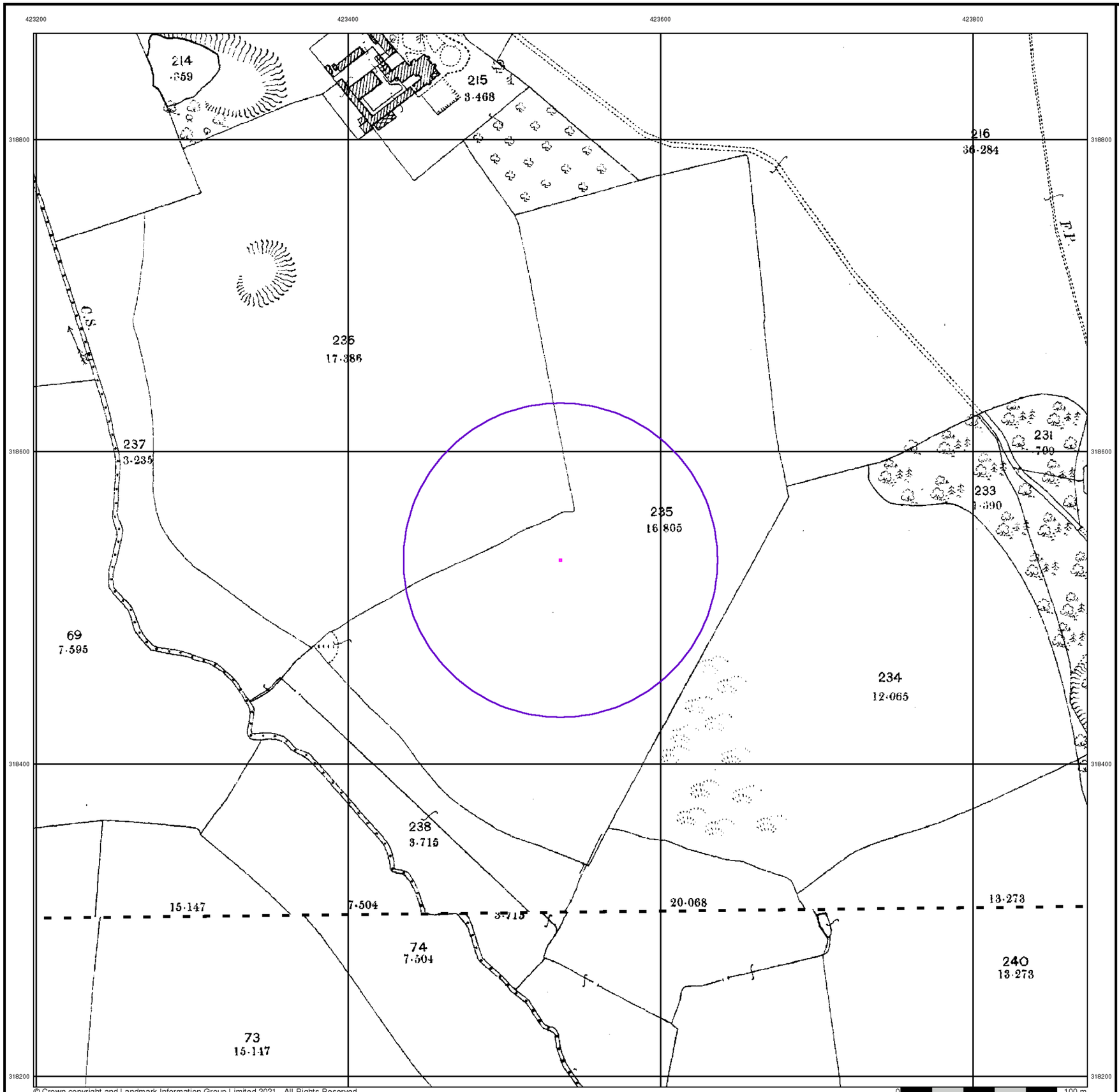

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Derbyshire

Published 1901

Source map scale - 1:2,500

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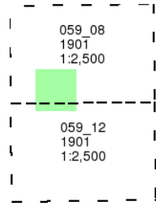
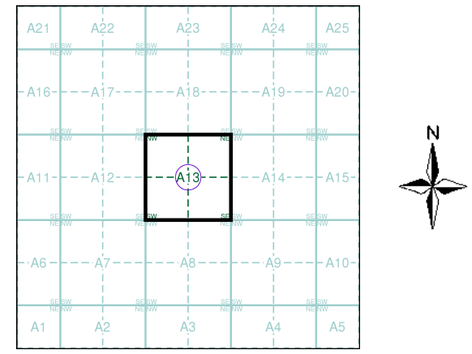


Historical Map - Segment A13



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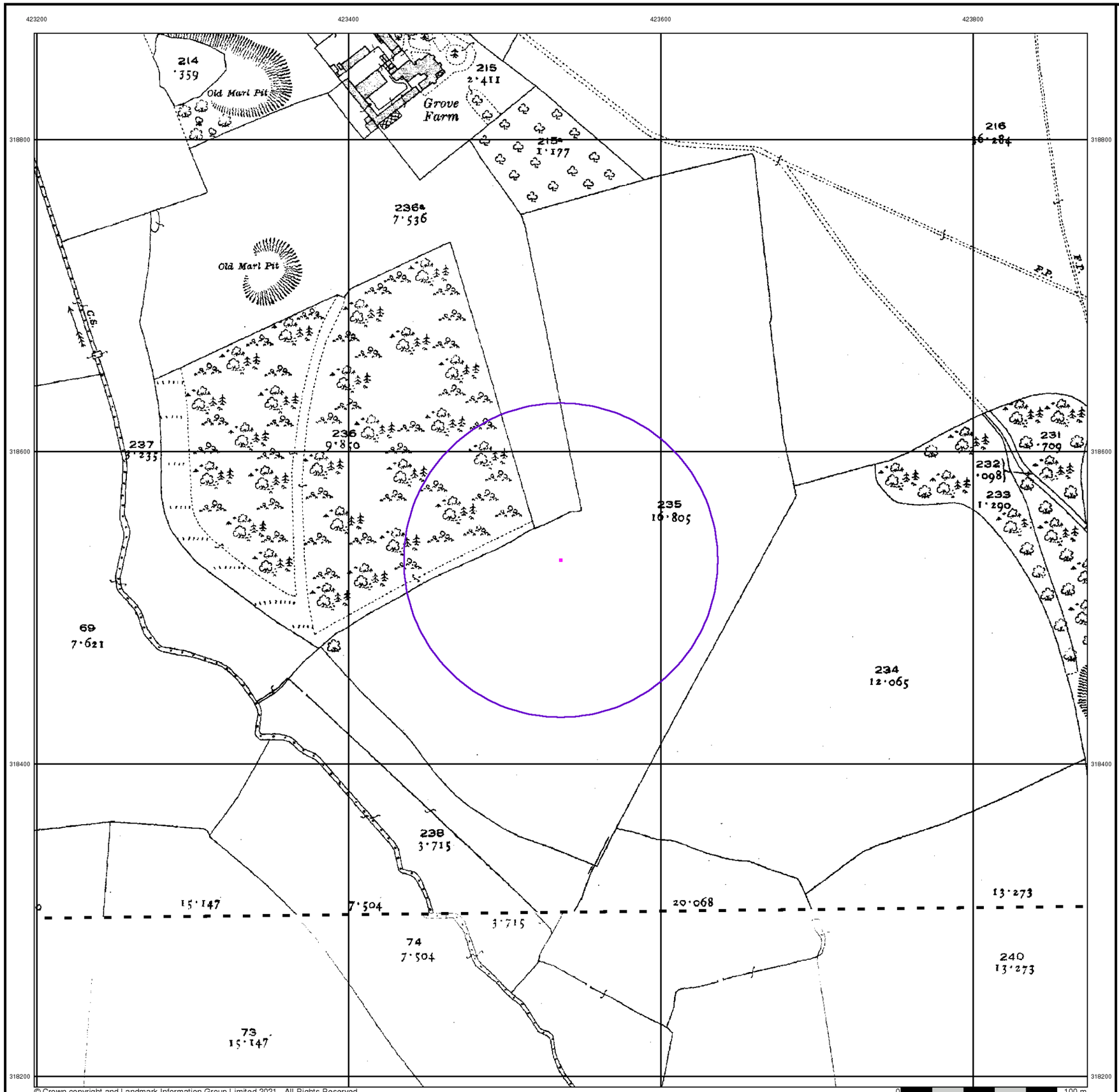

