GeoDyne

Geotechnical & Environmental Consultants

Toton West,
Toton

Phase I Desk Study For Bloor Homes Ltd

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Project No: D44116		**Date: 19th December 2024**	
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1.0 INTRODUCTION

1.1 Introduction

GeoDyne Limited has been appointed by the Client, Bloor Homes Ltd, to undertake a Phase I Desk Study on a parcel of land located to the west of Stapleford Lane, Toton, Nottinghamshire. The site is known colloquially as Toton West.

A site location plan (Figure No. D44116/01) is included in Appendix I.

1.2 Project Understanding

We understand that it is proposed to develop the site with up to 420 residential dwellings with associated open space and infrastructure. A Concept Masterplan for the site is included in Appendix II.

The foregoing understanding has formed the basis of our assessment. Where the proposed site end-use is not consistent with our current understanding, it would be necessary to review our assessment to ensure it continues to apply.

1.3 Objectives

The scope of the works detailed herein have been designed to ascertain the key geotechnical and environmental issues pertaining to the proposed development from desk-based research.

1.4 Scope of Works

The scope of the Phase I Desk Study included the following:

- A site walkover.
- Review of available historical and contemporary Ordnance Survey publications relating to the site.
- Review of the sites geology, hydrology and hydrogeology.
- Review of the sites coal mining status.
- Review of the sites radon status.
- Commission of a full detailed Landmark Envirocheck Report relating to the site.
- Commission of Landmark geological mapping data.
- Commission of a Zetica UXO Pre-Desk Study Assessment.
- Production of a preliminary Conceptual Site Model (pCSM).

1.5 Limitations

The conclusions and recommendations made in this report are limited to those that can be made based on the findings of the investigation. Where comments are made based on information obtained from third parties, GeoDyne Limited assumes that all third party information is true and correct. No independent action has been undertaken to validate the findings of third parties.

This report has been prepared in accordance with our understanding of current good practice. However, changes to good practice, guidance or legislation may necessitate revision of this report after the date of issue.

The Phase I Desk Study undertaken herein comprises entirely of non-intrusive works and provides a strategic overview of the site from a geotechnical and environmental perspective and attempts to identify any potential abnormal issues with regard to the proposals for the site.

GeoDyne Limited has prepared this report for the sole use and reliance of Bloor Homes Ltd, in accordance with our standard Conditions & Limitations (included in Appendix IX). This report may not be used or relied upon by any unauthorised third party without the explicit written agreement of GeoDyne Limited. Reliance may not be placed on our report until all invoices associated with the project have been paid.

2.0 SITE DESCRIPTION & HISTORY

2.1 Site Description

The site comprises an irregular shaped parcel of land located to the west of Stapleford Lane, Toton, Nottinghamshire. The site may be located centred around approximate Ordnance Survey National Grid Reference 449170E, 335560N. The site covers an area of approximately 19 hectares.

At the time of our walkover (December 2024), the majority of the site comprised a large agricultural field which was cropped with maize. Our walkover was carried out along the field edges and utilising existing footpaths; access across the field was not possible due to the presence of the dense maize crop. The surface of the site was noted to be wet underfoot with localised areas of ponded water along the field boundaries.

The topography of the site generally fell towards the north / northwest with undulations noted across the site. A drainage ditch was present along the central part of the sites northern boundary and continued through the northwestern area of the site; standing water was observed in sections of the ditch at the time of our visit. A footpath which linked the sites northern boundary to Stapleford Lane ran along the southern side of the ditch in the central area of the site, the footpath spurred south to cross the site and continued into an area of public open space beyond the site to the southwest. An informal footpath followed the route of the ditch through the northwestern area of the site.

Two electricity pylons were present within the site; these were located towards the southwestern corner and within the central area. The pylons were connected by overhead electricity cables. Further overhead cables were present crossing the site, these linked a series of on-site wooden electricity poles.

An area of concrete hard standing was present within the northern boundary, in the eastern end of the site; it is anticipated that this is associated with a former building previously in this area of the site. The concrete was noted to be overgrown with grass and moss. At the time of our visit, fly tipped waste was present on the concrete.

The northern, eastern and western site boundaries were essentially formed by mature hedgerows with occasional trees. The northwestern site boundary was undefined and the field, of which the site comprises part of, continued beyond the boundary to the northwest. The southern site boundary was predominantly formed by wooden fencing associated with offsite residential properties; occasional gates were noted in the fencing providing the residents direct access onto the site. The residential properties comprised part of a large residential estate to the sites south. The southwestern site boundary opened onto public open space.

The land surrounding the site comprised residential dwellings and public open space (to the south), a public footpath and Toton Railway Sidings (to the west), agricultural fields to the north and east (beyond Stapleford Lane), an electricity substation (to the northeast, off Stapleford Lane). Toton Lane Park and Ride (tram station) was present to the sites northeast, beyond the electricity substation and Stapleford Lane. A sewage works and solar farm were also present to the sites north, beyond the fields. A derelict structure (presumed glasshouse associated with a former commercial plant nursery) was also present to the northeast of the site.

An annotated site plan showing the main features of the site and the immediate surrounding area is included in Appendix III of this report (Figure No. D44116/02). Plans showing general views of the site are included in Appendix IV (Figure Nos. D44116/03a to D44116/03c).

An aerial photograph of the site, obtained from the Landmark Analysis tool commissioned as part of our works, is presented in Figure 1, with the current OS mapping plan for the site and surrounding area presented in Figure 2.

Figure 1: Aerial photograph of the site (2024 image)

Figure 2: Current OS Mastermap Plan

2.2 Site History

The historical and contemporary Ordnance Survey publications included within the Landmark Envirocheck Report have been reviewed by GeoDyne to establish the history of the site and its environmental setting. The historical Ordnance Survey maps are included in Appendix V of this report.

We would note that the boundary marked on the historical sheets within the Envirocheck Report appears to 'shift' on several of the maps due to scaling inaccuracies between maps of differing dates. This is a function of Envirocheck transposition algorithms.

The key findings of the historical search are summarised in Table 1.

TABLE 1 – HISTORICAL PUBLICATION DATA		
Date	Features on Site	Features off Site
1880s	• The site is shown to comprise multiple undeveloped fields. The field boundaries locally incorporate trees.	• The majority of the site is shown to be surrounded by undeveloped fields. • A road (later identified as '*Stapleford Lane*' is shown to form the eastern site boundary. • A rail depot ('*Toton Sidings*') is shown approximately 130m to the west of the site. The railway tracks are shown to run in a northwest to southeast direction. • The River Erewash is shown to be present approximately 40m to the west of the site (at the closest point), oriented in a broadly north to south direction and flowing to the south.
1890s	• No maps available for viewing.	• No maps available for viewing.
1900s	• A footpath is shown to pass through the central part of the site from north to south and within part of the sites northern boundary.	• A '*Sewage Works*' is present from approximately 130m to the north of the sites western end.
1910s	• The site remains essentially unchanged.	• A residential dwelling (later '*Bessell Lane Farm*') has been constructed to the northeast of the sites western end.
1920s	• The site remains essentially unchanged.	• A section of the River Erewash approximately 130m to the west of the site appears to have been diverted within a new channel constructed to the west, around the area of Toton Sidings. It is anticipated that the former channel became infilled to enable further expansion of the sidings.
1930s	• The site remains essentially unchanged.	• An electricity pylon is present approximately 145m to the north of the sites eastern end. • The sewage works have expanded. • An additional railway line has been constructed bringing the nearest point of the sidings to approximately 40m to the sites west. • Residential properties have been constructed to the immediate south of the eastern end of the site, as well as the creation of multiple estate roads.
1940s	• No maps available for viewing.	• No maps available for viewing.
1950s	• A '*Drain*' is shown running along field boundaries which cross the northwestern area of the site from the northwest towards the sites central area, after which the drain runs beyond the sites boundary to the northeast. • Two electricity pylons are present on site. These are located towards the southwestern corner and within the central area, an overhead cable links the pylons across the site. A series of electricity posts are also present to the south of the sites centre, also connected by overhead cables. These a linked to an off-site feature to the north of the sites eastern end, later labelled as an Electricity Substation.	• Further residential development has taken place to the southeast of the site. • A number of structures (later shown as an Electricity Substation) have been constructed to the north of the sites eastern end. • Earthworks / embankments are indicated to the sites west in the vicinity of the sidings. • '*Cotswold Nurseries*' is shown to the northeast of the site.
1960s	• Some field boundaries within the site have been removed.	• Further residential development has taken place to the southeast of the site. • Further development has taken place within the rail depot which now lies to the immediate west of the site. • A path is shown to be present immediately beyond the western tip of the site.

TABLE 1 – HISTORICAL PUBLICATION DATA		
Date	Features on Site	Features off Site
1970s	• The footpath previously within the central part of the site is no longer present, a new path is shown to cross the site, running from the northeast to the southwest. • Further field boundaries within the site have been removed.	• Further development has taken place to the northeast of the site. • A small '*Tank*' is shown immediately to the north of the site, within a field.
1980s	• The path in the central area of the site has been rerouted. • An unlabelled structure is present in the northeastern area of the site	• By the late 1980s '*Scrap Yards*' are indicated to be present approximately 200m to the northwest of the site, adjacent to the railway sidings.
1990s	• The aerial photograph dated 1999 shows the site to comprise undeveloped agricultural fields. • Electricity pylons and poles can be seen in the central area of the site. • A drainage ditch can be seen passing through the northwestern area of the site. • A building can be seen within the northeastern area of the site, adjacent to Stapleford Lane. Hard standing surrounds the building.	• Residential development has taken place to the south of the sites western end. • The small tank previously to the sites north has been removed.
2000 & 2006	• The site remains essentially unchanged.	• The surrounding area remains essentially unchanged.
2024	• By 2021, the structure is no longer shown in the northeastern area of the site.	• A '*Park and Ride*' facility has been constructed approximately 100m to the northeast of the site, beyond Stapleford Lane. • An area to the southwest of the site is identified as '*Toton Fields Open Space*'. • The Nursery to the northeast is no longer labelled although the structures remain.

Our walkover of the site revealed the hard standing associated with the former structure in the northeastern area of the site remains in-situ.

2.3 Aerial Photography & Historical Map Overlays

As part of the commissioned Landmark Report, the use of the Landmark Envirocheck Analysis tool was purchased to provide site specific aerial photographic imagery, and to provide the ability to undertake limited historical map overlay manipulation.

The following pictures (Figures 3 and 4) show overlays of the historical map publications from 1921 and 1967 as shown on current aerial imagery.

Figure 3: Current Aerial Imagery Overlain with 1921 Historical Map Data.

Figure 3 shows the site to essentially comprise undeveloped fields. Stapleford Lane is shown to form the eastern site boundary. Toton Sidings are visible to the west of the site.

Figure 4: Current Aerial Imagery Overlain with 1967 Historical Map.

Figure 4 shows the presence of the drain within the northwestern area of the site. Routes of overhead cables pass through the site to the electricity substation to the sites northeast. Residential development has taken place beyond the eastern half of the sites southern boundary.

3.0 GEOLOGY & ENVIRONMENTAL SETTING

3.1 Geological References

The following geological publications were referred to:

- BGS 1:50000 Series Sheet 125 *'Derby'* (2014).
- BGS 1:50000 Series Sheet 141 '*Loughborough*' (2001).
- BGS 1:10560 Series Sheet SK43 NE (1969).
- Landmark geological map sheets (included in Appendix VI).
- The BGS online interactive map viewer and Lexicon of Named Rock Units.
- The Coal Authority online interactive map viewer.
- Environment Agency website: www.environment-agency.gov.uk.

3.2 Geology

Superficial Drift Deposits

The site is not indicated to be underlain by drift deposits. An area of Alluvium is indicated to be present to the west of the site and may potentially encroach into the western area of the site. Alluvium is described in the reviewed publications as '*…clay, silt, sand and gravel. It is the unconsolidated detrital material deposited by a river, stream or other body of running water'.*

Drift deposits can change very rapidly in geotechnical competence and consistency both laterally and vertically over relatively short distances and have the potential to be water bearing.

Bedrock Geology

It is noted that the site straddles the boundary of two geological maps, the northern map sheet (Derby, dated 2014) covers the majority of the site, with the southwestern tip of the site covered by the Loughborough sheet (2001).

The bedrock underlying the majority of the site and surrounding area is indicated to comprise the Tarporley Siltstone Formation of the Mercia Mudstone Group.

The Tarporley Siltstone Formation is described in the reviewed publication as '*Heterolithic comprising interlaminated and interbedded siltstones, mudstones and sandstones in approximately equal proportions. The siltstones are micaceous and interlaminated with mudstones or sandstones; most of the mudstones appear structureless with a blocky habit. The sandstones area mostly very fine- to fine-grained sandstone, finely interlaminated; pinkish red or red-brown subordinately green*'.

Bedrock of the Radcliffe Formation (Mercia Mudstone Group) is shown on the earlier geological map sheet to underlie the southwestern tip of the site. This is described in the reviewed publications as '*Mudstone, siltstone and very fine-grained sandstone, finely interlaminated; pinkish red or red-brown, subordinately green*'.

The mudstone may weather to clay, the siltstone may weather to silt and the sandstone may weather to sand in the near surface horizons.

It is noted that the boundaries between the Tarporley Siltstone Formation and the Radcliffe Formation do not appear to fully align between the two geological mapping sheets and it is possible that this is a result in differences in the geological surveying and renaming of the formations of Mercia Mudstone Group between the two maps. In current mapping nomenclature, the Radcliffe Formation is known as the Radcliffe Member of the Sidmouth Mudstone Formation (part of the Mercia Mudstone Group).

3.3 Faults

No faults are indicated to be present within the boundary of the site, or within the immediate vicinity of the site.

3.4 Man-Made Deposits

No man-made deposits (i.e. Made Ground) are indicated to be present within the site on the geological publications. However, Made Ground or Disturbed Ground may be locally anticipated in the vicinity of the former structure which was present in the northeastern area between circa 1980s and relatively recently.

A significant area of Made Ground is indicated to be present to the immediate west and northwest of the site associated with the railway sidings and sewage treatment works. Due to mapping and scaling inaccuracies, this area of Made Ground may locally encroach within the western area of the site.

3.5 Unexploded Ordnance Risk

As part of our works, GeoDyne Ltd has commissioned a UXO Pre-Desk Study Assessment (PDSA) for the site from Zetica. A copy of the PDSA is included in Appendix VII.

The PDSA notes military activity occurred in close proximity to the site. Chilwell National Filling Factory (NFF) was established during WWI. This facility later became an army ordnance store for munitions, with continuous use during WWII. After WWII, the depot became 'Chetwynd Barracks' and remains in use as an operational barracks.

With respect to bombing during both WWI and WWII, the PDSA stated '*No readily available records have been found indicating that the Site was bombed*'. The PDSA recommended the following with respect to UXO risk at the site '*A detailed desk study is recommended to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the site*'.

3.6 Landmark Envirocheck Report

A Landmark Envirocheck Report was commissioned to assist in ascertaining the environmental setting of the site. The full Envirocheck report is presented in Appendix VIII and has revealed the following key relevant information (details are only listed where they are within potential influencing distance of the site).

No comments have been made in our report with respect to potential flooding issues. Advice from a qualified drainage consultant should be sought by the Client with respect to this matter.

3.6.1 Agency and Hydrological

<u>Aquifer Status</u>

The aquifer designation maps are presented in Appendix VIII and are based on geological mapping provided to Landmark by the British Geological Survey. Different aquifer classifications may be applied to superficial (drift) deposits (typically forming shallow perched groundwater units where present) and bedrock aquifers (which may contain regional groundwater units). Possible aquifer designations comprise Principal Aquifers, Secondary (A, B or Undifferentiated) Aquifers and Unproductive Strata.

The bedrock underlying the approximate northern half of the site, and locally beneath the southern area of the site is classified as a Secondary A Aquifer, the bedrock across the remainder of the site is classified as a Secondary B Aquifer.

Secondary A Aquifers are described by the Environment Agency 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. These are generally aquifers formerly classified as minor aquifers'.*

Secondary B Aquifers are described by the Environment Agency 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. These are generally the water-bearing parts of the former non-aquifers'.*

Source Protection Zone Status

The site is not shown to lie within a Source Protection Zone (SPZ), as designated by the Environment Agency. SPZs relate to the protection of groundwater resources principally for public drinking water supply.

Groundwater Abstractions

No entries are listed within 250m of the site boundary in the Envirocheck report.

Substantiated Pollution Incident Register

There is one entry listed within 250m of the site, located approximately 131m west of the site. The incident occurred in 2017 and is recorded as '*Category 3 – Minor Incident*' for waters, '*Category 4 – No Impact*' for air and '*Category 2 – Significant Incident*', for land. The pollutant is specified as '*Oils And Fuel: Mixed/Waste Oils*'.

Discharge Consents

There are 24 entries within 250m of the site, the closest being recorded approximately 183m to the sites northwest. Twenty two of the consents are under the operation of '*Severn Trent Water Limited*' and relate to the sewage works to the northwest of the site, the consents were issued between the years of 1990 and 2021; seventeen of these consents have been revoked. The remaining consents relate to discharge of final/treated effluent to land/soakaway from the railway sidings to the sites west.

Surface Water

The nearest surface water feature is indicated to be present on site. This appears to relate to a drain, which is shown to be present along the central section of the northern site boundary and passing through the northwestern area of the site, towards the northwest. At the time of our walkover (December 2024) standing water was present within sections of the drain.

3.6.2 Waste

There are no waste sites (i.e. current or historic landfills, waste transfer stations etc) identified on the site.

The Envirocheck report identifies two Licensed Waste Management Facilities with 250m of the site. The closest of these facilities is located approximately 177m to the west of the site. This facility is operated by '*Euro Breakers Limited*' and is categorised as a vehicle depollution facility. The second record relates to a '*Metal Recycling Sites (Vehicle Dismantlers)*' located approximately 239m to the northwest of the site, operated by '*Auto Solutions 2000 Limited*'.

There is one entry related to a Registered Waste Treatment or Disposal Site located approximately 221m to the northwest of the site. The site is operated by '*Metro Breakers Ltd*' and is categorised as a scrapyard.

There are no Potentially Infilled Land (Water) entries at the site. However, four records of Potentially Infilled Land (Water) are identified within 250m of the site. The entry recorded approximately 129m to the sites west appears to relate to the former channel of the River Erewash which was diverted to the west, beyond the railways sidings circa 1920s. It is anticipated that the former channel became infilled at this time to enable expansion of the railway sidings. Based on historical mapping, the remaining three records appear to relate to small drainage ditches located between 93m and 190m to the west or northwest of the site.

We would note that the area of Made Ground identified to the sites immediate west on the geological mapping (see Section 3.4) also encompasses the area of the former river channel.

3.6.3 Hazardous Substances

There are no entries associated with hazardous substances (i.e. sites dealing with explosives etc) within 250m of the site, identified in the Envirocheck Report.

3.6.4 Geological Issues

BGS Soil Chemistry

The BGS has prepared estimated soil concentration maps for several metals (including Arsenic, Lead, Nickel, Chromium and Cadmium), which are extrapolated from records available for use within their assessments.

Whilst potentially useful for the inference of Natural Metal Enrichment (NME) of the natural soils in a general locale, the data should not be used to inform any detailed decisions with regards to the chemistry of a particular site as it does not allow for anthropogenic effects. Estimates of the soil chemistry at the site indicate anticipated concentrations of Arsenic of <15mg/kg, Cadmium of <1.8mg/kg, Chromium of 40-90mg/kg, Lead <100-200mg/kg and Nickel of <15-45mg/kg.

Based on the information supplied within the Envirocheck report, the site is not shown to be located within an area where Natural Metal Enrichment of the underlying natural soils is likely to be present. However, this is only applicable to the specific determinands listed above.

Ground Stability Hazards

No significant ground stability hazards have been identified by the Envirocheck report that relate to the site (including from collapsible, dissolution, compressible, running sand, landslide and shrinking or swelling clay ground stability hazards).

Coal Mining Affected Areas

The Envirocheck report reveals that the site is in an area that might not be affected by coal mining activity. This is confirmed by the Coal Authority Interactive Map Viewer, which reveals that the site does not lie within a Coal Mining Reporting Area.

Radon

The Envirocheck report identifies that the site lies within a lower probability Radon area and no Radon protective measures are necessary in the construction of new dwellings or extensions.

BGS Borehole Records

The Envirocheck report (and the BGS online interactive map viewer) indicates that there are no BGS borehole records within the site, or within the immediate vicinity of the site.

Mining and Ground Stability Datasheet

The Landmark Mining & Ground Stability Datasheet (included within Appendix VIII) confirms the former presence of the watercourses, including the former channel of the River Erewash and ditches, in the vicinity of the site (see Section 3.6.2).

3.6.5 Industrial Land Use

Contemporary Trade Directory Entries

There are eleven contemporary trade directory entries recorded between 22m and 231m of the site. Two entries are recorded as Active, relating to a printing company and a washing machines servicing and repairs company. The remaining nine entries are indicated to be inactive; these entries include air conditioning and refrigeration contractors, office furniture and equipment, printers, engineering machine services, packaging materials manufacturers and suppliers, laundry equipment sales and service and salvage dealers.

Points of Interest – Commercial Services

There are three commercial services recorded within 250m of the site; these relate to construction services (metalworkers including blacksmiths) and recycling services (scrap metal merchants; two records at the same location).

Points of Interest – Manufacturing and Production

There are two records detailed within 250m of the site; these relate to industrial features comprising '*Tanks (Generic)*' located approximately 78m to the southwest (within the railway land) and a '*Solar Farm*' located approximately 220m to the sites northwest.

Points of Interest – Public Infrastructure

Three records are listed within 250m of the site; these all relate to the sewage works to the sites northwest (records detailed between 206m and 248m from the site).

Points of Interest – Recreational and Environmental

There are two entries relating to a playground (approximately 150m, to the sites south).

3.6.6 Sensitive Land Use

Nitrate Vulnerable Zone

The site and immediate surrounding area are identified as being within a Nitrate Vulnerable Zone.

3.7 Land Use Assessment

As part of the land use assessment, reference has been made to the *'Desk Reference Guide to potentially Contaminative Land Uses'* produced by Mr P Syms and published jointly by the ISVA (The professional Society for Valuers and Auctioneers) in association with The Royal Institution of Chartered Surveyors (RICS) and the Chartered Institute of Environmental Health (CIEH).

We have also made reference to the Department for Environment, Food and Rural Affairs and the Environment Agency Contaminated Land Report CLR8 *'Potential Contaminants for the Assessment of Land'* (March 2002). Although now formally withdrawn, this document identifies key contaminants which may potentially be present at a site as a result of a given historical land use and is considered useful as a desk based ready reference guide.

3.7.1 On Site Assessment

At the time of our walkover (December 2024), the site essentially comprised part of a large agricultural field. Based on reviewed historical information, the majority of the site has essentially remained unchanged since the earliest available historical mapping of the 1880s, with the exception of the construction of electricity pylons and poles on the site and the construction of a small building adjacent to Stapleford Lane circa 1980s. The mapping reveals the building has recently been removed, although hard standing in the area of the former building remains.

Based on the information obtained from our desk study enquiries, our walkover of the site and experience of similar sites, potential general soil contamination that may be present could include:

- Metals and metalloids associated with any potential localised Made Ground beneath the site.
- Polycyclic Aromatic Hydrocarbons (PAHs) from any ashy inclusions and / or carbonaceous inclusions in the near surface soils.
- Pesticides and herbicides associated with the historical agricultural use of the site.
- Asbestos containing materials associated with any localised Made Ground beneath the site and construction materials to the former on-site building.
- Hazardous ground gases (i.e. methane and carbon dioxide) associated with any localised on-site Made Ground, potentially associated with the adjacent railway land.

3.7.2 Off Site Assessment

With regards to potential sources of chemical contamination, based on the findings of the Phase I desk study enquiries, there are potentially contaminative land uses known to be present within close proximity to the site.

The Syms document has revealed that, based on information obtained from the desk study and our site walkover, the land to the west of the site, Toton Sidings, falls into the land use of '*Railway Land inc. Yards and Tracks*'. The Syms document states that '*Contamination can occur through the construction processes employed in the establishment of the railway tracks; through the operation of the engineering depots; goods yards and sub-stations*'. The document further states that '*Buildings may have been insulated with asbestos as a lagging material or roofing / cladding, some of which may have been buried on site*'. Asbestos is also known to have been used historically within brake linings, and therefore potentially used within the brakes of trains / locomotives at the sidings.

It is considered that whilst the sidings are not located on the site, it is possible that during operation of the sidings that material could have migrated to the site either by movement of material onto adjacent land (i.e. the site) during construction processes, or, in the case of asbestos, windblown deposition of fibres onto the site.

The following contaminants may be present on-site associated with potential off-site activities, based on the information obtained from the desk study:

- Asbestos containing materials associated with the railway sidings to the sites immediate west.
- Polychlorinated Biphenyls (PCBs) associated with the substation to the northeast of the site.

Based on the information obtained from the desk study, the following sources of potentially hazardous ground gas (i.e. carbon dioxide and methane) have been identified within potential influencing distance (i.e. <250m) of the site:

- Made Ground indicated by geological maps to be present to the west / northwest of the site.

- Infilled Land associated with the route of the former river channel to the west of the site. It is noted that the Infilled Land is depicted to lie within the area of Made Ground associated with the railway sidings (as indicated on geological mapping) and therefore, it is anticipated that the river channel became infilled following diversion of the river, to enable expansion of the railway sidings.

4.0 PRELIMINARY CONCEPTUAL SITE MODEL

4.1 General

The DEFRA publication *'Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance'* (dated April 2012) states the following with regards to the production of a Conceptual Site Model (CSM) for a site:

'The process of risk assessment involves understanding the risks presented by land, and the associated uncertainties. In practice, this understanding is usually developed and communicated in the form of a "conceptual model"'. The development of a CSM is typically undertaken in an iterative process, reflecting the changes in understanding as more detailed site information becomes available.

In developing a CSM, and specifically in the context of land contamination, consideration needs to be given to three essential elements; which form the basis of any risk present. The statutory guidance sections 3.8 and 3.9 (April 2012) states the following:

(a) 'A "contaminant" is a substance which is in, on or under the land and which has the potential to cause significant harm to a relevant receptor, or to cause significant pollution of controlled waters.
(b) A "receptor" is something that could be adversely affected by a contaminant, for example a person, an organism, and ecosystem, property, or controlled waters...
(c) A "pathway" is a route by which a receptor is or might be affected by a contaminant.

The term "contaminant linkage" means the relationship between a contaminant, a pathway and a receptor'. For a contaminant linkage to be plausible, all three elements need to be present.

In undertaking a risk assessment and deriving a CSM for the purposes of the redevelopment of a site (i.e. planning and development control) reference has been made to both the Model Procedures for the Management of Land Contamination, as well as the National Planning Policy Framework (NPPF, dated July 2018).

The preliminary CSM should identify the hazards (source of potential contamination) and should set out the potential pollutant linkages with a view to identifying the nature and magnitude of the potential risks to receptors.

In order to undertake the foregoing assessment, consideration is required with respect to the probability or likelihood of the linkage occurring and the severity and significance of the potential consequences; taking account the nature of the pollutant linkage and the potential severity of the hazard and the sensitivity of the receptor within the context of the proposed land use (in consideration of the planning regime).

Consideration of consequence/severity, probability/likelihood and risk has been based on the following guidance documentation:

- CIRIA C552 *'Contaminated Land Risk Assessment, A Guide to Good Practice'*, 2001.
- EA R&D publication 66 '*Guidance for the Safe Development of Housing on Land Affected by Contamination*', 2008.

4.2 Classification of Consequences

In order to apply a consequence classification to a particular potential pollutant linkage, it is first necessary to define the terminology used within the classification system. The following terminology and definitions detailed in Table 2 have been adopted within our assessment, based on the guidance referenced in Section 4.1.

TABLE 2 – CLASSIFICATION OF CONSEQUENCES

Classification	Definition
Severe	• Acute risks to human health. • Short-term risk of pollution of controlled waters or significant impact on controlled waters; e.g. large-scale pollution or very high levels of contamination. • Catastrophic damage to buildings or property (such as building explosion causing collapse). • Ecological system effects – immediate risks of major damage which is likely to result in irreversible substantial adverse changes in the functioning of the ecosystem or harm to a species of special interest that endangers the long-term maintenance of the population.
Medium	• Chronic risks to human health. • Pollution of sensitive water resources (such as leaching of contaminants into controlled waters) causing a significant effect on water quality. • Ecological system effects – Immediate risks of significant damage which may result in substantial adverse changes to the ecosystems functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. • Significant damage to buildings, structures and services (for example foundation damage or rendering the building unsuitable for habitation).
Mild	• Non-permanent health effects to human health (i.e. exposure is unlikely to lead to ‘significant harm’ in the context of Part 2A of the Environmental Protection Act 1990. • Pollution of controlled waters or non-sensitive water resources (for example non-classified groundwater) that results in a short-lived effect to water quality or a marginal effect on amenity value, agriculture or commerce. • Minor damage to buildings, structures and services. • Ecological system effects – Minor or short-term damage which is unlikely to result in substantial adverse changes to the ecosystems functioning or harm to a species of special interest. • Substantial damage to non-sensitive environments (such as arable farmland for example).
Minor	• No measurable effects on human health including non-permanent health effects to human health that are easily preventable by appropriate use of PPE/RPE. • Minor pollution of controlled waters including non-sensitive water resources with no discernible effects on water quality or ecosystems. • Minor damage to non-sensitive environments (including arable farmland for example). • Easily repairable effects of damage to buildings, structures, services or the environment (for example discolouration of concrete, loss of plants in a landscaping scheme etc.).

4.3 Classification of Probability

Once the possibility of a pollutant linkage has been established (noting that probability classification does not apply when there is no possibility of a linkage being present), the probability should be classified in accordance with Table 3.

TABLE 3 – CLASSIFICATION OF PROBABILITY

Classification	Definition	Likelihood
High Likelihood	There is a pollutant linkage and an event is highly likely to occur in the short-term, and is almost inevitable over the long-term OR there is evidence at the receptor of harm or pollution occurring.	>95% likelihood of Consequence Occurring
Likely	There is a pollutant linkage and it is probable that an event will occur. It is not inevitable, but possible in the short-term and likely over the long-term.	50 – 95% likelihood of Consequence Occurring
Low Likelihood	There is a pollutant linkage and circumstances are possible under which an event could occur. It is by no means certain that even over a longer period such an event would take place, and less likely in the short-term.	5 – 49% likelihood of Consequence Occurring
Unlikely	There is a pollutant linkage and it is improbable that an event would occur even in the very long-term.	<5% likelihood of Consequence Occurring

4.4 Classification of Risk

In order to establish the relevant risk term applicable to the identified pollutant linkage, one of the risk phrases identified within Table 4 must be adopted, with the definitions of each risk term detailed within Table 5.

TABLE 4 – RISK CLASSIFICATION MATRIX (BASED ON C552 CIRIA, 2001)

		Consequence of Risk			
		Severe	Medium	Mild	Minor
Probability (Likelihood)	High Likelihood	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Negligible
	Unlikely	Moderate/Low	Low	Negligible	Negligible or No Potential Risk

TABLE 5 – RISK CLASSIFICATION DEFINITIONS (BASED ON C552 CIRIA, 2001)

Very High	There is a high probability that severe harm will arise to a designated receptor from an identified hazard OR there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, there is a low likelihood that such harm would be severe, or if any harm were to occur it is more likely that the harm would be mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Moderate/Low	It is possible that harm could arise to a receptor. However, a combination of likelihood and consequence results in a risk that is above low but is not of sufficient concern to be classified as moderate. It can be driven by cases where there is an acute risk which carries a severe consequence, but where the exposure is unlikely. Such harm would at worst normally be mild. The risk is unlikely to present a substantial liability. Some limited further investigation may be required to clarify the risk and any associated liability. If subsequent remediation works are necessary, they are likely to be limited in extent.
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Negligible	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is unlikely to be any worse than mild. No liability would be associated with such risks.
No Potential Risk	There is no potential risk or liability where no pollutant linkage has been established.

4.5 Contaminant [C] - Pathway [P] - Receptor [R] Considerations

The following CPR assessment has been undertaken based on the assumption that it is proposed to develop the site with residential dwellings and associated open space and infrastructure.

4.6 Consideration of Potential Sources of Contamination [C]

Based on the findings of our desk study works, the potential key sources of contamination at the site that would require consideration for the derivation of a preliminary CSM would be the following:

TABLE 6 – SUMMARY OF POTENTIAL CONTAMINANT SOURCES	
Areas of Potential Concern (APCs)	Associated Contaminants
• Near Surface Soils (including potential localised Made Ground)	• Metals & Metalloids. • PAHs. • Pesticides. • Asbestos. • PCBs.
• Potential On-Site Made Ground and Off-Site Made Ground & Infilled Land	• Ground gases (including methane & carbon dioxide).

4.7 Consideration of Potential Pathways [P]

The potential pathways at the site are primarily:

- Direct ingestion of soil (either directly or as soil particles attached to produce).
- Inhalation of fugitive dust and vapours.
- Direct skin contact with the ground.
- Direct ingestion of home-grown produce.
- Direct ground contact with construction materials (including supply pipes).
- Vertical and lateral migration of contamination.
- Vertical and lateral migration of potentially hazardous ground gases/vapours.

4.8 Consideration of Potential Receptors [R]

The potential receptors at the site are:

- The final end users (residents – typically long term (chronic) exposure) and site visitors – (typically short term (acute) exposure).
- The construction personnel (i.e. site workers) involved with the development of the site (typically short term (acute) exposure).
- Neighbouring properties (off-site receptors).
- Controlled Waters (i.e. underlying groundwater and nearby surface waters).
- Buildings and construction materials (including buried utilities).

In preparing this CSM, it has been assumed that construction personnel involved with the development of the site (typically short term (acute) exposure) will adopt all necessary personal protective equipment (PPE and RPE etc.) and conform to health and safety requirements of their site-specific Risk Assessments and Method Statements (RAMS). Site workers have therefore not been included within the following table, as the adoption of these appropriate mitigation measures will result in an overall low risk of exposure to the C-P-R linkages identified.

4.9 Preliminary Risk Assessment / Conceptual Site Model

Our preliminary conceptual model of possible pollutant linkages, applicable to the proposed site usage and based on our current understanding, is summarised in Table 7.

TABLE 7 – PRELIMINARY RISK ASSESSMENT SUMMARY TABLE
DESK STUDY

Potential Contaminant Source [C]	Potential Pathway(s) [P]	Potential Receptor [R]	Probability of CPR Linkage	Consequence of CPR Linkage	Risk Level	Comments / Justification
Near Surface Soils (including potential localised Made Ground)	Direct contact, ingestion or inhalation of fugitive dust and vapours	End users	Likely	Medium	Moderate	The site has essentially comprised agricultural land. Localised Made Ground may be anticipated on site associated with the former building. Furthermore, localised Made Ground may encroach within site, associated with the adjacent railway sidings. The railway sidings and electricity substation in close proximity to the site are considered a source of possible contamination. End users are likely to come into contact with the in-situ soils. Further consideration of this potential linkage should be provided during the course of the Phase II Exploratory Investigation works.
	Plant uptake / soil attached to home grown produce	End users	Likely	Medium	Moderate	The site has essentially comprised agricultural land. Localised Made Ground may be anticipated on site associated with the former building. Furthermore, localised Made Ground may encroach within site, associated with the adjacent railway sidings. The railway sidings and electricity substation in close proximity to the site are considered a source of possible contamination. Growing vegetables for private consumption may be anticipated at the site. Further consideration of this potential linkage should be provided during the course of the Phase II Exploratory Investigation works.
	Vertical and lateral migration	Neighbouring properties	Low Likelihood	Mild	Low	The site has essentially comprised agricultural land. Localised Made Ground may be anticipated on site associated with the former building. Furthermore, localised Made Ground may encroach within site, associated with the adjacent railway sidings. The railway sidings and electricity substation in close proximity to the site are considered a source of possible contamination. No significant on-site sources of potentially mobile contamination have been identified. Further consideration of this potential linkage should be provided during the course of the Phase II Exploratory Investigation works.

TABLE 7 – PRELIMINARY RISK ASSESSMENT SUMMARY TABLE
DESK STUDY

Potential Contaminant Source [C]	Potential Pathway(s) [P]	Potential Receptor [R]	Probability of CPR Linkage	Consequence of CPR Linkage	Risk Level	Comments / Justification
Near Surface Soils (including potential localised Made Ground)	Leaching of contaminants through unsaturated zone and / or vertical and lateral migration	Controlled Waters	Low Likelihood	Medium	Moderate/Low	The site has essentially comprised agricultural land. Localised Made Ground may be anticipated on site associated with the former building. Furthermore, localised Made Ground may encroach within site, associated with the adjacent railway sidings. The bedrock underlying the site is classified as both a Secondary A and Secondary B Aquifer. The site does not lie within a designated SPZ. A ditch is present in the northwestern area of the site. No significant on-site sources of potentially mobile contamination have been identified. Further consideration of this potential linkage should be provided during the course of the Phase II Exploratory Investigation works.
	Direct contact or contact with vapours	Plastic building products (e.g. water supply pipes) and buried concrete	Low Likelihood	Mild	Low	No potentially significant historical contaminative land uses have been identified at the site. Localised Made Ground may contain elevated levels of contaminants that may affect plastic building products. Further consideration of this potential linkage should be provided during the course of the Phase II Exploratory Investigation works.
Potential On-Site Made Ground and Off-Site Made Ground & Infilled Land	Vertical and lateral migration of ground gases to indoor air	End users of new buildings (asphyxiation) or new buildings (damage via explosion)	Likely	Severe	High	Localised Made Ground may encroach within site, associated with the off-site railway sidings. Made Ground and Infilled Land is indicated to be present to the immediate west / northwest of the site. These man-made deposits may represent potential sources of hazardous ground gases (i.e. methane and carbon dioxide). Further consideration of this potential linkage (including a programme of ground gas monitoring) should be provided during the course of the Phase II Exploratory Investigation works.

The foregoing preliminary conceptual model highlights the potential plausible pollutant linkages that may relate to the site and would therefore require addressing by appropriate Phase II Exploratory Works. The information contained within the conceptual model should be confirmed and revised upon completion of an appropriate intrusive investigation.

5.0 CONCLUSIONS

5.1 Site Summary

- At the time of our walkover (December 2024), the site comprised part of a large agricultural field. A drainage ditch was present along the central part of the northern site boundary and crossed the northwestern area of the site.
- A footpath passed through the central area of the site and within the central northern site boundary. Further informal footpaths were present within the site.
- Overhead electricity cables passed through the site, these were linked by a series of pylons and poles.
- Historically, the site is indicated to have remained largely undeveloped since at least the 1880s, although a small structure was present in the northeastern area of the site from circa 1980s until recently.
- Bedrock of the Mercia Mudstone Group is indicated to underlie the site. Beneath the majority of the site this comprises the Tarporley Siltstone Formation and beneath the southwestern tip of the site, this comprises the Radcliffe Member.
- No drift deposits are indicated to underlie the site.
- A large area of Made Ground is indicated to be present to the immediate west and northwest of the site, associated with off-site railway sidings and sewage treatment works
- The bedrock beneath the site are indicated to comprise a Secondary A Aquifer or a Secondary B Aquifer.
- The site is not located within a Source Protection Zone (SPZ).

5.2 Geotechnical Assessment

We understand that it is the intention of the Client to develop the site with low-rise residential properties. The bedrock geology across the site typically represents suitable bearing strata for traditional shallow foundations.

The foundation and floor slab design for the site will depend on the results of intrusive geotechnical investigative works. These works should confirm the absence (or presence) of any Made Ground, determine the depth to, and strength of, the Natural Strata, and provide an assessment of the volume change potential of any potentially cohesive soils.

Our desk study enquiries and walkover revealed the presence of a former structure within the northeastern area of the site. Associated hard standing remains in-situ in the vicinity of the now demolished structure. We would note that the ground in the location and vicinity of the former structure is anticipated to be locally disturbed and there is the potential for relict foundations to the structure to remain in-situ.

Should any significant areas of Made, Infilled or Disturbed Ground be present at the site, this may necessitate alternative foundation solutions.

An appropriate scope of geotechnical tests should also be included within a suitable Phase II investigation for the purposes of designing foundations (including plasticity index analysis and / or particle size distribution analysis, water soluble sulphate / pH etc).

5.3 Building Near Trees

Foundation designs may need to be locally adjusted when building near existing, recently removed or proposed trees and hedgerows.

Hedgerows and trees are present along the site boundaries and it is recommended that these are surveyed and identified by a qualified arborist prior to development, where appropriate, to assist with detailed foundation design.

5.4 Ground Gas

The Desk Study enquires revealed the presence of Made Ground and Infilled Land to the sites west / northwest. There is the potential for the off-site Made Ground to encroach locally onto the western area of the site. The Made Ground and Infilled Land are considered to represent potential sources of ground gases (i.e. methane and carbon dioxide), which have the potential to affect the proposed residential development.

Therefore, it is recommended that a programme of ground gas monitoring be undertaken at the site as part the Phase II works to confirm the ground gas regime and determine the requirement for any ground gas precautions within the proposed dwellings.

5.5 Coal Mining

No specific investigation or mitigation in relation to historical coal mining issues are considered to be necessary at the site.

5.6 Radon

No radon protective measures are necessary at the site, in accordance with the Envirocheck report.

5.7 Water

The results of the intrusive investigation and monitoring programme will assist in establishing the groundwater regime beneath the site.

5.8 Surface Water Drainage

The use of soakaways would be subject to the ground conditions encountered during the intrusive works and the results of in-situ permeability testing (if deemed appropriate). However, according to geological mapping the site is anticipated to be underlain by relatively impermeable strata and soakaways are unlikely to be feasible at the site.

5.9 Contamination Risk

It is considered that the following contaminants represent an appropriate list of determinands for initial assessment with regards to potential contamination risks at the site.

- Metals and metalloids associated with any potential localised Made Ground beneath the site.
- Polycyclic Aromatic Hydrocarbons (PAHs) from any ashy inclusions and / or carbonaceous inclusions in the near surface soils.
- Pesticides and herbicides associated with the historical agricultural use of the site.
- Asbestos containing materials associated with any localised Made Ground beneath the site and construction materials to the former on-site building and the railway sidings to the sites immediate west.
- Polychlorinated Biphenyls (PCBs) associated with the substation to the northeast of the site.

The foregoing contaminants have the potential to adversely impact site workers, end users (i.e. residents) and building structures.

Detailed Phase II Exploratory Investigation works will be required to attempt to further investigate and resolve the potential contaminant risk. At this stage, we envisage undertaking a contamination assessment for the plausible contaminants identified at the site.

The requirement for water testing would be dependent upon the findings of the intrusive investigation (although is considered to be unlikely).

5.10 Unexploded Ordnance

The Zetica PDSA report recommends that a detailed Desk Study is prepared (by a UXO specialist) to assess and potentially zone the Unexploded Ordnance hazard level on the site. It is recommended that this Desk Study is commissioned by the Client in advance of commencement of construction works.

5.11 Statutory Consultation

We would recommend that a copy of this Phase I Desk Study report is issued (by the Client) to the Local Planning Authority for review and comment as part of the planning application process.

Any comments made by the Local Authority, or their appointed consultees, should be incorporated into the Phase II Exploratory Investigation to ensure that the intrusive investigation is acceptable to all parties.

5.12 Recommended Phase II Exploratory Works

Proposed Phase II Exploratory Works should be sufficient to investigate the possible issues raised in the Phase I Desk Study and should be undertaken in general accordance with current industry good practice. Based on our current understanding (preliminary Conceptual Site Model), it is recommended that Phase II works comprise the following, as a minimum:

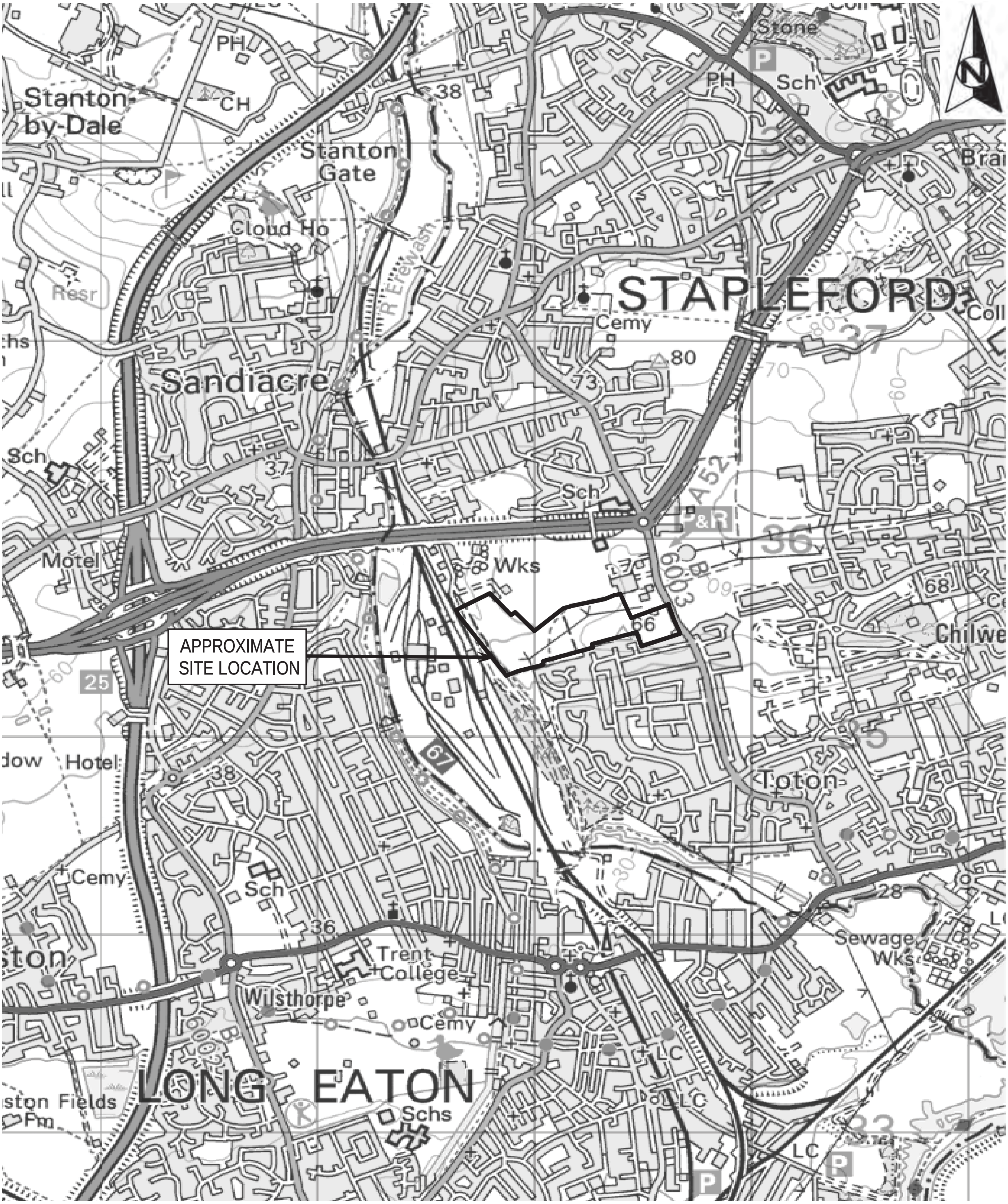
- A programme of exploratory holes across the site to provide an initial inspection of the ground conditions for geotechnical and environmental purposes.
- Appropriate geotechnical soil analysis.
- Contamination testing of soil samples.
- A programme of ground gas monitoring to confirm the ground gas regime and determine the requirement for any ground gas precautions within the proposed dwellings.