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Derbyshire

Published 1923

Source map scale - 1:2,500

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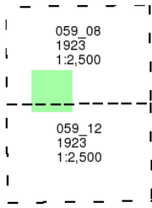
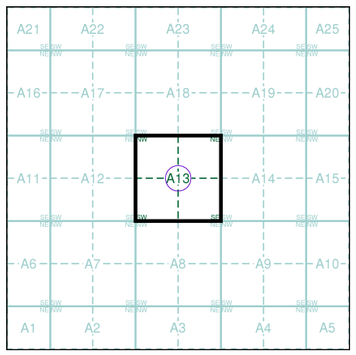


Historical Map - Segment A13



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Customer Ref:	20209 - Oaklands - Park Lane
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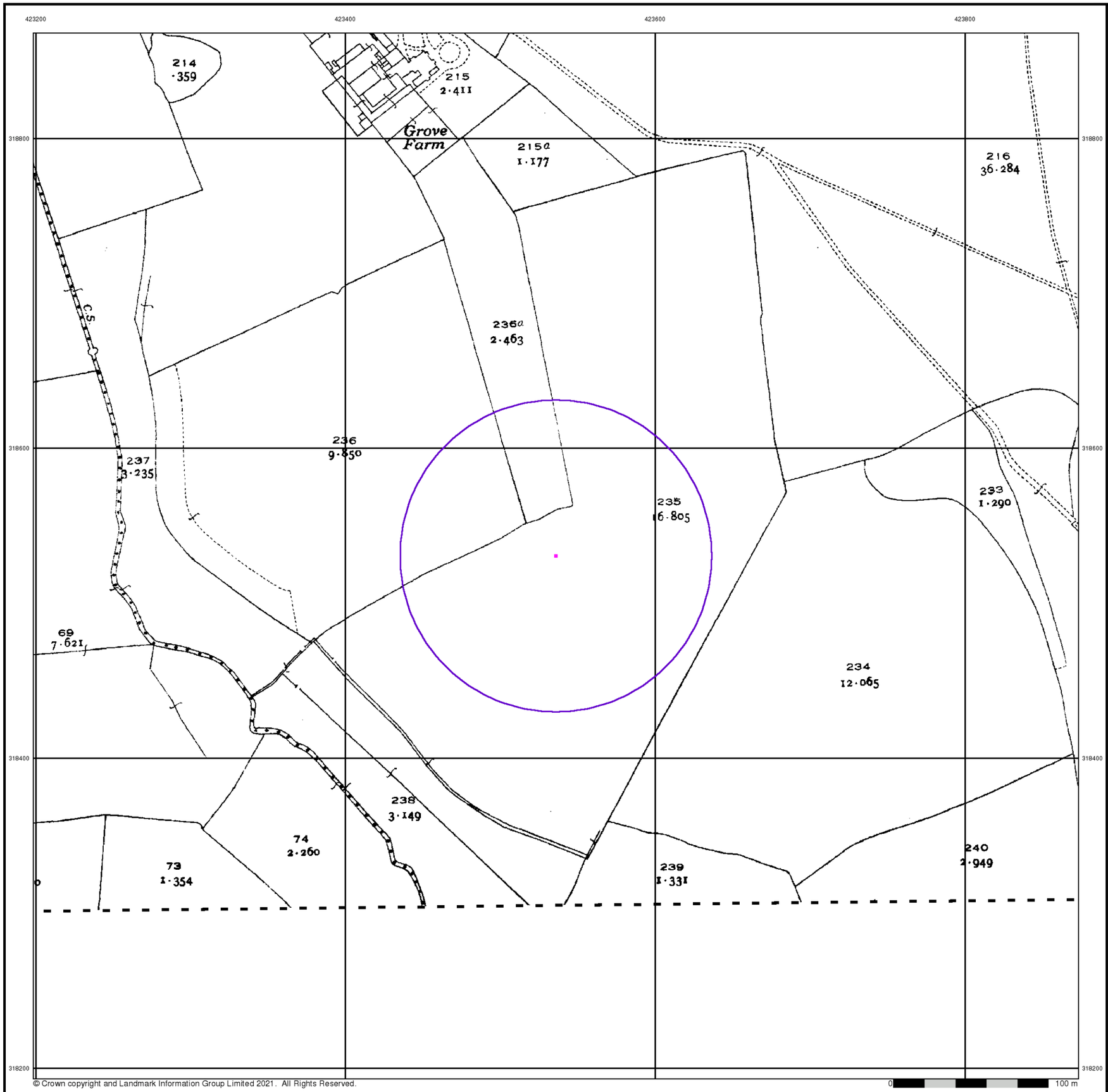

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Derbyshire

Published 1938

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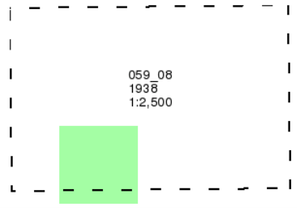
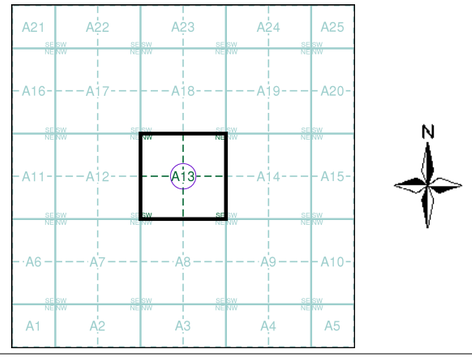
Map Name(s) and Date(s)