5.13 Closing Comment

Based on the evidence of the findings of the Phase I Desk Study enquiries and following the implementation of any necessary remedial measures, the site is considered likely to be suitable for the proposed end-use from a geotechnical and environmental perspective.

APPENDIX I

Site Location Plan
(Figure No. D44116/01)



Project No.	D44116	Drawn	SJ
Client	Bloor Homes Ltd	Checked	CEH
Project	Toton West, Toton	Approved	PK
		Scale	NTS
		Date Drawn	17/12/2024
Title	Site Location Plan	Rev.	
		Figure No.	D44116/01

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APPENDIX II

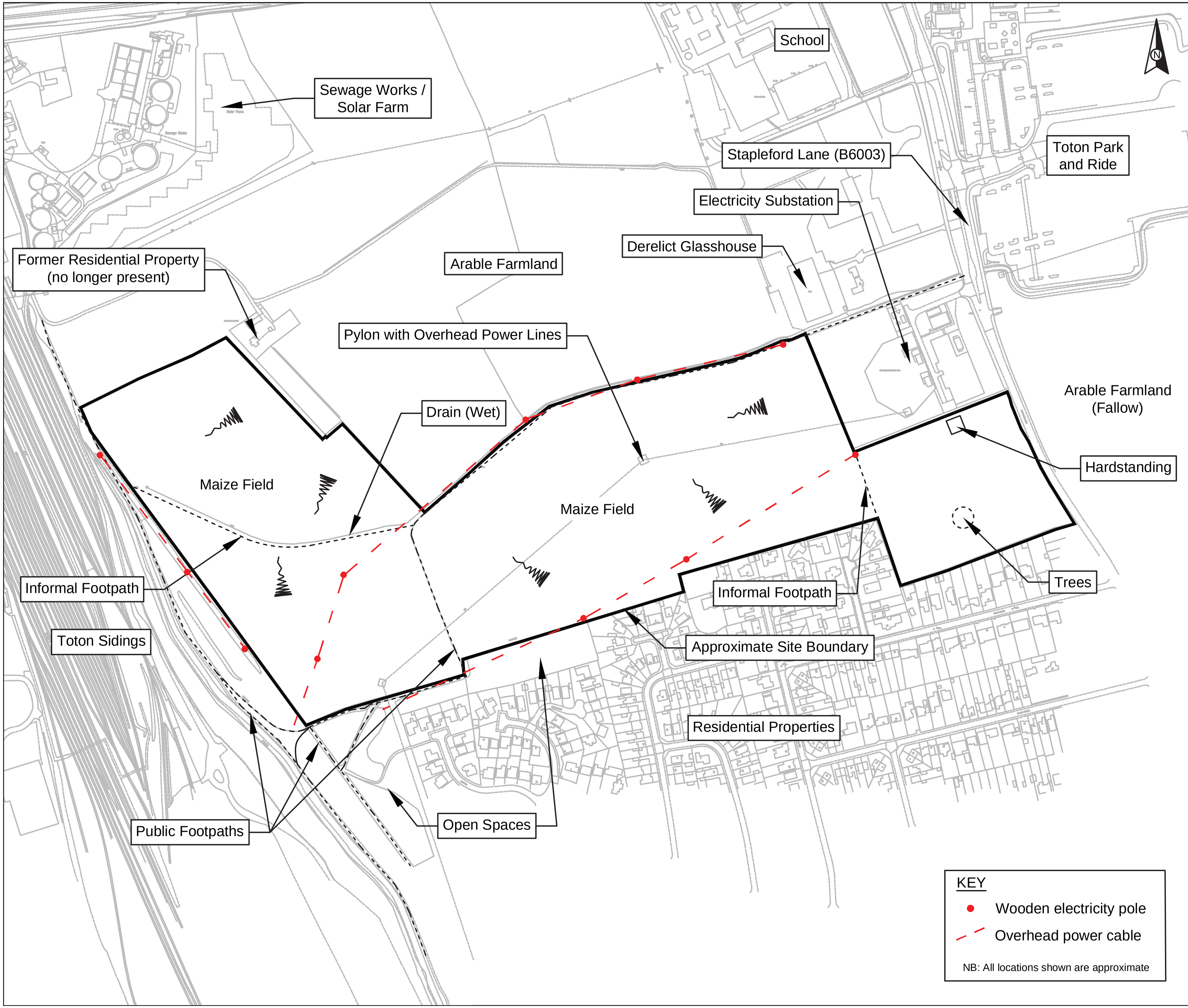
Concept Masterplan

Land South of the A52, Toton West, Broxtowe, Nottinghamshire - **Illustrative Combined Masterplan**

GeoDyne

APPENDIX III

Annotated Site Plan
(Figure No. D44116/02)



Project No.	D44116
Client	Bloor Homes Ltd
Project	Toton West, Toton
Title	Annotated Site Plan
Drawn By	SJ
Checked By	CEH
Approved By	PK
Scale	NTS
Date Drawn	17/12/2024
Revision	
Figure No.	D44116/02

GeoDyne

Nottingham 0115 962 0001
Derby 01332 290 798

info@geodyne.co.uk
www.geodyne.co.uk

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APPENDIX IV

Site Plans Showing General Site Views
(Figure Nos. D44116/03a to D44116/03c)

Project No.	D44116
Client	Bloor Homes Ltd
Project	Toton West, Toton
Title	Site Plan Showing General Site Views (Page 1 of 3)
Drawn By	SJ
Checked By	CEH
Approved By	PK
Scale	NTS
Date Drawn	17/12/2024
Revision	
Figure No.	D44116/03a

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Project No.	D44116
Client	Bloor Homes Ltd
Project	Toton West, Toton
Title	Site Plan Showing General Site Views (Page 2 of 3)
Drawn By	SJ
Checked By	CEH
Approved By	PK
Scale	NTS
Date Drawn	17/12/2024
Revision	
Figure No.	D44116/03b

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Project No.	D44116
Client	Bloor Homes Ltd
Project	Toton West, Toton
Title	Site Plan Showing General Site Views (Page 3 of 3)
Drawn By	SJ
Checked By	CEH
Approved By	PK
Scale	NTS
Date Drawn	17/12/2024
Revision	
Figure No.	D44116/03c

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APPENDIX V

Historical Plans

Historical Mapping Legends

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

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

County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. — County Borough Boundary (England)
Co. Burgh Bdy. — County Burgh Boundary (Scotland)

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

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

Inactive Quarry, Chalk Pit or Clay Pit; Active Quarry, Chalk Pit or Clay Pit
Rock; Boulders
Cliff; Slopes (Top)
Roofed Building; Glazed Roof Building
Sloping Masonry (Top); Archway
Non-Coniferous Tree (surveyed); Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed); Coniferous Trees (not surveyed)
Orchard Tree; Scrub; Bracken
Coppice, Osier; Reeds; Marsh, Saltings
Rough Grassland; Heath; Culvert
Direction of water flow; B M Bench Mark; Antiquity (site of)
Cave Entrance; Triangulation Station; Electricity Pylon
E T L Electricity Transmission Line

County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy — London Borough Boundary
Symbol marking point where boundary mereing changes

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

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

Cliff; Slopes (Top)
Rock; Rock (scattered)
Boulders; Boulders (scattered)
Positioned Boulder; Scree
Non-Coniferous Tree (surveyed); Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed); Coniferous Trees (not surveyed)
Orchard Tree; Scrub; Bracken
Coppice, Osier; Reeds; Marsh, Saltings
Rough Grassland; Heath; Culvert
Direction of water flow; Triangulation Station; Antiquity (site of)
E T L Electricity Transmission Line; Electricity Pylon
BH 231.60m Bench Mark; Buildings with Building Seed
Roofed Building; Glazed Roof Building

Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

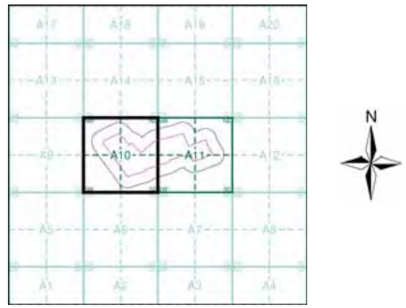
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

GeoDyne

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Derbyshire	1:2,500	1880	2
Nottinghamshire	1:2,500	1885	3
Nottinghamshire	1:2,500	1900	4
Derbyshire	1:2,500	1900	5
Nottinghamshire	1:2,500	1914	6
Derbyshire	1:2,500	1914	7
Derbyshire	1:2,500	1938	8
Nottinghamshire	1:2,500	1939	9
Ordnance Survey Plan	1:2,500	1957 - 1958	10
Ordnance Survey Plan	1:1,250	1957	11
Ordnance Survey Plan	1:1,250	1962 - 1971	12
Additional SIMs	1:1,250	1962 - 1991	13
Supply of Unpublished Survey Information	1:1,250	1974	14
Additional SIMs	1:1,250	1989	15
Additional SIMs	1:1,250	1990	16
Large-Scale National Grid Data	1:1,250	1993	17
Large-Scale National Grid Data	1:1,250	1995	18
Historical Aerial Photography	1:2,500	1999	19

Historical Map - Segment A10



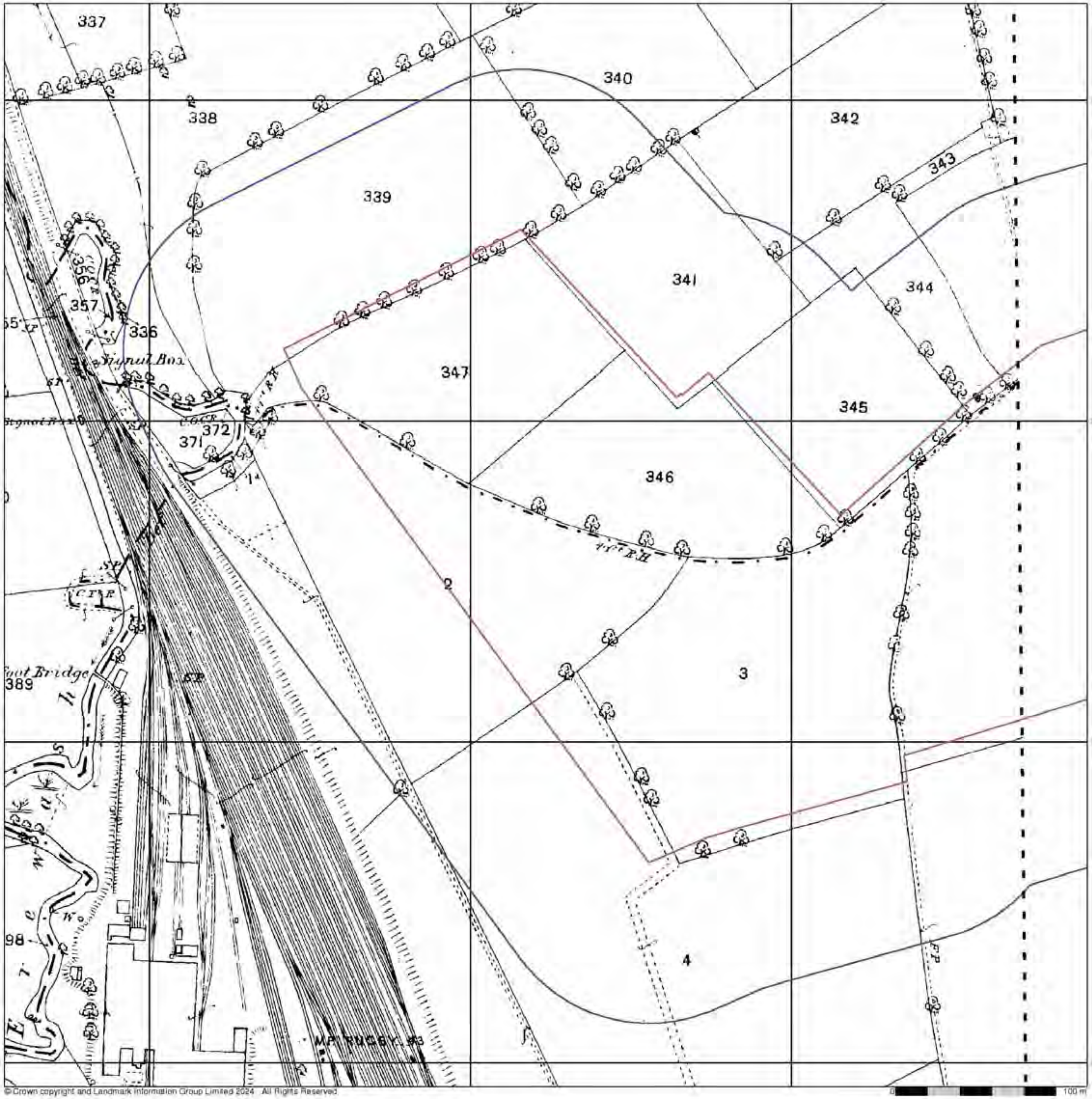
Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 100

Site Details

Toton West

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



GeoDyne

Derbyshire

Published 1880

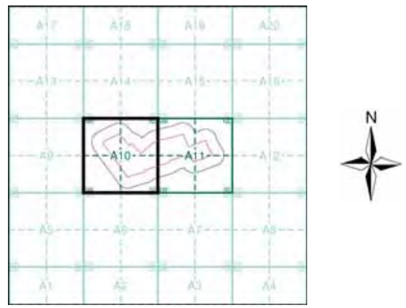
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

051_14
1880
1:2,500

Historical Map - Segment A10

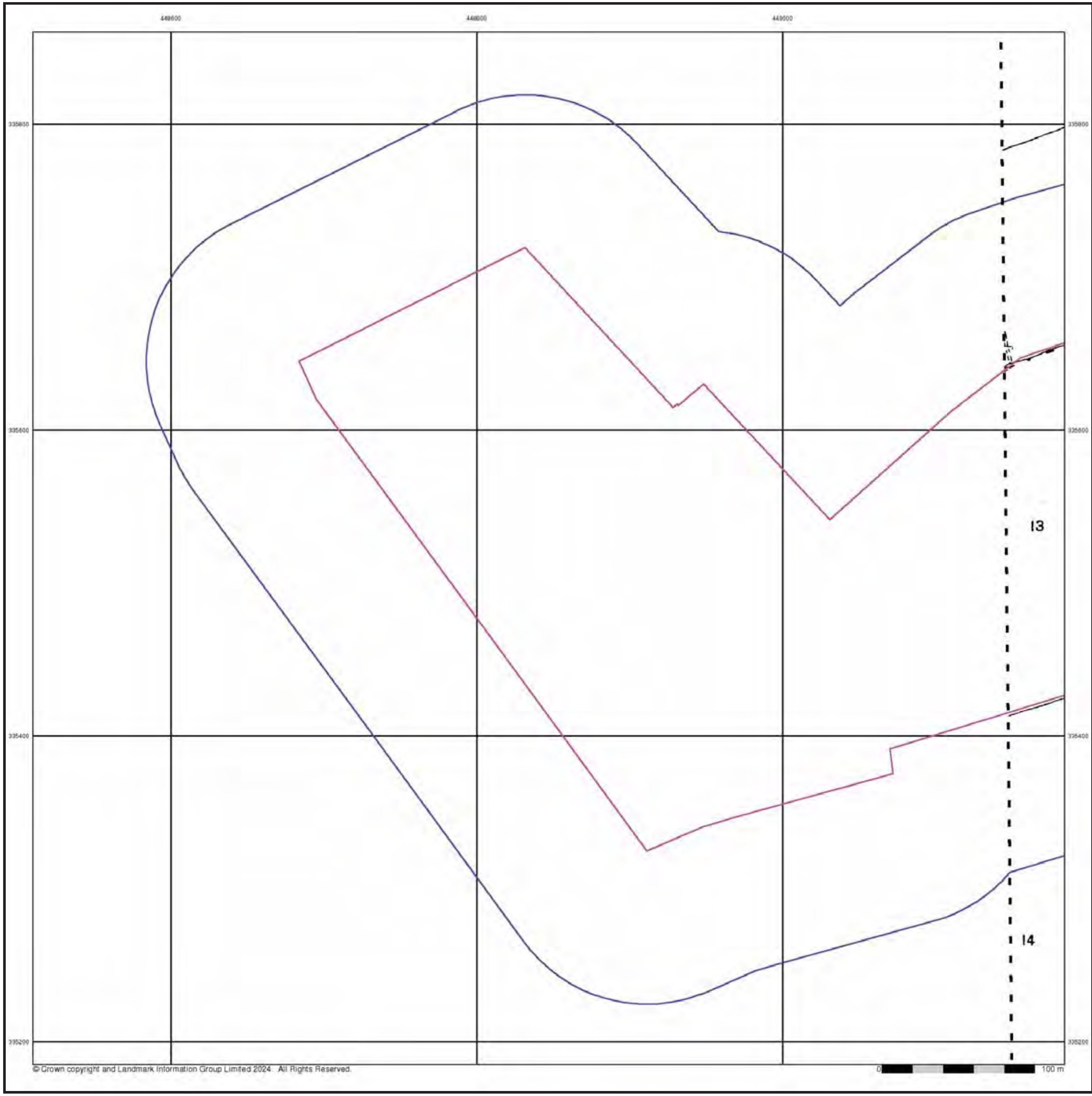


Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 100

Site Details

Toton West



GeoDyne

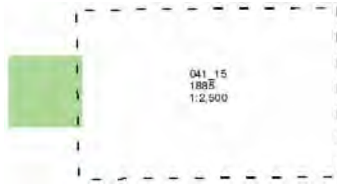
Nottinghamshire

Published 1885

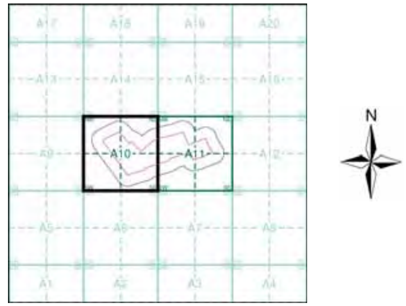
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
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Site Details

Toton West

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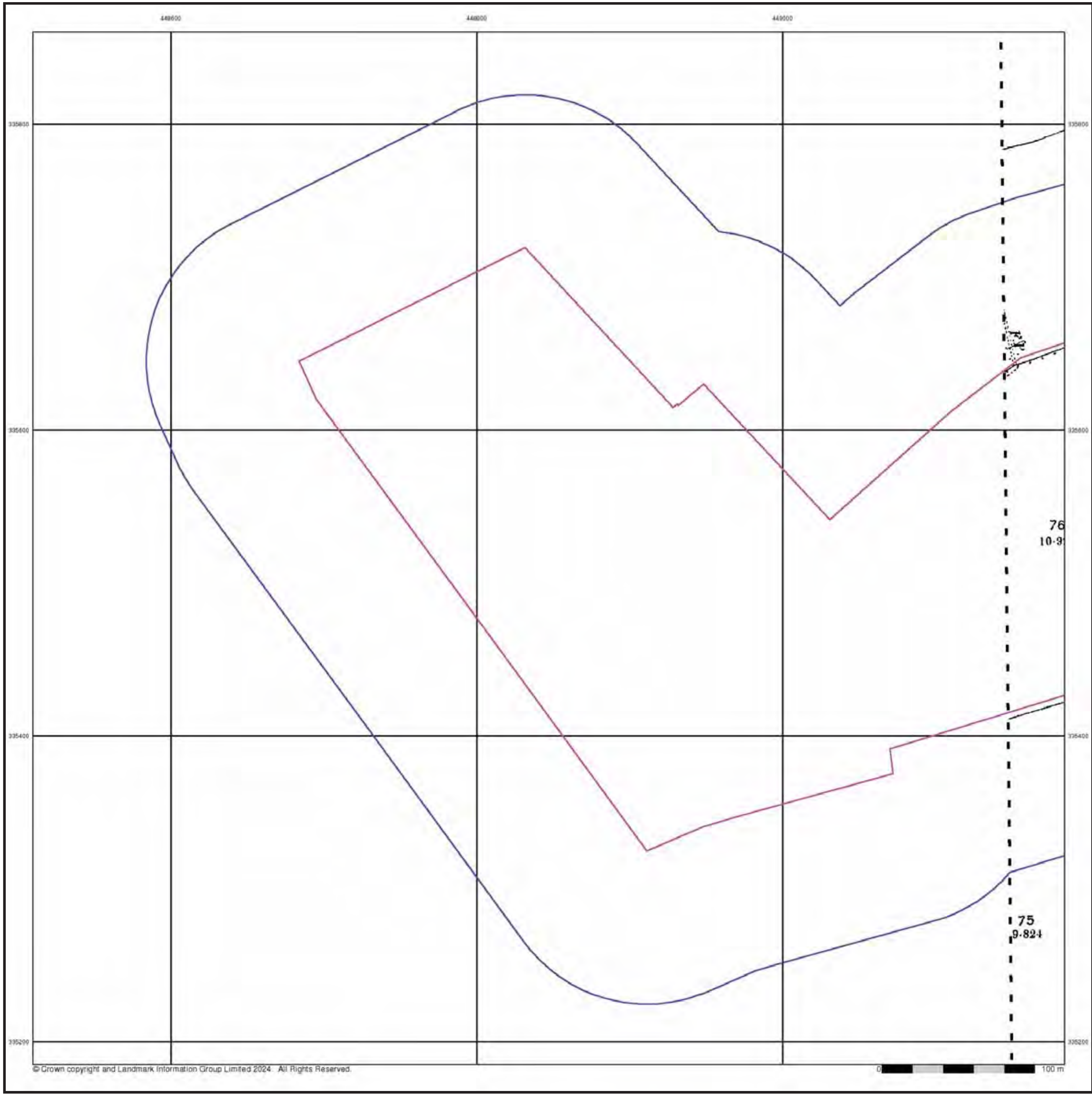


GeoDyne

Nottinghamshire

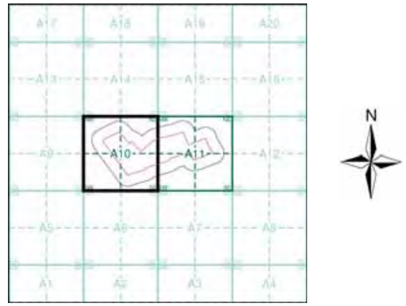
Published 1900

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A10



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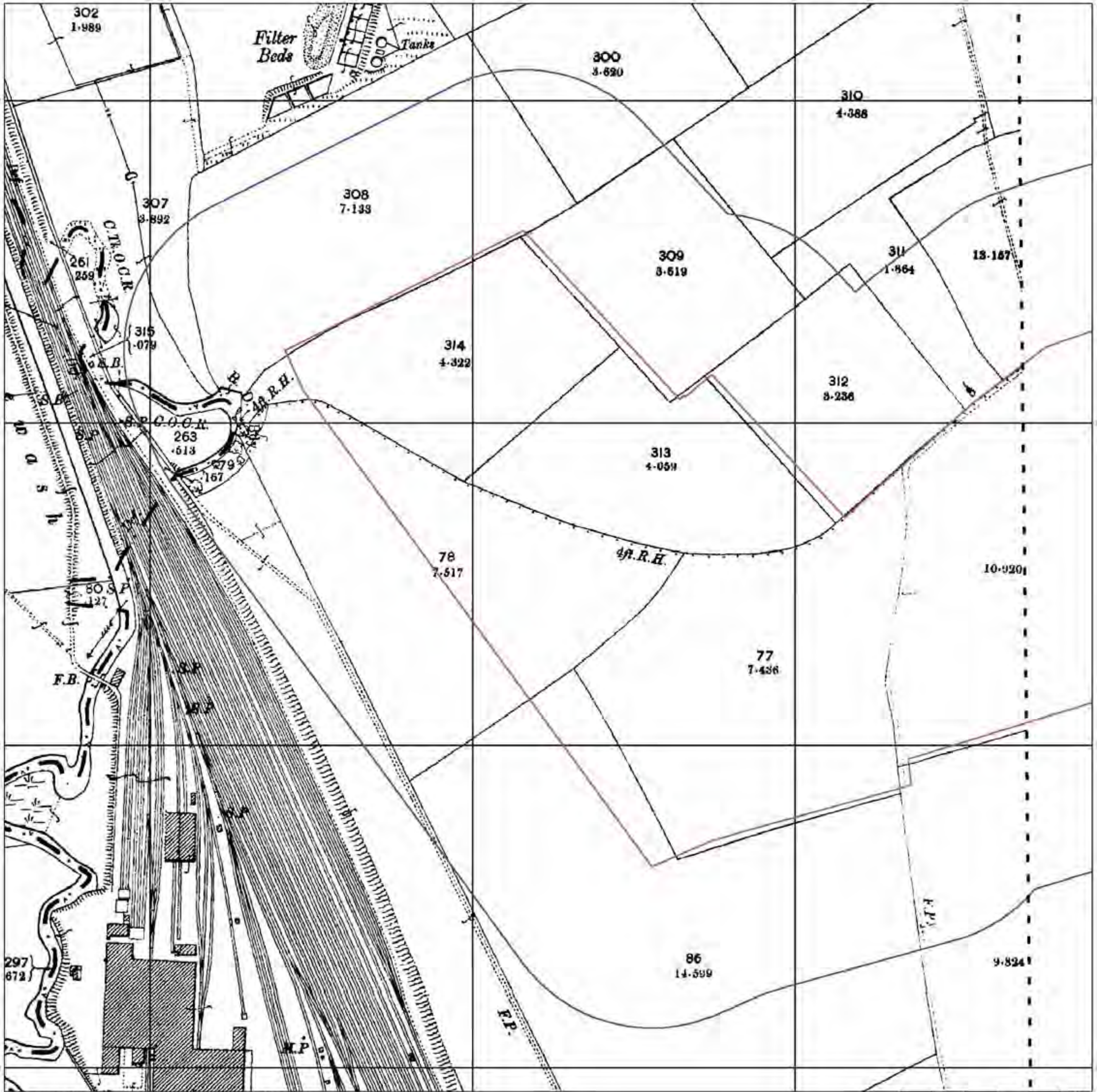


GeoDyne

Derbyshire

Published 1900

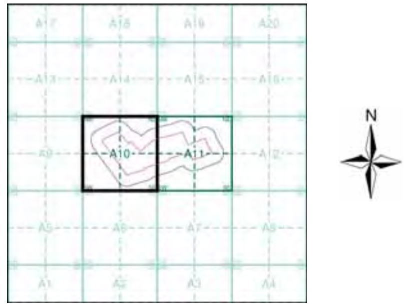
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

051_14
1900
1:2,500

Historical Map - Segment A10



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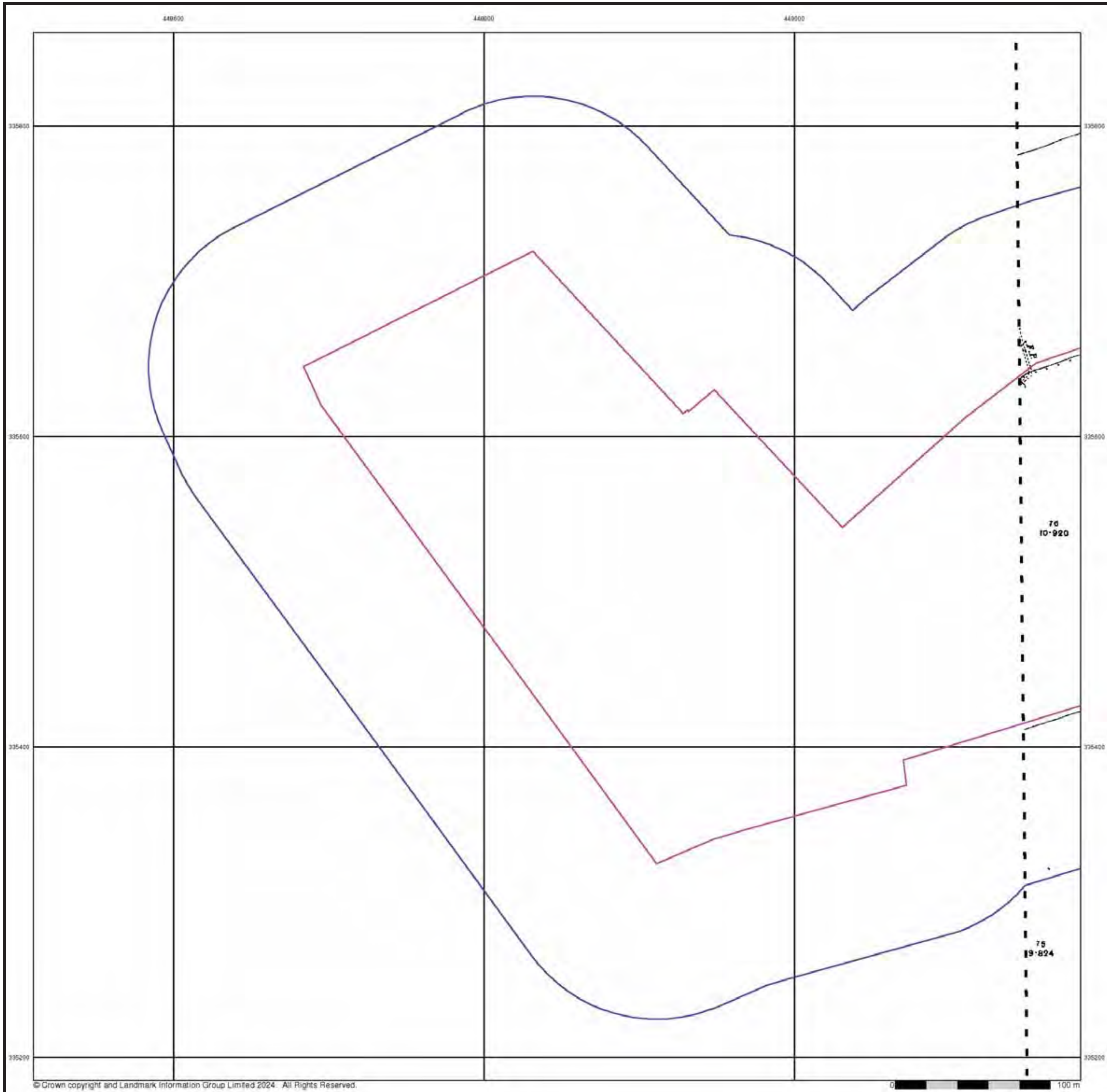


GeoDyne

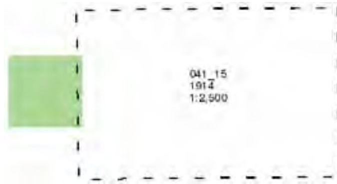
Nottinghamshire

Published 1914

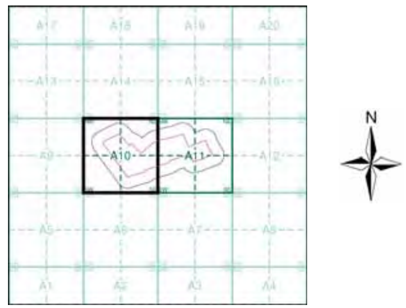
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



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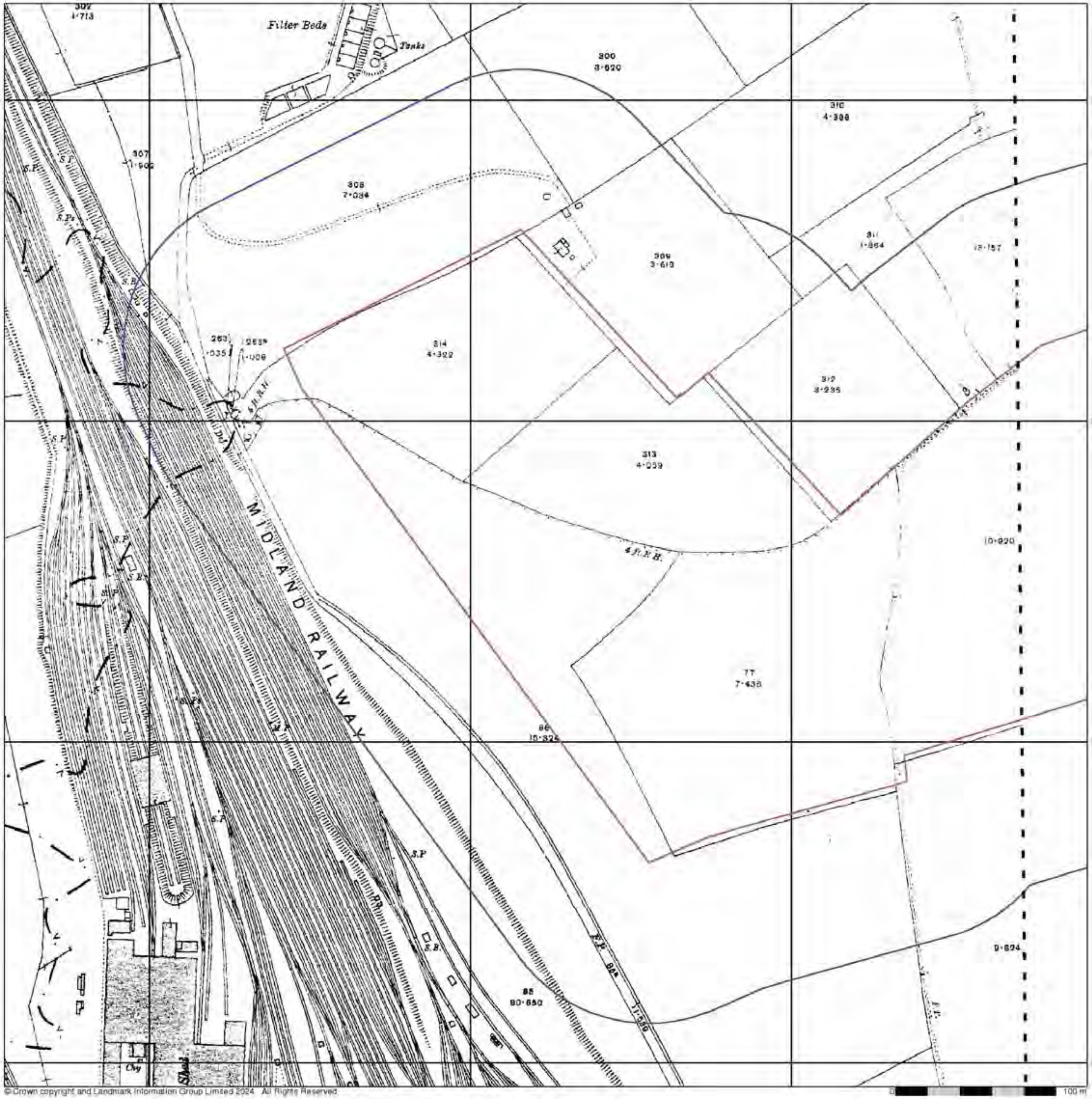


GeoDyne

Derbyshire

Published 1914

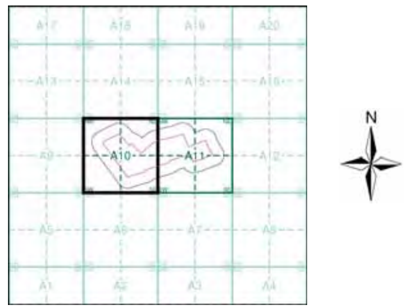
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

051_14
1914
1:2,500

Historical Map - Segment A10



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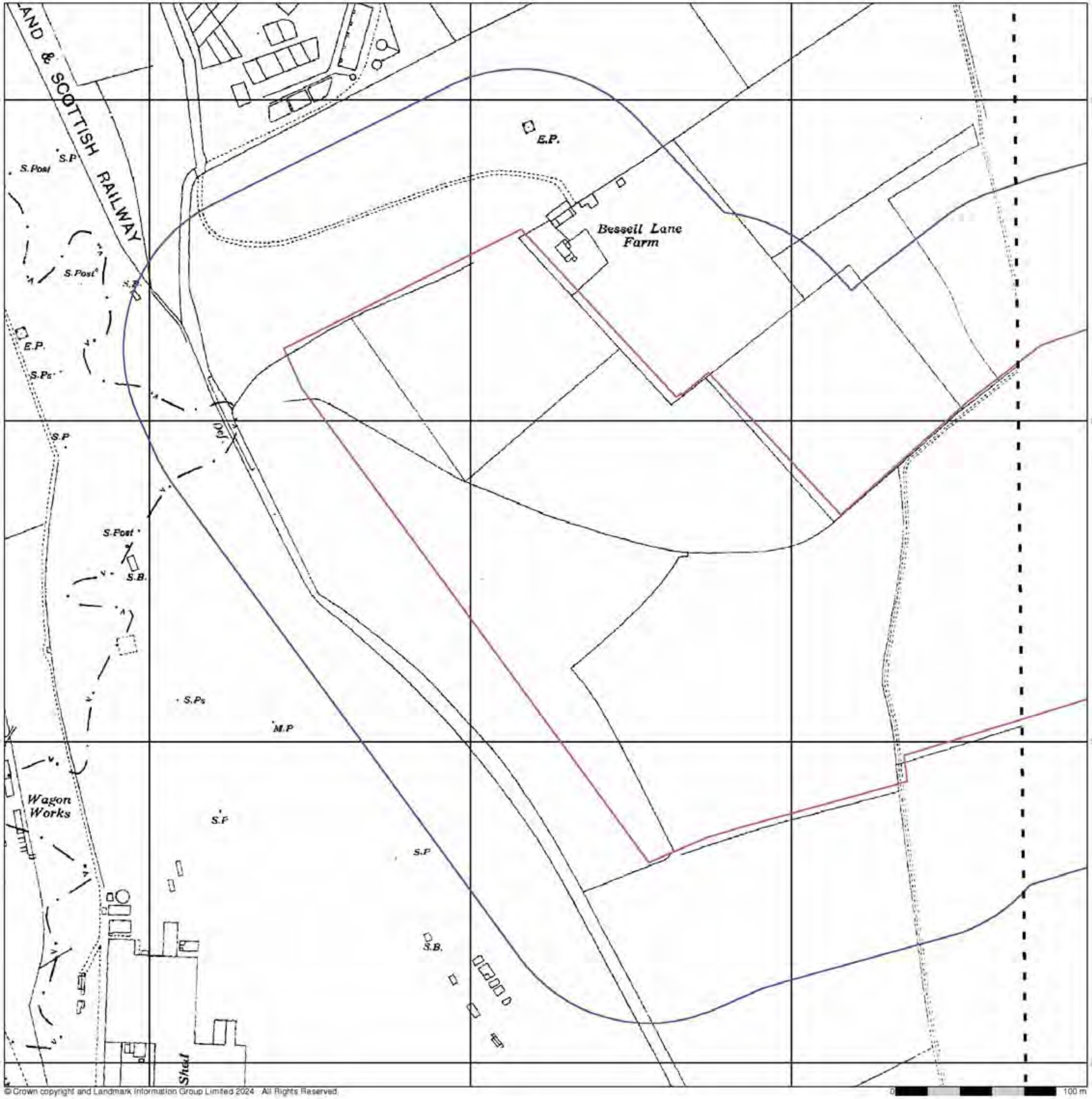


GeoDyne

Derbyshire

Published 1938

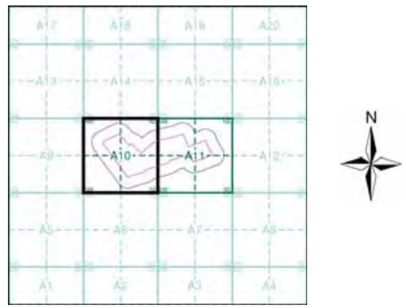
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

051_14
1938
1:2,500

Historical Map - Segment A10



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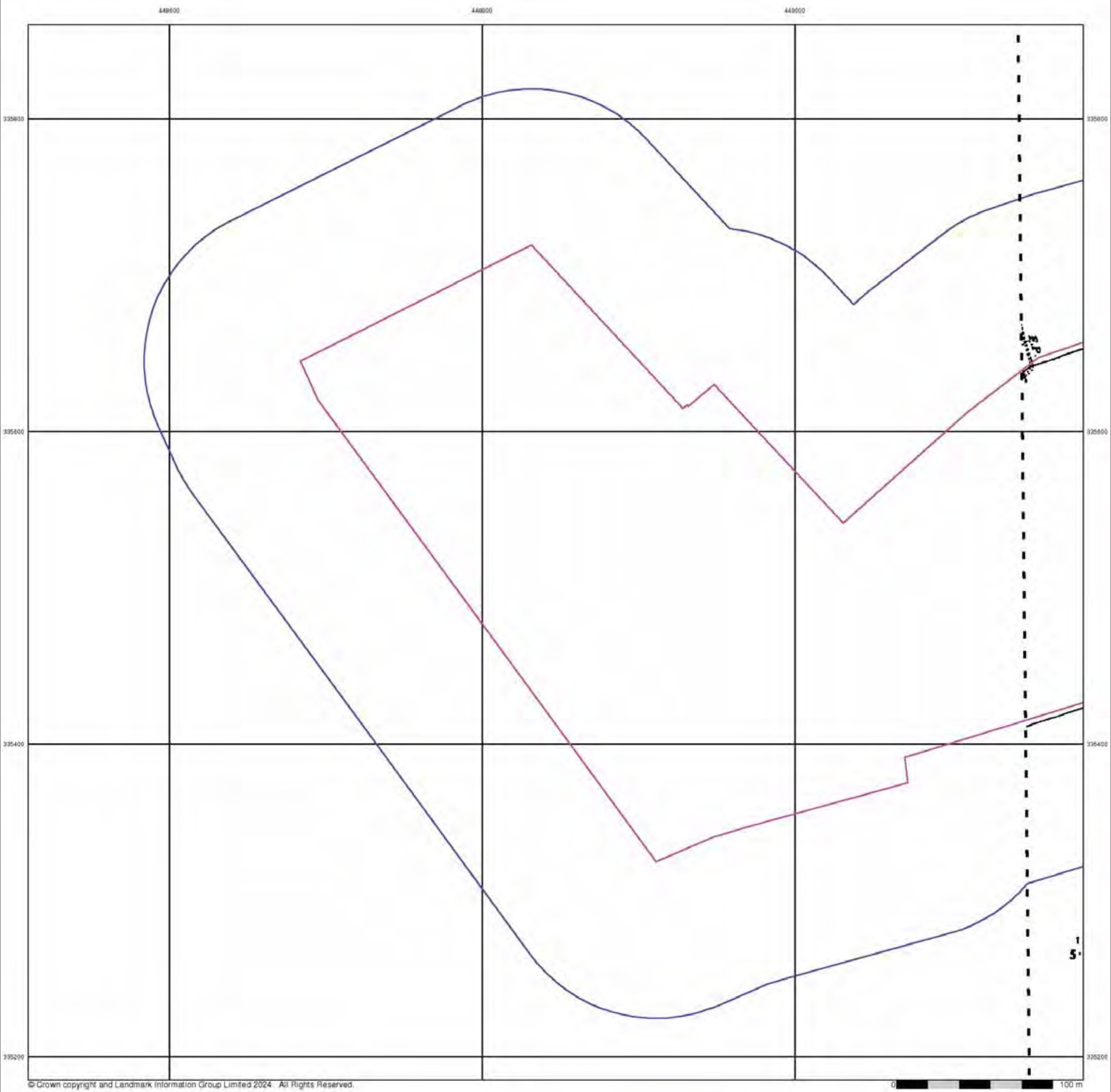