Historical Map - Segment A13



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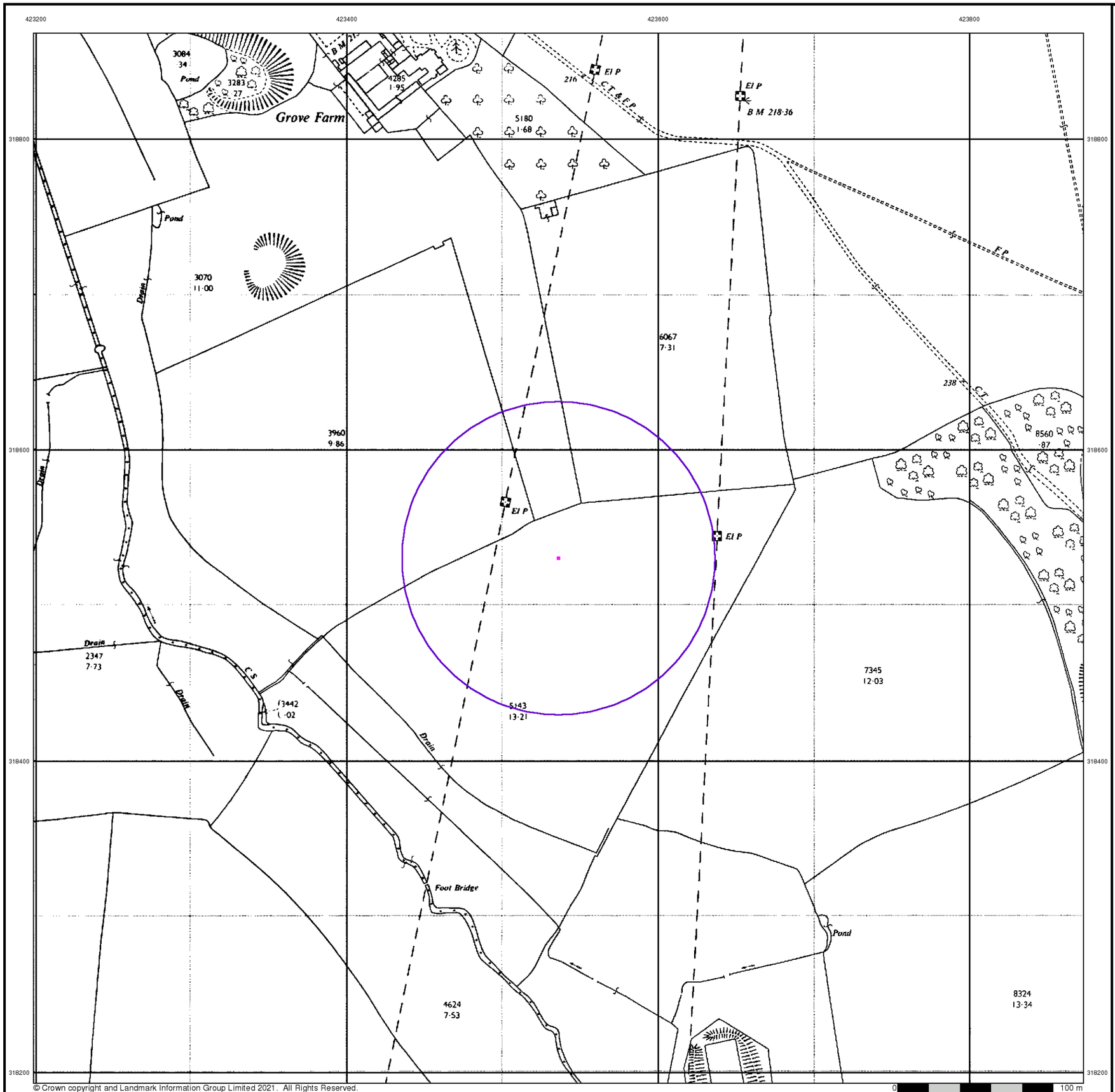

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Ordnance Survey Plan

Published 1963

Source map scale - 1:2,500

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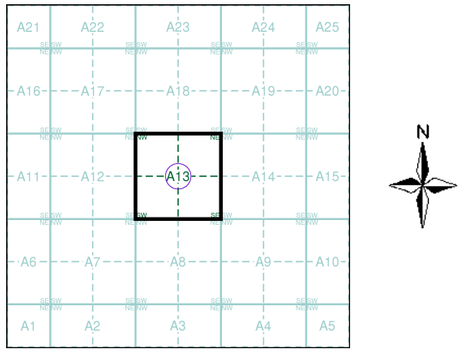
Map Name(s) and Date(s)

Historical Map - Segment A13



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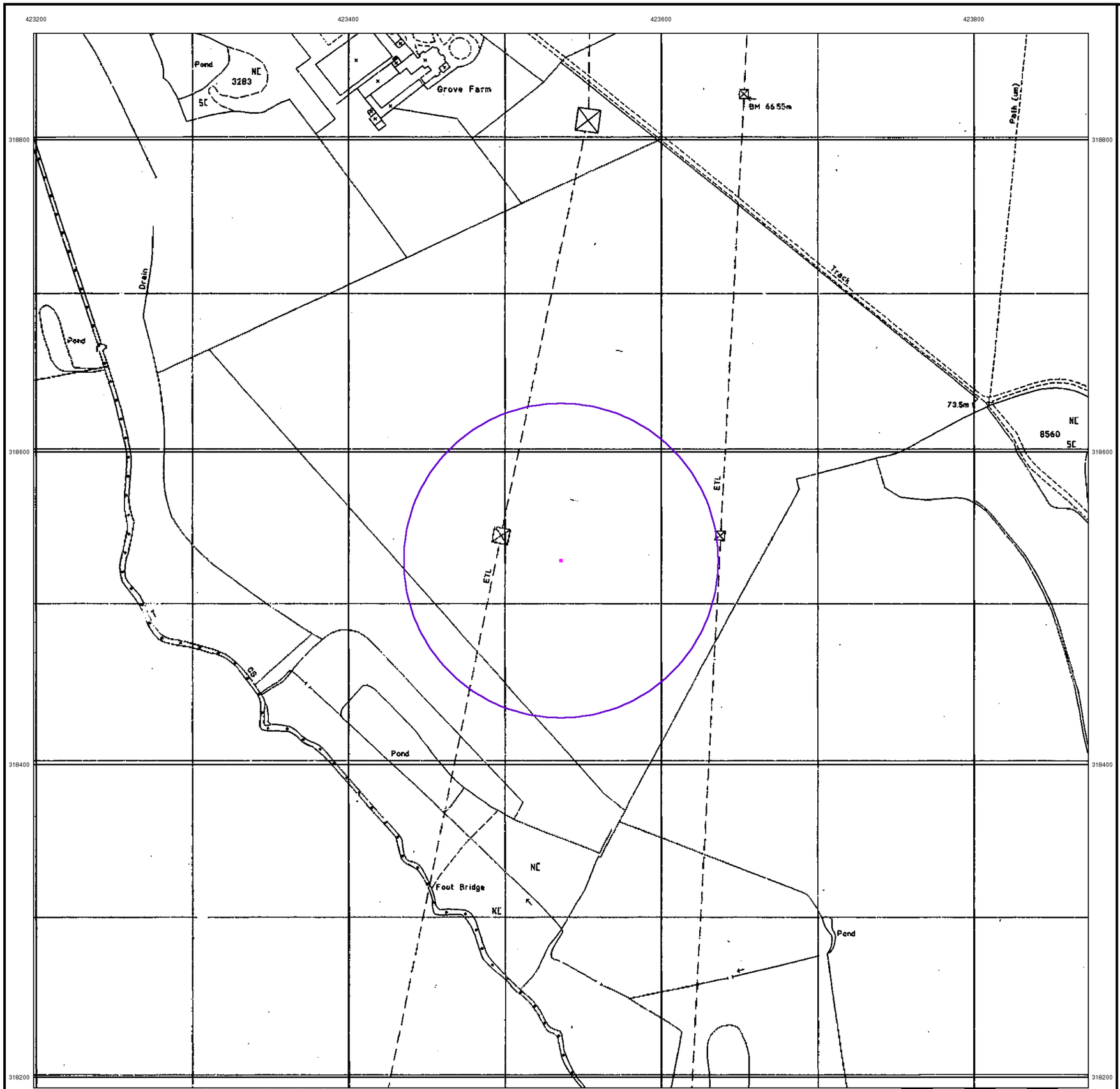