GeoDyne

Nottinghamshire

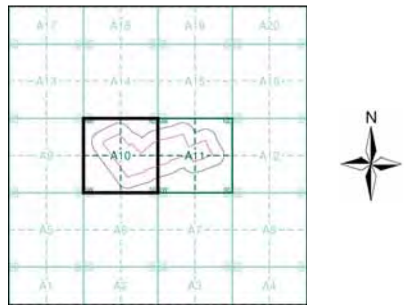
Published 1939

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A10



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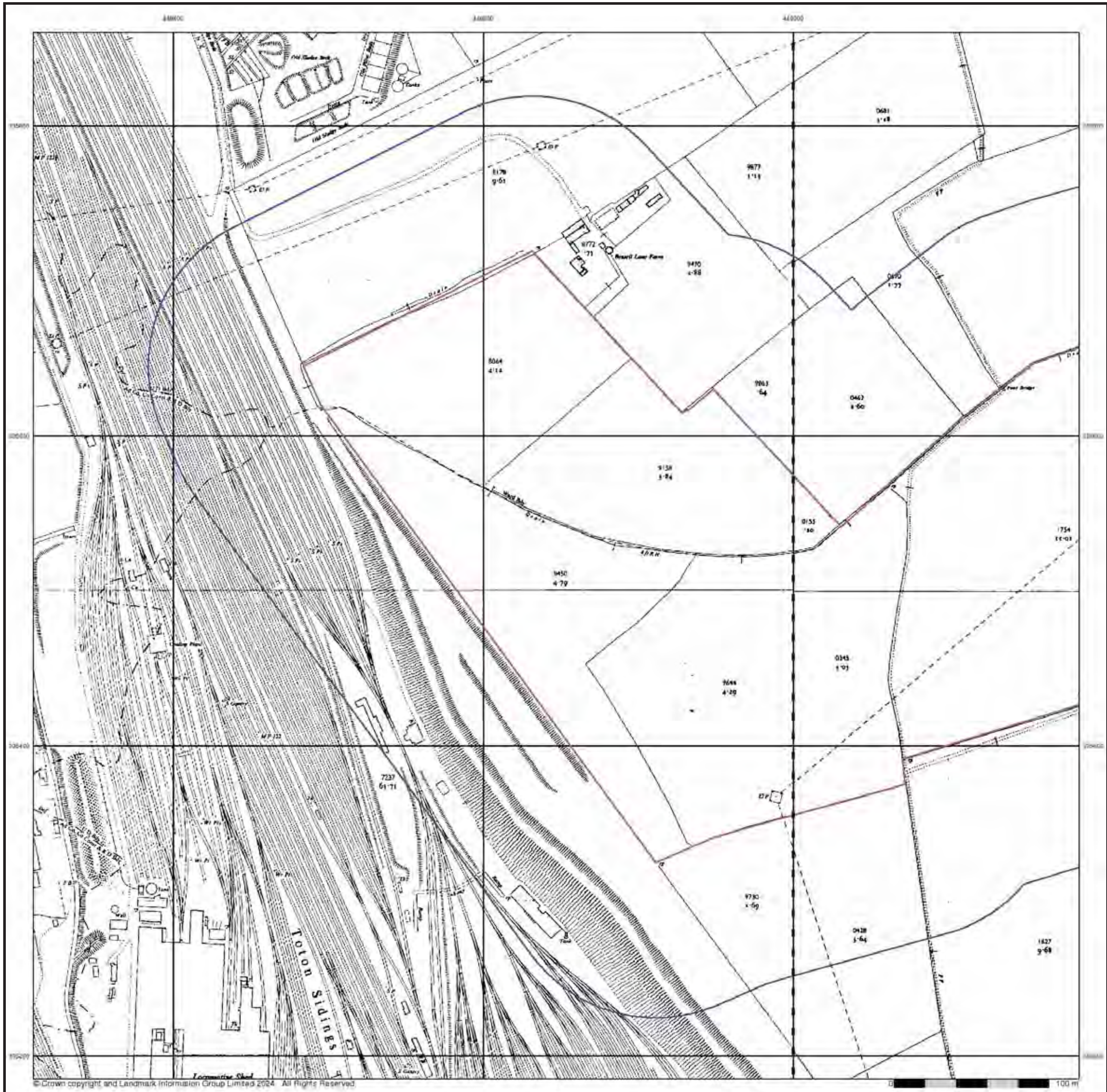


GeoDyne

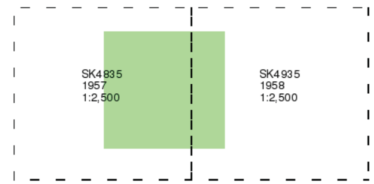
Ordnance Survey Plan

Published 1957 - 1958

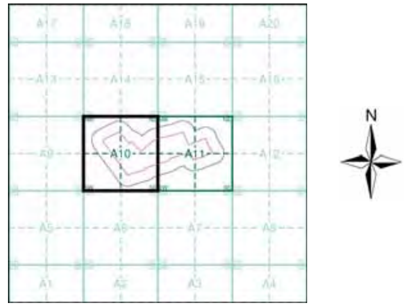
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



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GeoDyne

Ordnance Survey Plan

Published 1957

Source map scale - 1:1,250

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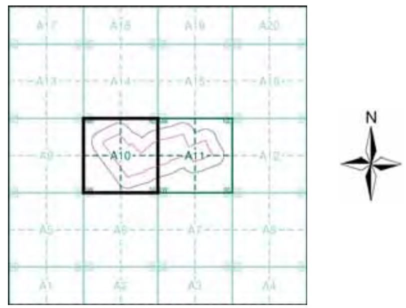
Map Name(s) and Date(s)

SK4835NE 1957 1:1,250	SK4935NW 1957 1:1,250
SK4835SE 1957 1:1,250	SK4935SW 1957 1:1,250

Historical Map - Segment A10



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Site Details

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GeoDyne

Ordnance Survey Plan

Published 1962 - 1971

Source map scale - 1:1,250

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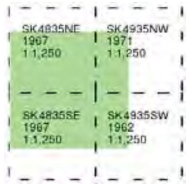
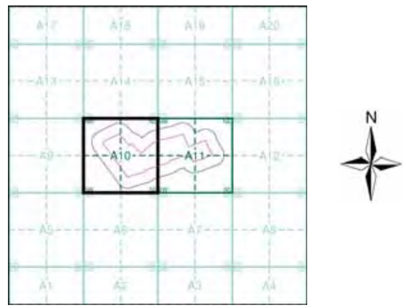
Map Name(s) and Date(s)



Historical Map - Segment A10



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Site Details

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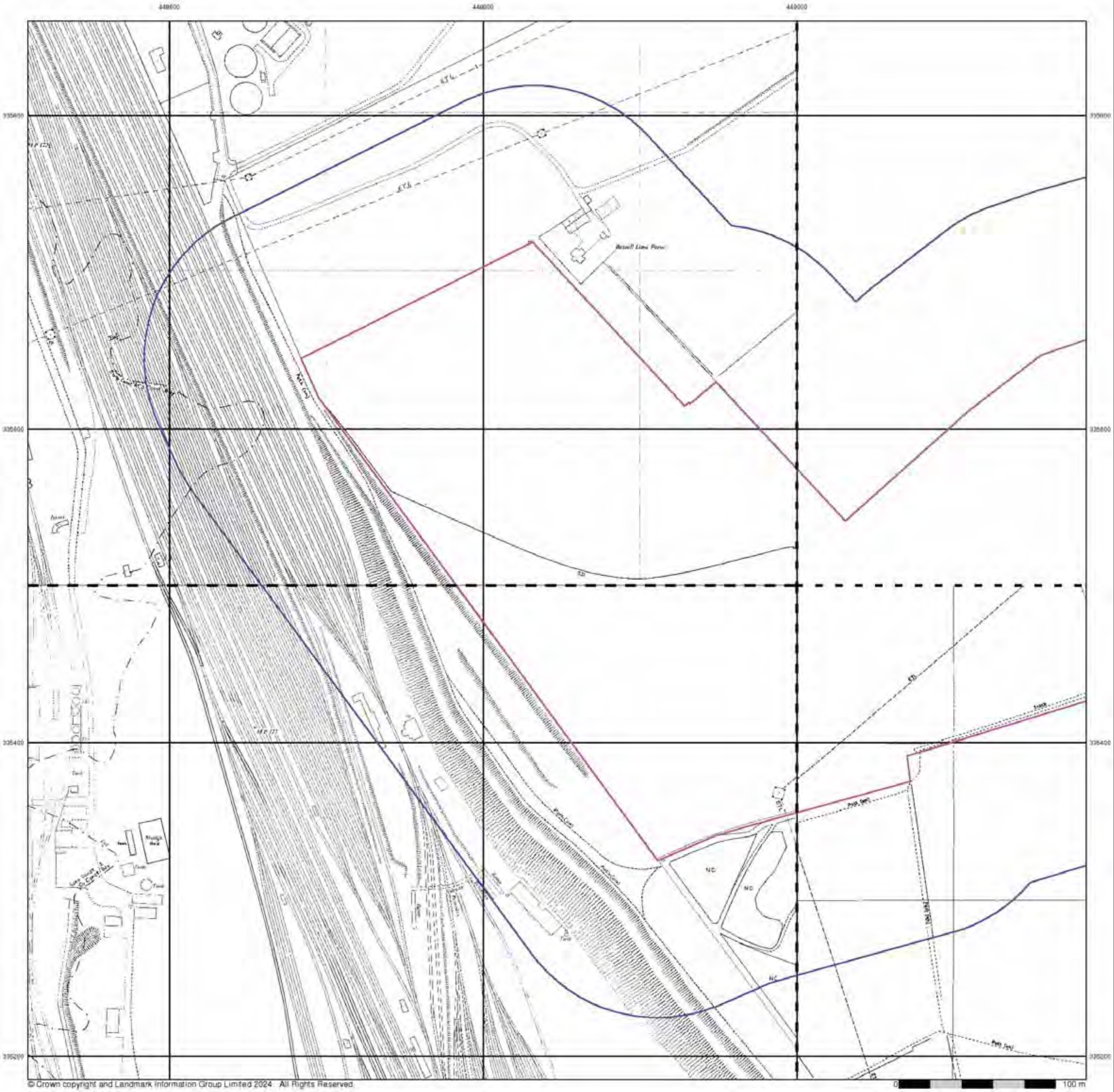


GeoDyne

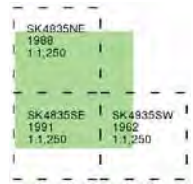
Additional SIMs

Published 1962 - 1991

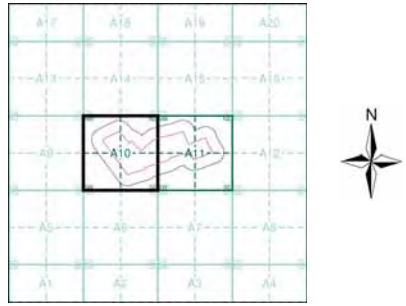
Source map scale - 1:1,250

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 A10



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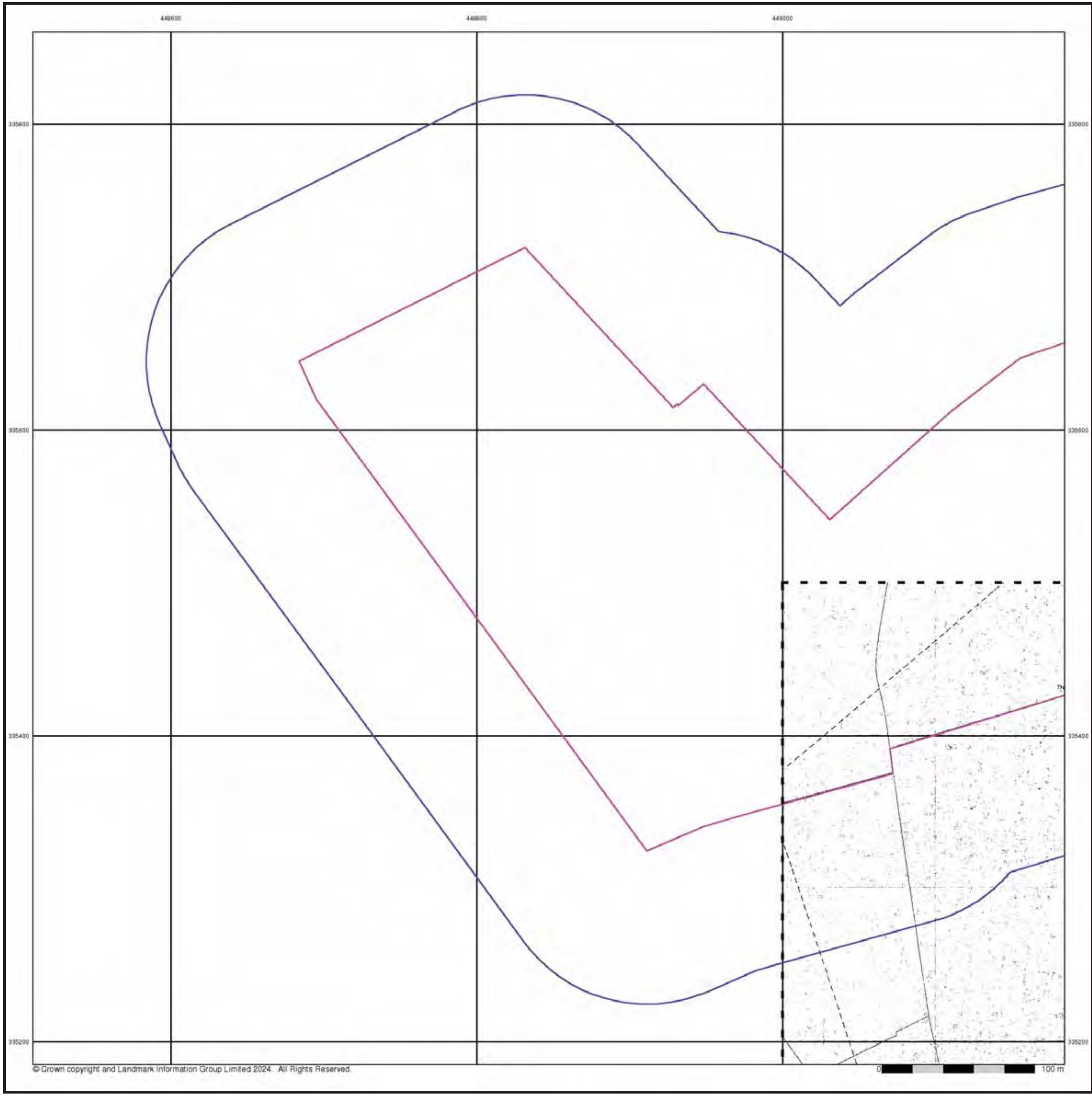


GeoDyne

Supply of Unpublished Survey Information

Published 1974

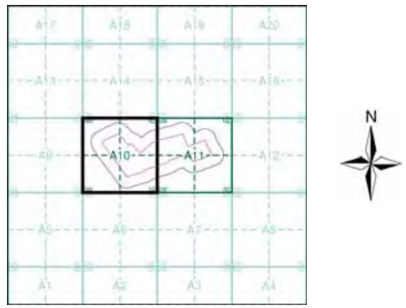
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SK4935SW
1974
1:1,250

Historical Map - Segment A10



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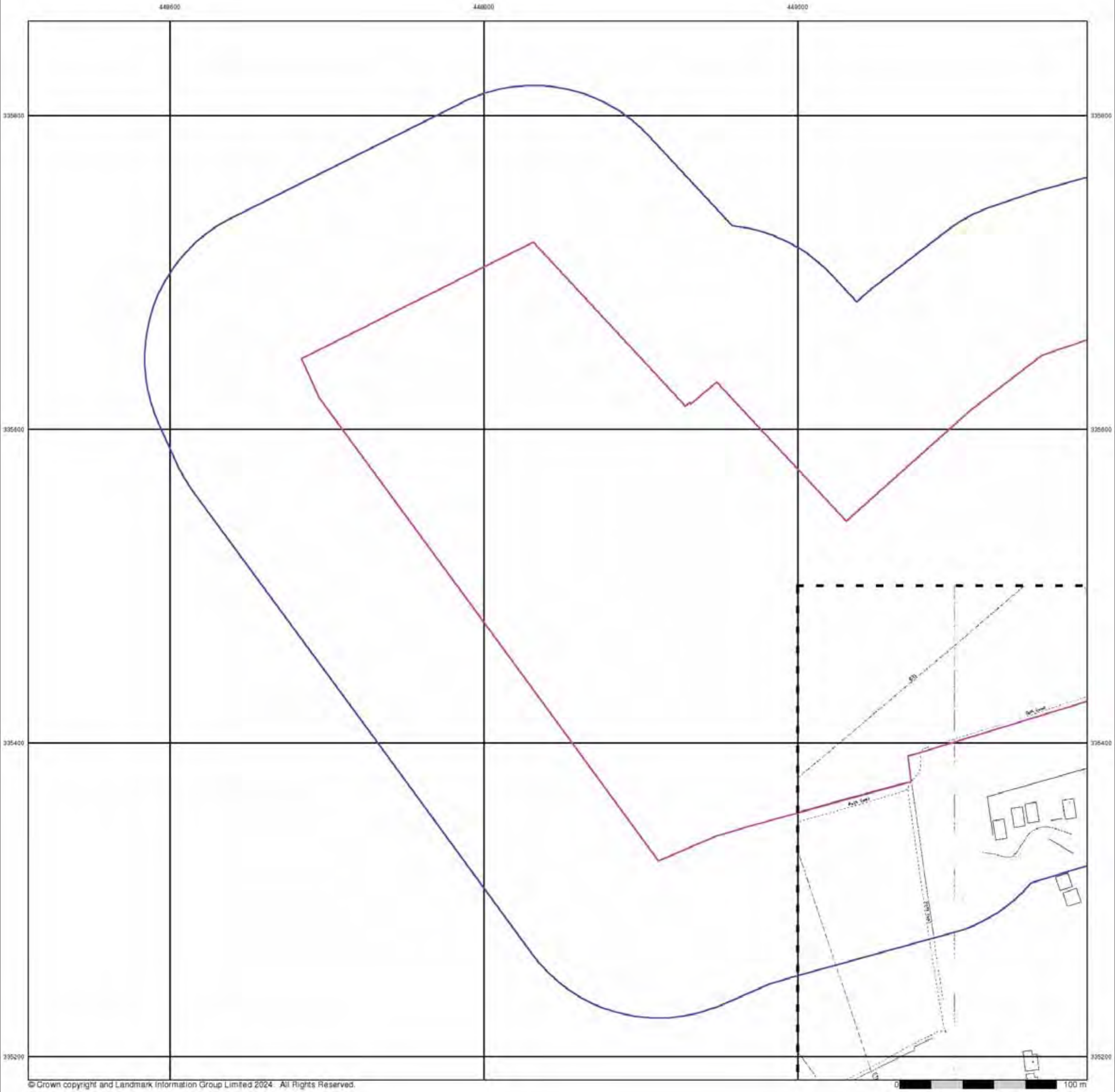


GeoDyne

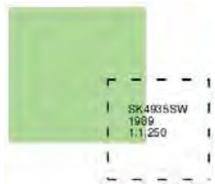
Additional SIMs

Published 1989

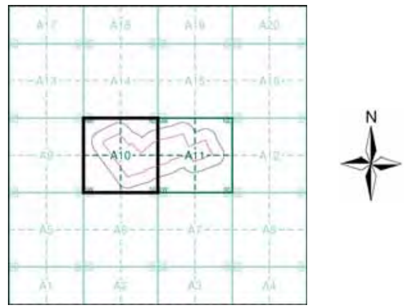
Source map scale - 1:1,250

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 A10



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Site Details

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GeoDyne

Additional SIMs

Published 1990

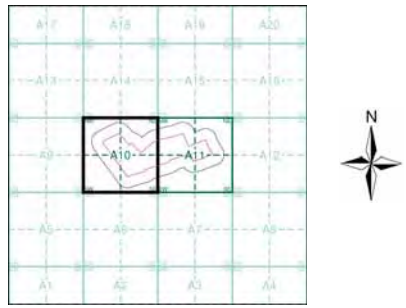
Source map scale - 1:1,250

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)

SK4935SW
1990
1:1,250

Historical Map - Segment A10



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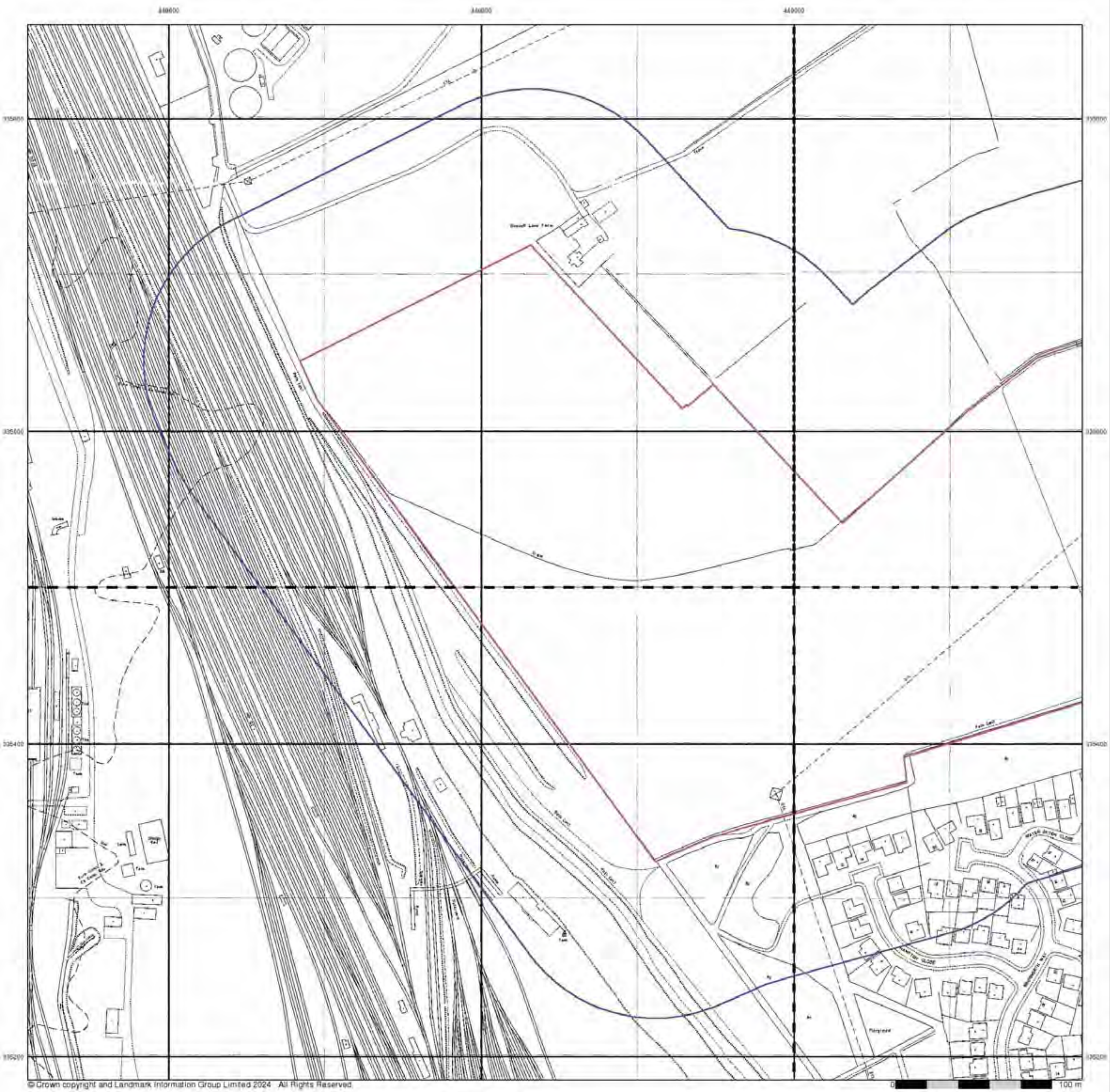


GeoDyne

Large-Scale National Grid Data

Published 1993

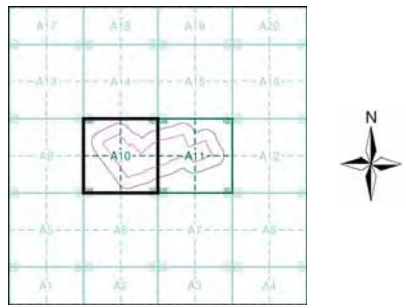
Source map scale - 1:1,250

'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)

SK4835NE 1993 1:1,250	SK4935NW 1993 1:1,250
SK4835SE 1993 1:1,250	SK4935SW 1993 1:1,250

Historical Map - Segment A10



Order Details

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Site Details

Toton West

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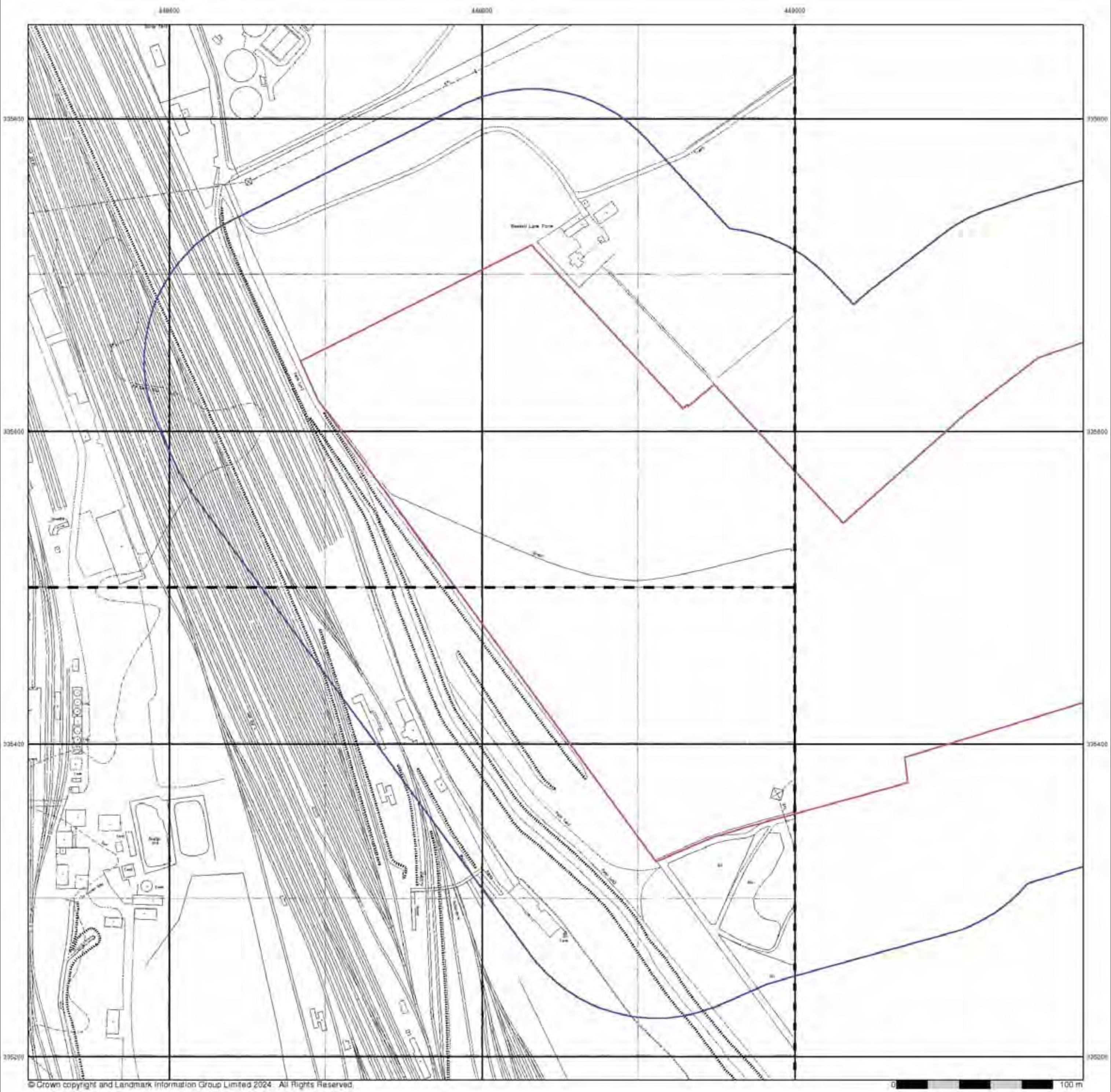


GeoDyne

Large-Scale National Grid Data

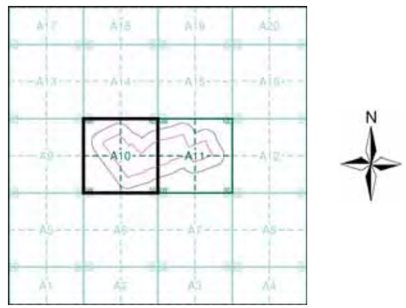
Published 1995

Source map scale - 1:1,250

'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 A10



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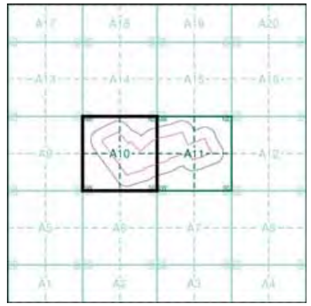
GeoDyne

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 A10



Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 100

Site Details

Toton West

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

Historical Mapping Legends

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

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

County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

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

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

Inactive Quarry, Chalk Pit or Clay Pit; Active Quarry, Chalk Pit or Clay Pit
Rock; Boulders
Cliff; Slopes (Top)
Roofed Building; Glazed Roof Building
Sloping Masonry (Top); Archway
Non-Coniferous Tree (surveyed); Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed); Coniferous Trees (not surveyed)
Orchard Tree; Scrub; Bracken
Coppice, Osier; Reeds; Marsh, Saltings
Rough Grassland; Heath; Culvert
Direction of water flow; B M Bench Mark; Antiquity (site of)
Cave Entrance; Triangulation Station; Electricity Pylon
E T L Electricity Transmission Line

County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

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

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

Cliff; Slopes (Top)
Rock; Rock (scattered)
Boulders; Boulders (scattered)
Positioned Boulder; Scree
Non-Coniferous Tree (surveyed); Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed); Coniferous Trees (not surveyed)
Orchard Tree; Scrub; Bracken
Coppice, Osier; Reeds; Marsh, Saltings
Rough Grassland; Heath; Culvert
Direction of water flow; Triangulation Station; Antiquity (site of)
E T L Electricity Transmission Line; Electricity Pylon
BH 231.60m Bench Mark; Buildings with Building Seed
Roofed Building; Glazed Roof Building

Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

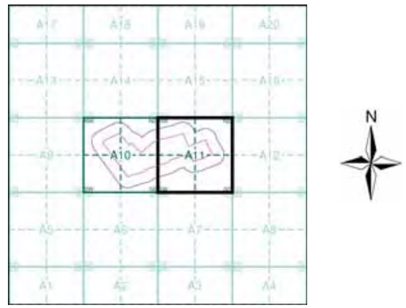
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

GeoDyne

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Nottinghamshire	1:2,500	1885	2
Nottinghamshire	1:2,500	1900	3
Nottinghamshire	1:2,500	1914	4
Nottinghamshire	1:2,500	1939	5
Ordnance Survey Plan	1:1,250	1957	6
Ordnance Survey Plan	1:2,500	1958	7
Ordnance Survey Plan	1:1,250	1962 - 1971	8
Additional SIMs	1:1,250	1962 - 1989	9
Ordnance Survey Plan	1:1,250	1970	10
Supply of Unpublished Survey Information	1:1,250	1974	11
Additional SIMs	1:1,250	1989	12
Additional SIMs	1:1,250	1990	13
Large-Scale National Grid Data	1:1,250	1993	14
Historical Aerial Photography	1:2,500	1999	15

Historical Map - Segment A11



Order Details

Order Number: 364257918_1_1
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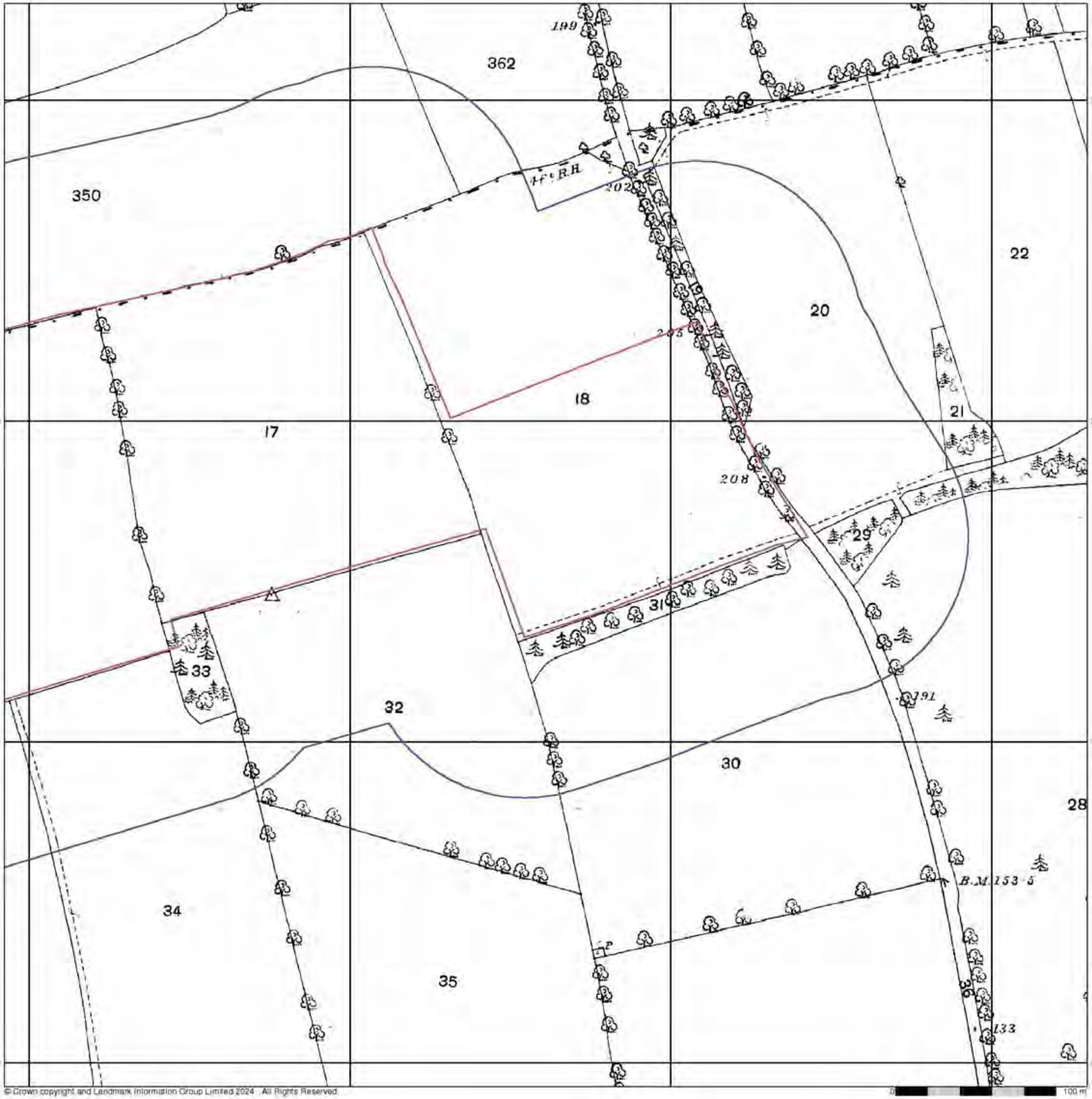


GeoDyne

Nottinghamshire

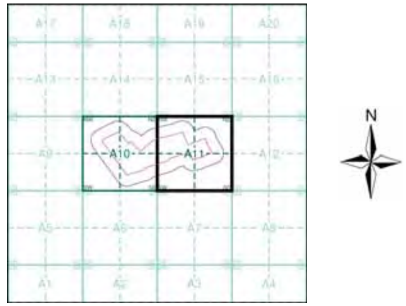
Published 1885

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A11



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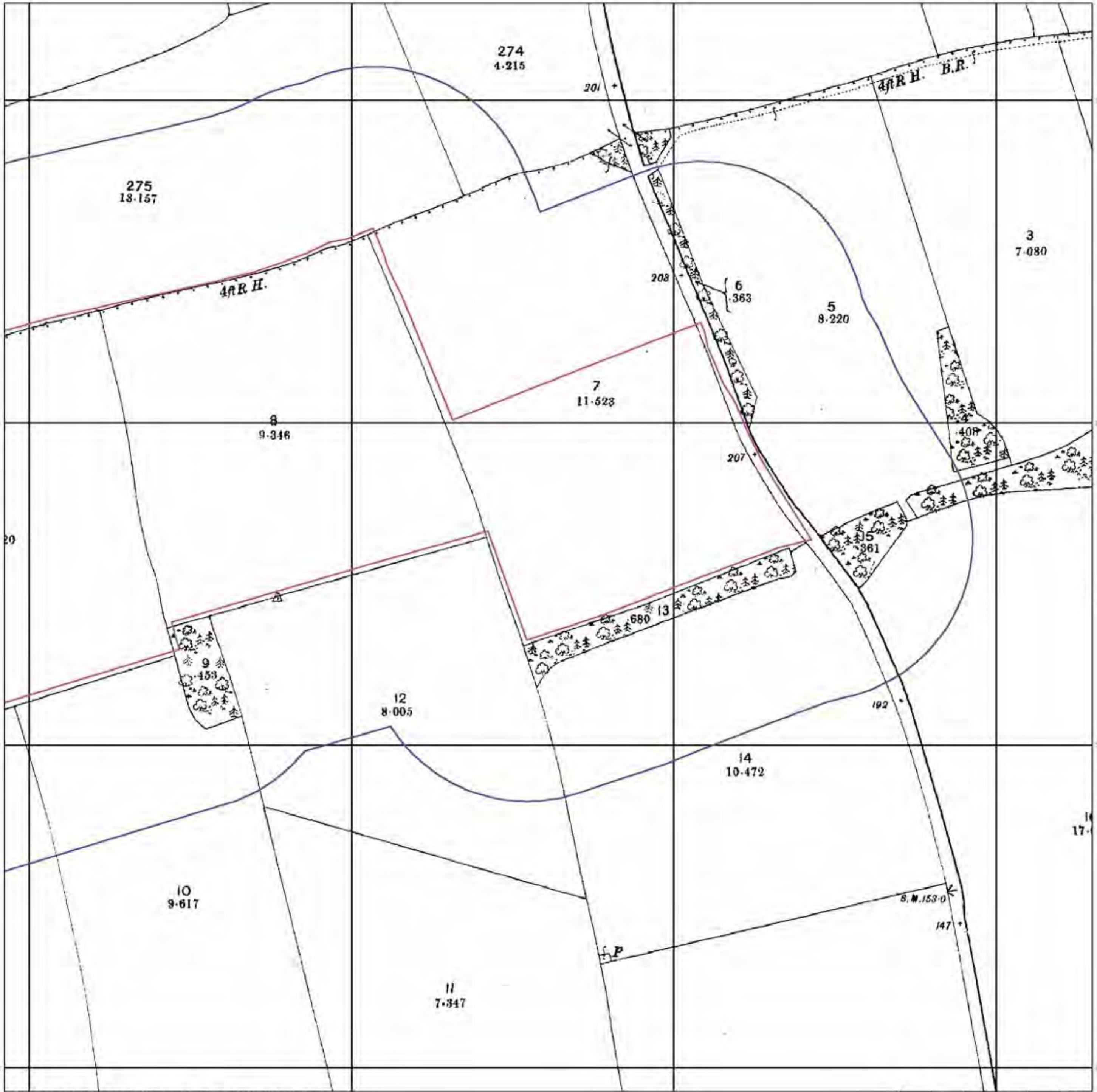


GeoDyne

Nottinghamshire

Published 1900

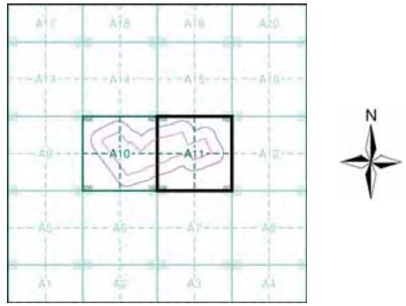
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

041_15
1900
1:2,500

Historical Map - Segment A11



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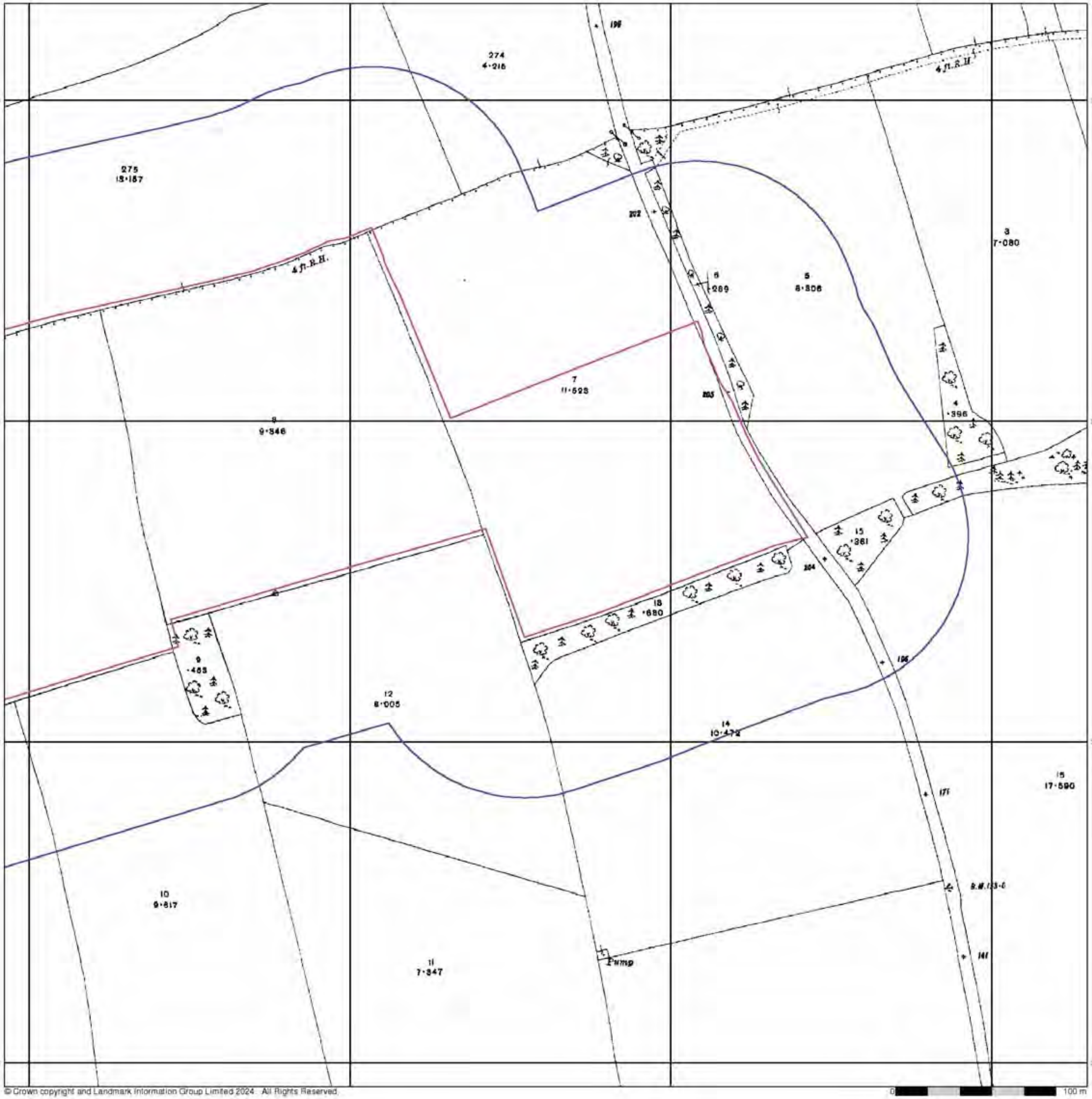


GeoDyne

Nottinghamshire

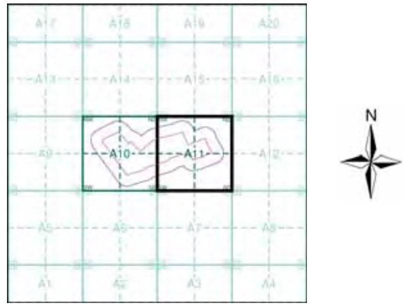
Published 1914

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A11



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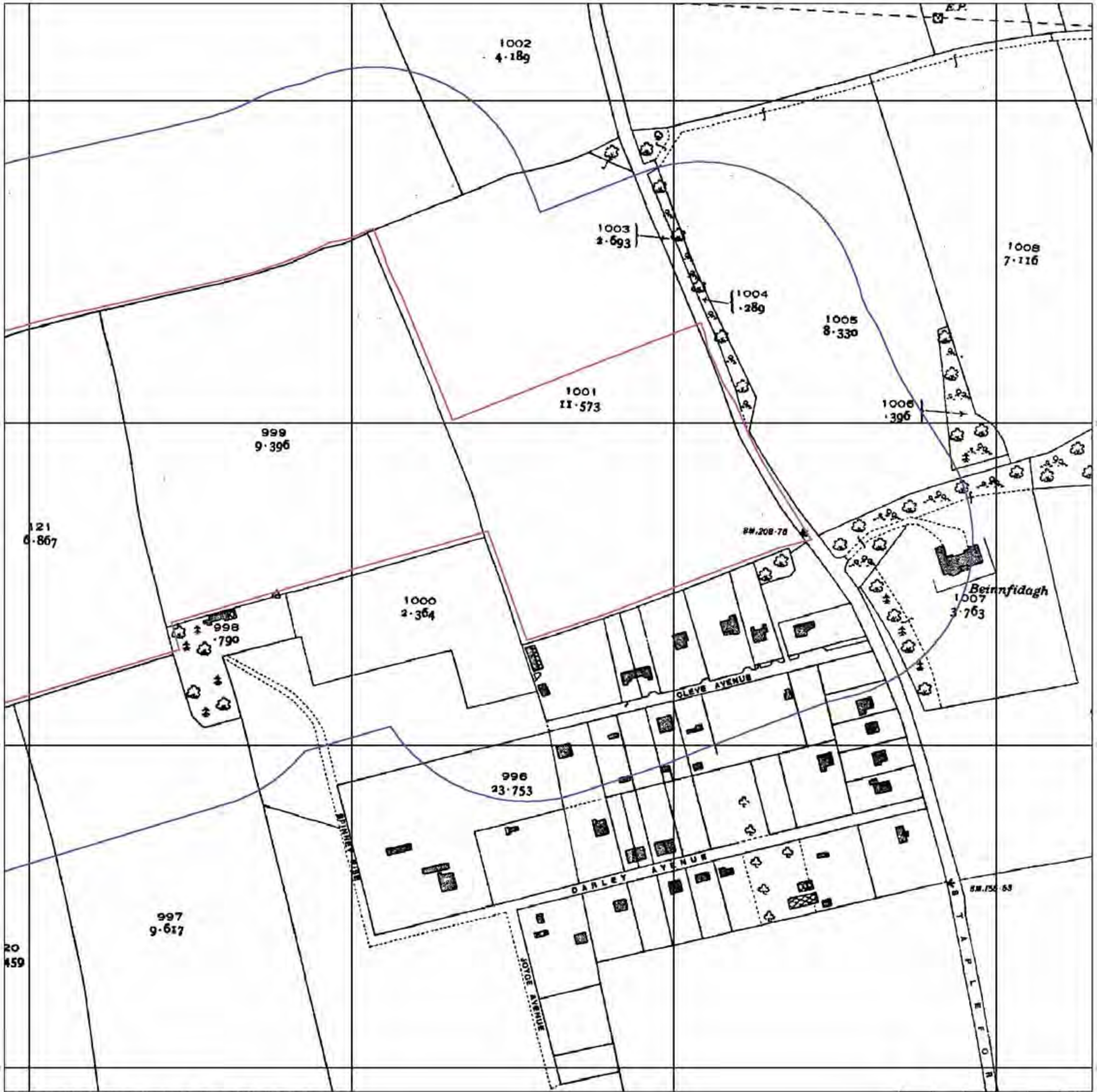
Site Details