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Additional SIMs

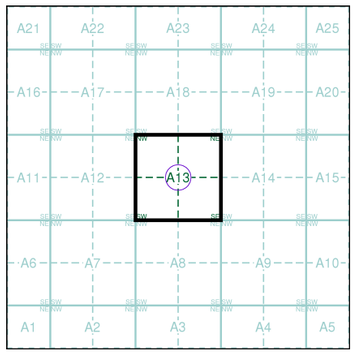
Published 1992

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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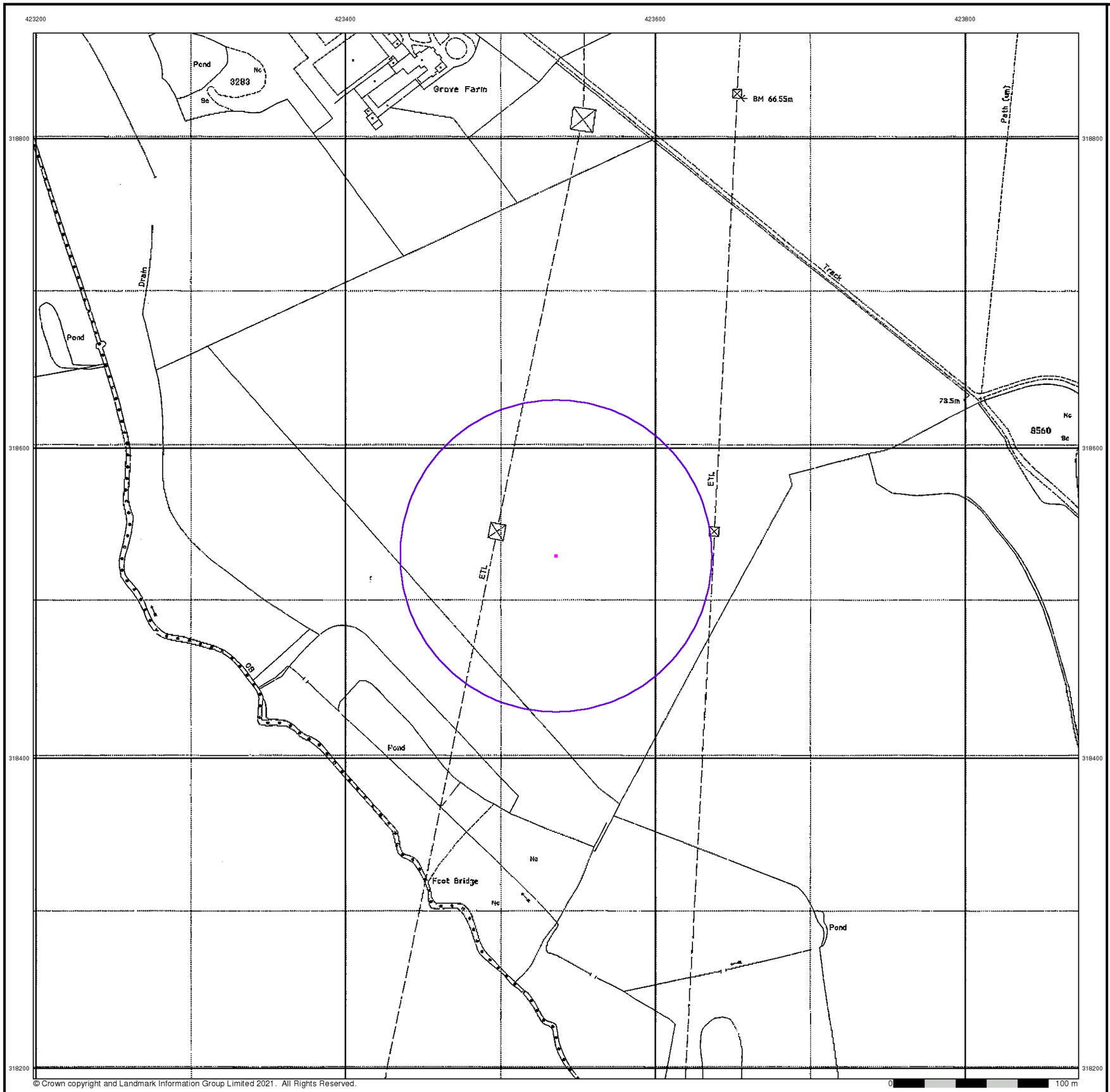

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Large-Scale National Grid Data

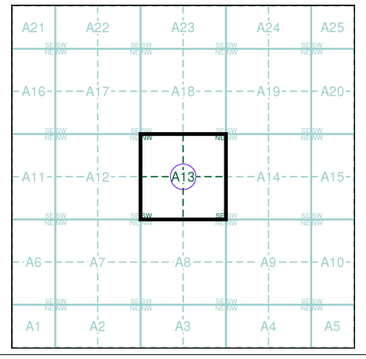
Published 1994

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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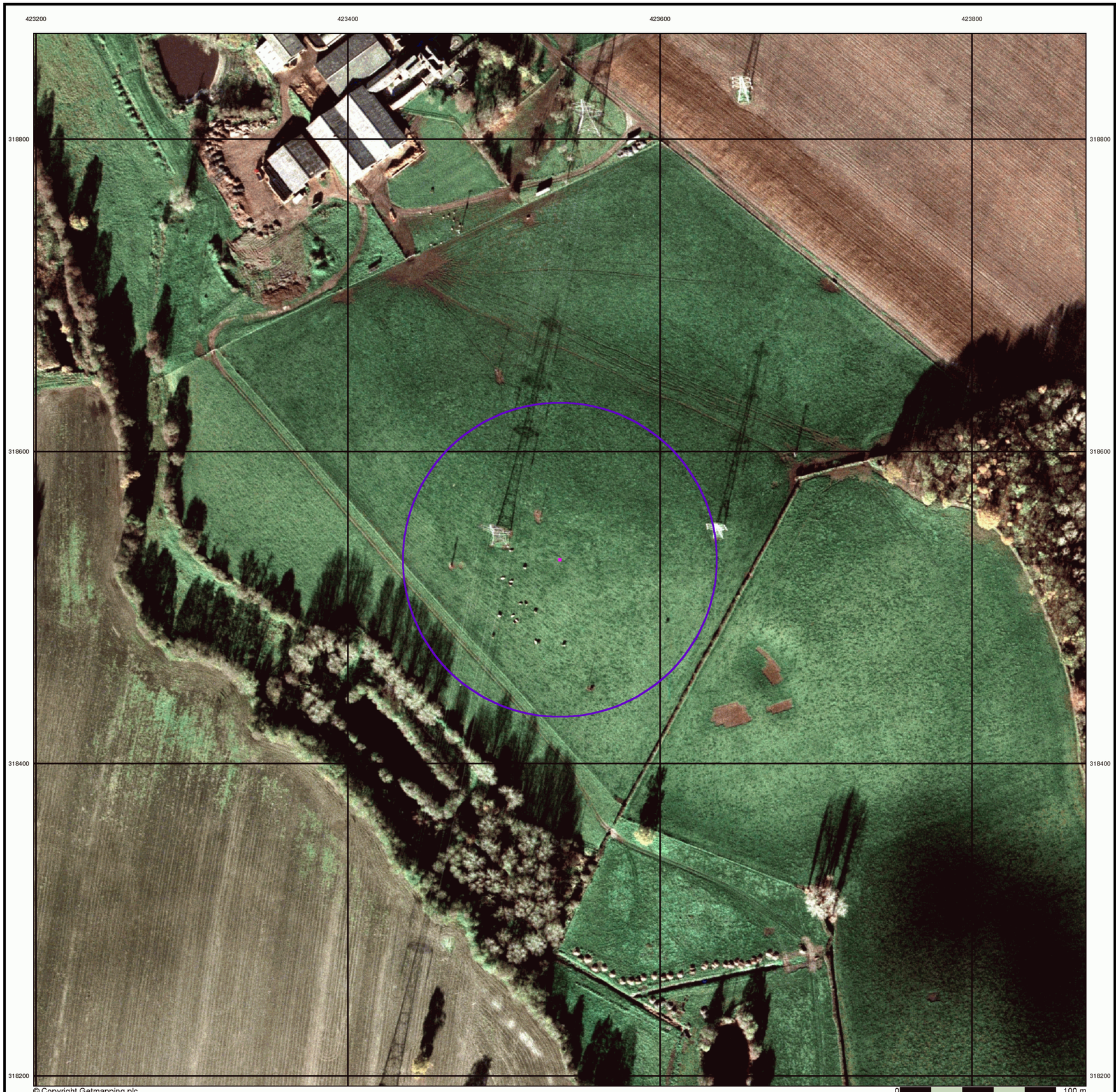