Toton West



GeoDyne

Nottinghamshire

Published 1939

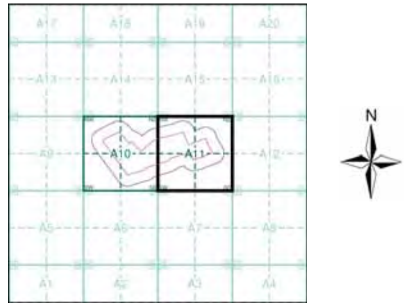
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

041_15
1939
1:2,500

Historical Map - Segment A11



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Site Area (Ha):	18.98
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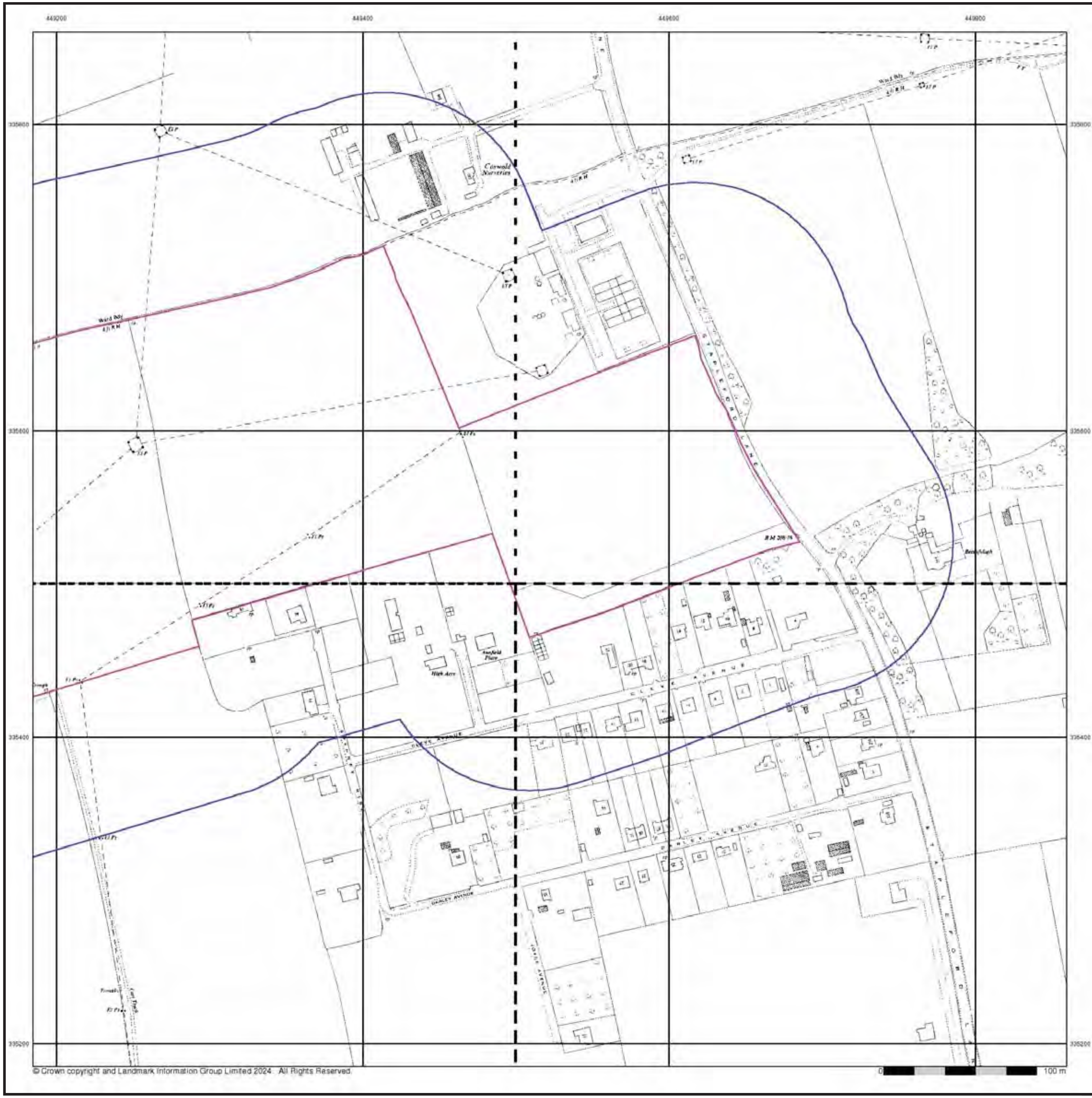
Site Details

Toton West



GeoDyne

Ordnance Survey Plan

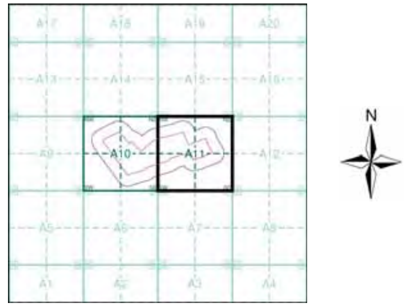
Published 1957

Source map scale - 1:1,250

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

Map Name(s) and Date(s)

Historical Map - Segment A11



Order Details

Order Number: 364257918_1_1
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National Grid Reference: 449170, 335560
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Site Details

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GeoDyne

Ordnance Survey Plan

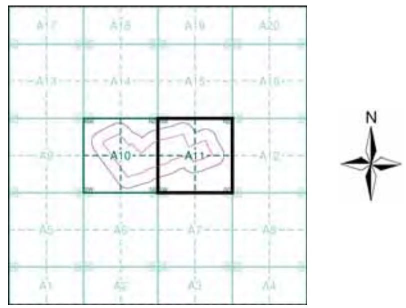
Published 1958

Source map scale - 1:2,500

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

Map Name(s) and Date(s)

Historical Map - Segment A11



Order Details

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GeoDyne

Ordnance Survey Plan

Published 1962 - 1971

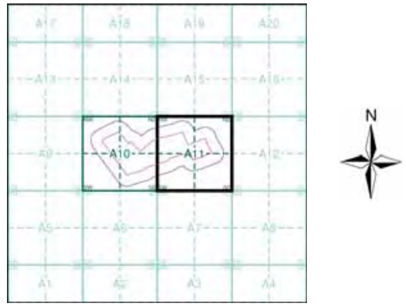
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SK4935NW 1971 1:1,250	SK4935NE 1971 1:1,250
SK4935SW 1962 1:1,250	SK4935SE 1962 1:1,250

Historical Map - Segment A11



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Site Details

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GeoDyne

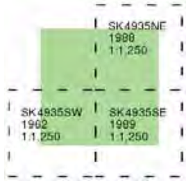
Additional SIMs

Published 1962 - 1989

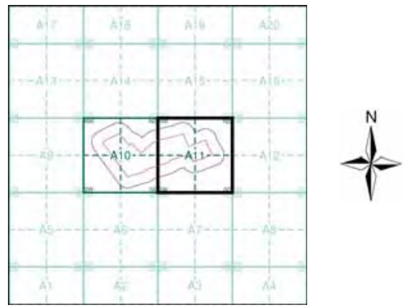
Source map scale - 1:1,250

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 A11



Order Details

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Slice: A
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Site Details

Toton West

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

GeoDyne

Ordnance Survey Plan

Published 1970

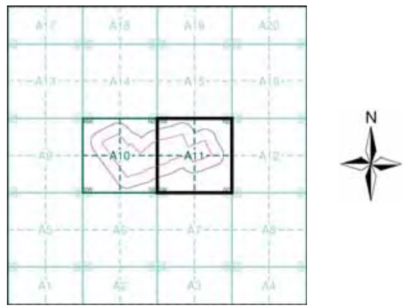
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SK4935SE
1970
1:1,250

Historical Map - Segment A11



Order Details

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Site Details

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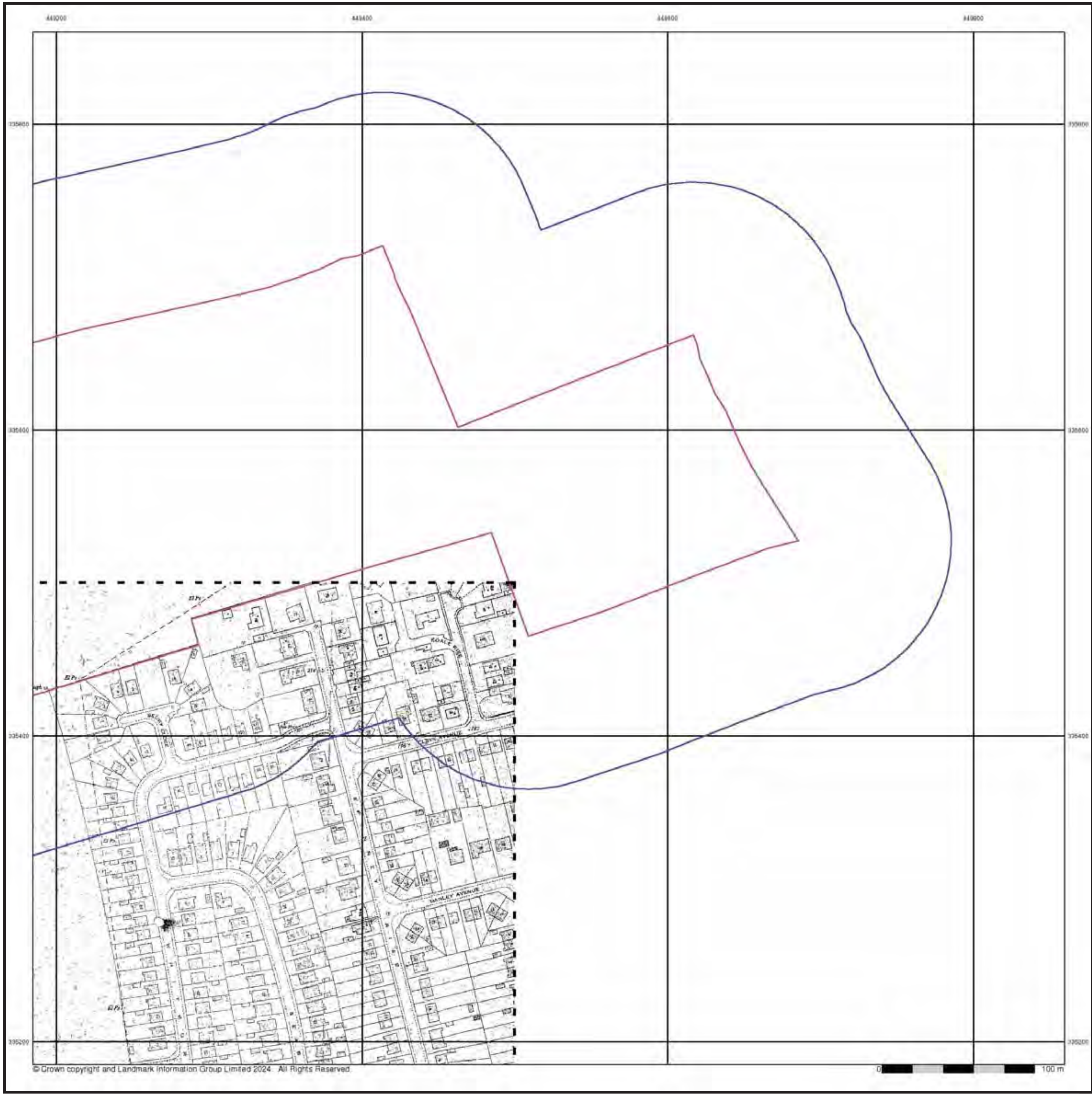


GeoDyne

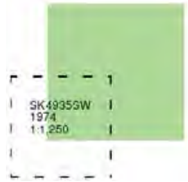
Supply of Unpublished Survey Information

Published 1974

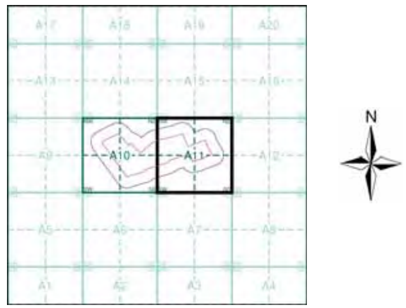
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a `work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A11



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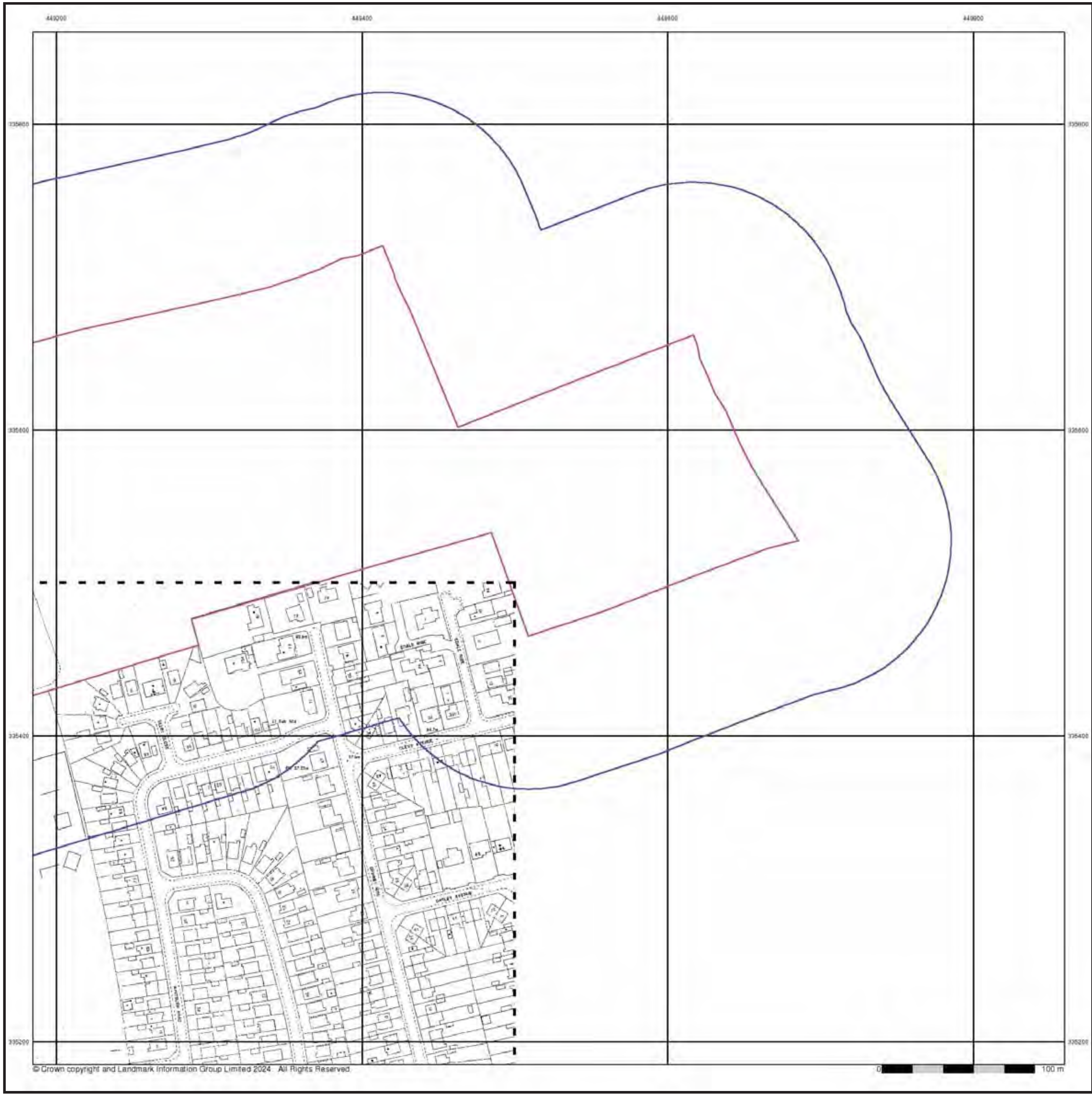


GeoDyne

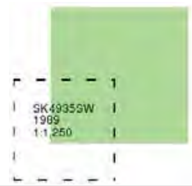
Additional SIMs

Published 1989

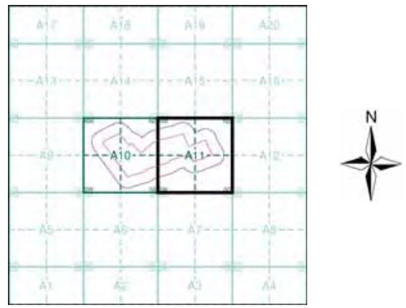
Source map scale - 1:1,250

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 A11



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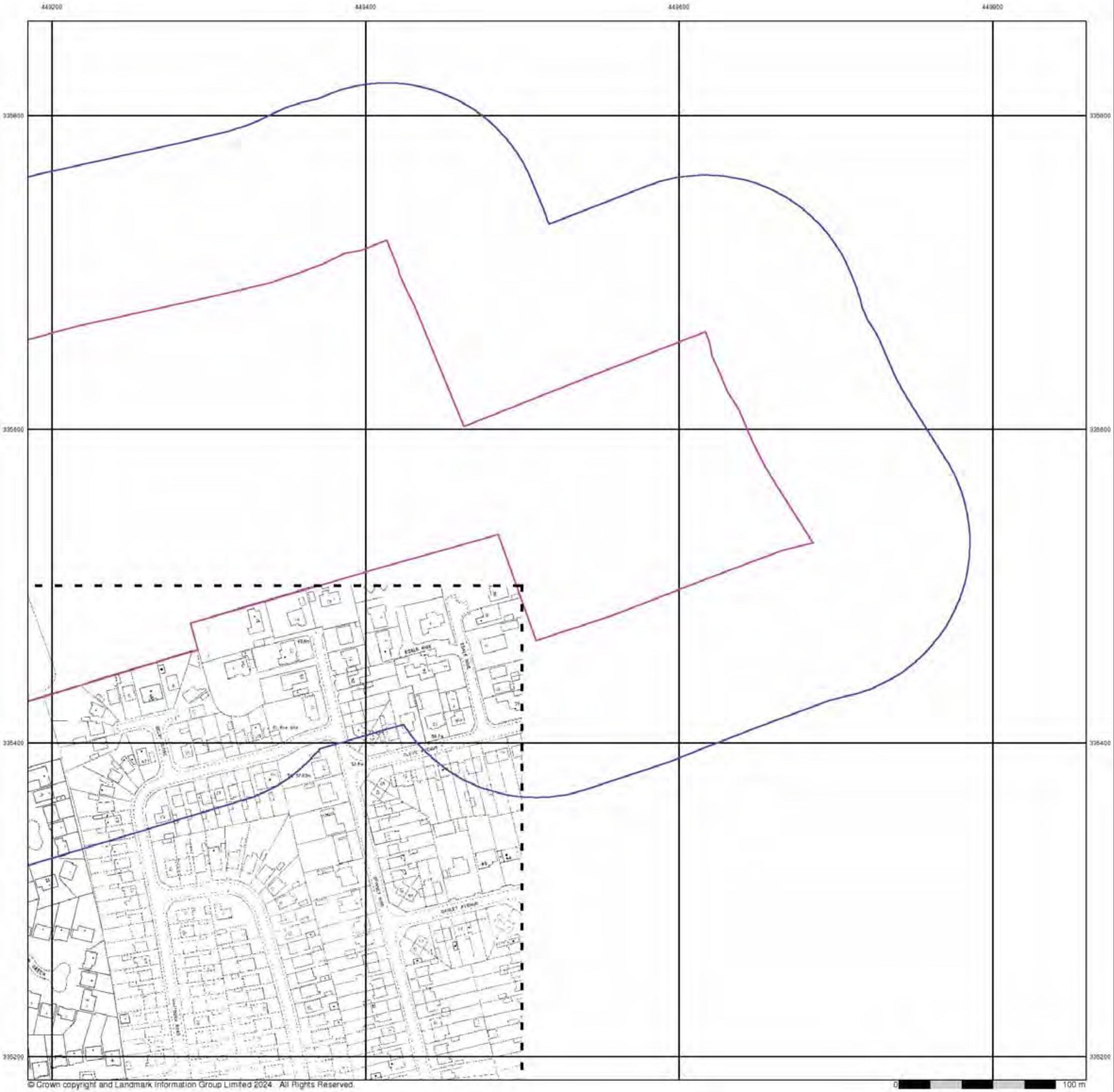

GeoDyne

Additional SIMs

Published 1990

Source map scale - 1:1,250

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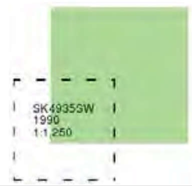
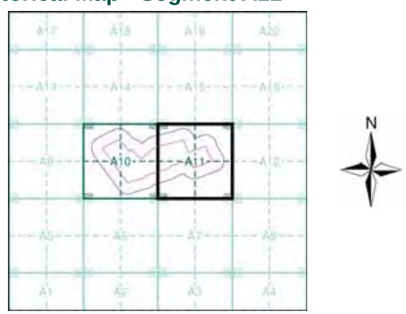
Map Name(s) and Date(s)



Historical Map - Segment A11



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Site Details

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GeoDyne

Large-Scale National Grid Data

Published 1993

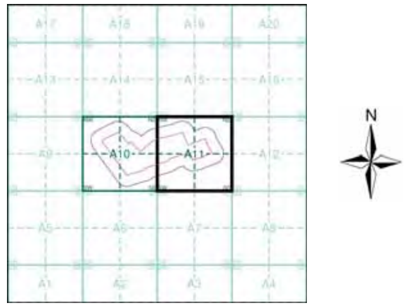
Source map scale - 1:1,250

'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)

SK4935NW 1993 1:1,250	SK4935NE 1993 1:1,250
SK4935SW 1993 1:1,250	SK4935SE 1993 1:1,250

Historical Map - Segment A11



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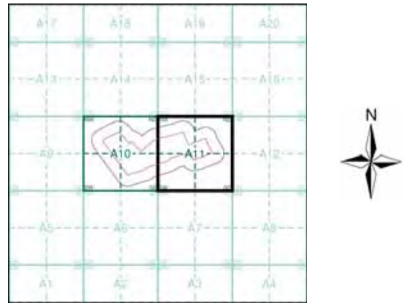
GeoDyne

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 A11



Order Details

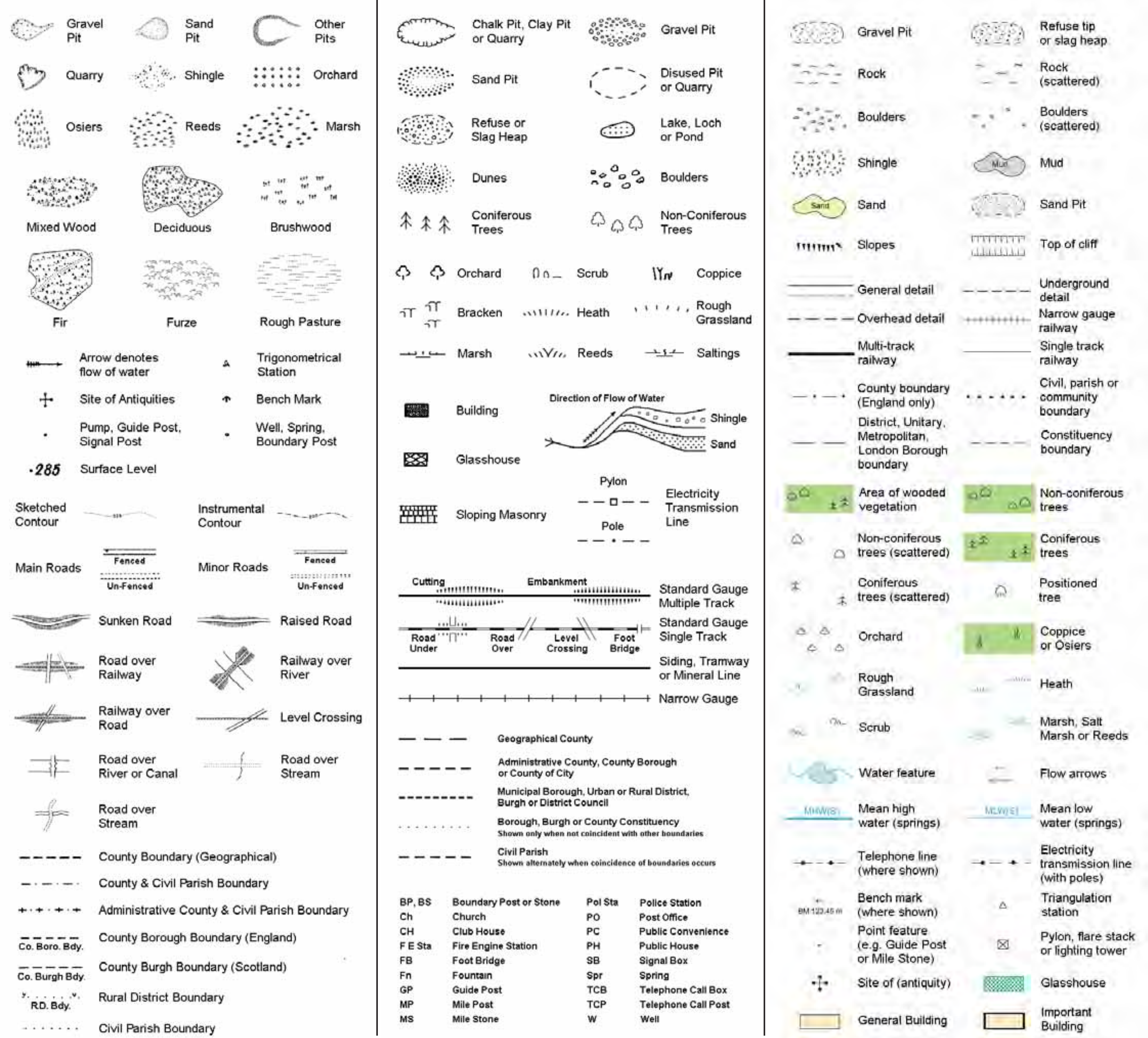
Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 100

Site Details

Toton West

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

Historical Mapping Legends

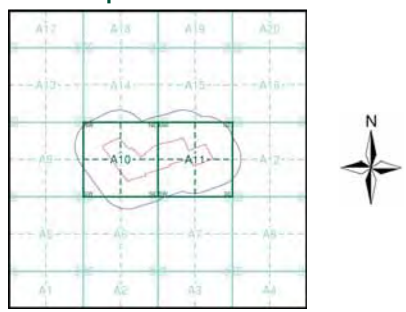


GeoDyne

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Nottinghamshire	1:10,560	1884	3
Derbyshire	1:10,560	1884	4
Derbyshire	1:10,560	1901	5
Nottinghamshire	1:10,560	1901	6
Nottinghamshire	1:10,560	1921	7
Derbyshire	1:10,560	1921	8
Nottinghamshire	1:10,560	1938	9
Derbyshire	1:10,560	1938 - 1939	10
Ordnance Survey Plan	1:10,000	1955 - 1956	11
Ordnance Survey Plan	1:10,000	1967	12
Ordnance Survey Plan	1:10,000	1971 - 1973	13
Nottingham	1:10,000	1975	14
Ordnance Survey Plan	1:10,000	1983 - 1985	15
Ordnance Survey Plan	1:10,000	1995	16
10K Raster Mapping	1:10,000	2000	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Historical Map - Slice A



Order Details

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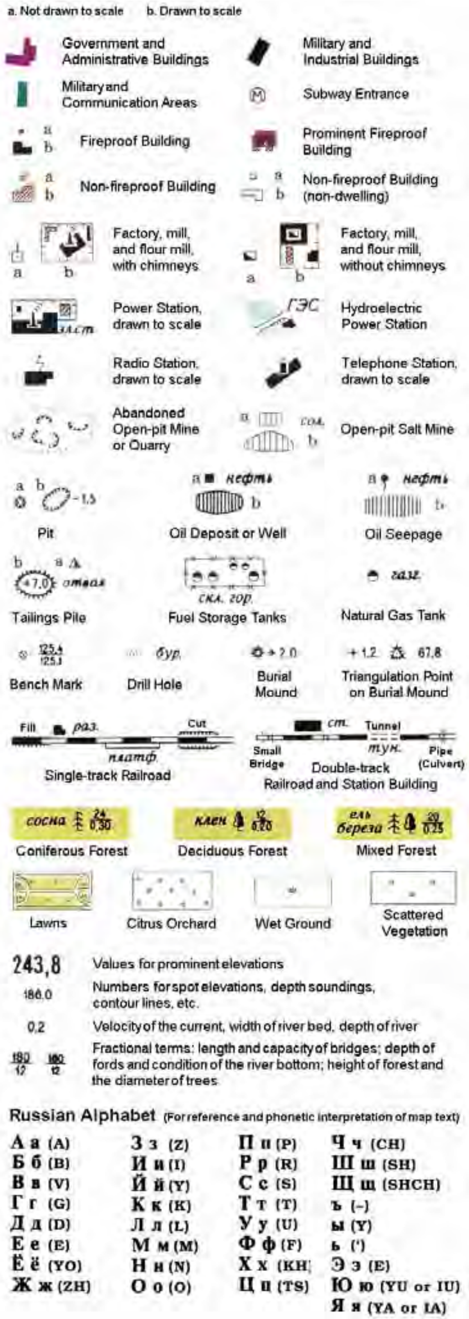
Site Details

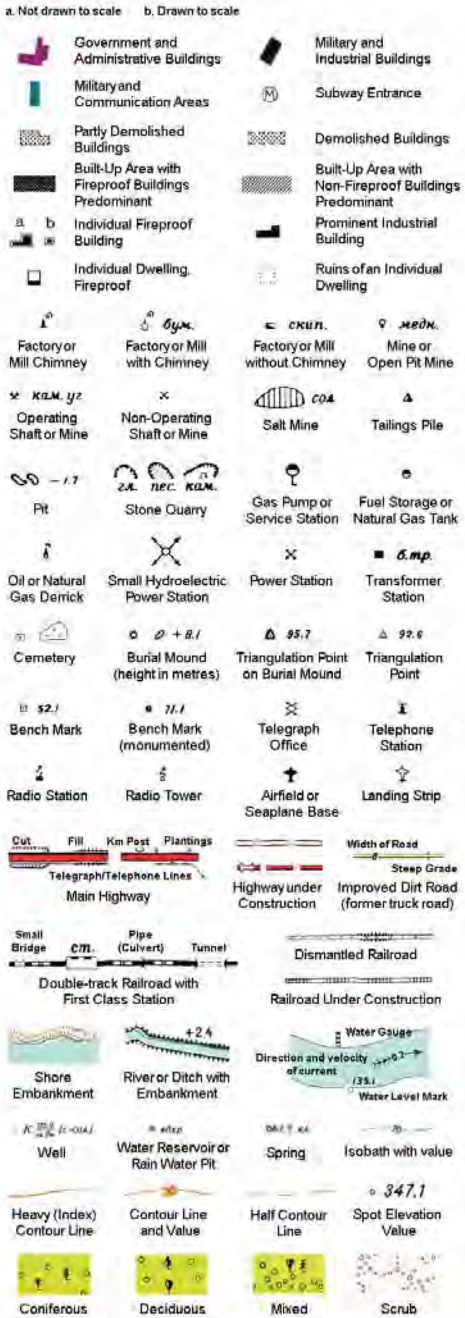
Toton West

Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping



1:25,000 mapping



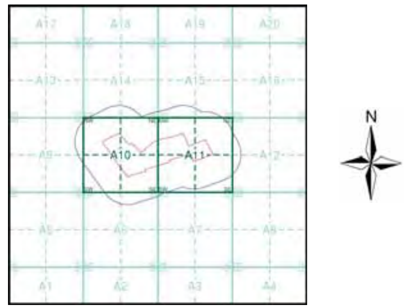
Key to Numbers on Mapping

GeoDyne

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Nottinghamshire	1:10,560	1884	3
Derbyshire	1:10,560	1884	4
Derbyshire	1:10,560	1901	5
Nottinghamshire	1:10,560	1901	6
Nottinghamshire	1:10,560	1921	7
Derbyshire	1:10,560	1921	8
Nottinghamshire	1:10,560	1938	9
Derbyshire	1:10,560	1938 - 1939	10
Ordnance Survey Plan	1:10,000	1955 - 1956	11
Ordnance Survey Plan	1:10,000	1967	12
Ordnance Survey Plan	1:10,000	1971 - 1973	13
Nottingham	1:10,000	1975	14
Ordnance Survey Plan	1:10,000	1983 - 1985	15
Ordnance Survey Plan	1:10,000	1995	16
10K Raster Mapping	1:10,000	2000	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Russian Map - Slice A



N

Order Details

Order Number: 364257918_1_1
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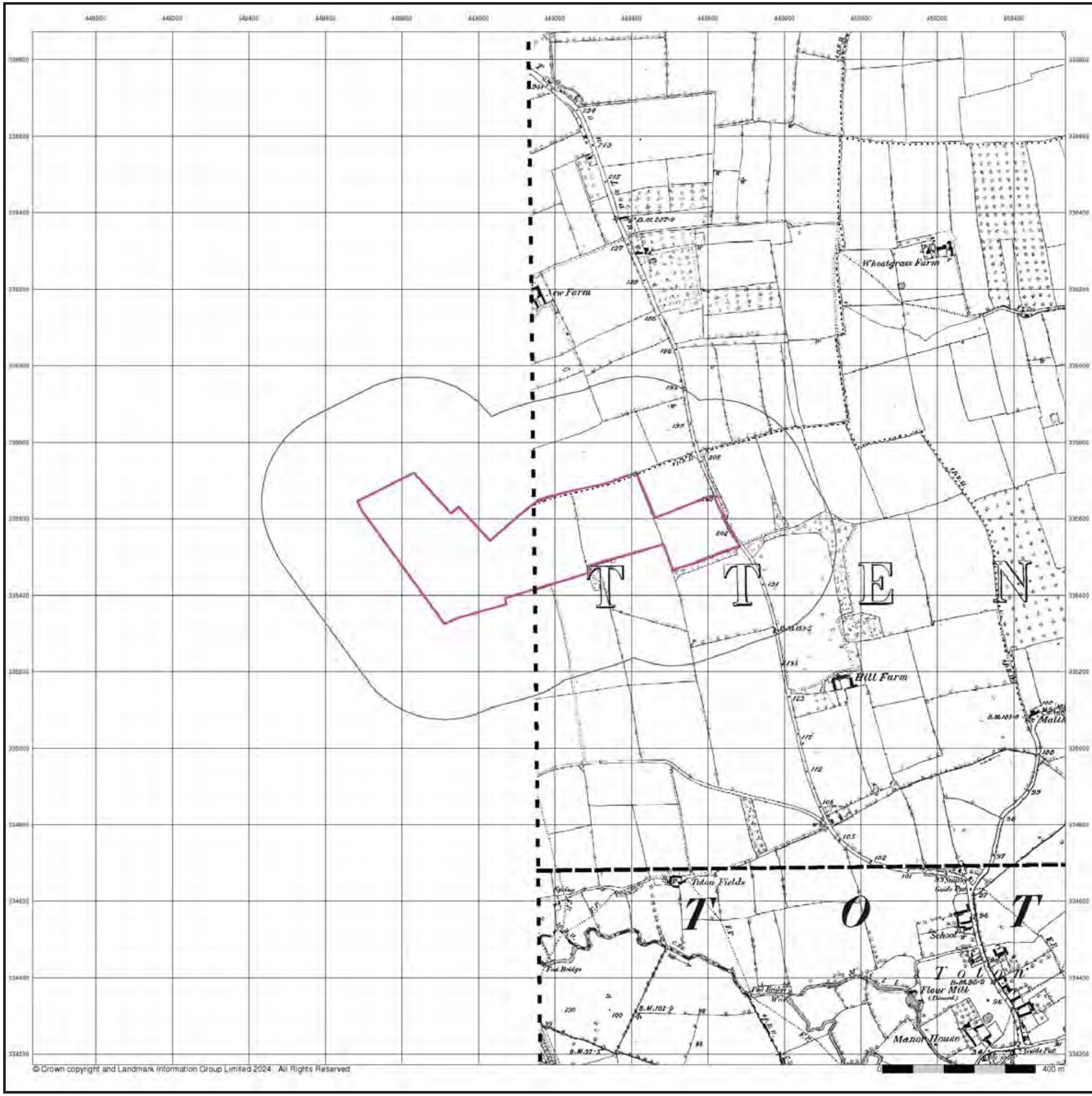


GeoDyne

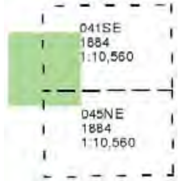
Nottinghamshire

Published 1884

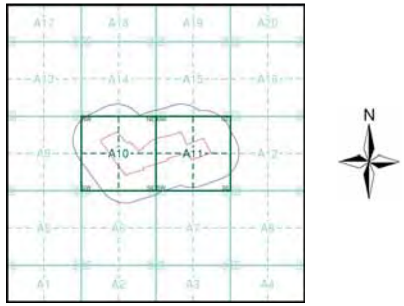
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



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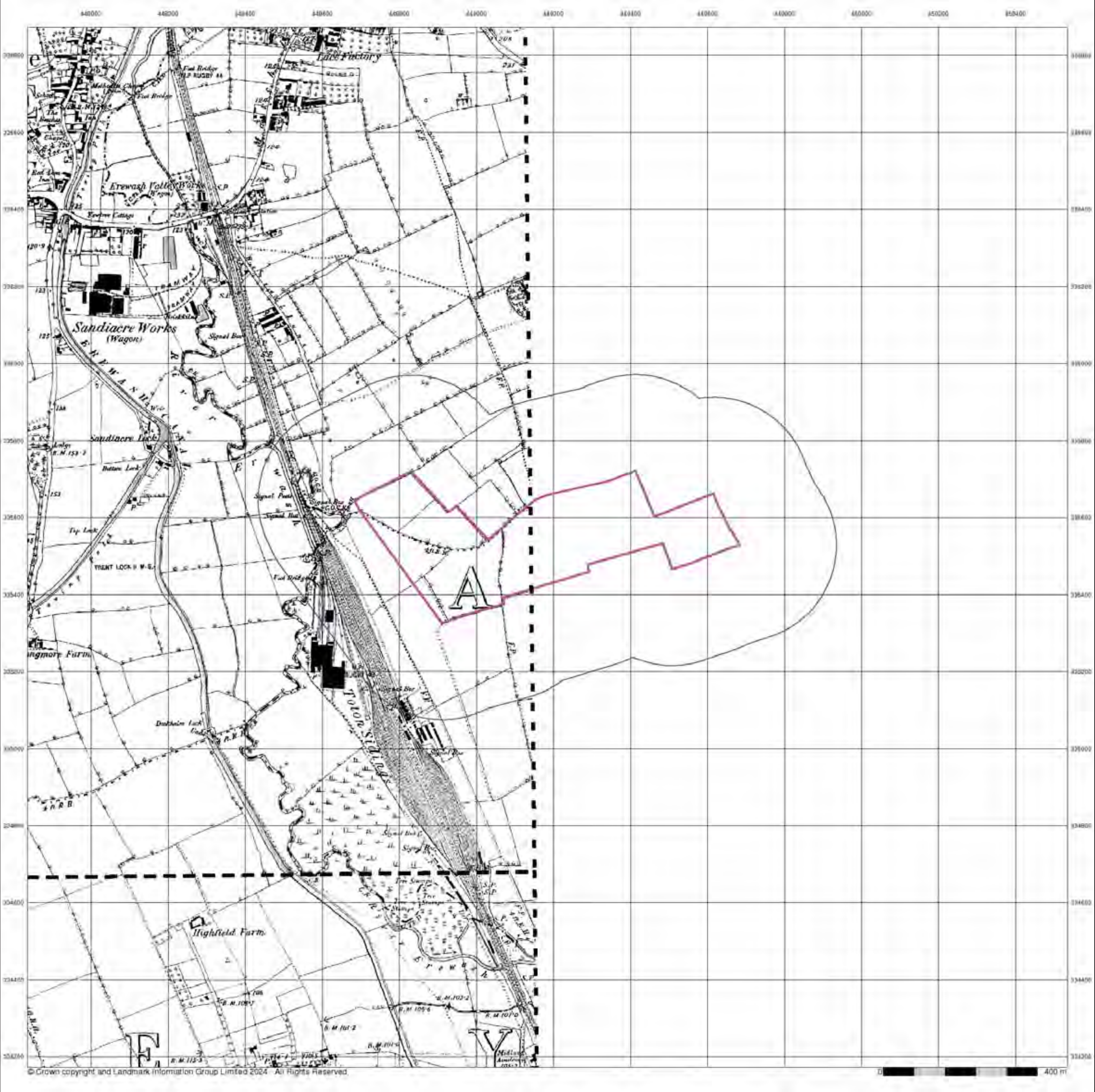

GeoDyne

Derbyshire

Published 1884

Source map scale - 1:10,560

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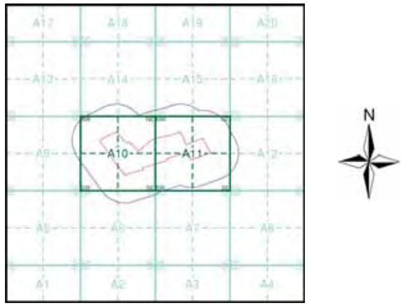
Map Name(s) and Date(s)

051SW
1884
1:10,560

056NW
1884
1:10,560

Historical Map - Slice A



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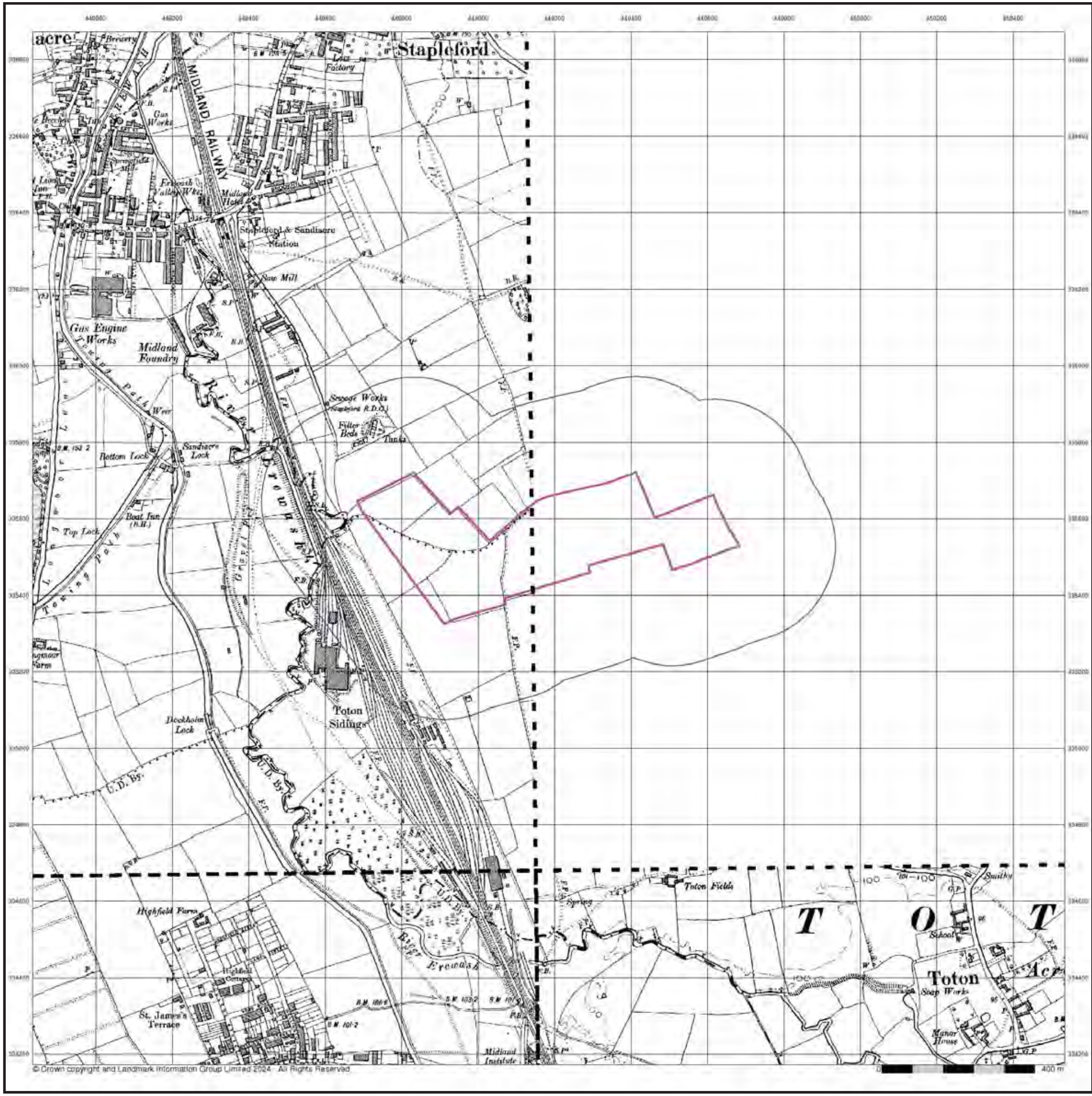