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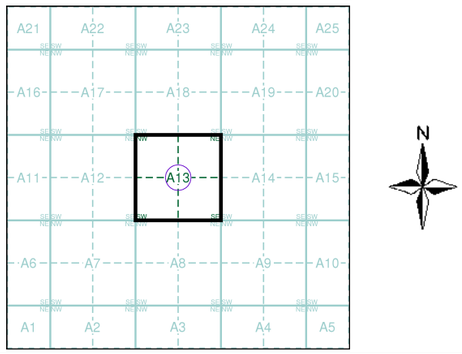
Historical Aerial Photography

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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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	THT	THRUSSINGTON MEMBER	Diamicton	Not Supplied - Anglian
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian
	HPSG	Holme Pierrepont Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	PEAT	Peat	Peat	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	EDW	Edwalton Member	Sandstone	Not Supplied - Carnian
	COT	Cotgrave Sandstone Member	Sandstone	Not Supplied - Carnian
	EDW	Edwalton Member	Mudstone	Not Supplied - Carnian
	GUN	Gunthorpe Member	Mudstone	Not Supplied - Anisian
	HEY	Helsby Sandstone Formation	Mudstone	Not Supplied - Anisian
	HEY	Helsby Sandstone Formation	Mudstone	Not Supplied - Anisian
	HEY	Helsby Sandstone Formation	Sandstone	Not Supplied - Anisian
	GUN	Gunthorpe Member	Siltstone	Not Supplied - Anisian
	GUN	Gunthorpe Member	Siltstone, Dolomitic	Not Supplied - Anisian
	RDCF	Radcliffe Member	Mudstone and Siltstone	Not Supplied - Anisian
	TPSF	Tarporley Siltstone Formation	Mudstone	Not Supplied - Olenekian
	TPSF	Tarporley Siltstone Formation	Mudstone	Not Supplied - Olenekian
	TPSF	Tarporley Siltstone Formation	Siltstone, Mudstone and Sandstone	Not Supplied - Olenekian
	TPSF	Tarporley Siltstone Formation	Siltstone, Mudstone and Sandstone	Not Supplied - Olenekian
	TPSF	Tarporley Siltstone Formation	Sandstone	Not Supplied - Olenekian
	MMG	Mercia Mudstone Group	Siltstone	Not Supplied - Early Triassic
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic
		Faults		

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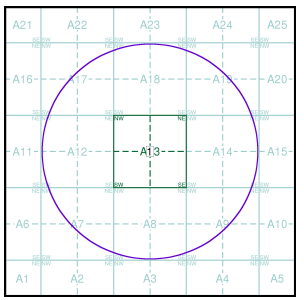
Geology 1:50,000 Maps

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:	**140**
Map Name:	**Burton upon Tre**
Map Date:	**1982**
Bedrock Geology:	**Available**
Superficial Geology:	**Available**
Artificial Geology:	**Available**
Faults:	**Not Supplied**
Landslip:	**Not Available**
Rock Segments:	**Not Supplied**

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number:	283096012_1_1
Customer Reference:	20209 - Oaklands - Park Lane
National Grid Reference:	423540, 318530
Slice:	A
Site Area (Ha):	0.01
Search Buffer (m):	1000

Site Details:

Badgers Rest, Drakelow, BURTON-ON-TRENT, DE15 9UG

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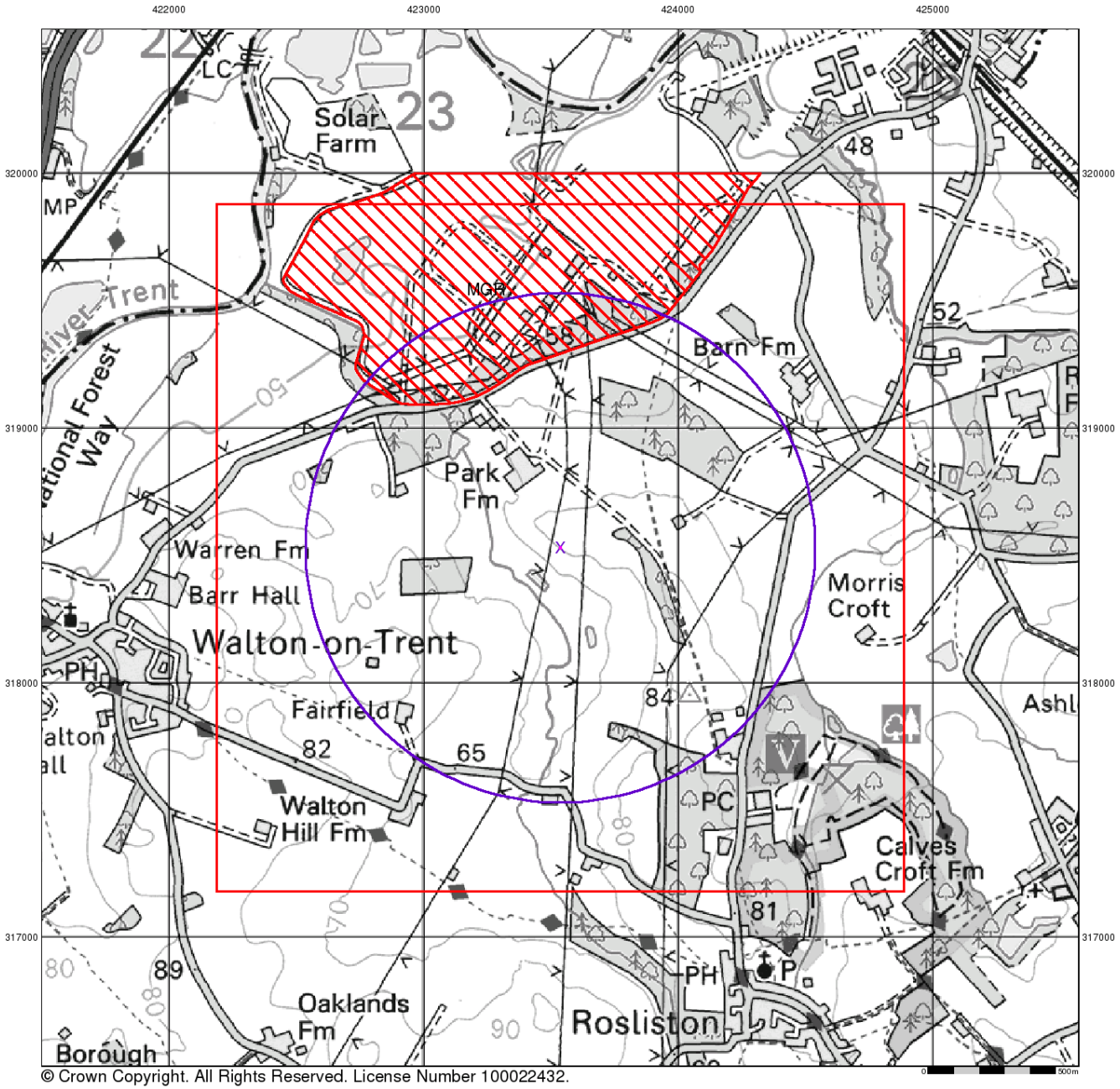
Web: www.envirocheck.co.uk



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Artificial Ground and Landslip

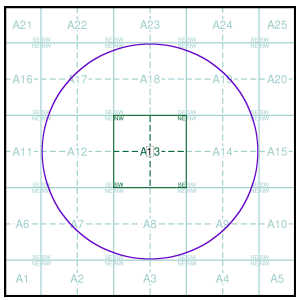
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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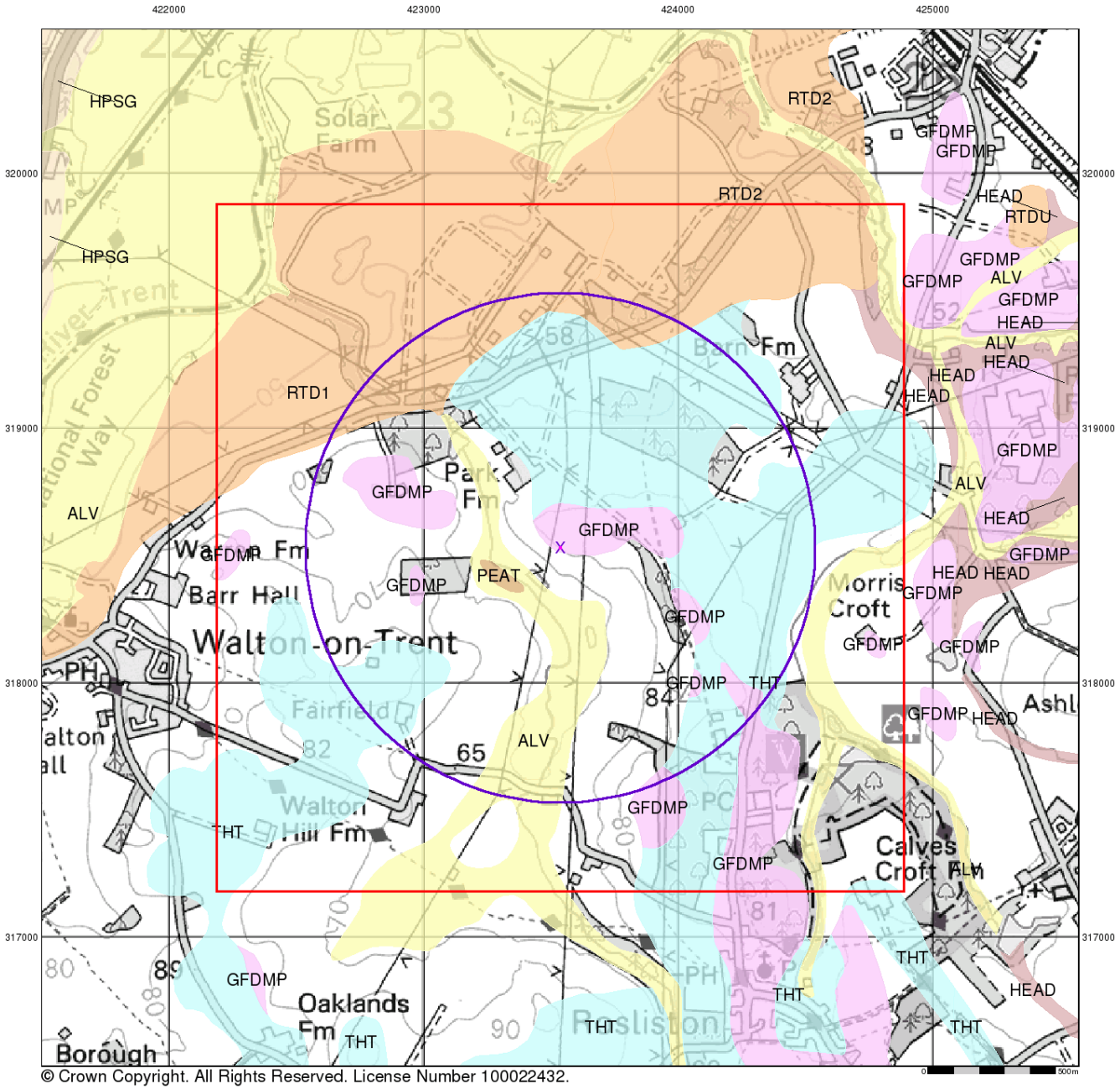

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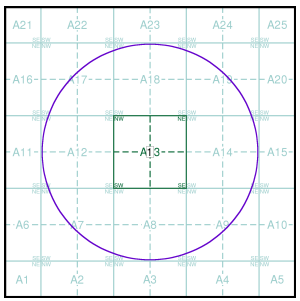
Superficial Geology