GeoDyne

Derbyshire

Published 1901

Source map scale - 1:10,560

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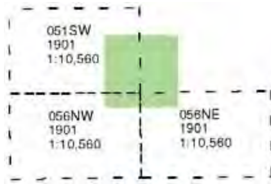
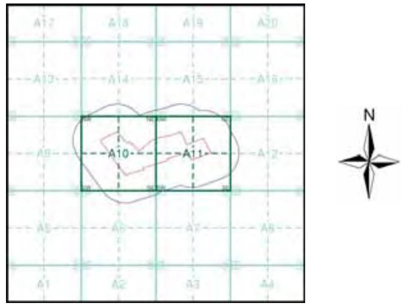


Historical Map - Slice A



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GeoDyne

Nottinghamshire

Published 1901

Source map scale - 1:10,560

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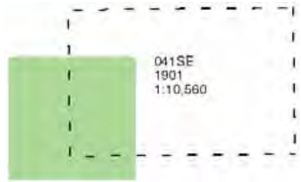
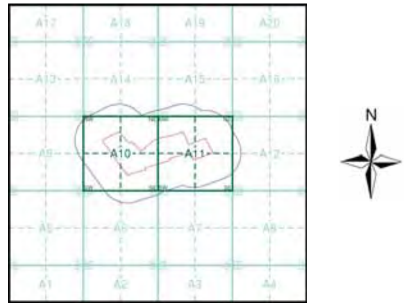


Historical Map - Slice A



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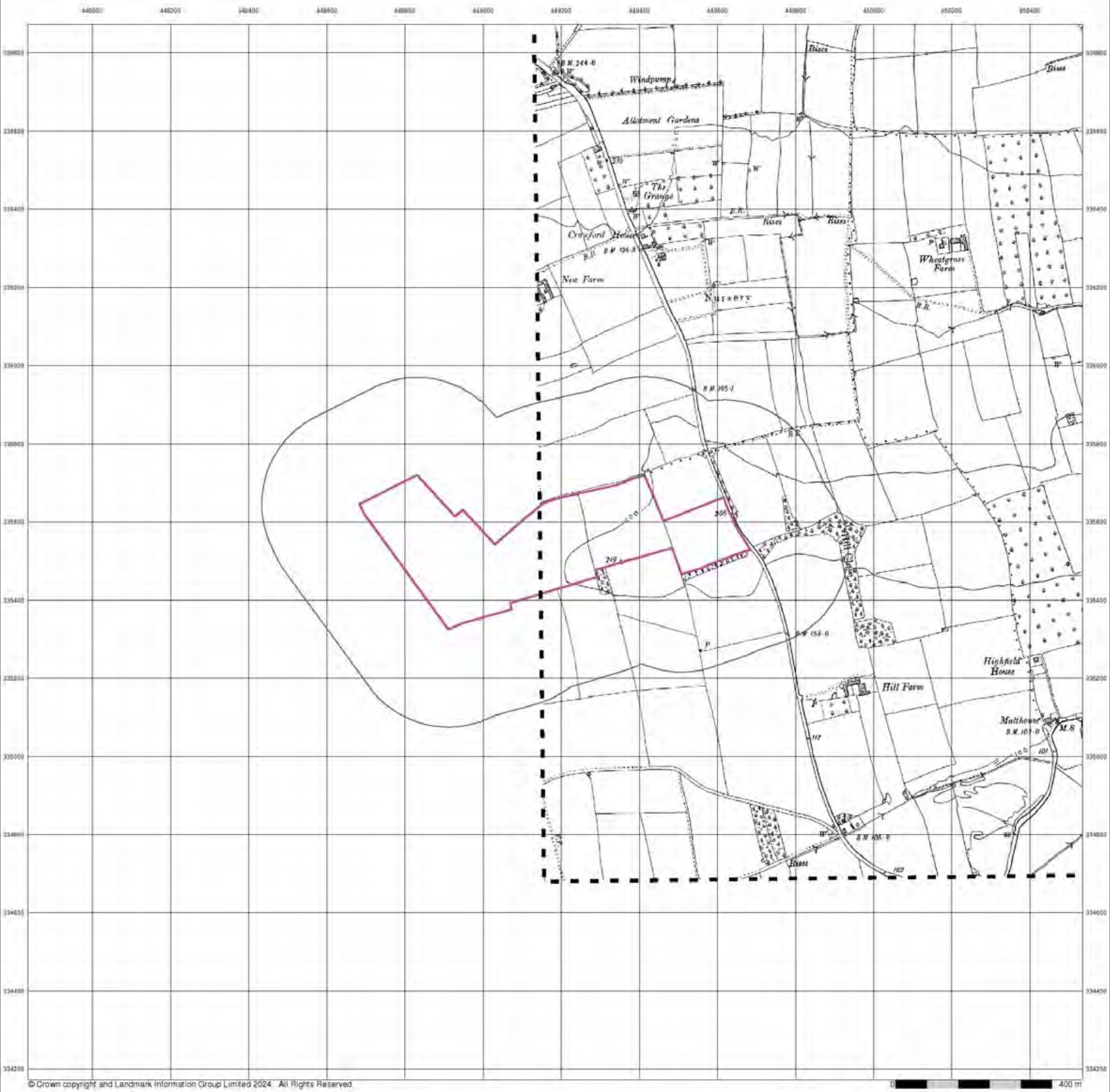

GeoDyne

Nottinghamshire

Published 1921

Source map scale - 1:10,560

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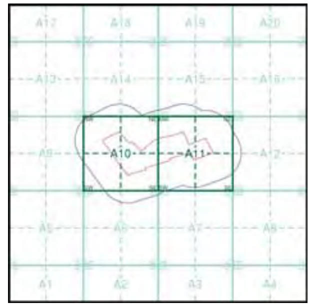
Map Name(s) and Date(s)

041SE
1921
1:10,560

Historical Map - Slice A



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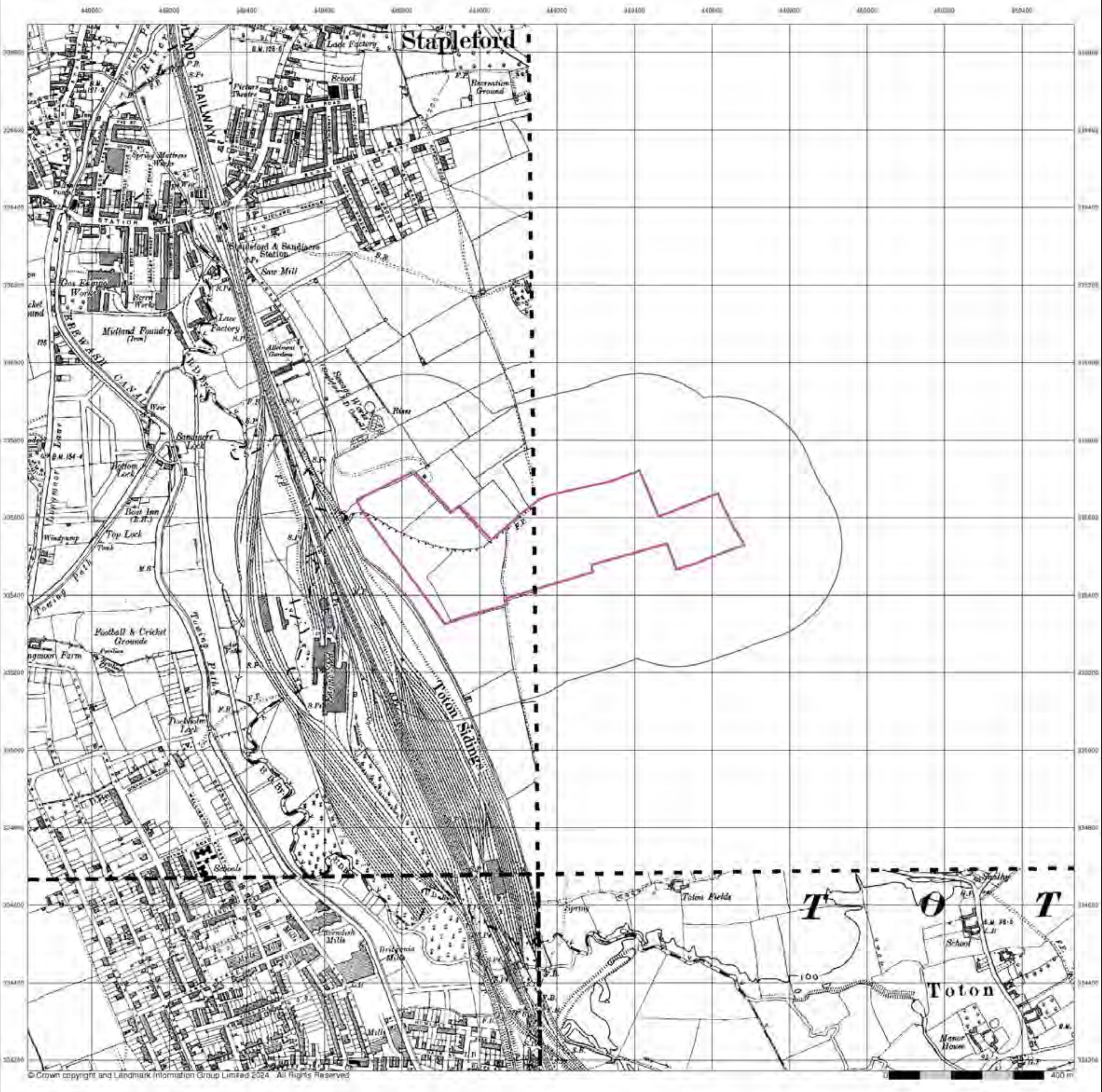
Toton West



GeoDyne

Derbyshire

Published 1921

Source map scale - 1:10,560

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

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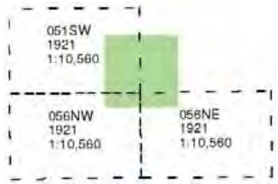
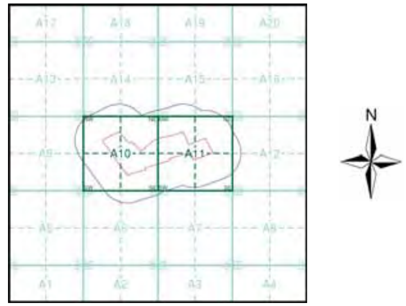


Historical Map - Slice A



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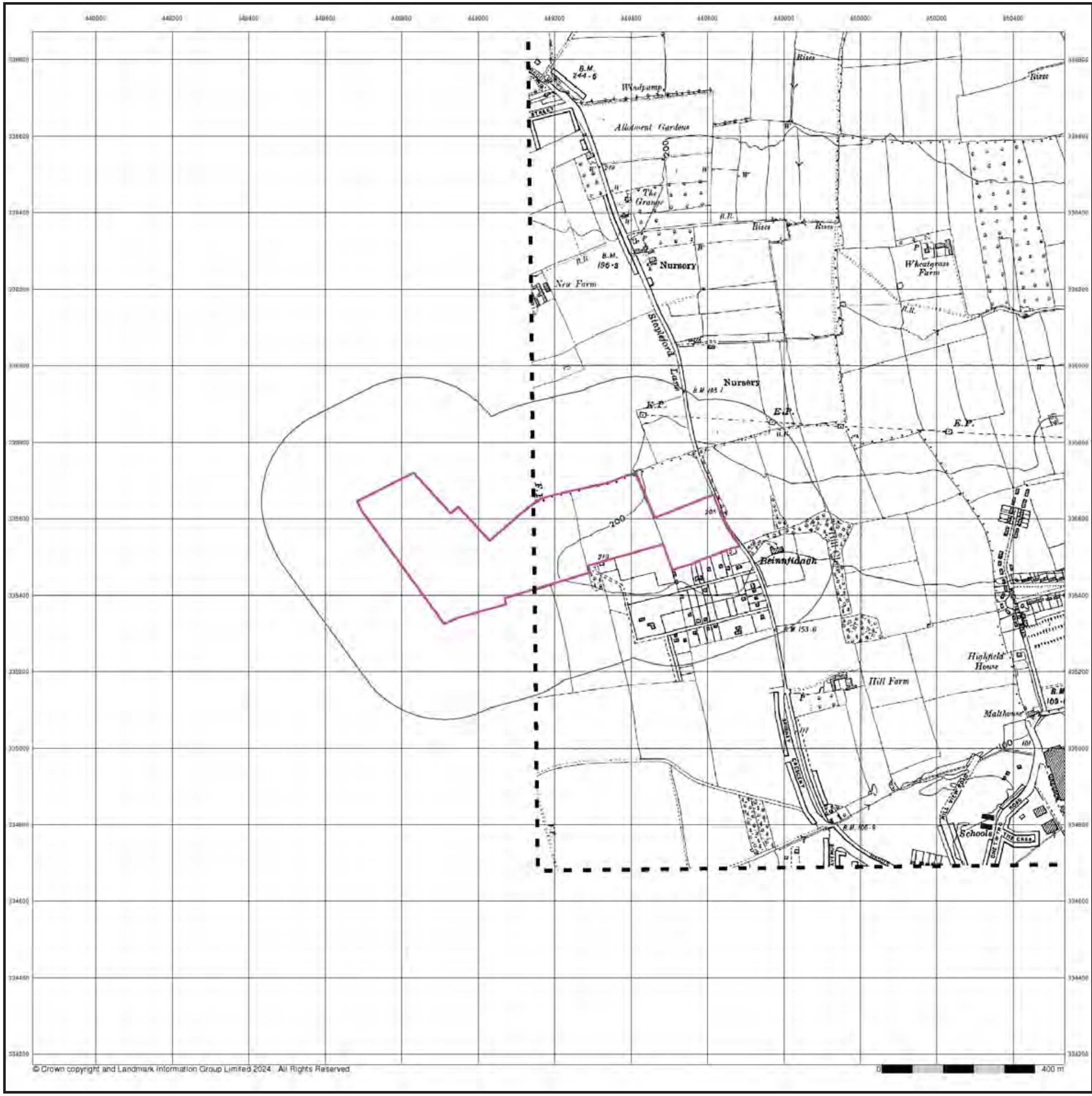


GeoDyne

Nottinghamshire

Published 1938

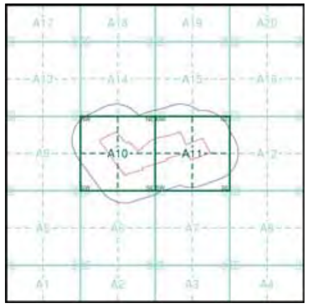
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

041SE
1938
1:10,560

Historical Map - Slice A



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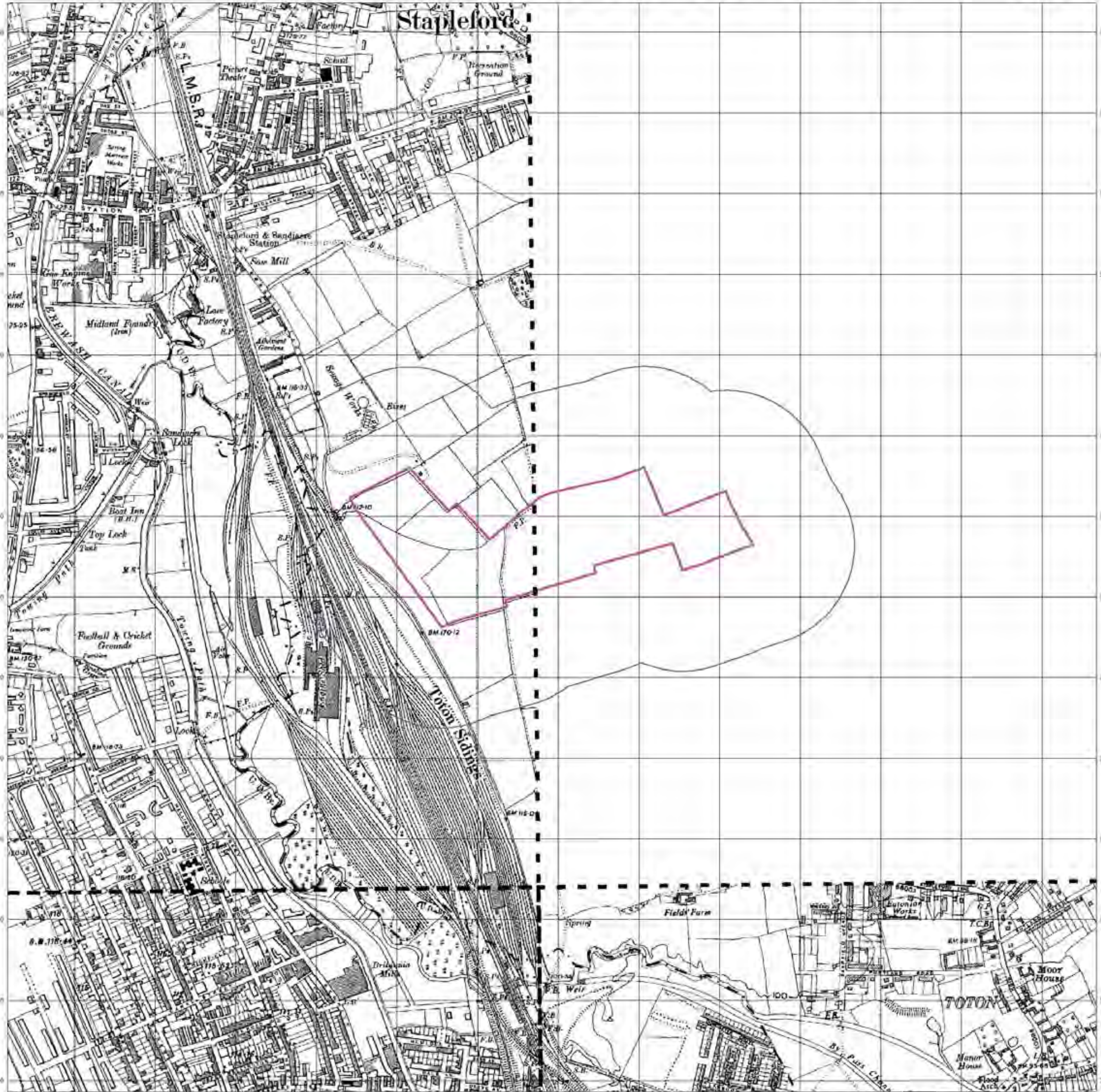


GeoDyne

Derbyshire

Published 1938 - 1939

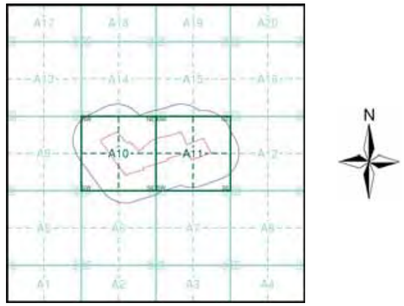
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

Map	Date	Scale
051SW	1938	1:10,560
056NW	1938	1:10,560
056NE	1939	1:10,560

Historical Map - Slice A



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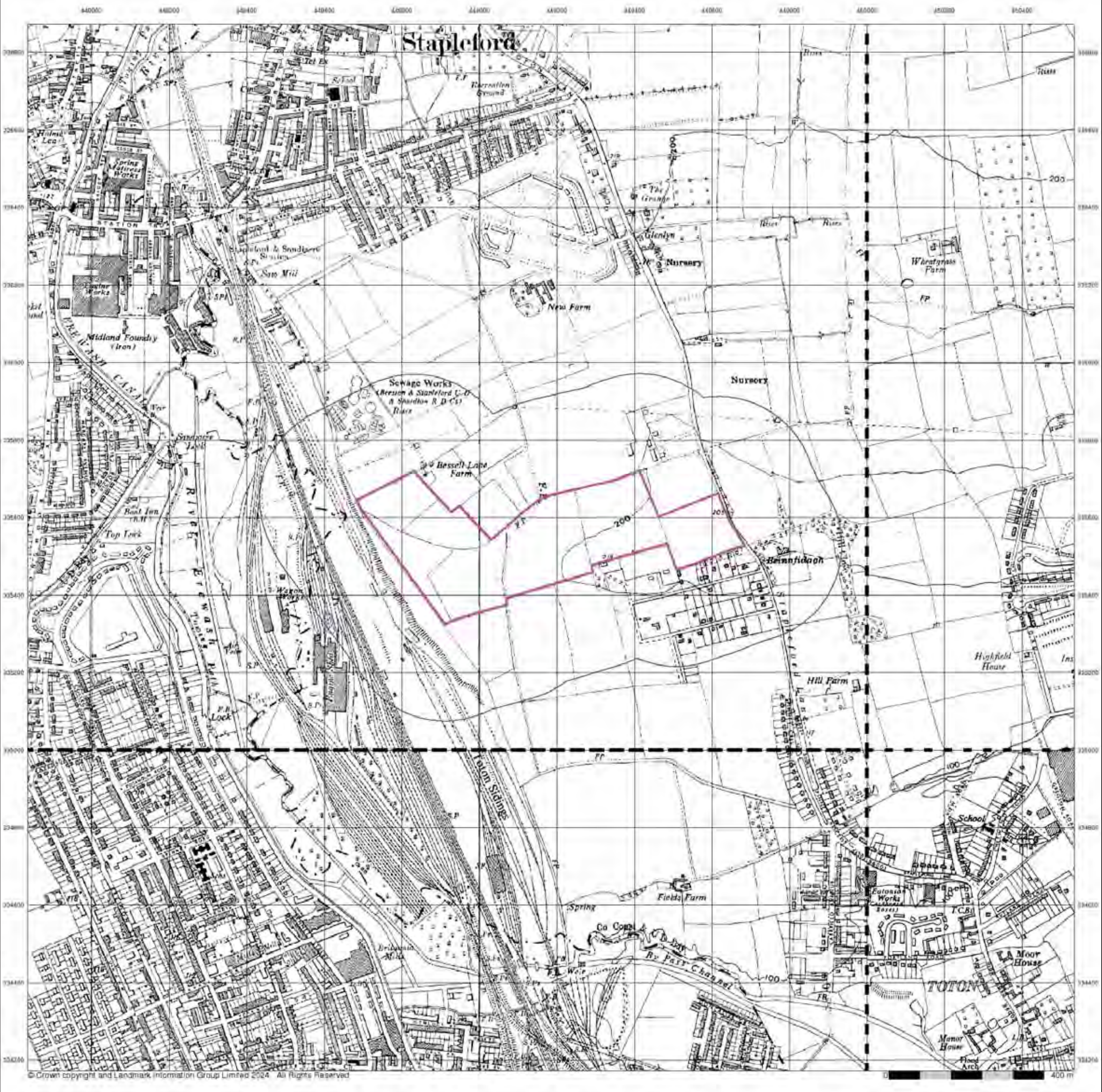

GeoDyne

Ordnance Survey Plan

Published 1955 - 1956

Source map scale - 1:10,000

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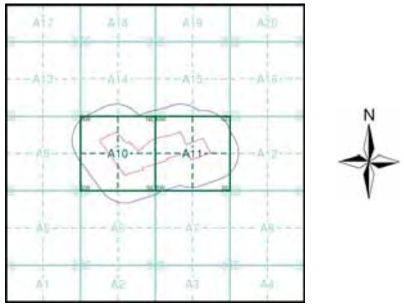
Map Name(s) and Date(s)

SK43NE 1956 1:10,560	SK53NW 1955 1:10,560
SK43SE 1955 1:10,560	SK53SW 1955 1:10,560

Historical Map - Slice A



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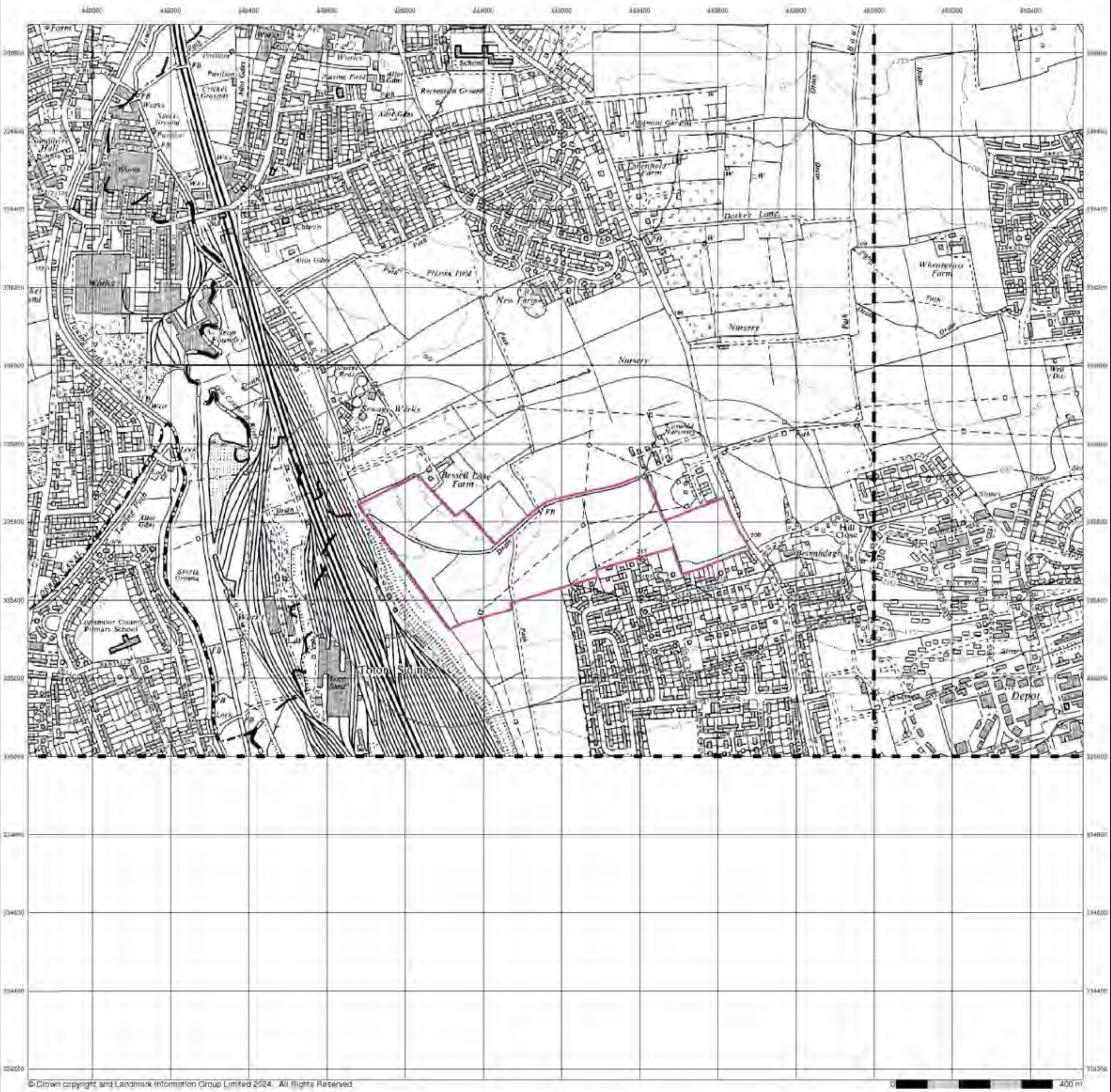

GeoDyne

Ordnance Survey Plan

Published 1967

Source map scale - 1:10,000

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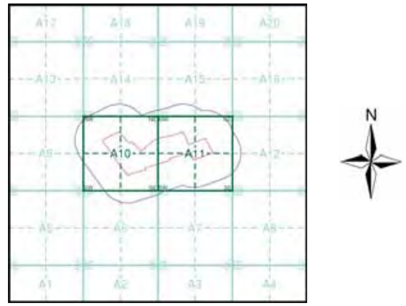
Map Name(s) and Date(s)

Historical Map - Slice A



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GeoDyne

Ordnance Survey Plan

Published 1971 - 1973

Source map scale - 1:10,000

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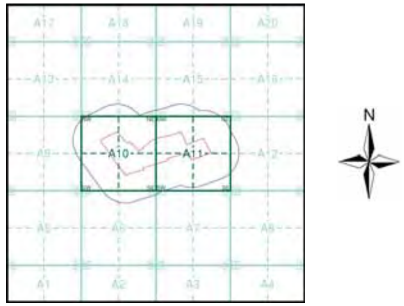
Map Name(s) and Date(s)

SK43NE 1973 1:10,000	SK53NW 1973 1:10,000
SK43SE 1971 1:10,000	SK53SW 1971 1:10,000

Historical Map - Slice A



Order Details

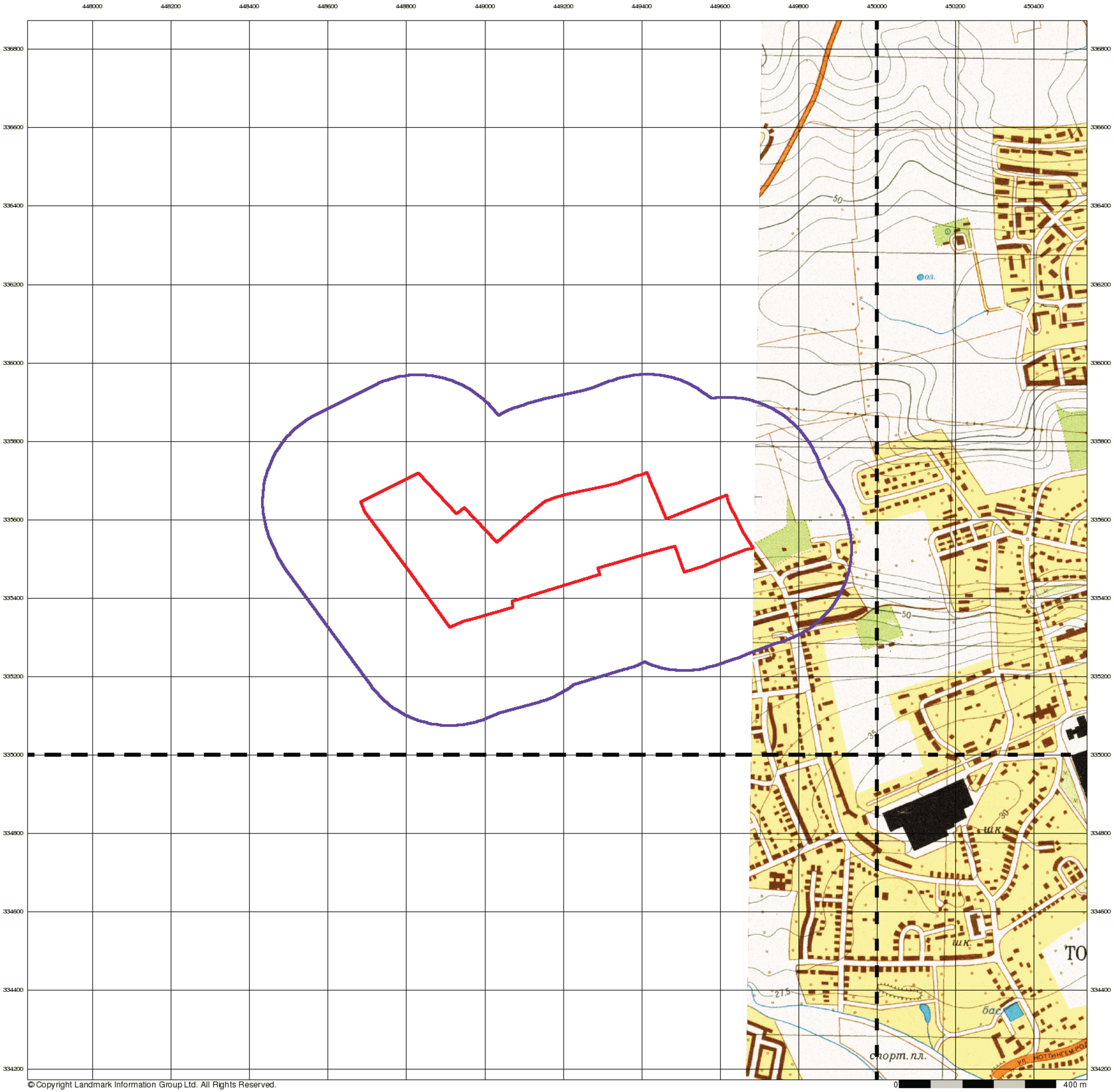
Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

Toton West

Landmark INFORMATION GROUP

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



GeoDyne

Nottingham

Published 1975

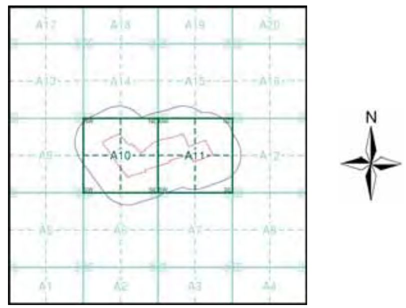
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.
They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

SK43NE 1975 1:10,000	SK53NW 1975 1:10,000
SK43SE 1975 1:10,000	SK53SW 1975 1:10,000

Russian Map - Slice A



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National Grid Reference: 449170, 335560
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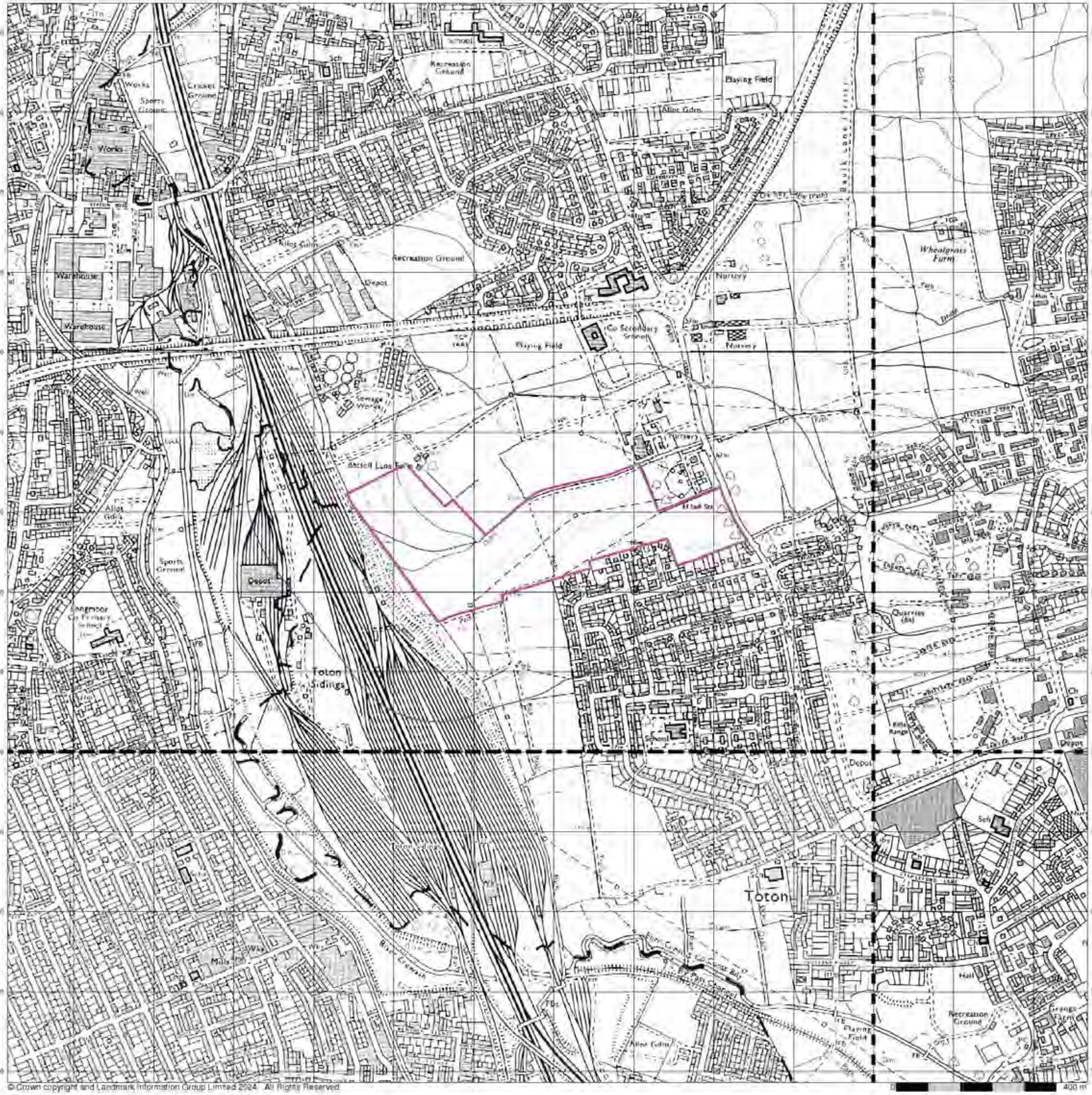


GeoDyne

Ordnance Survey Plan

Published 1983 - 1985

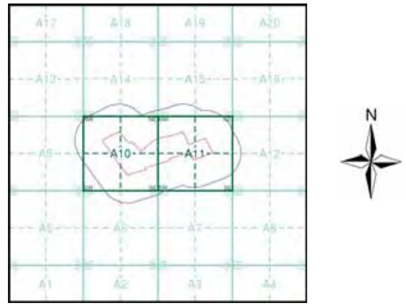
Source map scale - 1:10,000

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)

SK43NE 1985 1:10,000	SK53NW 1984 1:10,000
SK43SE 1983 1:10,000	SK53SW 1983 1:10,000

Historical Map - Slice A



Order Details

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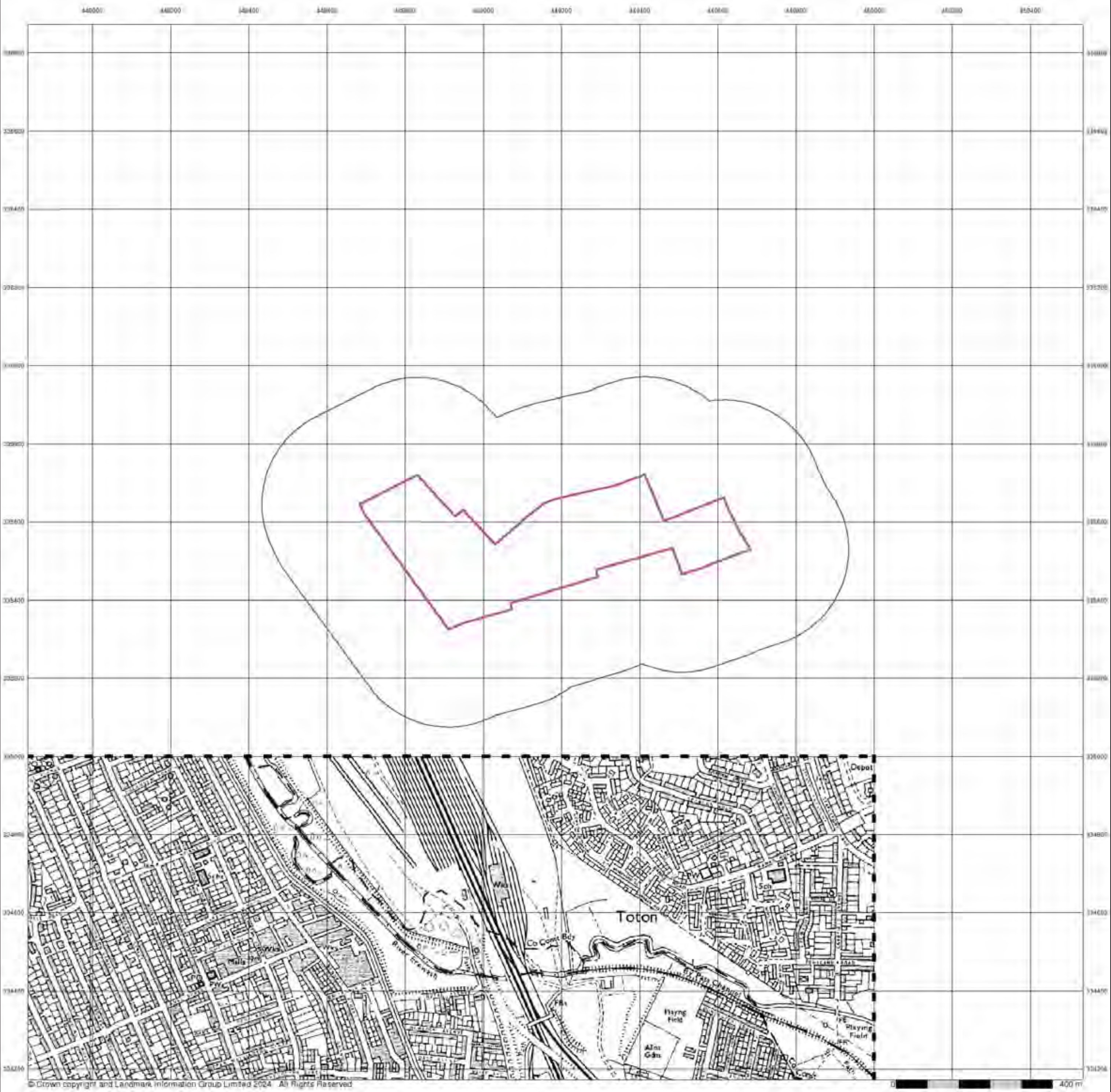


GeoDyne

Ordnance Survey Plan

Published 1995

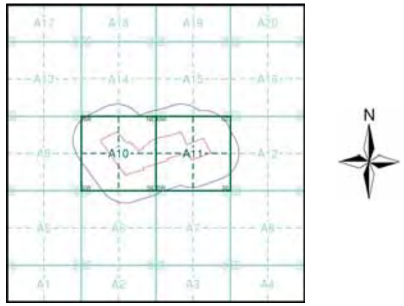
Source map scale - 1:10,000

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)

SK43SE
1995
1:10,000

Historical Map - Slice A



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Site Details

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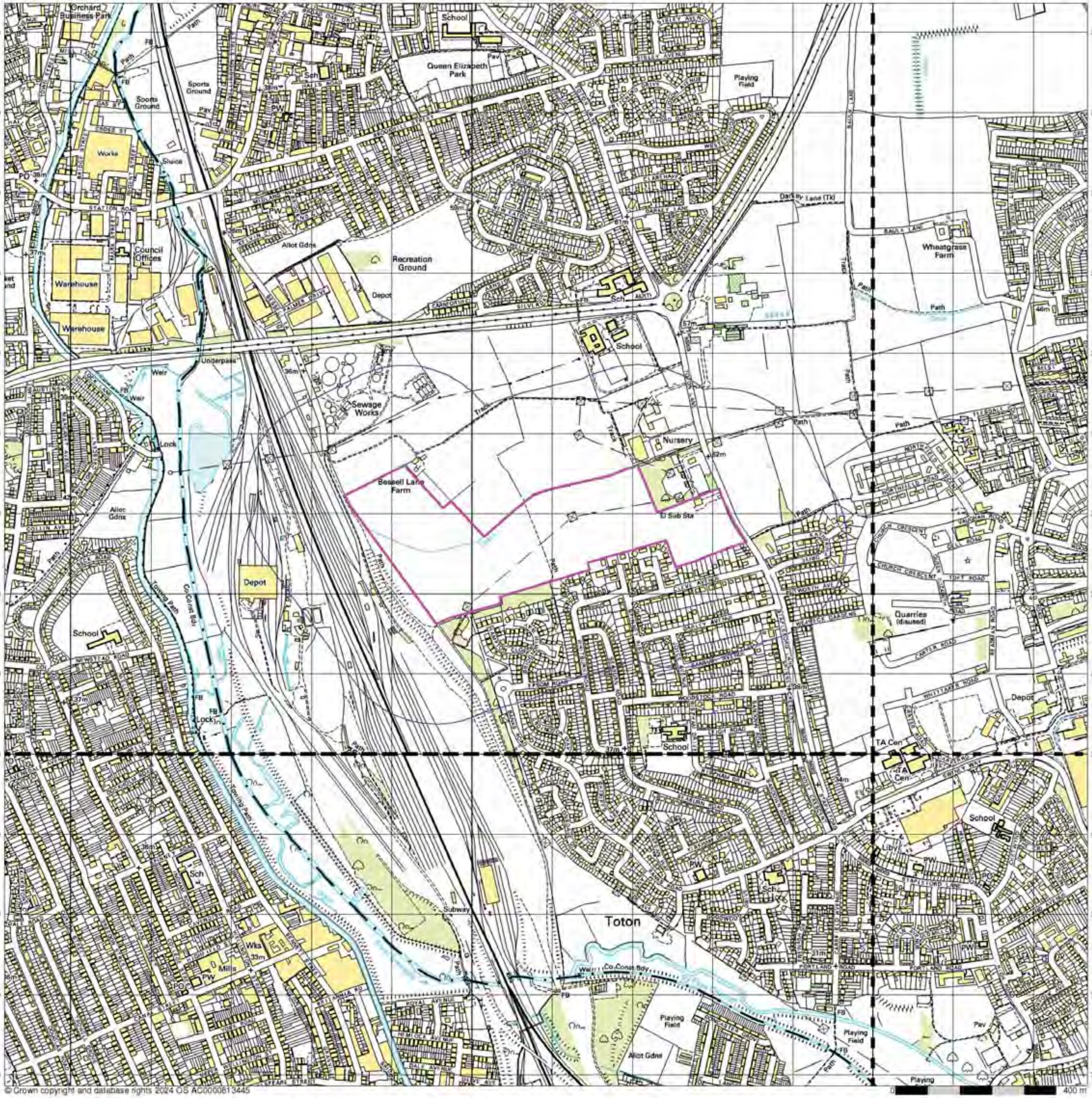