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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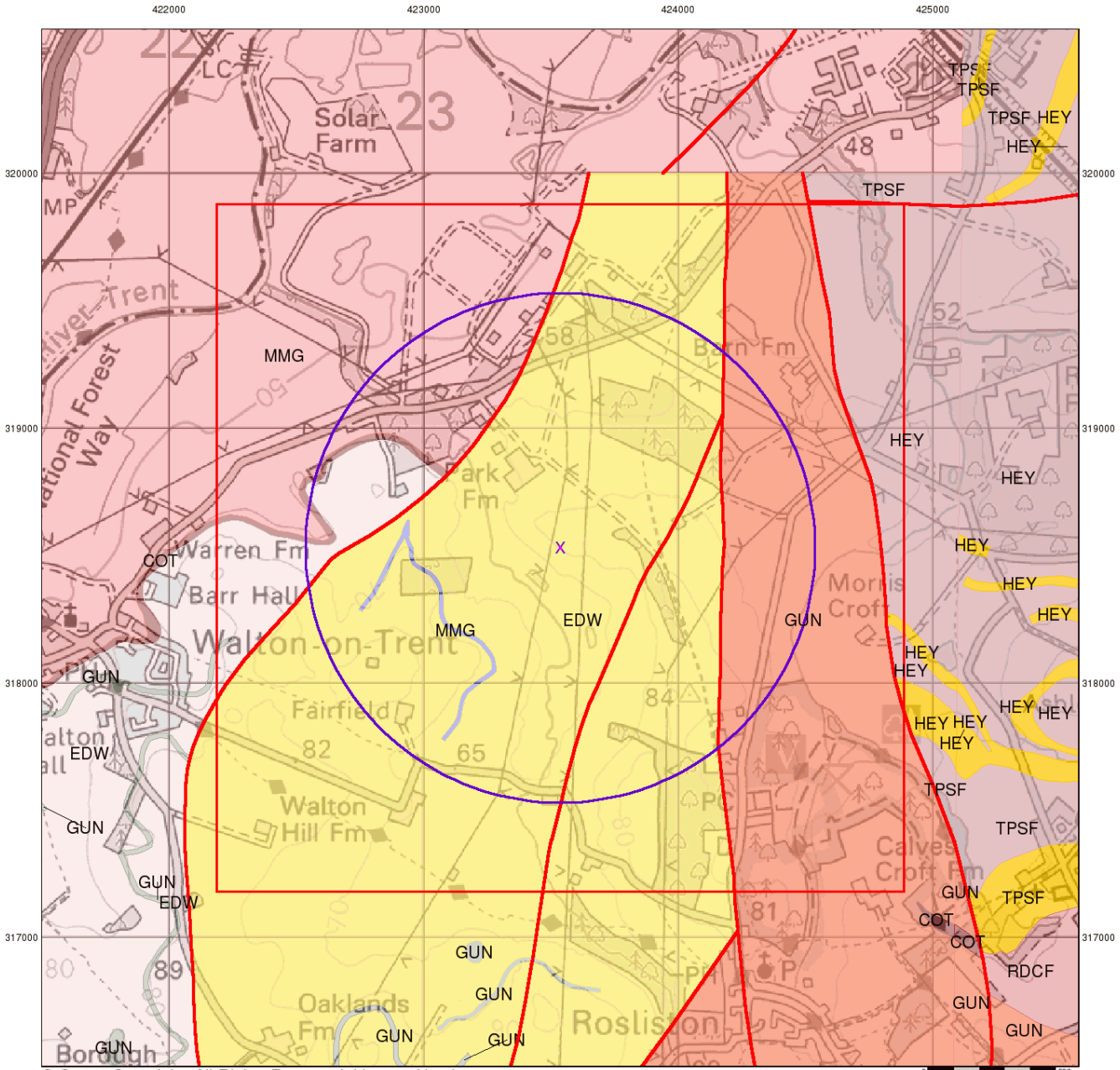

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Bedrock and Faults

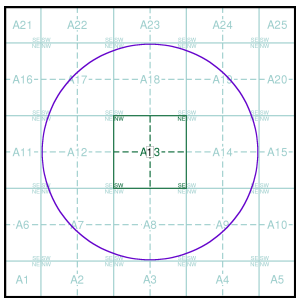
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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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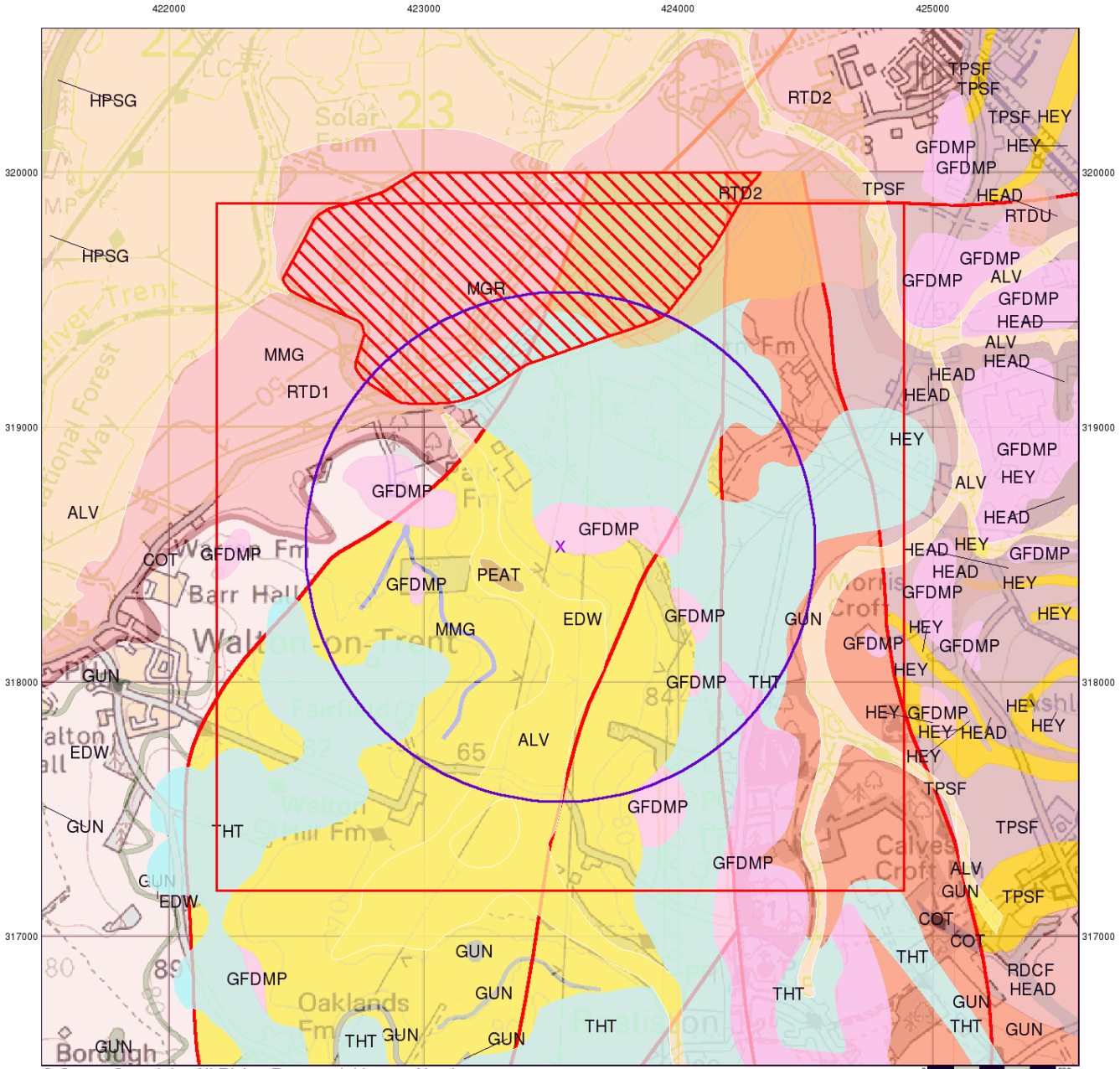

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Combined Surface Geology

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.

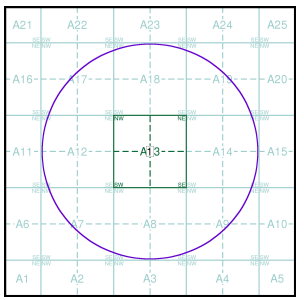
Additional Information

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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Appendix D: CIRIA552 Risk Methodology

Risk classification methodology

The method of risk evaluation adopted in this document is consistent with CIRIA C552 (2001). Hence, risk is considered to be a function of both the probability (likelihood) of contamination occurring at the study site and also the potential severity (consequence) of the environmental impacts associated with this contamination.