GeoDyne

10k Raster Mapping

Published 2000

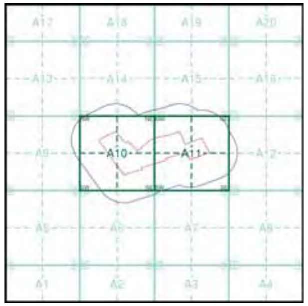
Source map scale - 1:10,000

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)

SK43NE 2000 1:10,000	SK53NW 2000 1:10,000
SK43SE 2000 1:10,000	SK53SW 2000 1:10,000

Historical Map - Slice A



Order Details

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National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

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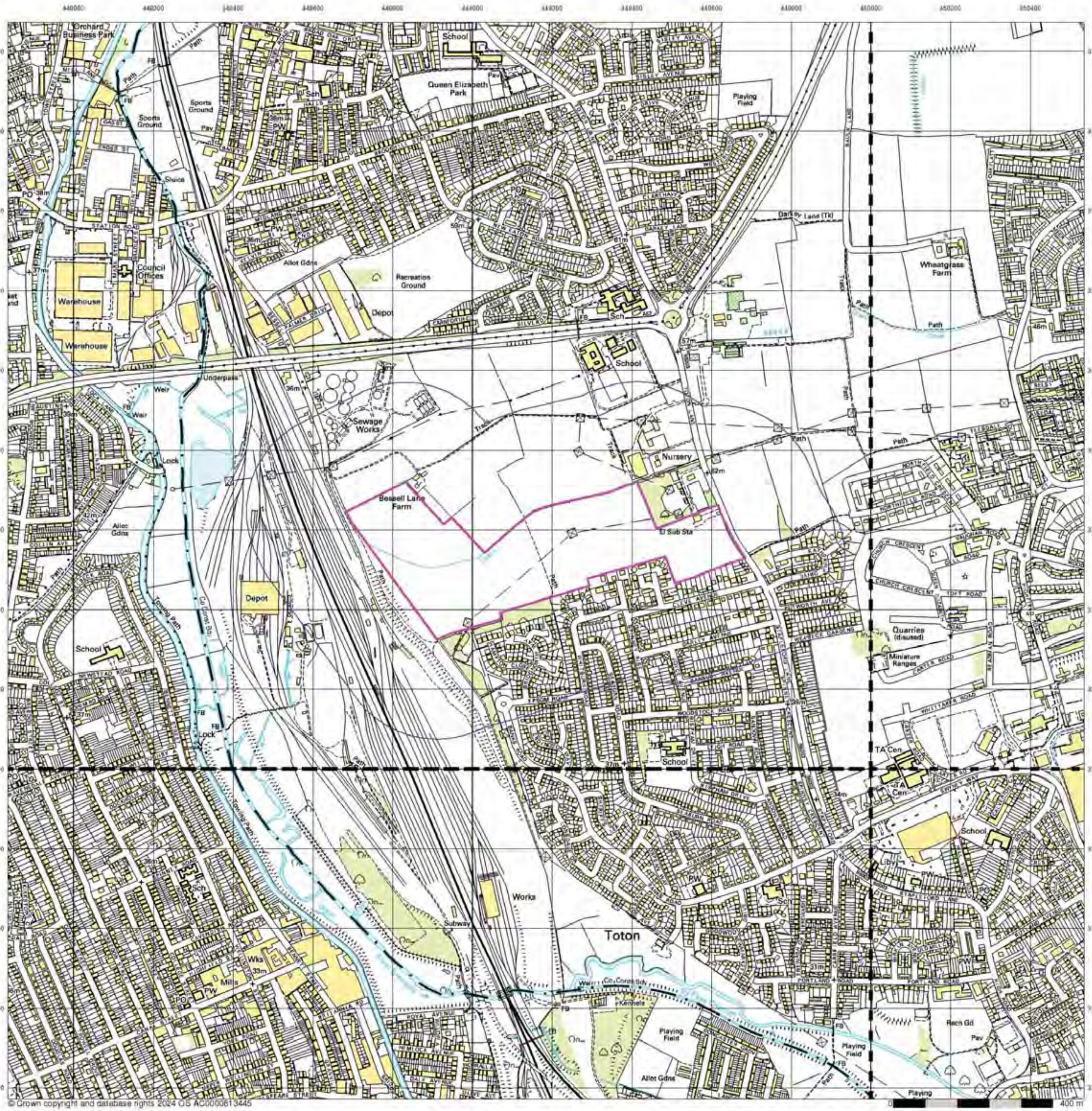

GeoDyne

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)

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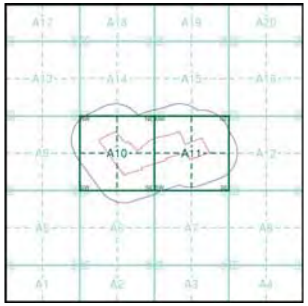
SK43SE 2006 1:10,000	SK53SW 2006 1:10,000

Historical Map - Slice A



Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
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Site Details

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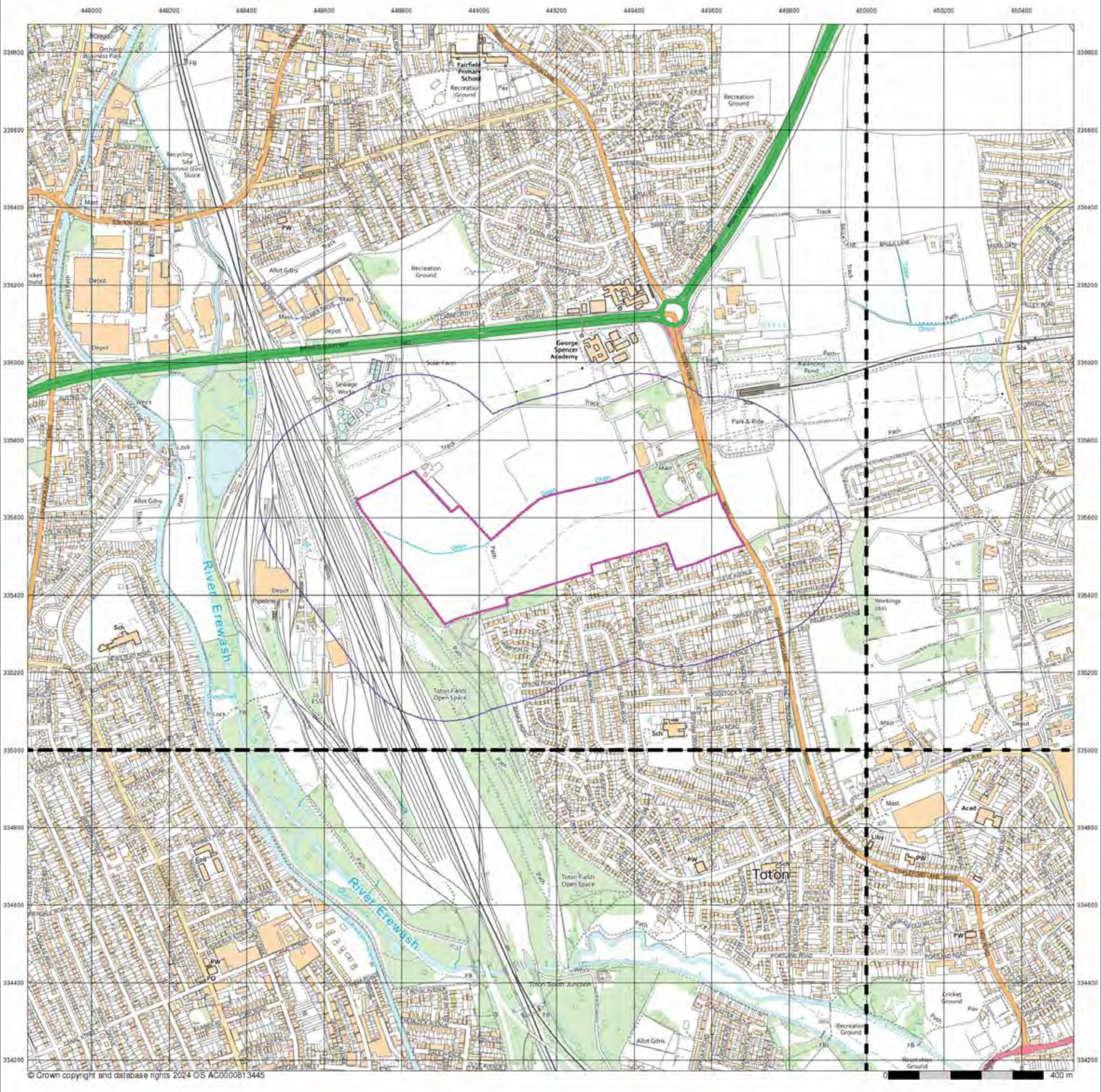


GeoDyne

VectorMap Local

Published 2024

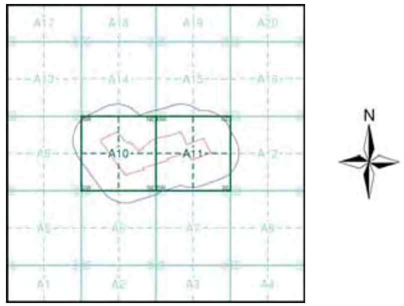
Source map scale - 1:10,000

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)

SK43NE 2024 Variable	SK53NW 2024 Variable
SK43SE 2024 Variable	SK53SW 2024 Variable

Historical Map - Slice A



Order Details

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Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West

Landmark INFORMATION GROUP

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APPENDIX VI

Landmark Geological Maps

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
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	GFDMP	Glaciofluvial Deposits, Mid Pleistocene	Sand and Gravel	Not Supplied - Cromerian
	BSSG	Beeston Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	EGSG	Egginton Common Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	HPSG	Holme Pierrepont Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	HETD	Hemington Member	Silt and Gravel	Not Supplied - Pleistocene
	EMSG	Eagle Moor Sand and Gravel Member	Sand and Gravel	Not Supplied - Pleistocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Not Supplied - Quaternary
	HEAD	Head	Diamicton	Not Supplied - Quaternary
	HEAD	Head	Diamicton	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	COT	Cotgrave Sandstone Member	Sandstone	Not Supplied - Carnian
	EDW	Edwalton Member	Mudstone	Not Supplied - Carnian
	RDCF	Radcliffe Member	Mudstone and Siltstone	Not Supplied - Anisian
	GUN	Gunthorpe Member	Mudstone	Not Supplied - Anisian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	GUN	Gunthorpe Member	Siltstone	Not Supplied - Anisian
	TPSF	Tarporley Siltstone Formation	Sandstone	Not Supplied - Olenekian
	TPSF	Tarporley Siltstone Formation	Mudstone and Siltstone	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
	CHES	Chester Formation	Sandstone, Pebbly (Gravelly)	Not Supplied - Olenekian
	LNS	Lenton Sandstone Formation	Sandstone	Not Supplied - GUADALUPIAN
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
		Faults		
		Rock Segments		

GeoDyne

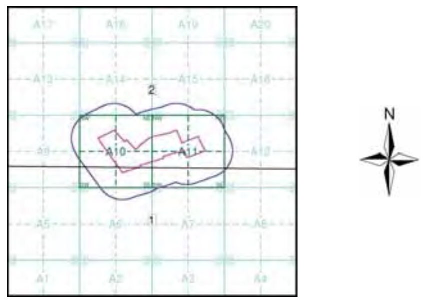
Geology 1:50,000 Maps

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 ID:	2
Map Sheet No:	141	Map Sheet No:	125
Map Name:	Loughborough	Map Name:	Derby
Map Date:	2000	Map Date:	2014
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Available	Superficial Geology:	Available
Artificial Geology:	Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Available	Landslip:	Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

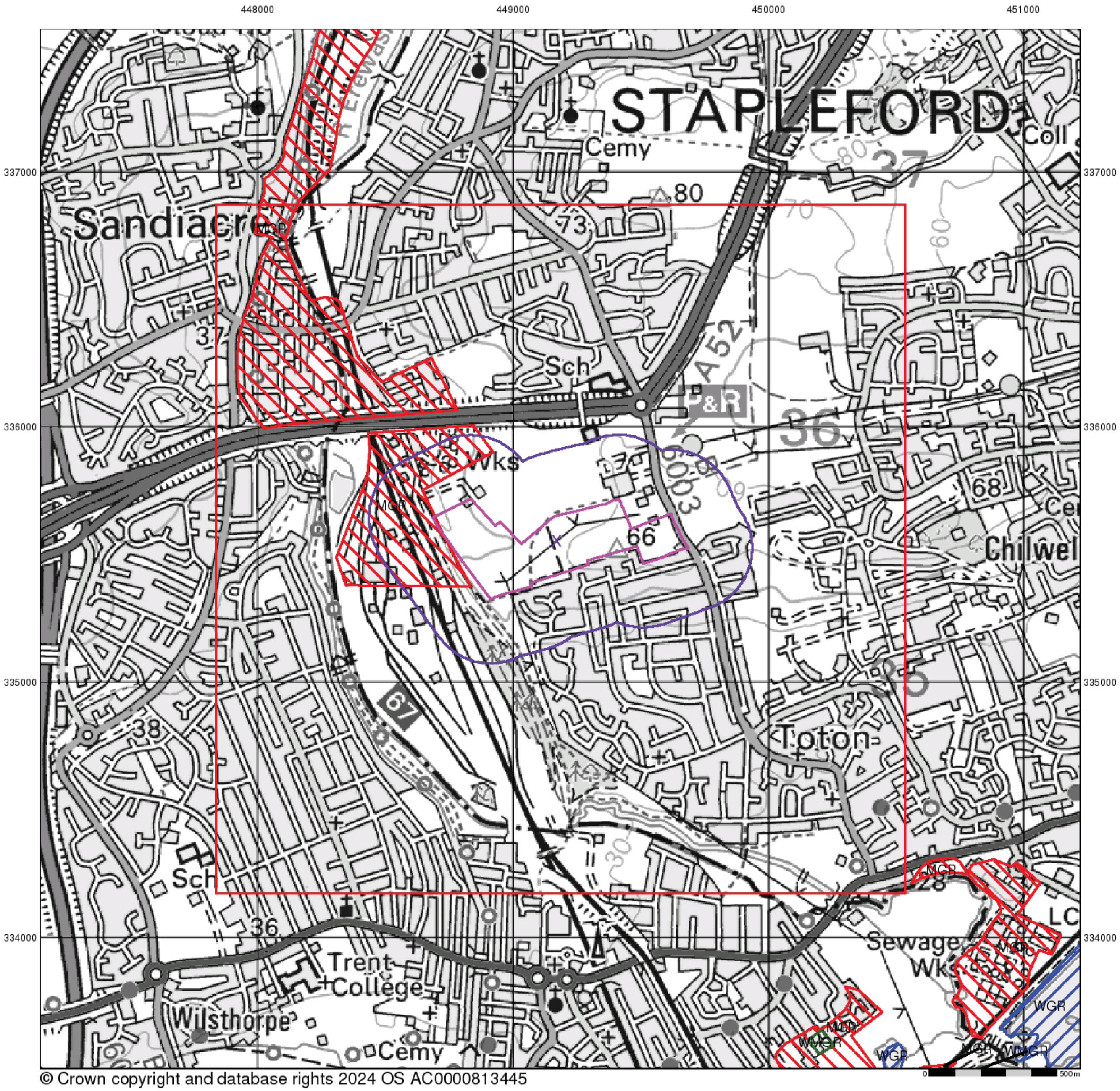


Order Details:

Order Number: 364257918_1_1
Customer Reference: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details:

Toton West



GeoDyne

Artificial Ground and Landslip

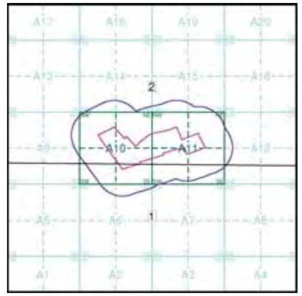
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



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Order Details:

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Customer Reference:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details:

Toton West

Landmark INFORMATION GROUP

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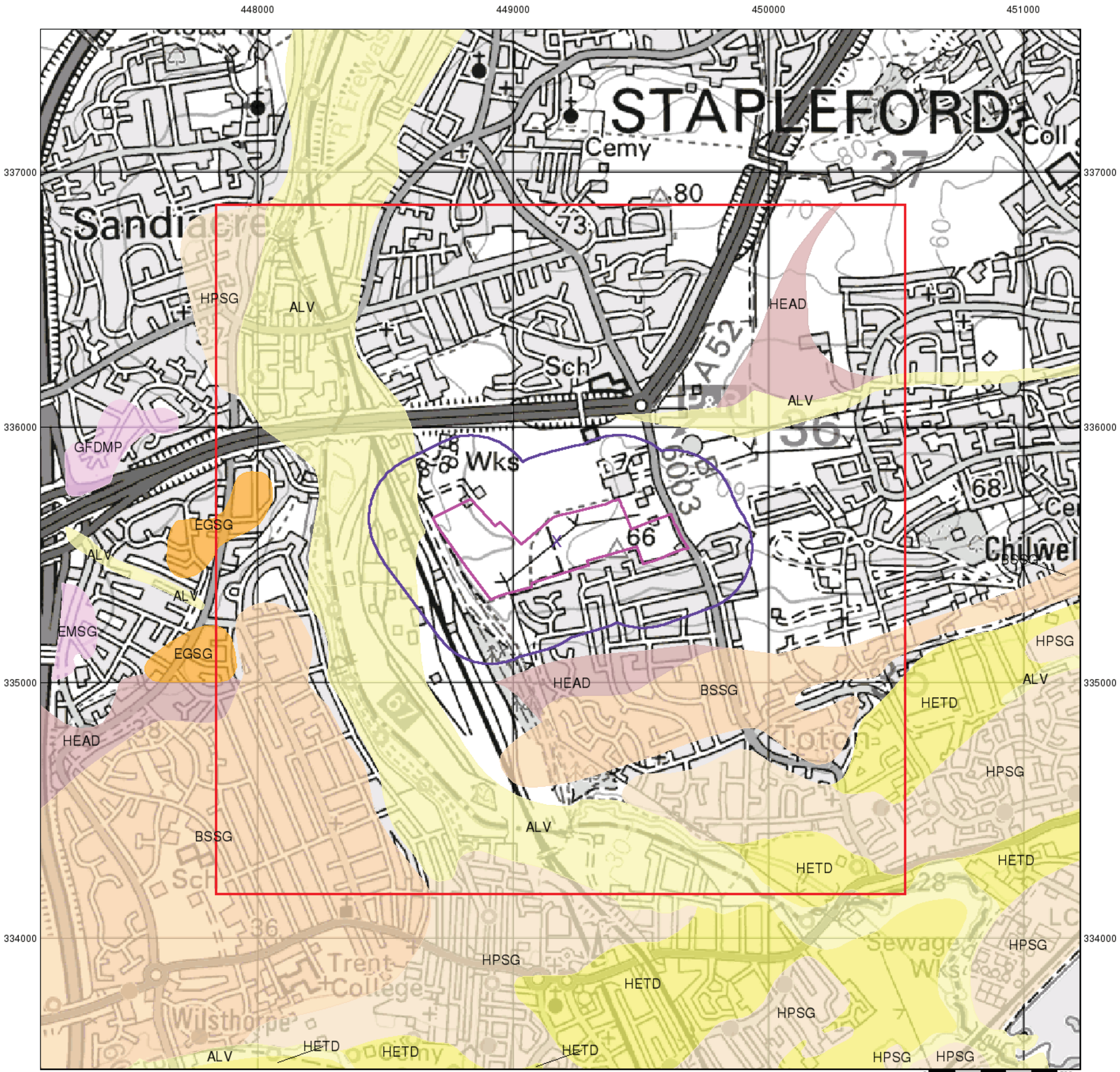
Web: www.envirocheck.co.uk



GeoDyne

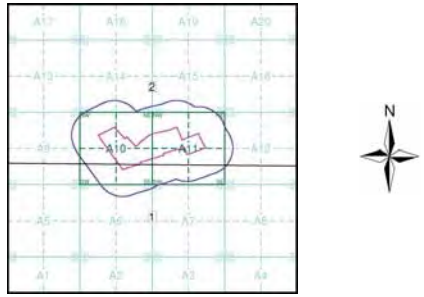
Superficial Geology

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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Site Details:

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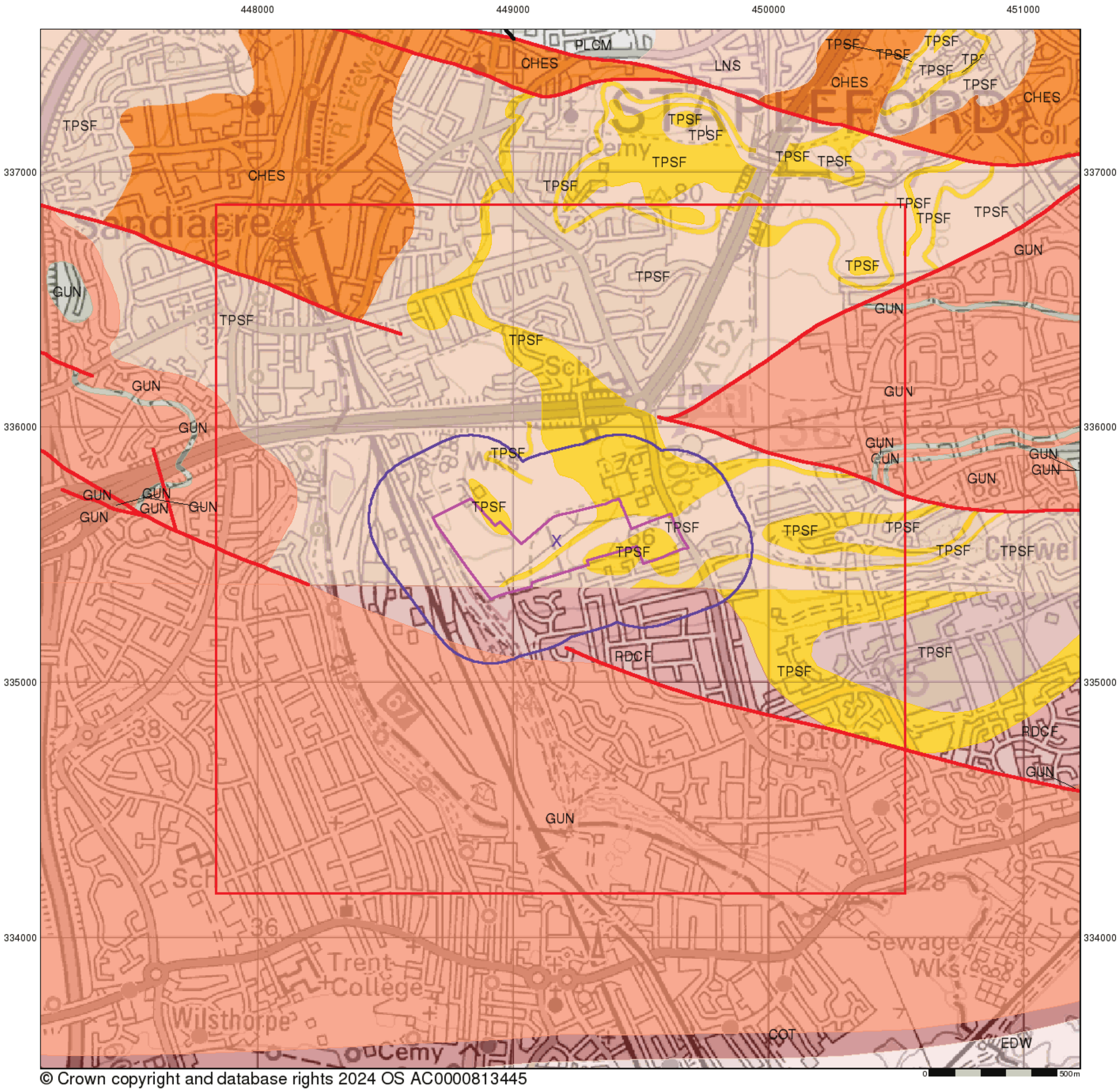


GeoDyne

Bedrock and Faults

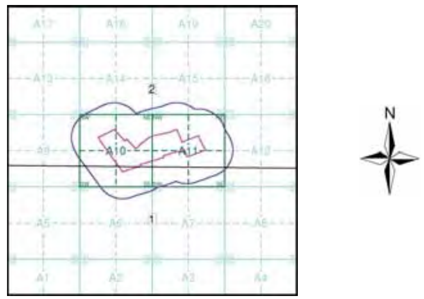
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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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National Grid Reference:	449170, 335560
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Search Buffer (m):	250

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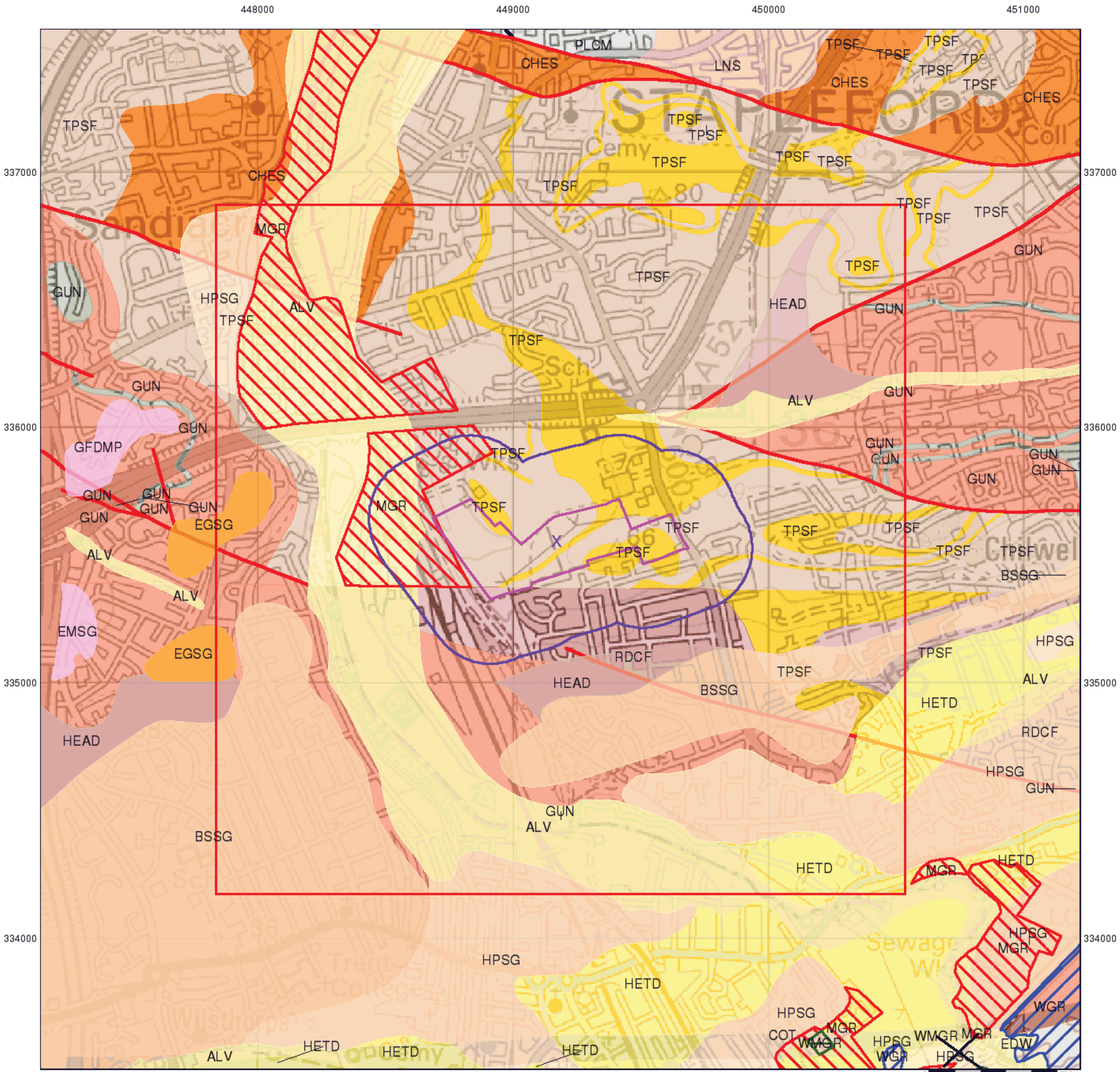


GeoDyne

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.

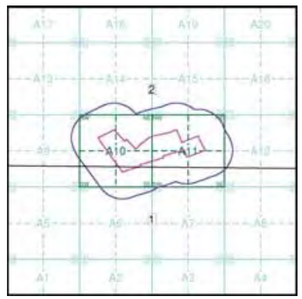
Additional Information

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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Order Details:

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Customer Reference:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details:

Toton West

APPENDIX VII

Zetica UXO Pre-Desk Study Assessment

PA020492 — TOTON WEST

DOCUMENT DETAILS

Site name:	Toton West		
Reference:	PA020492	**Client:**	GeoDyne
Date:	8th October 2024	**Contact:**	Stacey Jervis

RECOMMENDATION

A detailed desk study is recommended to assess, and potentially zone, the Unexploded Ordnance (UXO) hazard level on the Site.

SUMMARY OF FINDINGS

Military Activity	During WWI, Chilwell National Filling Factory (NFF) was established in close proximity to the Site. After WWI, the factory was converted into Royal Army Ordnance Corp (RAOC) Chilwell and was used to store munitions. During WWII, RAOC Chilwell continued in use. After WWII, the depot was retained and converted into Chetwynd Barracks. Chetwynd Barracks continue in use.
WWI Bombing	Potential targets within approximately 5km of the Site: ▪ Transport infrastructure and public utilities. ▪ Munitions factories. ▪ Military establishments. No readily available records have been found indicating that the Site was bombed.
WWII Bombing	The Site was located in Beesford & Stapleford Urban District (UD), which officially recorded 70No. High Explosive (HE) bombs, with a density of 10.8 bombs per 405 hectares (ha). Potential targets within approximately 5km of the Site: ▪ Transport infrastructure and public utilities. ▪ Munitions factories. ▪ Military establishments. ▪ Anti-Aircraft (AA) and anti-invasion defences. No readily available records have been found indicating that the Site was bombed.
Bombing Decoys	None identified within 5km of the Site.

Tel: 01993 886682
Email: uxo@zetica.com
Web: www.zeticauxo.com

Zetica House
Southfield Road, Eynsham
Oxfordshire, OX29 4JB

FURTHER INFORMATION

These findings are based on a cursory review of readily available records; caution is advised if you plan to action work based on this PDSA.

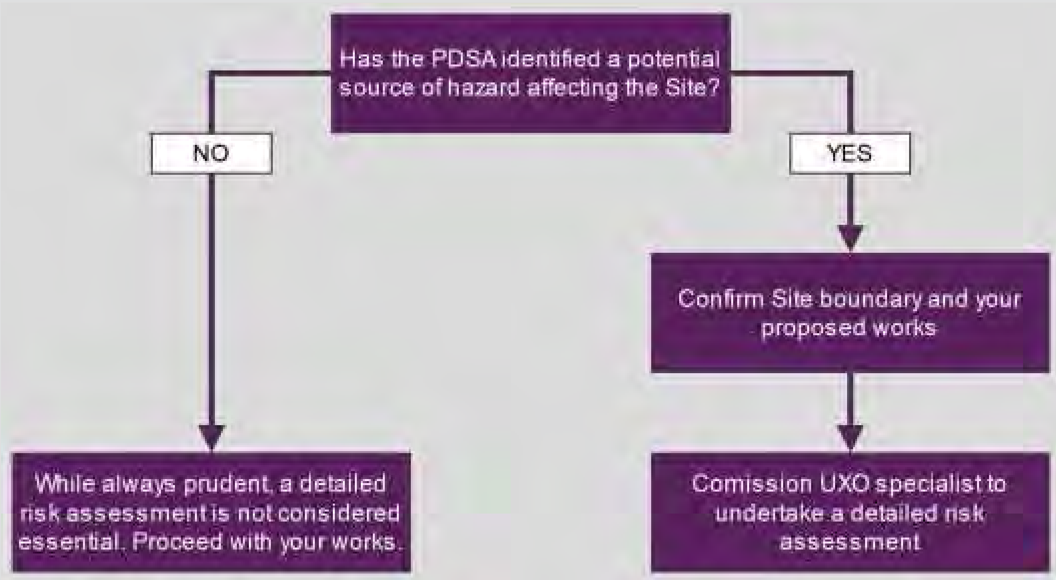
Where a potentially significant UXO hazard source has been identified on the Site, no further research has been undertaken. A detailed UXO desk study and risk assessment may identify other potential UXO hazard sources on the Site.

Visit www.zeticauxo.com to learn more about Zetica's detailed UXO desk studies and other UXO services. Click here for more information about the most common UXO hazard sources in the UK.

If you have any further queries, please don't hesitate to contact us at uxo@zetica.com or 01993 886 682.

NEXT STEPS

Follow the steps below to determine the appropriate course of action:



Potential UXO hazard identified? If the PDSA has identified a potential source of UXO hazard affecting your site, then a detailed UXO risk assessment is recommended.

No obvious source of UXO hazard? If the PDSA has not identified any obvious source of potential UXO, works can proceed.

It is good practice to raise awareness of the background UXO risk in the UK as part of a standard site induction. This will ensure that appropriate action is taken in the unlikely event that UXO is discovered.

Don't skip a stage: If you skip the detailed risk assessment stage, you could end up undertaking unnecessary work (e.g. trying to detect a UXO hazard that has already been removed).

Similarly, a detailed risk assessment might find that the UXO hazard is worse than expected and has a greater potential to cause harm, requiring a different mitigation approach than would otherwise be undertaken.

APPENDIX VIII

Landmark Envirocheck Report

GeoDyne

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
364257918_1_1

Customer Reference:
D44116

National Grid Reference:
449170, 335560

Slice:
A

Site Area (Ha):
18.98

Search Buffer (m):
250

Site Details:

Toton West

Client Details:

Mr Hollands
GeoDyne Ltd
Clarendon House
Clarendon Business Park
Clumber Avenue
Nottingham
NG5 1AH

Landmark INFORMATION GROUP

GeoDyne

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.

Report Version v53.0

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Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Agency & Hydrological			
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes
Contaminated Land Register Entries and Notices			
Discharge Consents	pg 1		24
Prosecutions			
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 7	Yes	
Pollution Incidents to Controlled Waters			
Historical Prosecutions			
Registered Radioactive Substances			
Substantiated Pollution Incident Register	pg 7		1
Water Abstractions	pg 8		(*2)
Water Industry Act Referrals			
Groundwater Vulnerability Map	pg 8	Yes	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a
Groundwater Vulnerability - Local Information			n/a
Bedrock Aquifer Designations	pg 9	Yes	n/a
Superficial Aquifer Designations			n/a
Source Protection Zones			
Extreme Flooding from Rivers or Sea without Defences	pg 9	Yes	Yes
Flooding from Rivers or Sea without Defences	pg 10		Yes
Areas Benefiting from Flood Defences			
Flood Water Storage Areas			
Flood Defences			
OS Water Network Lines	pg 10	7	
Water Framework Directive - Catchment	pg 11	Yes	
Water Framework Directive - Groundwater	pg 11	Yes	
Water Framework Directive - Surface Waters			

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Summary

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
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)	pg 12		2
Local Authority Landfill Coverage	pg 12	2	n/a
Local Authority Recorded Landfill Sites			
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)	pg 12		4
Registered Landfill Sites			
Registered Waste Transfer Sites			
Registered Waste Treatment or Disposal Sites	pg 13		1
Hazardous Substances			
Control of Major Accident Hazards Sites (COMAH)			
Explosive Sites			
Notification of Installations Handling Hazardous Substances (NIHHS)			
Planning Hazardous Substance Consents			
Planning Hazardous Substance Enforcements			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
Geological			
BGS 1:625,000 Solid Geology	pg 14	Yes	n/a
BGS Estimated Soil Chemistry	pg 14	Yes	Yes
BGS Recorded Mineral Sites			
BGS Urban Soil Chemistry	pg 16		Yes
BGS Urban Soil Chemistry Averages	pg 17	Yes	
CBSCB Compensation District			n/a
Coal Mining Affected Areas			n/a
Mining Instability	pg 17	Yes	n/a
Man-Made Mining Cavities			
Natural Cavities			
Non Coal Mining Areas of Great Britain			
Potential for Collapsible Ground Stability Hazards	pg 17	Yes	
Potential for Compressible Ground Stability Hazards	pg 17	Yes	Yes
Potential for Ground Dissolution Stability Hazards			
Potential for Landslide Ground Stability Hazards	pg 18	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 18	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 18	Yes	
Radon Potential - Radon Affected Areas			n/a
Radon Potential - Radon Protection Measures			n/a
Industrial Land Use			
Contemporary Trade Directory Entries	pg 19		11
Fuel Station Entries			
Points of Interest - Commercial Services	pg 19		3
Points of Interest - Education and Health			
Points of Interest - Manufacturing and Production	pg 20		2
Points of Interest - Public Infrastructure	pg 20		3
Points of Interest - Recreational and Environmental	pg 20		2
Underground Electrical Cables			

Data Type	Page Number	On Site	0 to 250m (*up to 500m)
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 21	3	
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	A10NE (W)	0	1	448900 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (SE)	0	1	449250 335500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	0	1	448850 335650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (W)	0	1	448900 335550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	0	1	449000 335550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NW (W)	0	1	448800 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (W)	0	1	448850 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NE (W)	0	1	449169 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NW (W)	0	1	448750 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NW (W)	50	1	448650 335556
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (NW)	131	1	448850 335850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NW (W)	134	1	448550 335650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (NW)	231	1	448850 335950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (NW)	232	1	448900 335950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NE (W)	241	1	448450 335700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	243	1	449850 335350
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Storm Water Sewer Location: Bessell Lane, Sewage Treatment Works Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: CT/61/20308/R3 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 2nd March 1990 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10NW (NW)	183	2	448635 335825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 5 Effective Date: 4th March 2014 Issued Date: 4th March 2014 Revocation Date: 5th December 2021 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	185	2	448660 335840
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: 3rd March 2014 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	185	2	448660 335840
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 1 Effective Date: 30th June 2004 Issued Date: 30th June 2004 Revocation Date: 30th December 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	185	2	448660 335840
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 2 Effective Date: 31st December 2004 Issued Date: 30th June 2004 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	185	2	448660 335840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
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1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Stapleford (Bessel Lane) Stw, Stapleford, Notts, Ng9 7bx Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 1 Effective Date: 30th June 2004 Issued Date: 30th June 2004 Revocation Date: 30th December 2004 Discharge Type: Discharge Of Other Matter-Crude Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Stapleford (Bessel Lane) Stw, Stapleford, Notts, Ng9 7bx Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 2 Effective Date: 31st December 2004 Issued Date: 30th June 2004 Revocation Date: 30th March 2008 Discharge Type: Discharge Of Other Matter-Crude Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Stapleford (Bessel Lane) Stw, Stapleford, Notts, Ng9 7bx Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 3 Effective Date: 31st March 2008 Issued Date: 30th June 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
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1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Stapleford Phase 1 Cso, Stapleford, Nottinghamshire, Ng9 8gs Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/20308/R Permit Version: 1 Effective Date: 2nd March 1990 Issued Date: 2nd March 1990 Revocation Date: 30th December 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Erewash **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A10NW (NW)	190	2	448630 335830
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Stapleford Phase 1 Cso, Stapleford, Nottinghamshire, Ng9 8gs Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/20308/R Permit Version: 1 Effective Date: 2nd March 1990 Issued Date: 2nd March 1990 Revocation Date: 30th December 2000 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Erewash **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/20308/R Permit Version: 2 Effective Date: 31st December 2000 Issued Date: 2nd March 1990 Revocation Date: 29th June 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Erewash **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consents				
1	Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/20308/R Permit Version: 2 Effective Date: 31st December 2000 Issued Date: 2nd March 1990 Revocation Date: 29th June 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: River Erewash **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830
	Discharge Consents				
1	Operator: Severn Trent Water Limited Property Type: Sewage Disposal Works - Water Company Location: Stapleford (Bessel Lane) Stw, Stapleford, Notts, Ng9 7bx Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/20308/R Permit Version: 2 Effective Date: 31st December 2000 Issued Date: 2nd March 1990 Revocation Date: 29th June 2004 Discharge Type: Discharge Of Other Matter-Crude Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Erewash **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	190	2	448630 335830
	Discharge Consents				
1	Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 6 Effective Date: 6th December 2021 Issued Date: 6th December 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Erewash **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850
	Discharge Consents				
1	Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 6 Effective Date: 6th December 2021 Issued Date: 6th December 2021 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Erewash **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850

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1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 4 Effective Date: 1st January 2010 Issued Date: 14th October 2008 Revocation Date: 3rd March 2014 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 1 Effective Date: 30th June 2004 Issued Date: 30th June 2004 Revocation Date: 30th December 2004 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 2 Effective Date: 31st December 2004 Issued Date: 30th June 2004 Revocation Date: 30th March 2008 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Severn Trent Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Stapleford-Bessell Lane Wwtw Bessell Lane, Stapleford, ., Nottinghamshire, Ng9 7bw Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/45964/R Permit Version: 3 Effective Date: 31st March 2008 Issued Date: 30th June 2004 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Stapleford Grange Brook **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	208	2	448630 335850
2	**Discharge Consents** Operator: Fastline Limited Property Type: LAND TRANSPORT + VIA PIPELINES/FREIGHT Location: Toton Sidings Railway Depot, Toton Sidings, Toton, Broxtowe Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/14262/Sg Permit Version: 2 Effective Date: 14th December 2011 Issued Date: 14th December 2011 Revocation Date: 29th December 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Underground Strata **Status:** **Authorisation revoked** Positional Accuracy: Located by supplier to within 10m	A10SW (W)	188	2	448550 335500
2	**Discharge Consents** Operator: Fastline Limited Property Type: LAND TRANSPORT + VIA PIPELINES/FREIGHT Location: Toton Sidings Railway Depot, Toton Sidings, Toton, Broxtowe Authority: Environment Agency, Midlands Region Catchment Area: River Erewash Catchment Reference: T/61/14262/Sg Permit Version: 1 Effective Date: 16th January 1985 Issued Date: 16th January 1985 Revocation Date: 13th December 2011 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Underground Strata **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A10SW (W)	188	2	448550 335500
	Nearest Surface Water Feature	A10NE (NW)	0	-	449133 335629
3	**Substantiated Pollution Incident Register** Authority: Environment Agency - Midlands Region, East Area Incident Date: 14th August 2017 Incident Reference: 1547869 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils And Fuel: Mixed/Waste Oils	A10NW (W)	131	2	448631 335765

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: William S Kenyon Ltd Licence Number: 03/28/61/0048 Permit Version: 100 Location: Bessell Lane Works,Stapleford - Borehole Authority: Environment Agency, Midlands Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bessell Lane Works,Stapleford - Borehole 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 100m	A13SE (NW)	472	2	448480 336070
	Water Abstractions Operator: William S Kenyon Ltd Licence Number: 03/28/61/0048 Permit Version: 100 Location: Bessell Lane Works,Stapleford - Borehole Authority: Environment Agency, Midlands Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bessell Lane Works,Stapleford - Borehole 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	A13SE (NW)	472	2	448480 336070
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10SE (W)	0	3	449000 335505
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (W)	0	3	449169 335556

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (W)	0	3	449000 335556
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11SW (SE)	0	3	449261 335493
	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: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A10NE (NW)	0	3	449164 335566
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A10NE (W)	0	3	449169 335556
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (SE)	0	3	449261 335493
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A10NE (NW)	0	3	449164 335566
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A10NW (W)	0	2	448694 335626
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A10NW (W)	0	2	448694 335626
	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	A10SE (SW)	8	2	448908 335208

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	A10NW (NW)	195	2	448641 335843
	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	A14SW (NW)	221	2	448633 335867
	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	A10SE (SW)	60	2	448848 335212
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 421.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A10NE (NW)	0	4	449120 335619
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A10NE (NW)	0	4	449125 335623
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A10NE (NW)	0	4	449133 335629
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A11NW (NE)	0	4	449240 335671
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 156.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A11NW (NE)	0	4	449247 335672
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 72.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A10NW (W)	0	4	448743 335562

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Trent Primacy: 1	A10NW (W)	0	4	448753 335563
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Erewash from Gilt Brook to Trent WaterBody ID: GB104028052480 Operational Catchment: Erewash River Management Catchment: Trent Lower and Erewash Catchment Name: Lower Trent & Erewash	A10NE (W)	0	2	449169 335556
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Trent from Soar to The Beck WaterBody ID: GB104028053110 Operational Catchment: Nottingham Urban Management Catchment: Trent Lower and Erewash Catchment Name: Lower Trent & Erewash	A11NW (NE)	0	2	449330 335860
	Water Framework Directive - Groundwater Waterbody Name: Lower Trent Erewash - Secondary Combined Waterbody ID: GB40402G990300 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB40402G990300 Overall Rating: Good Chemical Rating: Good Quantitative Measure: Good Year: 2019	A10NE (W)	0	2	449169 335556

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Licensed Waste Management Facilities (Locations)** Licence Number: 104089 Location: The Scrapyard, Bessell Lane, Stapleford, Nottingham, Nottinghamshire, NG9 7BX Operator Name: EURO BREAKERS LIMITED Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, East Area Site Category: Vehicle depollution facility **Licence Status: Issued** Issued: 12th April 2012 Last Modified: 12th April 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (NW)	177	2	448600 335800
12	**Licensed Waste Management Facilities (Locations)** Licence Number: 43419 Location: Phoenix House, Bessell Lane, Stapleford, Nottingham, Nottinghamshire, NG9 7BX Operator Name: AUTO SOLUTIONS 2000 LIMITED Operator Location: Not Supplied Authority: Environment Agency - Midlands Region, East Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Issued** Issued: 15th February 1996 Last Modified: 15th February 1996 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	239	2	448592 335866
	Local Authority Landfill Coverage Name: Broxtowe Borough Council - Has no landfill data to supply		0	5	449169 335556
	Local Authority Landfill Coverage Name: Nottinghamshire County Council - Has no landfill data to supply		0	6	449169 335556
13	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NW (W)	93	-	448602 335688
14	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A10SW (W)	129	-	448603 335474
15	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SW (NW)	165	-	448771 335872
16	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A10NW (NW)	190	-	448620 335825

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Registered Waste Treatment or Disposal Sites					
17	Licence Holder:	Metro Breakers Ltd	A10NW (NW)	221	2	448600 335850
	Licence Reference:	5/91/238/43NE				
	Site Location:	Bessell Lane, Stapleford, Nottingham, Nottinghamshire, Ng9 7bk				
	Operator Location:	As Site Address				
	Authority:	Environment Agency - Midlands Region, Lower Trent Area				
	Site Category:	Scrapyard				
	Max Input Rate:	Very Small (Less than 10,000 tonnes per year)				
	Waste Source Restrictions:	No known restriction on source of waste				
	Licence Status:	Operational as far as is knownOperational				
	Dated:	15th February 1996				
	Preceded By Licence:	Not Given				
	Superseded By Licence:	Not Given				
	Positional Accuracy:	Manually positioned to the address or location				
	Boundary Quality:	Not Supplied				
	Authorised Waste	Cars/Lorries/Vehicles/Bodies Max.Waste Permitted By Licence				
	Prohibited Waste	Biodegradable/Putrescible Waste Liquid/Sludge Wastes Malodorous Waste Metal Swarf/Dust/Particulate Scrap Waste N.O.S.				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A10NE (W)	0	1	449169 335556
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A10SE (S)	0	1	449148 335441
	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	A10NE (W)	0	1	449169 335556
	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 mg/kg	A10NE (NW)	0	1	449164 335566
	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	A10NE (W)	0	1	449000 335556
	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: 30 - 45 mg/kg	A10SE (W)	0	1	449000 335505
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11SW (E)	0	1	449500 335500

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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A11SW (SE)	0	1	449261 335493
	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: 30 - 45 mg/kg	A10NW (W)	1	1	448764 335694
	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 mg/kg	A11SE (E)	17	1	449653 335500
	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: 30 - 45 mg/kg	A10NW (W)	44	1	448650 335602
	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	A10NW (W)	58	1	448630 335665
	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	A10NW (W)	58	1	448647 335588

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: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NE (E)	168	1	449838 335604
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (E)	244	1	449927 335500
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 448950, 335314 Soil Sample Type: Topsoil Sample Area: Nottingham Arsenic Measured Concentration: 12.70 mg/kg Cadmium Measured Concentration: 0.20 mg/kg Chromium Measured Concentration: 93.60 mg/kg Lead Measured Concentration: 108.90 mg/kg Nickel Measured Concentration: 49.40 mg/kg	A10SE (SW)	26	1	448950 335314
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 448748, 335748 Soil Sample Type: Topsoil Sample Area: Nottingham Arsenic Measured Concentration: 11.70 mg/kg Cadmium Measured Concentration: 5.80 mg/kg Chromium Measured Concentration: 73.00 mg/kg Lead Measured Concentration: 84.20 mg/kg Nickel Measured Concentration: 46.80 mg/kg	A10NW (NW)	64	1	448748 335748
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 449310, 335780 Soil Sample Type: Topsoil Sample Area: Nottingham Arsenic Measured Concentration: 11.10 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 63.50 mg/kg Lead Measured Concentration: 85.60 mg/kg Nickel Measured Concentration: 24.00 mg/kg	A11NW (NE)	91	1	449310 335780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 449310, 335245 Soil Sample Type: Topsoil Sample Area: Nottingham Arsenic Measured Concentration: 11.90 mg/kg Cadmium Measured Concentration: 0.20 mg/kg Chromium Measured Concentration: 52.10 mg/kg Lead Measured Concentration: 57.60 mg/kg Nickel Measured Concentration: 21.80 mg/kg	A11SW (SE)	211	1	449310 335245
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Nottingham Count Id: 635 Arsenic Minimum Concentration: 4.00 mg/kg Arsenic Average Concentration: 13.00 mg/kg Arsenic Maximum Concentration: 86.00 mg/kg Cadmium Minimum Concentration: 0.10 mg/kg Cadmium Average Concentration: 0.80 mg/kg Cadmium Maximum Concentration: 14.20 mg/kg Chromium Minimum Concentration: 22.00 mg/kg Chromium Average Concentration: 61.00 mg/kg Chromium Maximum Concentration: 182.00 mg/kg Lead Minimum Concentration: 13.00 mg/kg Lead Average Concentration: 155.00 mg/kg Lead Maximum Concentration: 1810.00 mg/kg Nickel Minimum Concentration: 5.00 mg/kg Nickel Average Concentration: 30.00 mg/kg Nickel Maximum Concentration: 158.00 mg/kg	A10NE (W)	0	1	449169 335556
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A10NE (W)	0	-	449169 335556
	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	A10NE (W)	0	1	449169 335556
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NW (W)	48	1	448652 335586
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (SW)	0	1	448834 335376
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	449169 335556
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	203	1	448621 335378

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	A10NE (W)	0	1	449169 335556
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	449199 335514
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	449169 335556
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	449274 335488
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	448989 335597
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	1	449188 335530
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	19	1	448904 335307
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	135	1	449709 335368
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	211	1	449600 335915
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	449169 335556
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (SW)	0	1	448834 335376
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	203	1	448621 335378
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	1	449169 335556
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	1	449169 335373
	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	A10NE (W)	0	1	449169 335556
	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	A10NE (W)	0	1	449169 335556

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Contemporary Trade Directory Entries** Name: Weston Air Conditioning Location: 11, Edale Rise, Toton, Nottingham, NG9 6JJ Classification: Air Conditioning & Refrigeration Contractors **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	22	-	449486 335464
18	**Contemporary Trade Directory Entries** Name: Enviroair Services Ltd Location: 11, Edale Rise, Toton, Nottingham, NG9 6JJ Classification: Air Conditioning & Refrigeration Contractors **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (E)	27	-	449482 335463
19	**Contemporary Trade Directory Entries** Name: Posture & Office Seating Ltd Location: 269, Stapleford Lane, Toton, Nottingham, NG9 6JG Classification: Office Furniture & Equipment **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (E)	24	-	449682 335503
20	**Contemporary Trade Directory Entries** Name: I M Print Location: 10, CLEVE AVENUE, TOTON, NOTTINGHAM, NG9 6JH Classification: Printers **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A11SE (E)	33	-	449638 335478
20	**Contemporary Trade Directory Entries** Name: I M Print Nottingham Ltd Location: 10, Cleve Avenue, Toton, Nottingham, NG9 6JH Classification: Printers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (E)	33	-	449638 335478
21	**Contemporary Trade Directory Entries** Name: Hemco & Co Location: 27, Cleve Avenue, Beeston, Nottingham, NG9 6JH Classification: Engineering Machine Services **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (SE)	72	-	449506 335394
22	**Contemporary Trade Directory Entries** Name: Peak Packaging Location: 26, Spinney Rise, Beeston, Nottingham, NG9 6JN Classification: Packaging Materials Manufacturers & Suppliers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (SE)	178	-	449422 335310
22	**Contemporary Trade Directory Entries** Name: Peak Packaging Location: 26, Spinney Rise, Beeston, Nottingham, NG9 6JN Classification: Packaging & Wrapping Equipment & Supplies **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (SE)	178	-	449422 335310
23	**Contemporary Trade Directory Entries** Name: Dean Laundry Systems Location: 230, Stapleford Lane, Beeston, Nottingham, NG9 6JE Classification: Laundry Equipment - Sales & Service **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A11SE (E)	209	-	449800 335353
24	**Contemporary Trade Directory Entries** Name: Auto Solutions 2000 Ltd Location: Phoenix House, Bessell Lane, Stapleford, Nottingham, NG9 7BX Classification: Salvage Dealers **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A10NW (NW)	229	-	448590 335854
25	**Contemporary Trade Directory Entries** Name: Daintys Location: 29, Epsom Road, Toton, Nottingham, NG9 6HQ Classification: Washing Machines - Servicing & Repairs **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A6NE (S)	231	-	449124 335151
26	**Points of Interest - Commercial Services** Name: Fabbs G Wrought Iron Work Location: Bessell Lane Farm, Bessell Lane, Stapleford, Nottingham, NG9 7BX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A10NE (NW)	34	7	448862 335736

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Points of Interest - Commercial Services** Name: Scrap Yard Location: NG9 Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A10NW (NW)	230	7	448591 335855
27	**Points of Interest - Commercial Services** Name: Scrap Yard Location: Not Supplied Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to an adjacent address or location	A10NW (NW)	232	7	448592 335858
28	**Points of Interest - Manufacturing and Production** Name: Tank Location: NG9 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A10SE (SW)	79	7	448853 335273
29	**Points of Interest - Manufacturing and Production** Name: Solar Farm Location: NG9 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A14SW (NW)	220	7	448833 335939
30	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: NG9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (NW)	206	7	448783 335919
30	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: NG9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (NW)	212	7	448724 335902
30	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: NG9 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14SW (NW)	248	7	448719 335940
31	**Points of Interest - Recreational and Environmental** Name: Playground Location: Hampton Close, NG9 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10SE (S)	149	7	449059 335218
31	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A10SE (S)	150	7	449056 335216

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nitrate Vulnerable Zones					
32	Name: Description: Source:	River Trent From River Soar To Carlton-On-Trent Nvz Surface Water Environment Agency, Head Office	A11NW (NE)	0	3	449450 335800
	Nitrate Vulnerable Zones					
33	Name: Description: Source:	Attenborough Nnr Eutrophic Lake Nvz Eutrophic Water Environment Agency, Head Office	A10NE (W)	0	3	449169 335556
	Nitrate Vulnerable Zones					
34	Name: Description: Source:	River Erewash From Gilt Brook To River Trent Nvz Surface Water Environment Agency, Head Office	A10NE (W)	0	3	449169 335556

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Environment Agency - Head Office	November 2023	Annually
Erewash Borough Council - Environmental Health Department	October 2017	Annual Rolling Update
Broxtowe Borough Council - Environmental Health Department	September 2024	Annual Rolling Update
Discharge Consents		
Environment Agency - Midlands Region	October 2024	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	October 2024	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Erewash Borough Council - Environmental Health Department	December 2020	Variable
Broxtowe Borough Council - Environmental Health Department	September 2024	Variable
Local Authority Pollution Prevention and Controls		
Erewash Borough Council - Environmental Health Department	December 2020	Annual Rolling Update
Broxtowe Borough Council - Environmental Health Department	September 2024	Not Applicable
Local Authority Pollution Prevention and Control Enforcements		
Erewash Borough Council - Environmental Health Department	April 2014	Variable
Broxtowe Borough Council - Environmental Health Department	September 2024	Variable
Nearest Surface Water Feature		
Ordnance Survey	October 2024	
Pollution Incidents to Controlled Waters		
Environment Agency - Midlands Region	December 1999	
Historical Prosecutions		
Environment Agency, Midlands Region	March 2013	Not Applicable
Registered Radioactive Substances		
Environment Agency - Head Office	May 2023	
Environment Agency - Midlands Region	May 2023	
Substantiated Pollution Incident Register		
Environment Agency - Midlands Region - East Area	October 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2024	Quarterly
Water Abstractions		
Environment Agency - Midlands Region	October 2024	Quarterly
Water Industry Act Referrals		
Environment Agency - Midlands Region	October 2017	
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	As notified
Source Protection Zones		
Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	February 2023	

Agency & Hydrological	Version	Update Cycle
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	October 2024	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	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2023	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites		
Environment Agency - Head Office	August 2024	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 - East Area	August 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	August 2024	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Midlands Region - East Area	October 2024	Quarterly
Environment Agency - Midlands Region - Lower Trent Area	October 2024	Quarterly
Local Authority Landfill Coverage		
Broxtowe Borough Council - Environmental Health Department	February 2003	Not Applicable
Derbyshire County Council	February 2003	Not Applicable
Erewash Borough Council - Environmental Health Department	February 2003	Not Applicable
Nottinghamshire County Council - Environment Department	February 2003	Not Applicable
Local Authority Recorded Landfill Sites		
Broxtowe Borough Council - Environmental Health Department	October 2018	
Derbyshire County Council	October 2018	
Erewash Borough Council - Environmental Health Department	October 2018	
Nottinghamshire County Council - Environment Department	October 2018	
Potentially Infilled Land (Non-Water)		
Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water)		
Landmark Information Group Limited	December 1999	
Registered Landfill Sites		
Environment Agency - Midlands Region - East Area	March 2006	Not Applicable
Environment Agency - Midlands Region - Lower Trent Area	March 2006	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Midlands Region - East Area	April 2018	
Environment Agency - Midlands Region - Lower Trent Area	April 2018	
Registered Waste Treatment or Disposal Sites		
Environment Agency - Midlands Region - East Area	June 2015	
Environment Agency - Midlands Region - Lower Trent Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements		
Derbyshire County Council	February 2016	Variable
Broxtowe Borough Council	June 2023	Variable
Nottinghamshire County Council	June 2023	Variable
Erewash Borough Council	May 2023	Variable
Planning Hazardous Substance Consents		
Erewash Borough Council	April 2015	Variable
Nottinghamshire County Council	August 2007	Variable
Broxtowe Borough Council	February 2016	Variable
Derbyshire County Council	February 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	December 2015	As notified
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	October 2023	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	October 2023	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	September 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	September 2024	Quarterly
Points of Interest - Education and Health PointX	September 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2024	Quarterly
Points of Interest - Public Infrastructure PointX	September 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Data Currency

Sensitive Land Use	Version	Update Cycle
Ancient Woodland		
Natural England	April 2024	Bi-Annually
Areas of Adopted Green Belt		
Broxtowe Borough Council	July 2024	Quarterly
Erewash Borough Council	July 2024	Quarterly
Areas of Unadopted Green Belt		
Broxtowe Borough Council	July 2024	Quarterly
Erewash Borough Council	July 2024	Quarterly
Areas of Outstanding Natural Beauty		
Natural England	November 2024	Bi-Annually
Environmentally Sensitive Areas		
Natural England	August 2023	
Forest Parks		
Forestry Commission	May 2023	Not Applicable
Local Nature Reserves		
Natural England	August 2024	Bi-Annually
Marine Nature Reserves		
Natural England	August 2024	Bi-Annually
National Nature Reserves		
Natural England	August 2024	Bi-Annually
National Parks		
Natural England	September 2024	Bi-Annually
Nitrate Sensitive Areas		
Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	
Environment Agency - Head Office	November 2024	Bi-Annually
Ramsar Sites		
Natural England	August 2024	Bi-Annually
Sites of Special Scientific Interest		
Natural England	April 2024	Bi-Annually
Special Areas of Conservation		
Natural England	October 2024	Bi-Annually
Special Protection Areas		
Natural England	November 2024	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

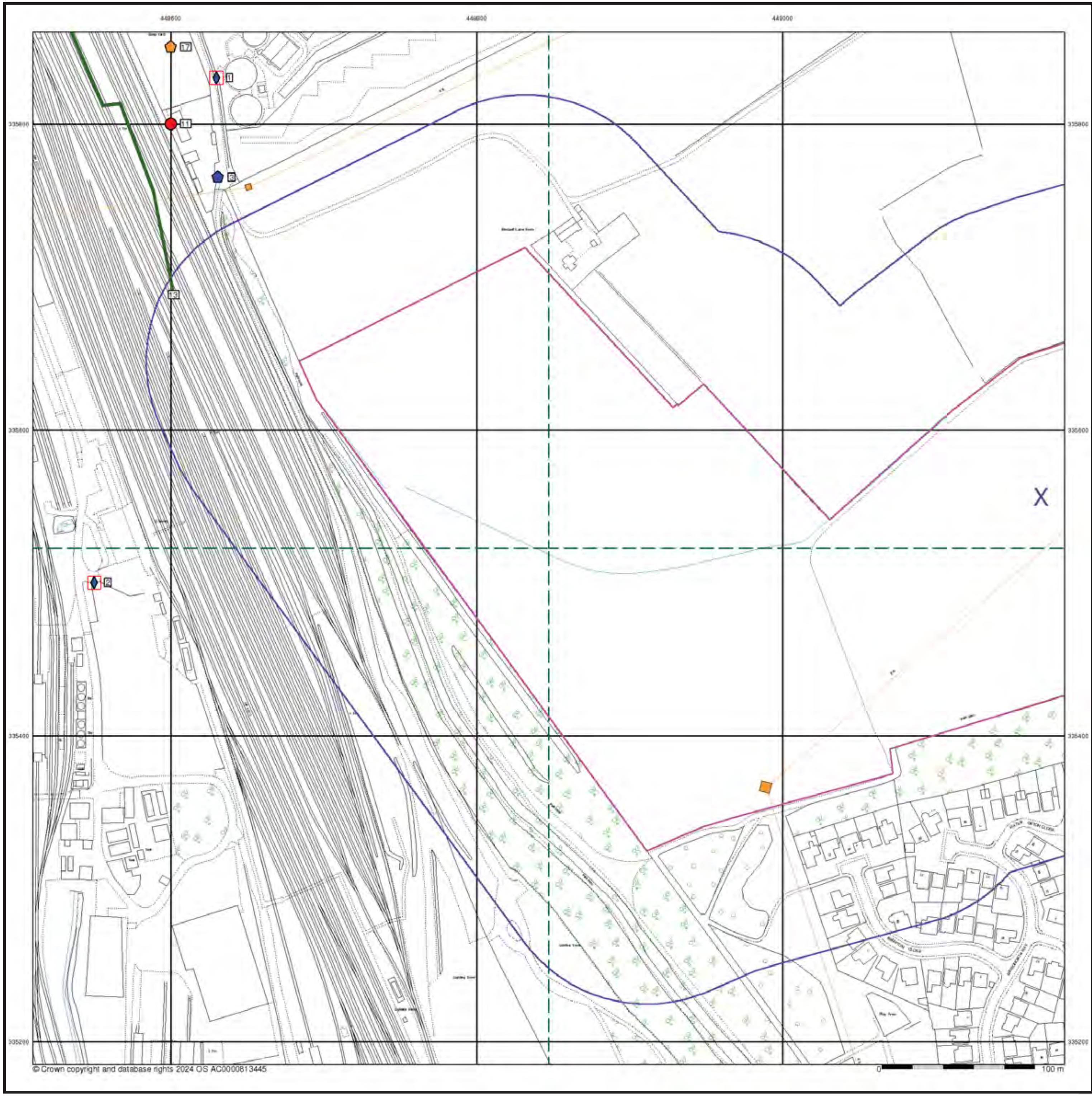
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec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

GeoDyne

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.co.uk
5	**Broxtowe Borough Council - Environmental Health Department** Council Offices, Foster Avenue, Beeston, Nottingham, Nottinghamshire, NG9 1AB	Telephone: 0115 917 7777 Fax: 0115 943 1452 Website: www.broxtowe.gov.uk
6	**Nottinghamshire County Council - Environment Department** 5th Floor, Trentbridge House, Fox Road, Nottingham, Nottinghamshire, NG2 6BJ	Telephone: 0115 977 4383 Website: www.nottinghamshire.gov.uk
7	**PointX** 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	**Broxtowe Borough Council** Council Offices, Foster Avenue, Beeston, Nottingham, Nottinghamshire, NG9 1AB	Telephone: 0115 917 7777 Fax: 0115 943 1452 Website: www.broxtowe.gov.uk
9	**Erewash Borough Council** Town Hall, Long Eaton, Nottingham, Nottinghamshire, NG10 1HU	Telephone: 0115 946 1321 Fax: 0115 946 8236 Website: www.erewash.gov.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** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



GeoDyne

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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

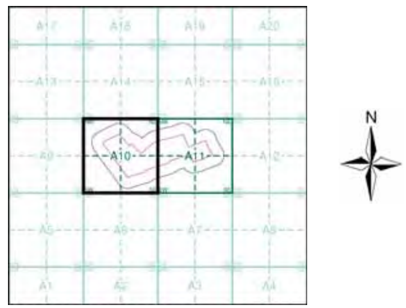
Geological

- 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 A10



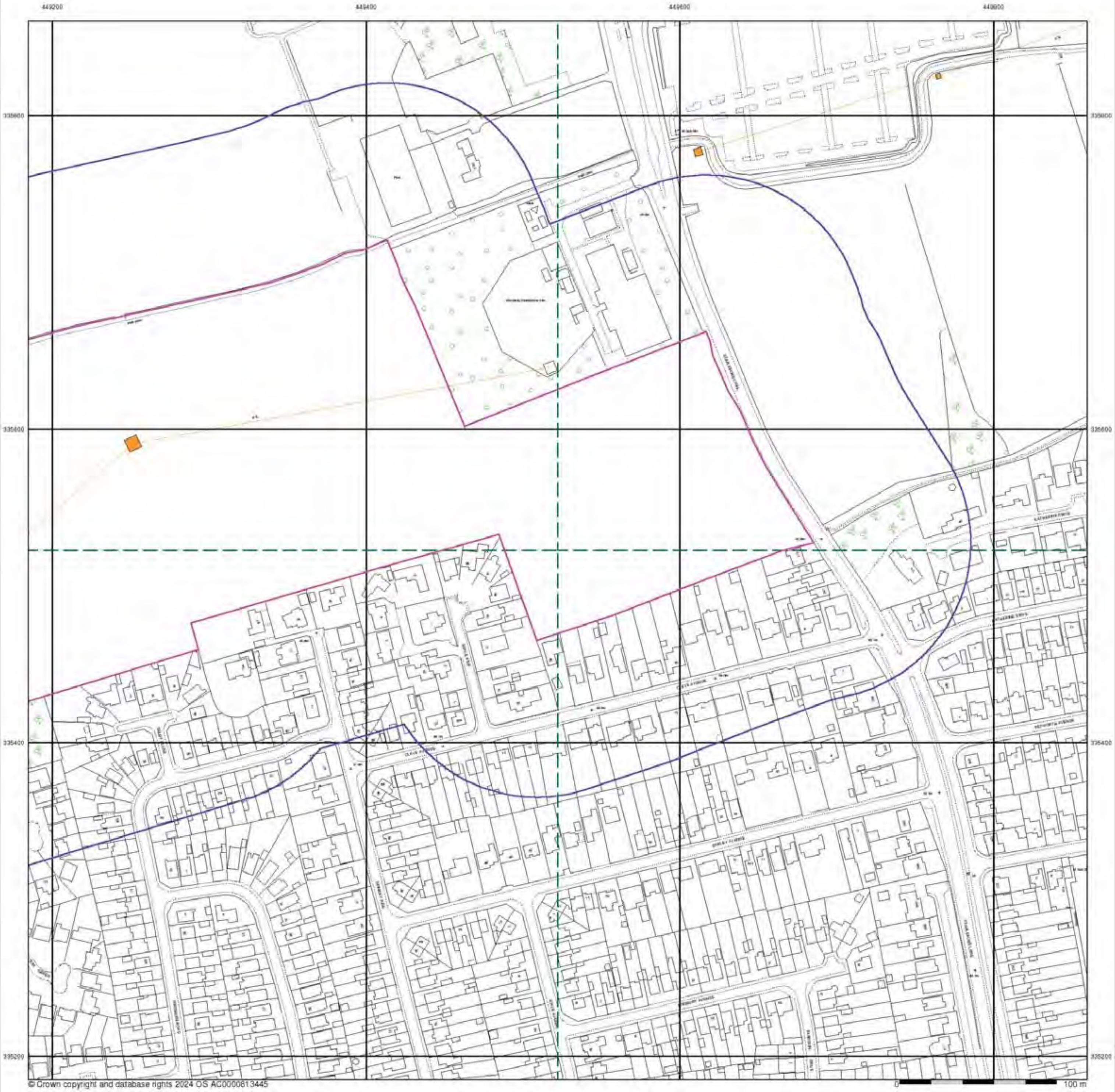
Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Plot Buffer (m): 100

Site Details

Toton West

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



GeoDyne

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
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

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

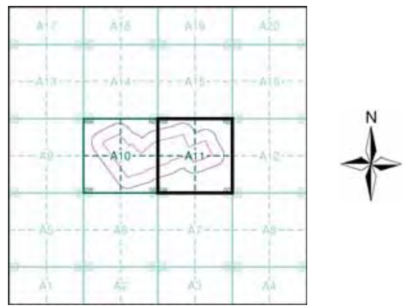
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A11



Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Plot Buffer (m):	100

Site Details

Toton West

Landmark

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

GeoDyne

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

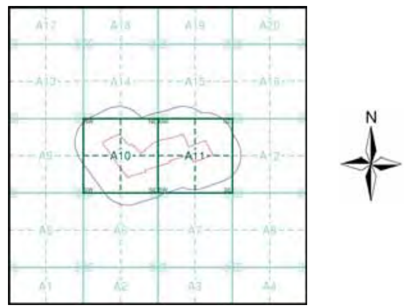
Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Historical Prosecutions
- Prosecutions
- Registered Radioactive Substance
- River Network or Water Feature
- 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:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West

Landmark

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

GeoDyne

Industrial Land Use Map

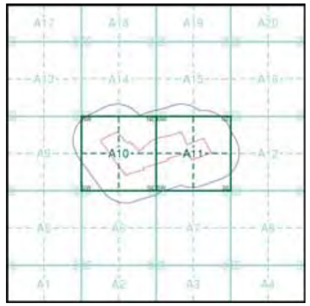
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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



Order Details

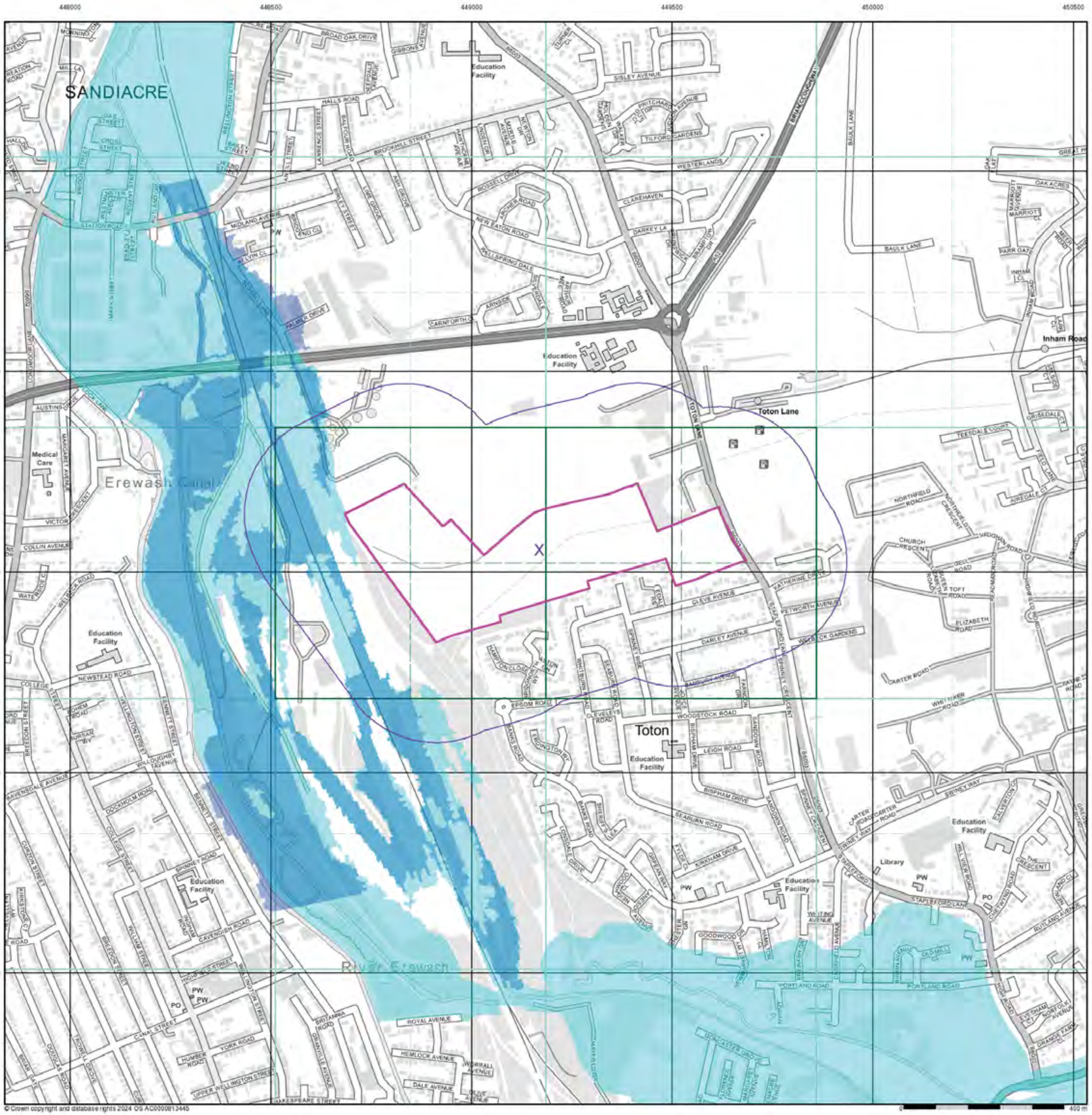
Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

Toton West

Landmark

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



GeoDyne

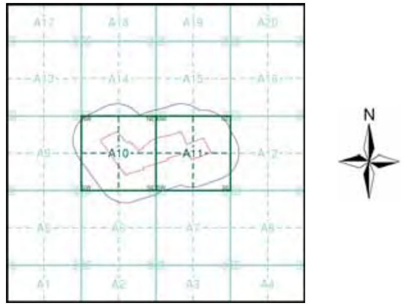
General

- Specified Site
- Specified Buffer(s)
- X 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

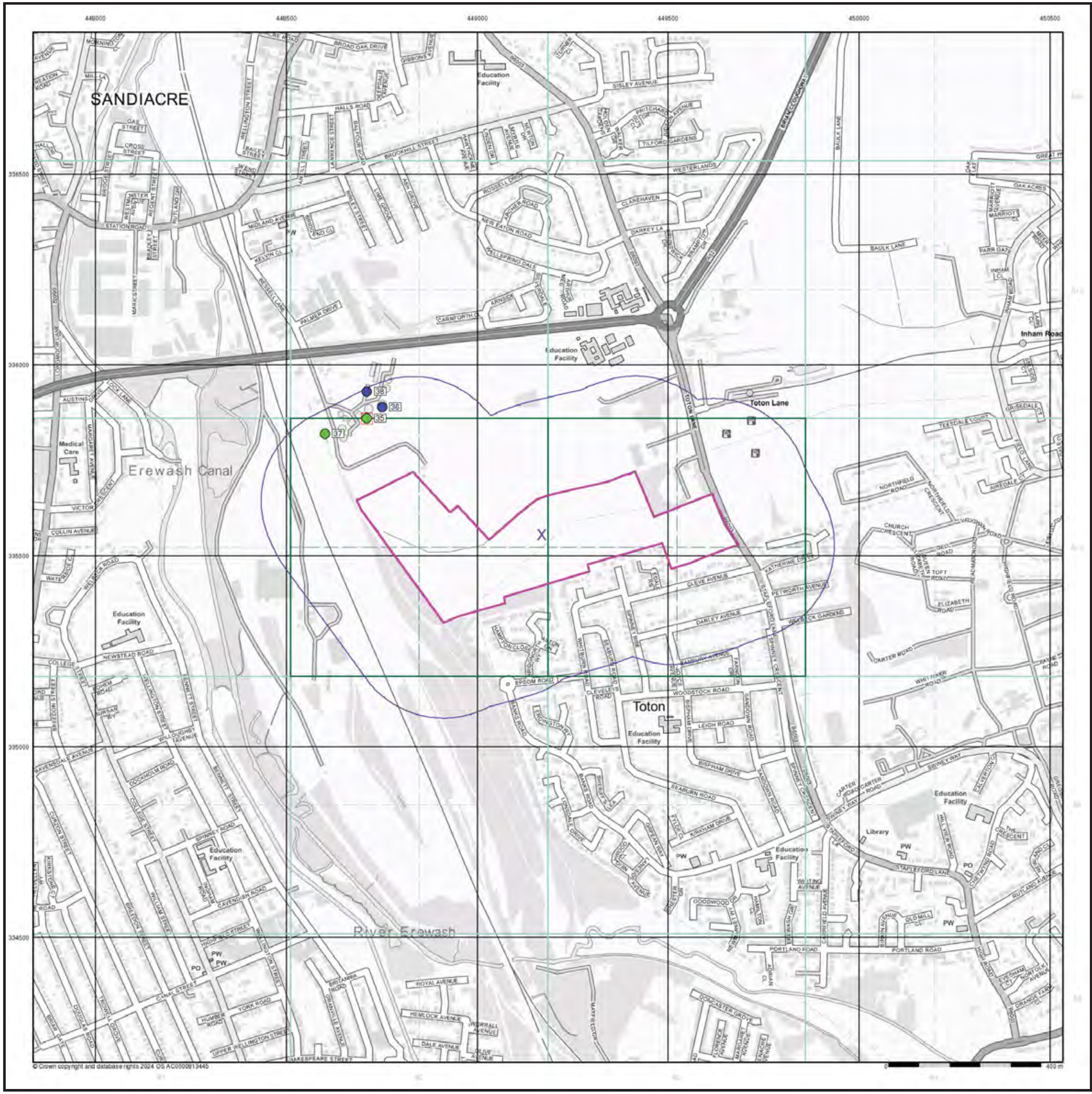


Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West



GeoDyne

General

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

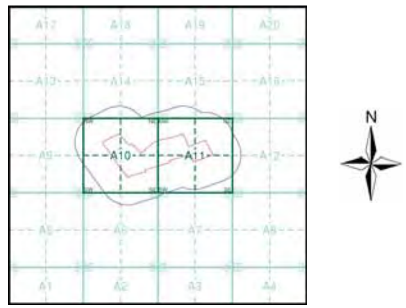
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



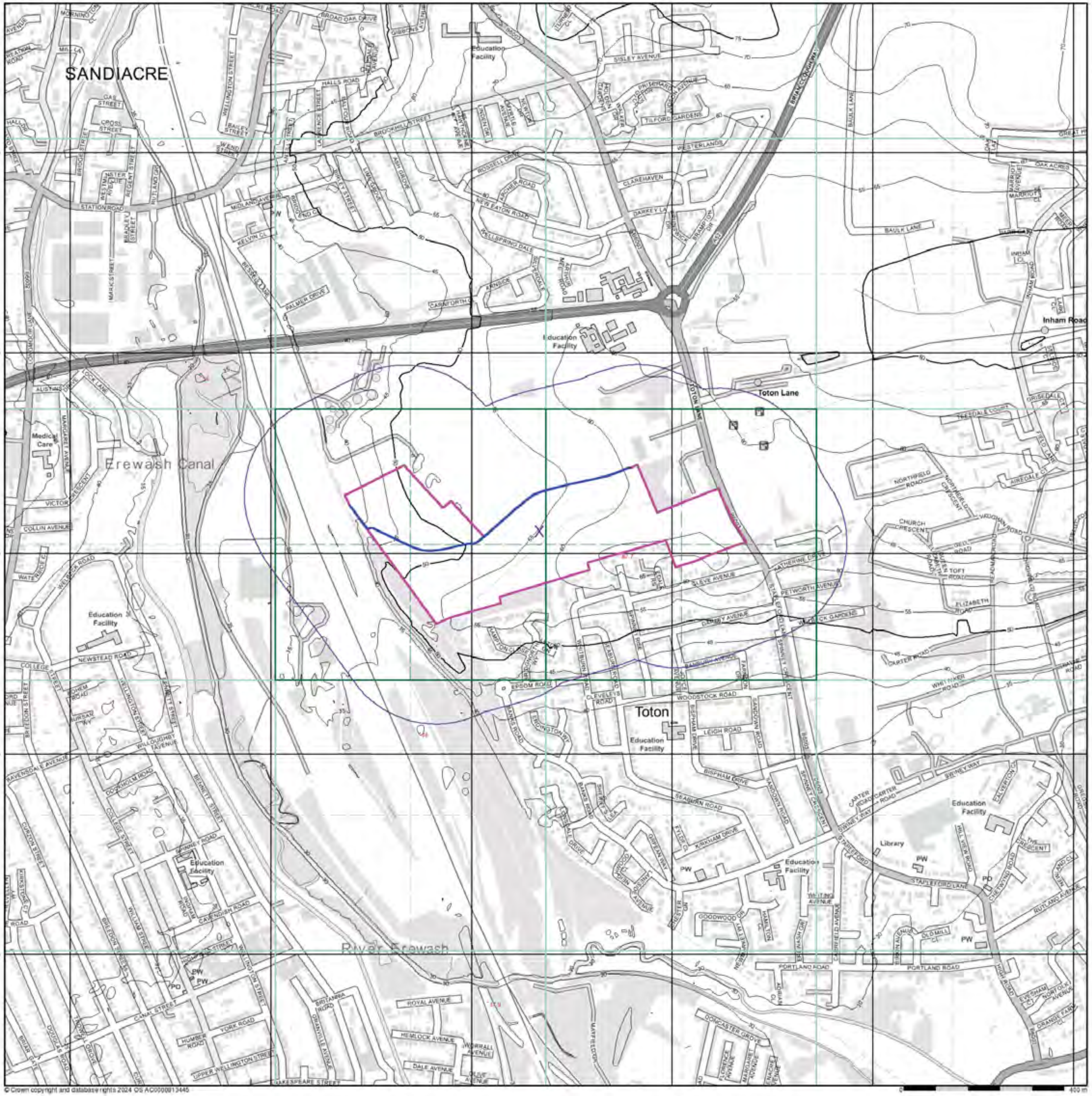
Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

Toton West

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



GeoDyne

General

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

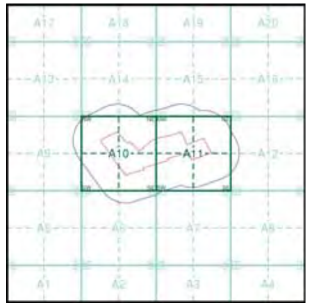
OS Water Network Data

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

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

Toton West

Landmark

Tel: 0844 844 9952
Fax: 0844 844 9951
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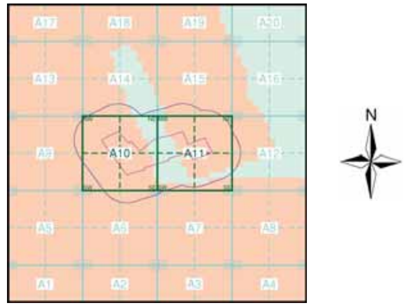
GeoDyne

General
Specified Site
Specified Buffer(s)
X 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



Order Details
Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details
Toton West

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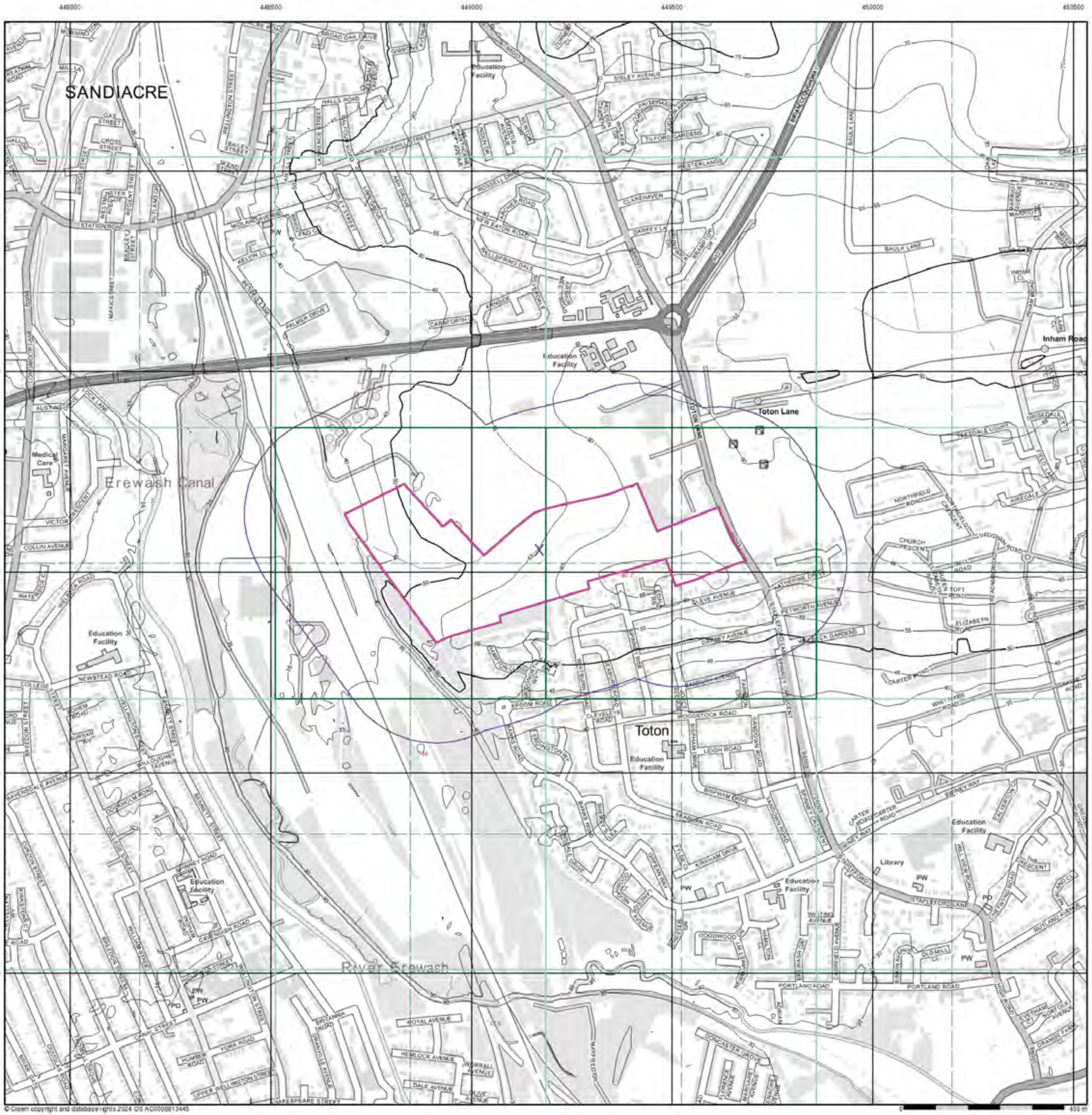


GeoDyne

WFD Surface Waters Map

General

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

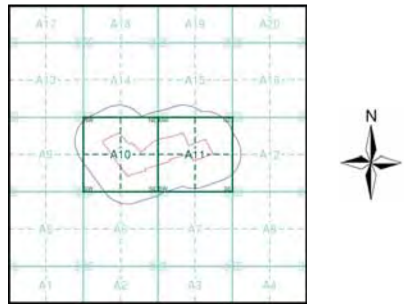
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

Standard Contour
Master Contour
Spot Height
Mean Low Water
Mean High Water

WFD Surface Waters Map - Slice A



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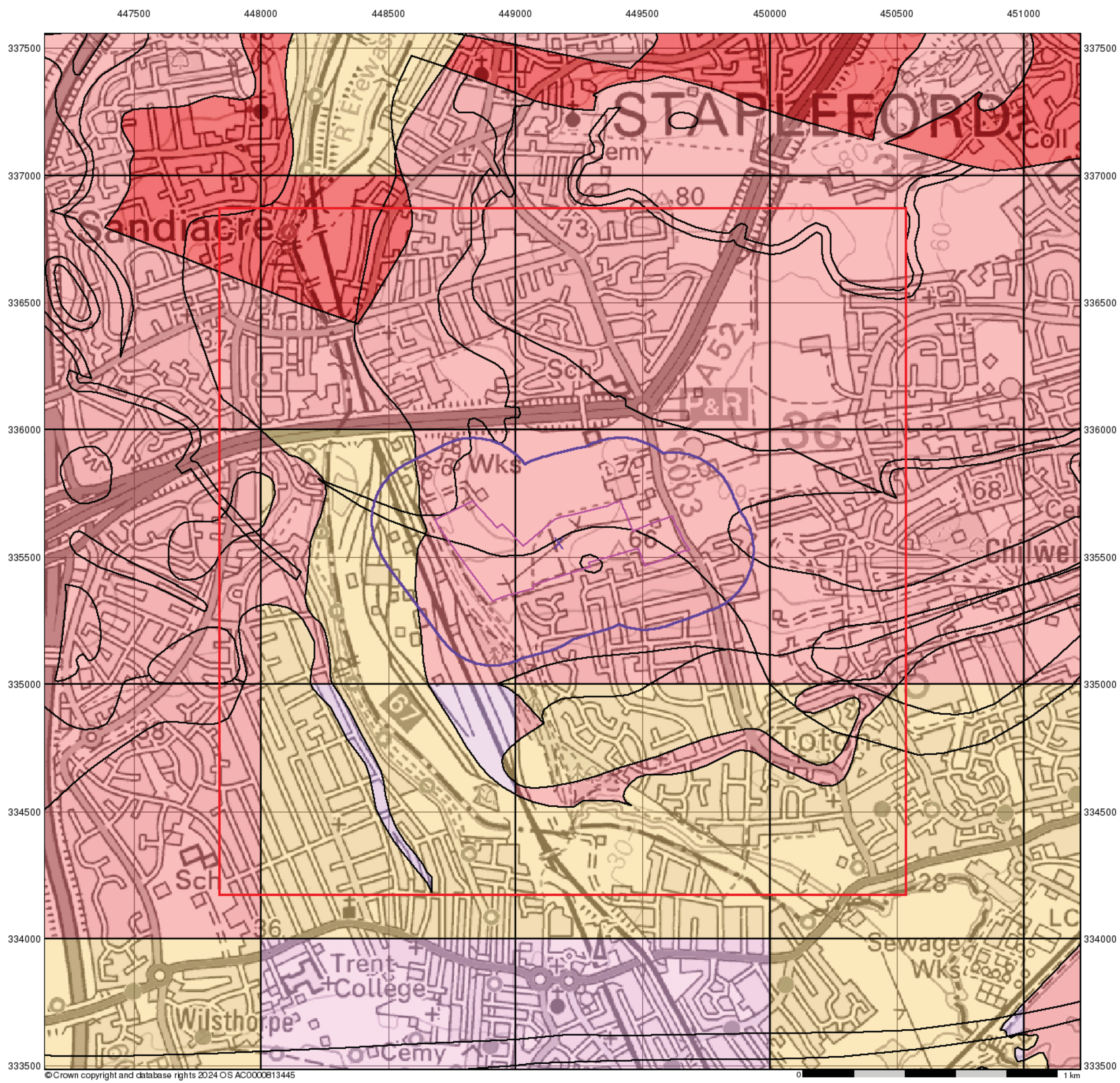


GeoDyne

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

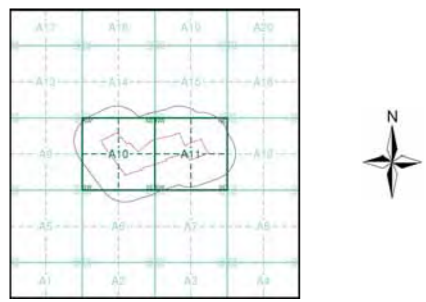
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

Unproductive Aquifer
Soluble Rock

Site Sensitivity Context Map - Slice A



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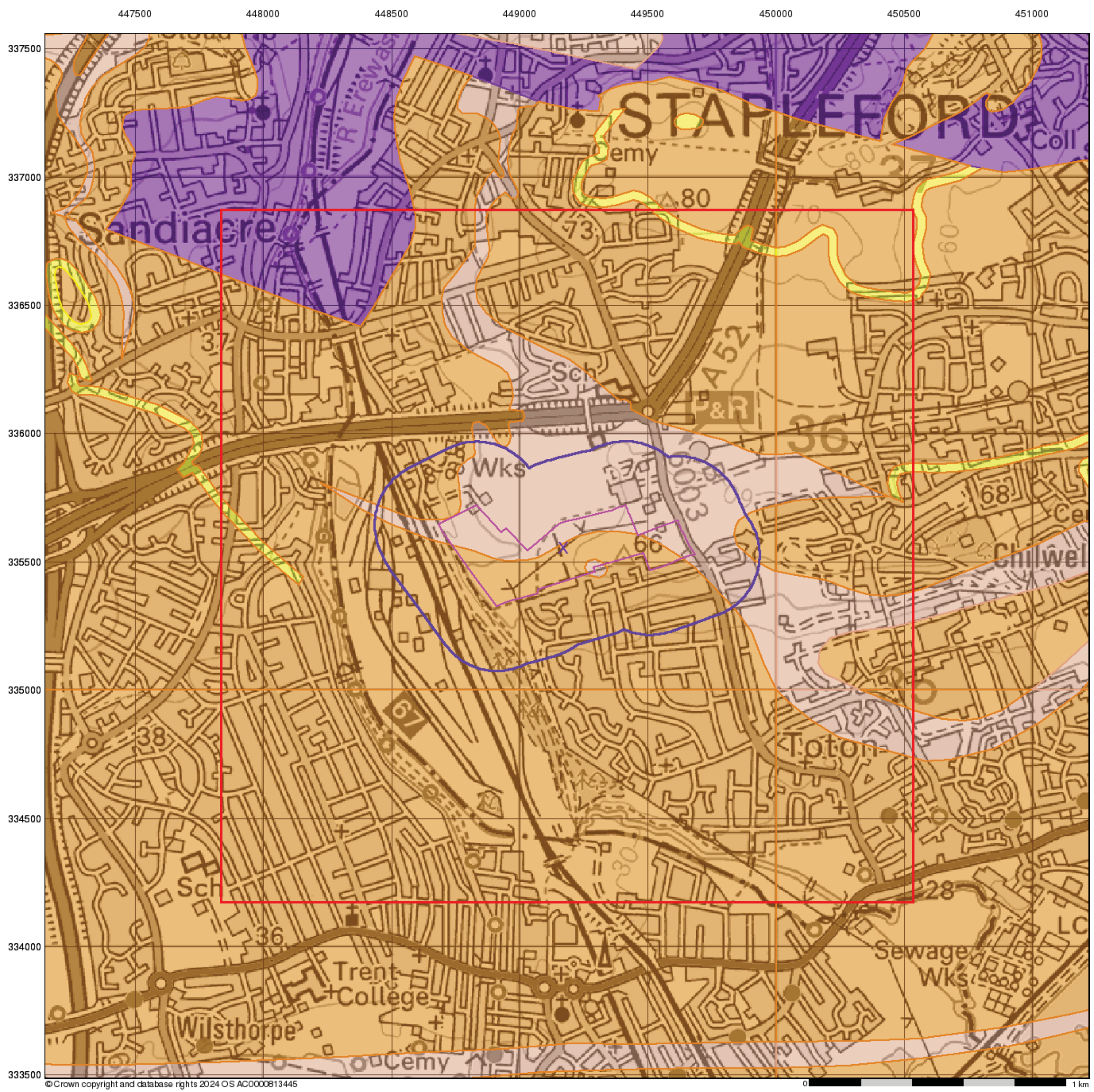


GeoDyne

Bedrock Aquifer Designation

General

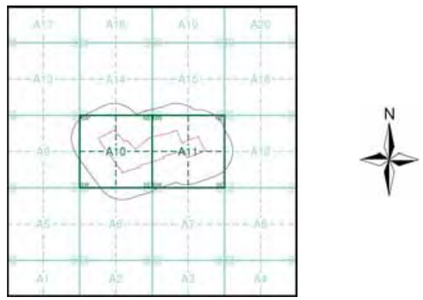
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

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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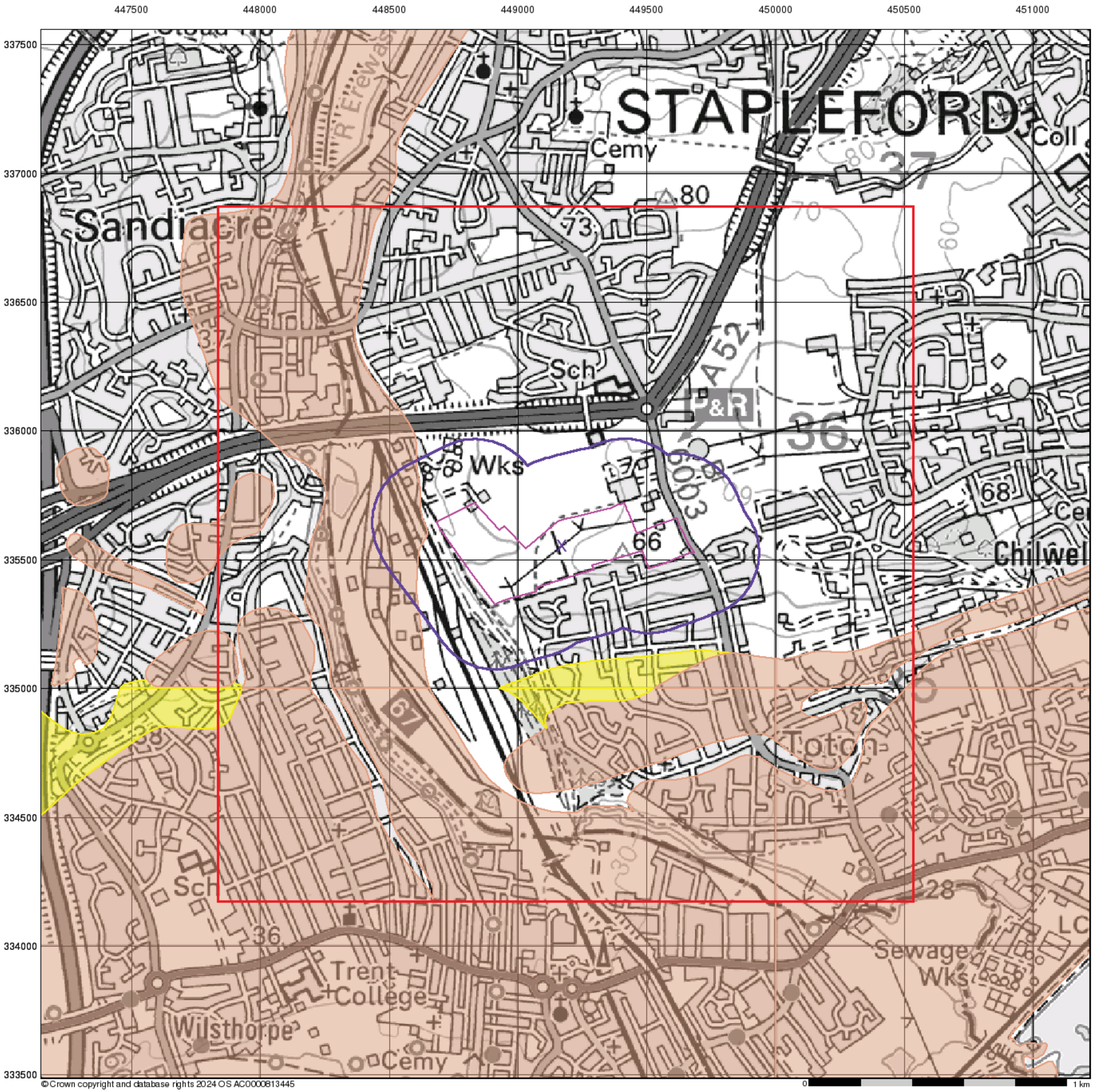


GeoDyne

Superficial Aquifer Designation

General

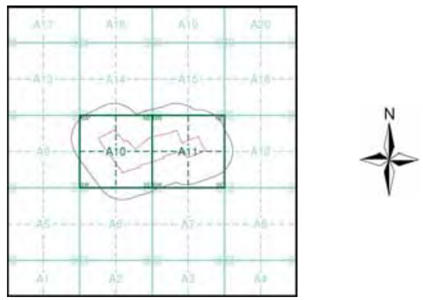
Specified Site
Specified Buffer(s)
Bearing Reference Point
Slice
Map ID

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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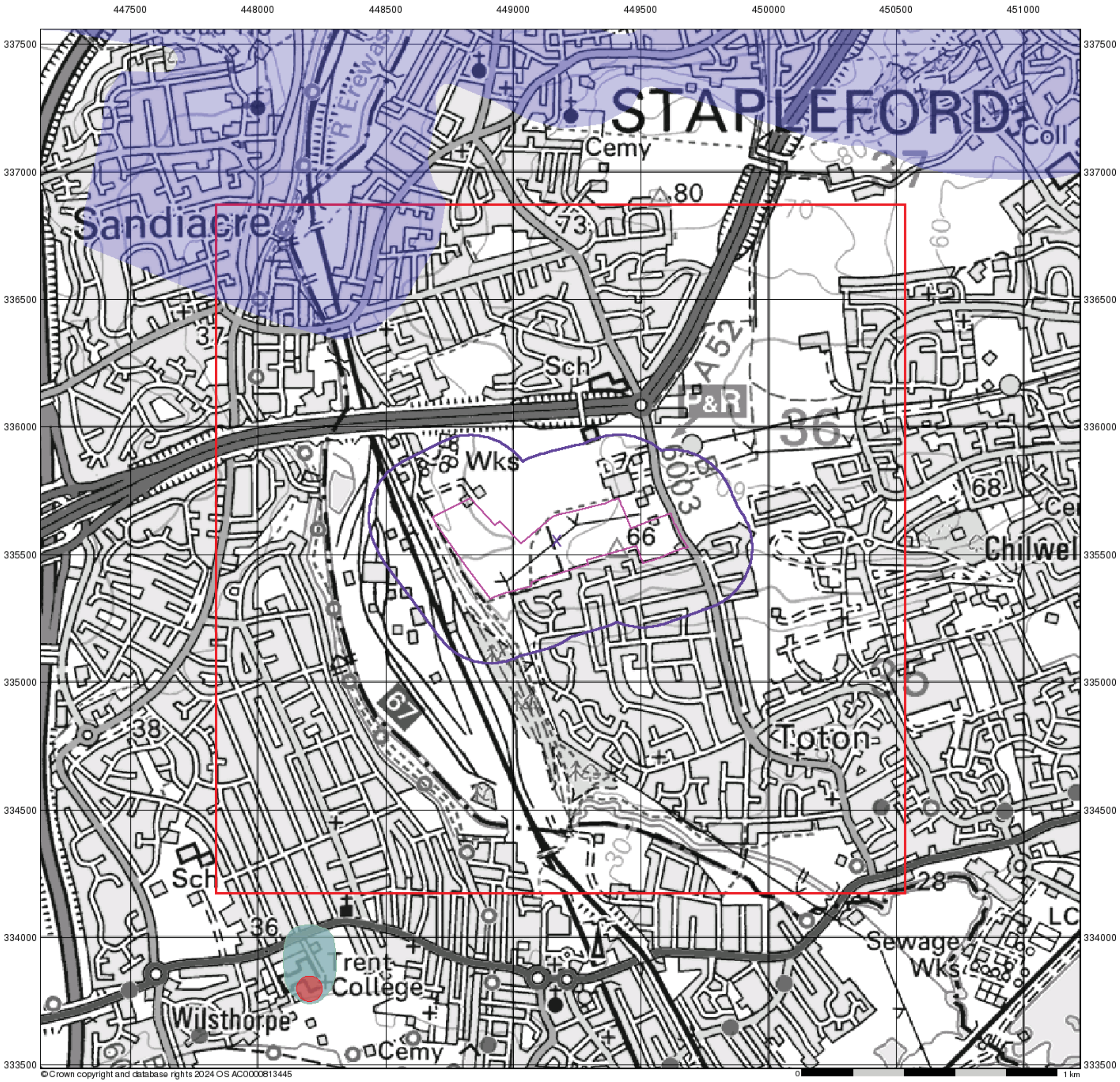

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GeoDyne

Source Protection Zones

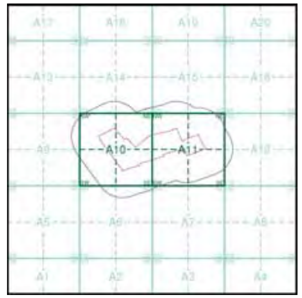
General

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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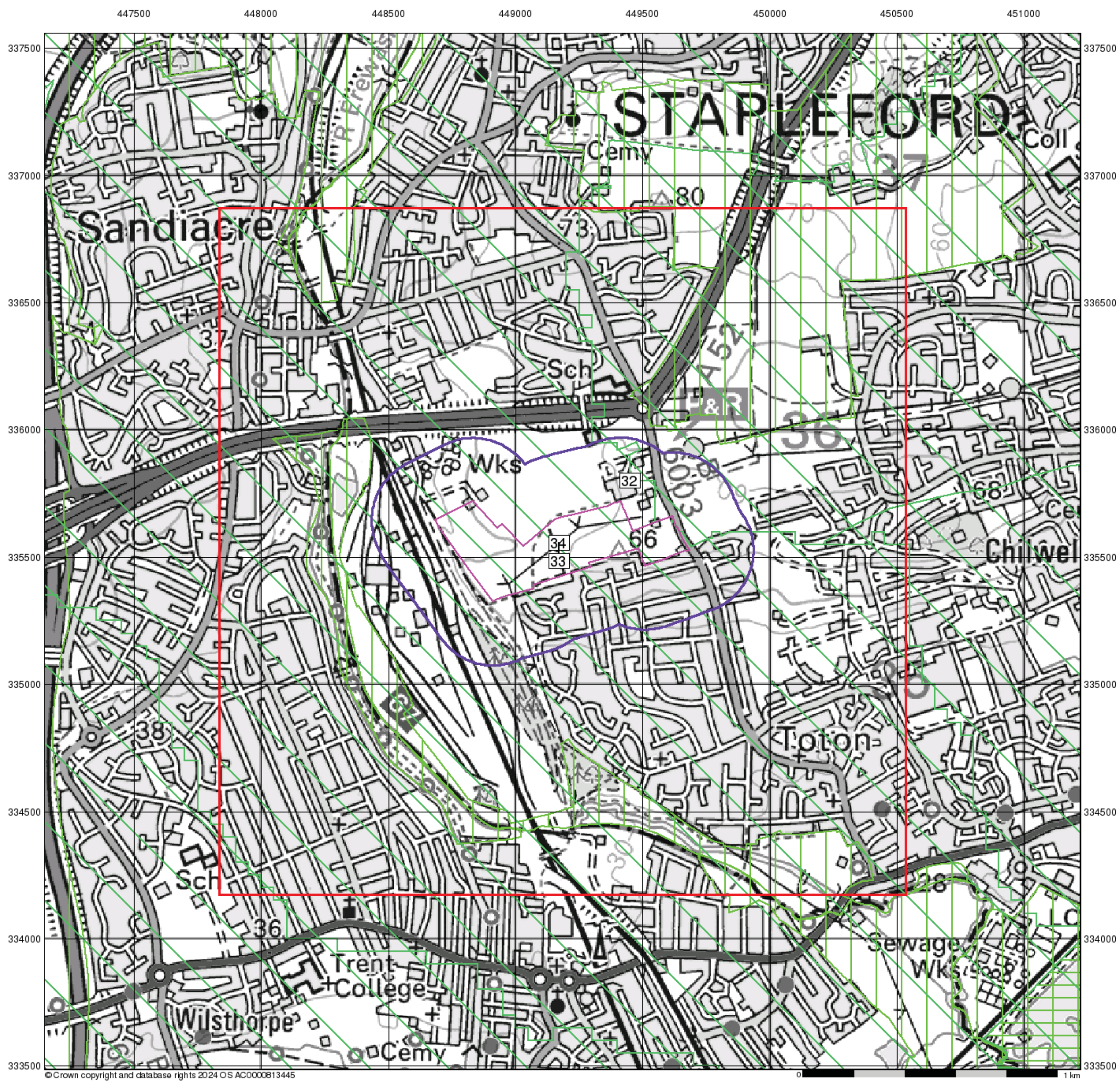


GeoDyne

Sensitive Land Uses

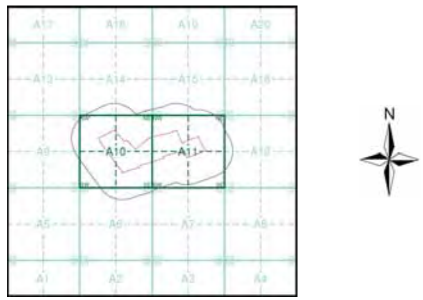
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



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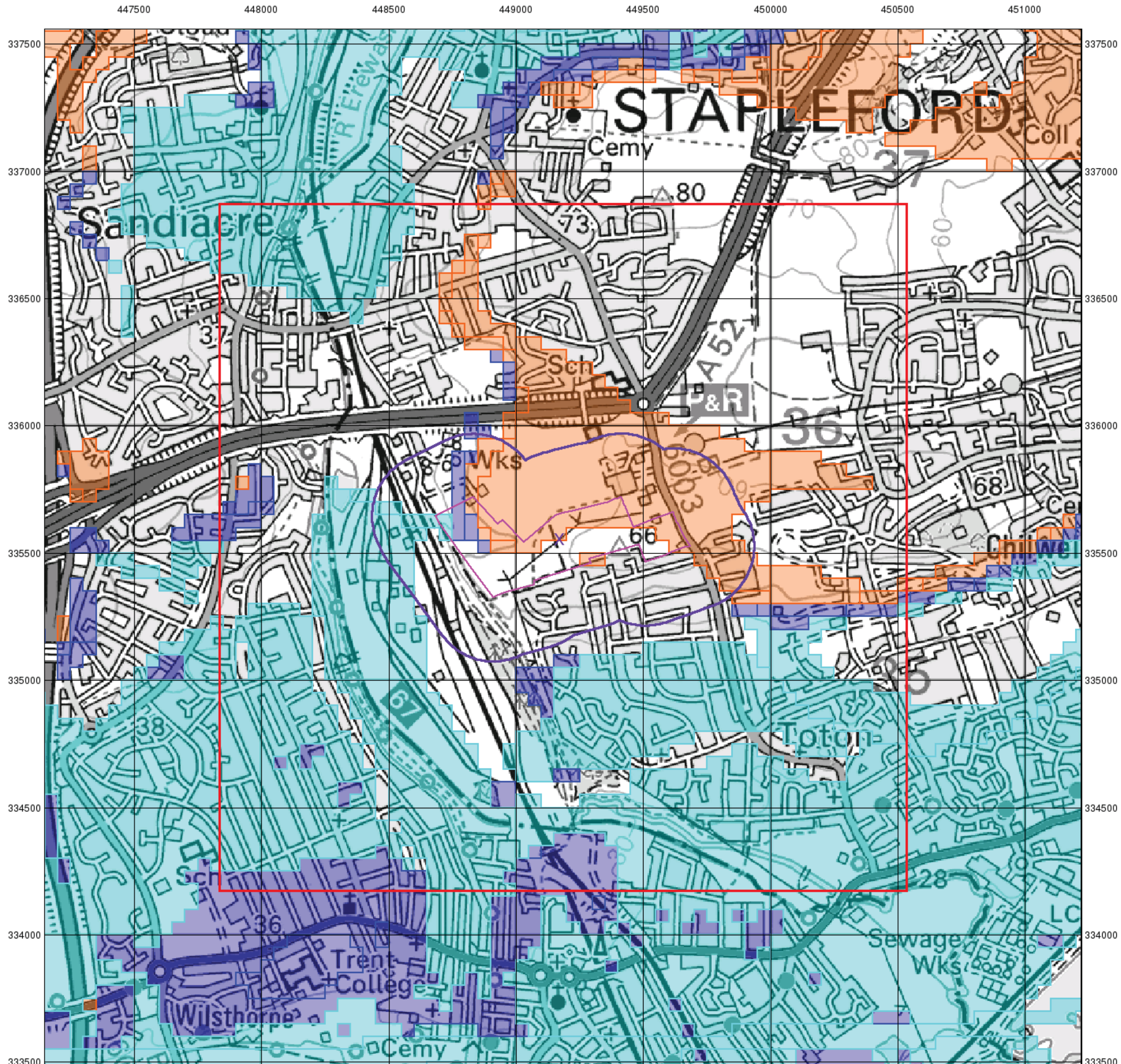


GeoDyne

BGS Flood GFS Data

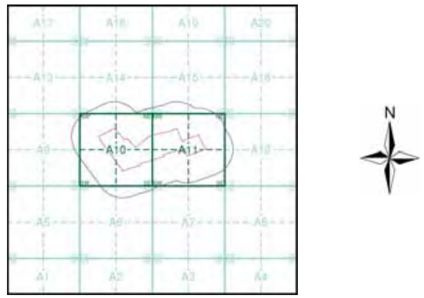
General

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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Site Details

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Order Details:

Order Number: 364257918

Customer Ref: D44116

National Grid Reference: 449170, 335560

Slice: A

Site Area (Ha): 18.98

Search Buffer: 250

Site Details: Toton West

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

BGS Boreholes

Map ID:	Easting:	Northing:	Distance:	Quadrant R	Quadrant R	Bearing Ref	BGS Refere	Drilled Leng	Borehole N	Link to Borehole Scan:
35	448710	335860	181	A10	NW	NW	Sk43ne418	16	Stapleford S	http://scans.bgs.ac.uk/sobi_scans/boreholes/16101521
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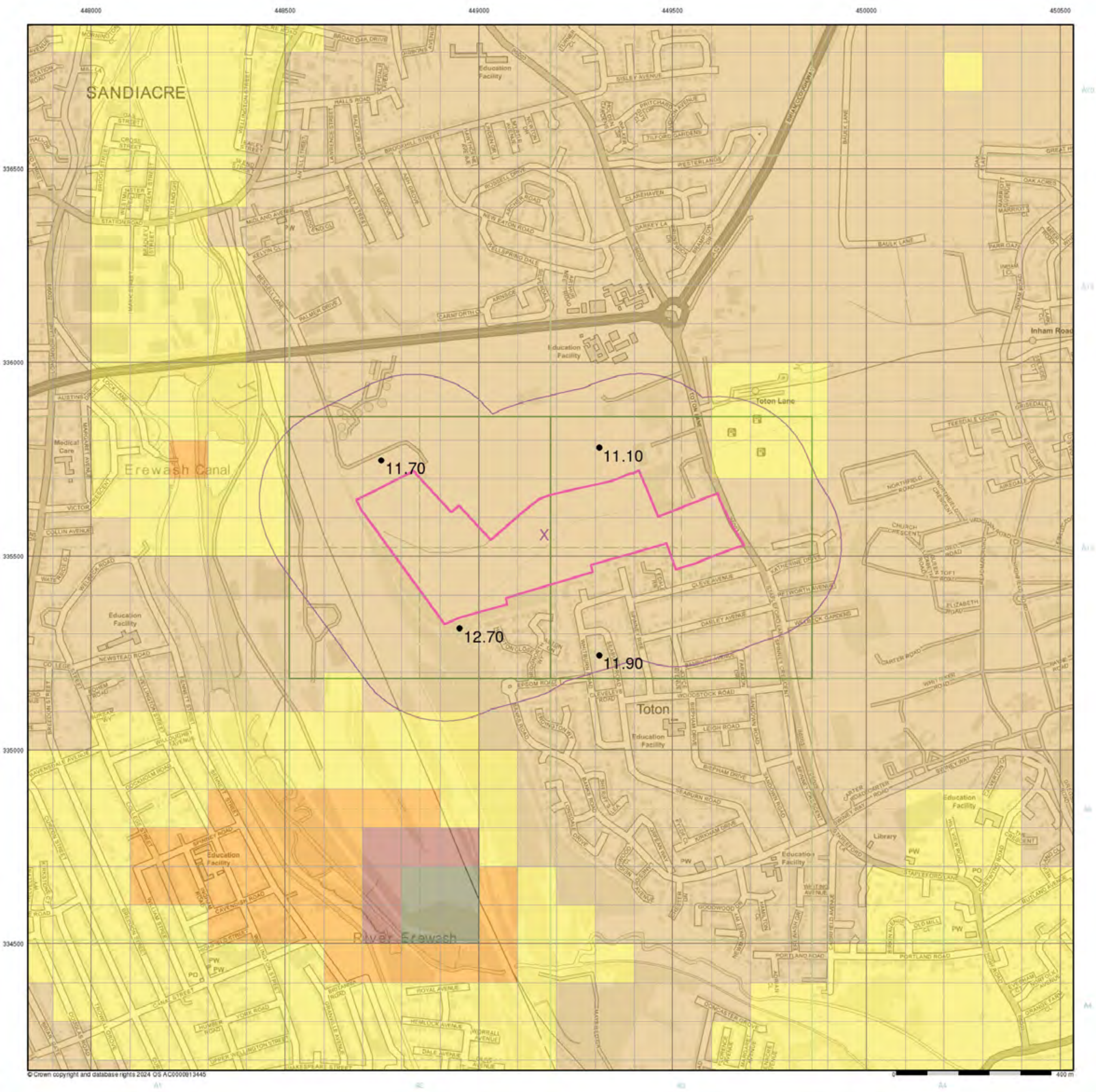
36	448750	335890	190	A14	SW	NW	Sk43ne420	5.1	Stapleford S	http://scans.bgs.ac.uk/sobi_scans/boreholes/16101523
37	448600	335820	194	A10	NW	NW	Sk43ne384	21.41	Hy-Presswo	http://scans.bgs.ac.uk/sobi_scans/boreholes/220329
38	448710	335930	244	A14	SW	NW	Sk43ne416	6	Stapleford S	http://scans.bgs.ac.uk/sobi_scans/boreholes/16101519



GeoDyne

General

Specified Site   Specified Buffer(s)   X Bearing Reference Point

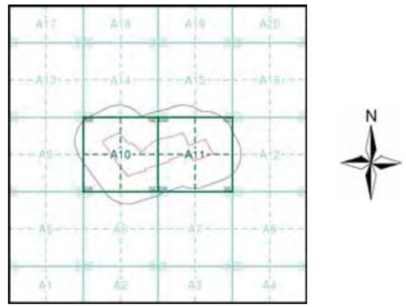
Urban Soil Chemistry Arsenic

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg

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

Urban Soil Chemistry Arsenic - Slice A



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Site Details

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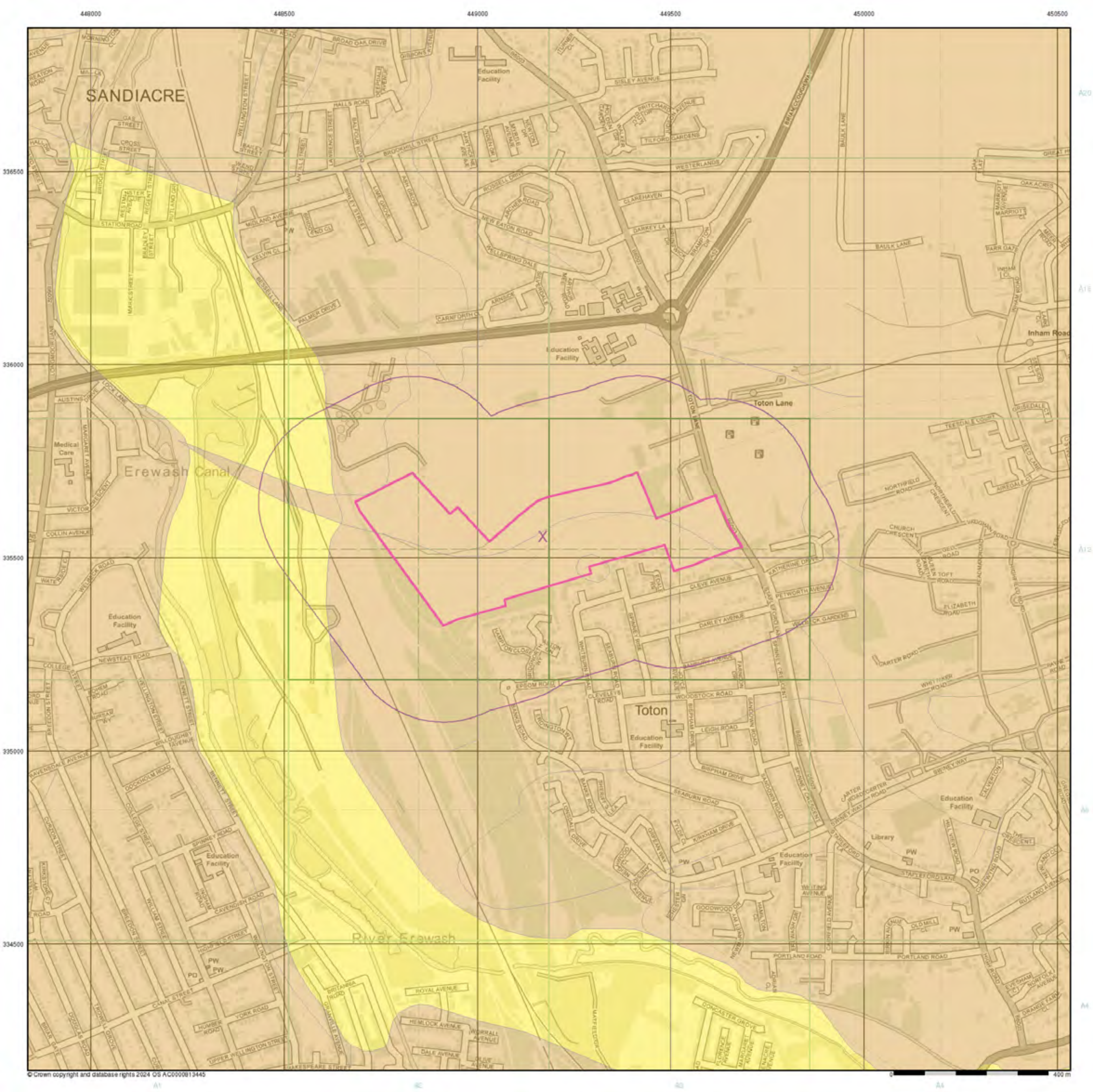


GeoDyne

General

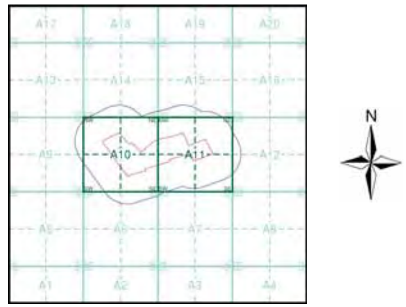
Specified Site
Specified Buffer(s)
X Bearing Reference Point

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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Site Details

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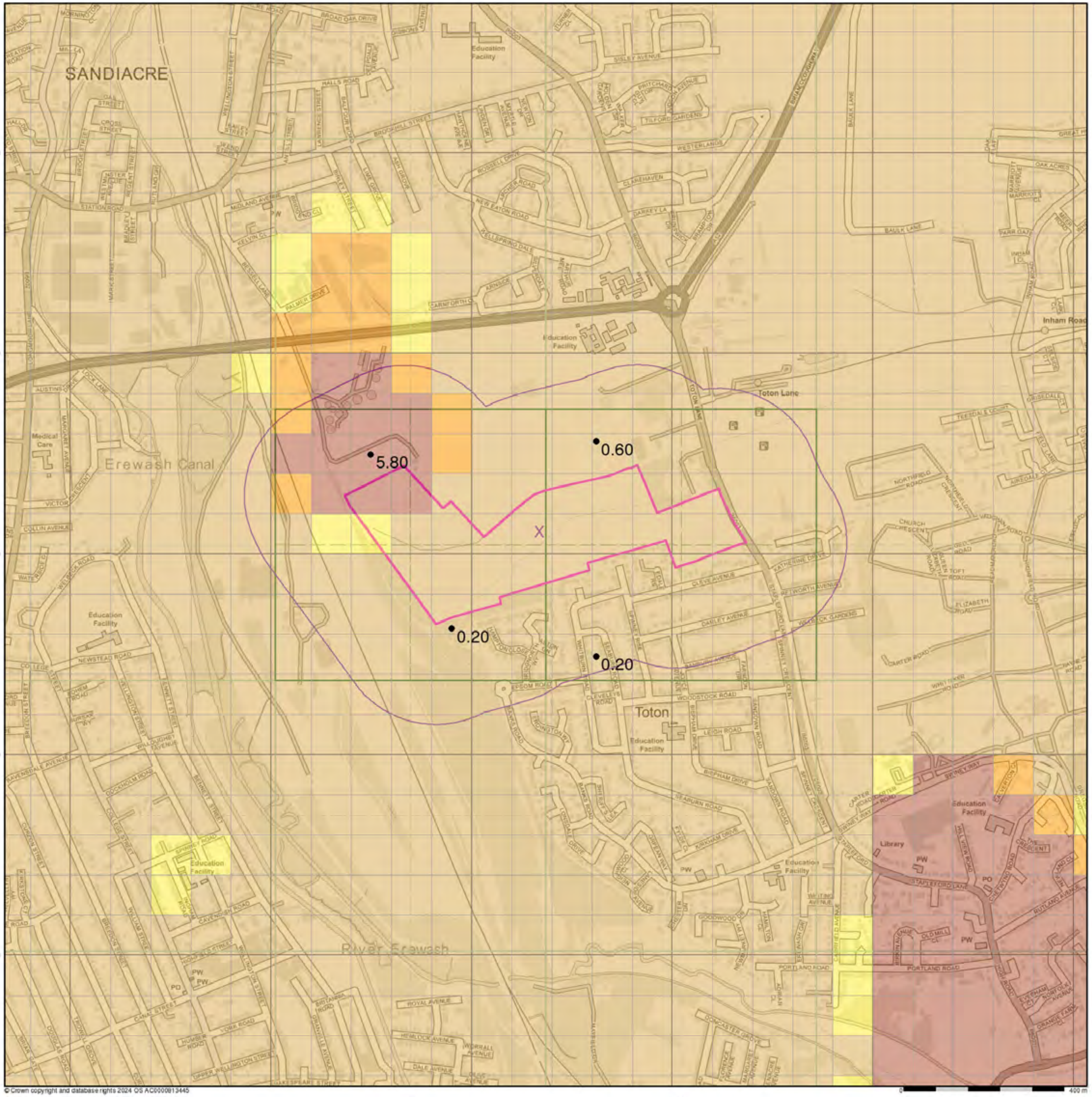


GeoDyne

General

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

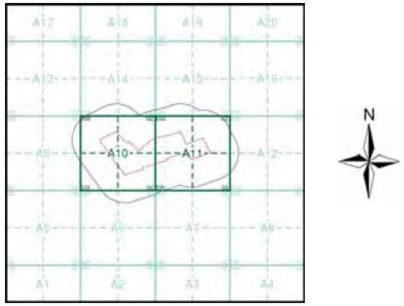
Urban Soil Chemistry Cadmium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg

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

Urban Soil Chemistry Cadmium - Slice A



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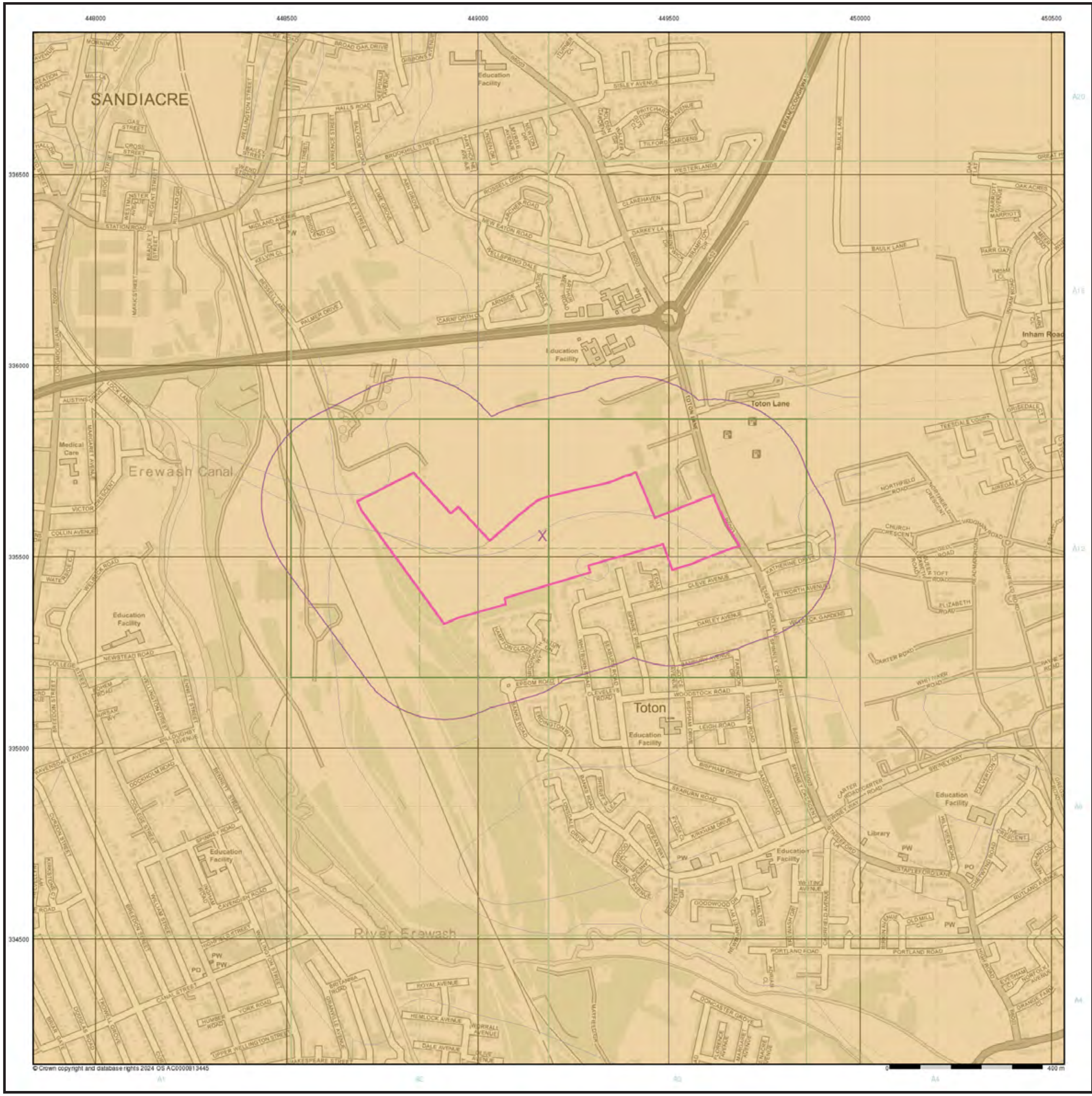


GeoDyne

General

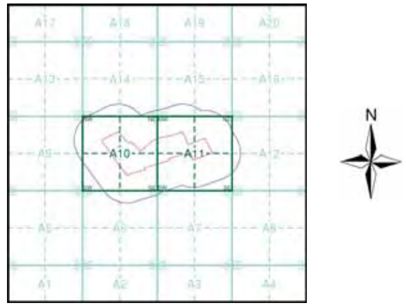
Specified Site
Specified Buffer(s)
X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



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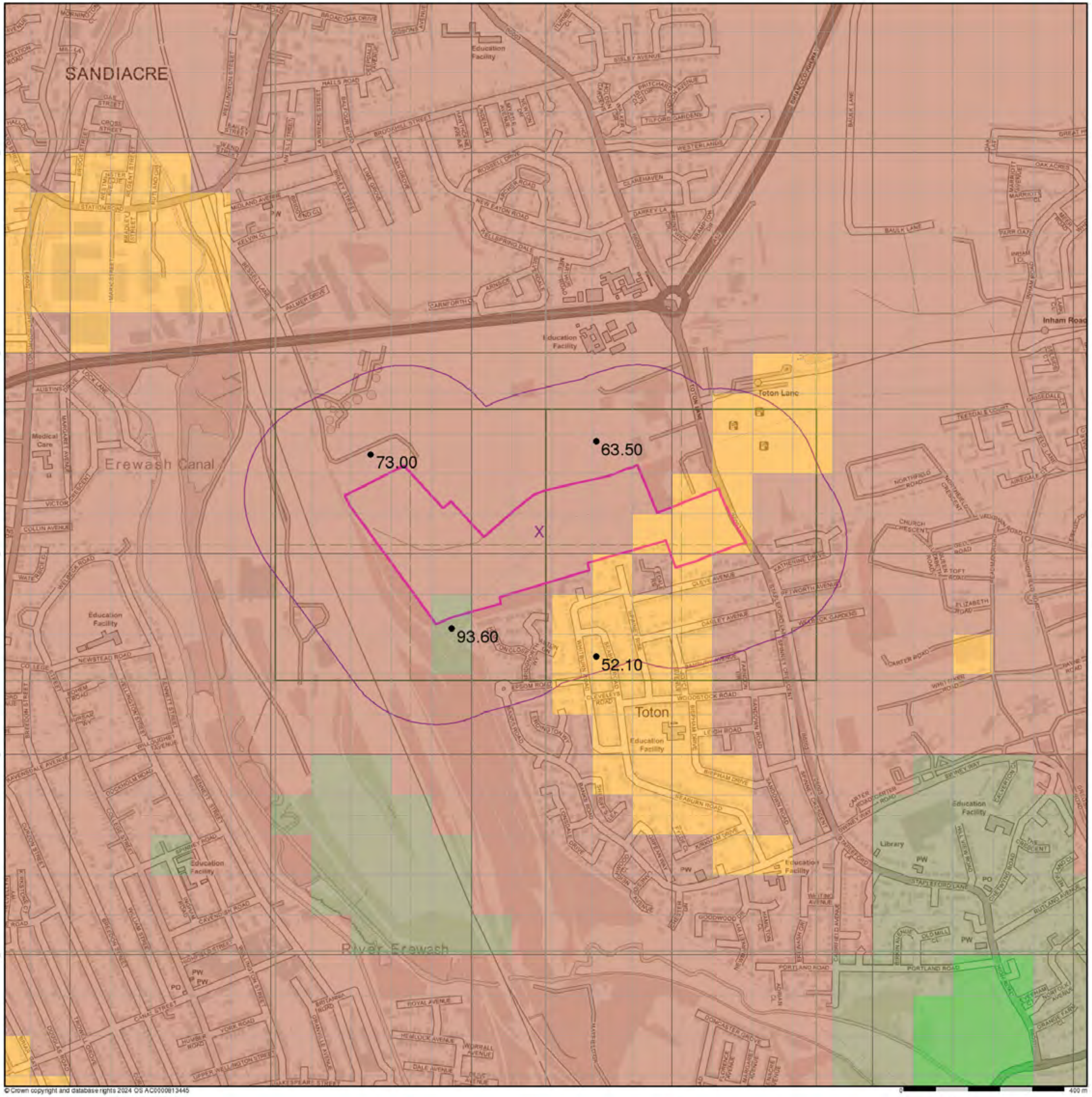


GeoDyne

General

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

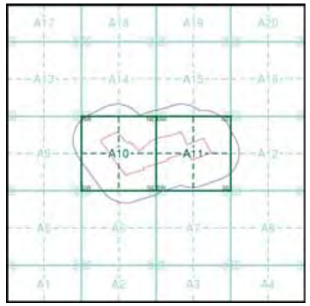
Urban Soil Chemistry Chromium

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg

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

Urban Soil Chemistry Chromium - Slice A



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