The classification system used to define contaminant probability, consequence and risk is described in the following tables.

Table A: Classification of probability

Classification	Definition
High Likelihood	There is a contaminant linkage and an event that appears either very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a contaminant linkage and all the elements are present and in the right place, which means that it is probably that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term, and likely over the long term.
Low Likelihood	There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is contaminant linkage but circumstances are such that it is improbable that an event would occur even in the long term.

Table B: Classification of consequence

Classification	Receptor	Definition	Examples
Severe	Humans	Short-term (acute) risk to human health likely to result in "significant harm" as defined in the CTL Statutory Guidance	High concentrations of cyanide on the surface of an informal recreation area
	Controlled waters	Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource	Major spillage of contaminants from site into controlled water
	Property	Catastrophic damage to buildings/property	Explosion, causing building collapse (can also equate to an acute human health risk if buildings are occupied)
	Ecology	A short-term risk to a particular ecosystem, or organism forming part of such eco-system	Potentially long term derogation of a designated site or protected species
Medium	Humans	Chronic damage to human health ("significant harm" as defined in the CTL Statutory Guidance)	Concentrations of a contaminant from a residential site exceed the site-specific assessment criteria
	Controlled waters	Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution)	Leaching of contaminants from a site to a principal or secondary aquifer
	Property	Significant damage to crops, buildings, structures and services	Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).

Classification	Receptor	Definition	Examples
	Ecology	A significant change in a particular ecosystem	Death of a species within a designated nature reserve
Mild	Humans	Contamination present although unlikely to constitute a significant chronic health risk	Concentrations of a contaminant from a public access site moderately exceed the generic assessment criteria
	Controlled waters	Pollution of non-water resources	Pollution of non-classified groundwater
	Property	Damage to sensitive. buildings/structures/services	Aggressive ground conditions leading to potential for long term degradation of buried concrete
	Ecology	Damage to the environment	Localised damage to aquatic habitat causing temporary relocation of certain species
Minor	Humans	Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.)	The presence of contaminants at such concentrations that protective equipment is required during site works.
	Controlled waters	Potential minor release of contamination to local water features	Short term or low volume release of potentially polluting material to a secondary surface water course of low existing quality
	Property	Easily reparable effects of damage to buildings, structures and services. Harm which may result in a financial loss, or expenditure to resolve.	The loss of plants in a landscaping scheme. Discolouration of concrete
	Ecology	Short term, localised damage may occur; consequences are spatially and temporally limited	Short term or localised disruption to in situ flora or fauna; no lasting effects

Table C: Risk classification (comparison of consequence and probability)

Probability (likelihood)		Consequence (severity)			
		Severe	***Medium***	***Mild***	***Minor***
	High likelihood	Very high risk	High risk	Moderate risk	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

Appendix E: CON29M Coal Mining Report

The Coal Authority

CON29M
coal mining report

WALTON ON TRENT, SWADLINCOTE, DERBYSHIRE, DE12 8LR

Known or potential coal mining risks

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

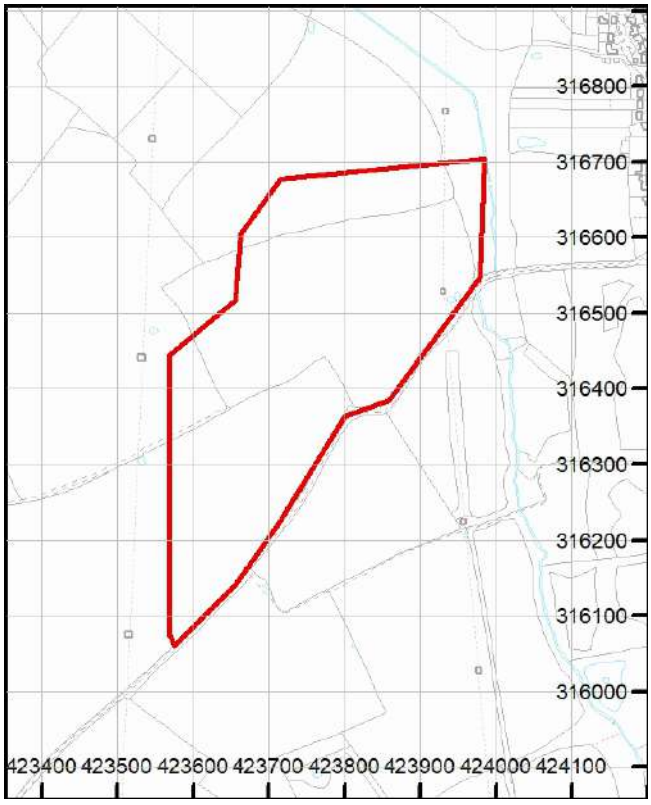
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.

Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 1 seam of coal at 400m to 510m depth, and last worked in 1989.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is in an area where notices to withdraw support were given in 1956 and 1976.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

The Coal Authority

CON29M
coal mining report

WALTON ON TRENT, SWADLINCOTE, DERBYSHIRE, DE12 8LR

Known or potential coal mining risks

Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit www.groundstability.com

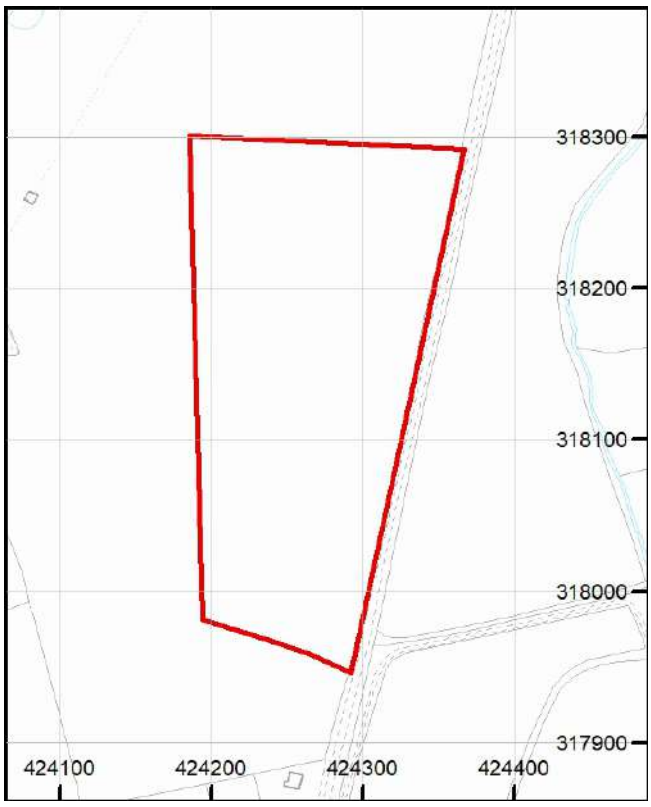
Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is **on the coalfield**

Map data

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 6 seams of coal at 340m to 630m depth, and last worked in 1986.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 Coal mining subsidence

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

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

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

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is in an area where notices to withdraw support were given in 1956 and 1976.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Statutory cover

Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.
www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form

Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call 01623 646 333. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary

Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings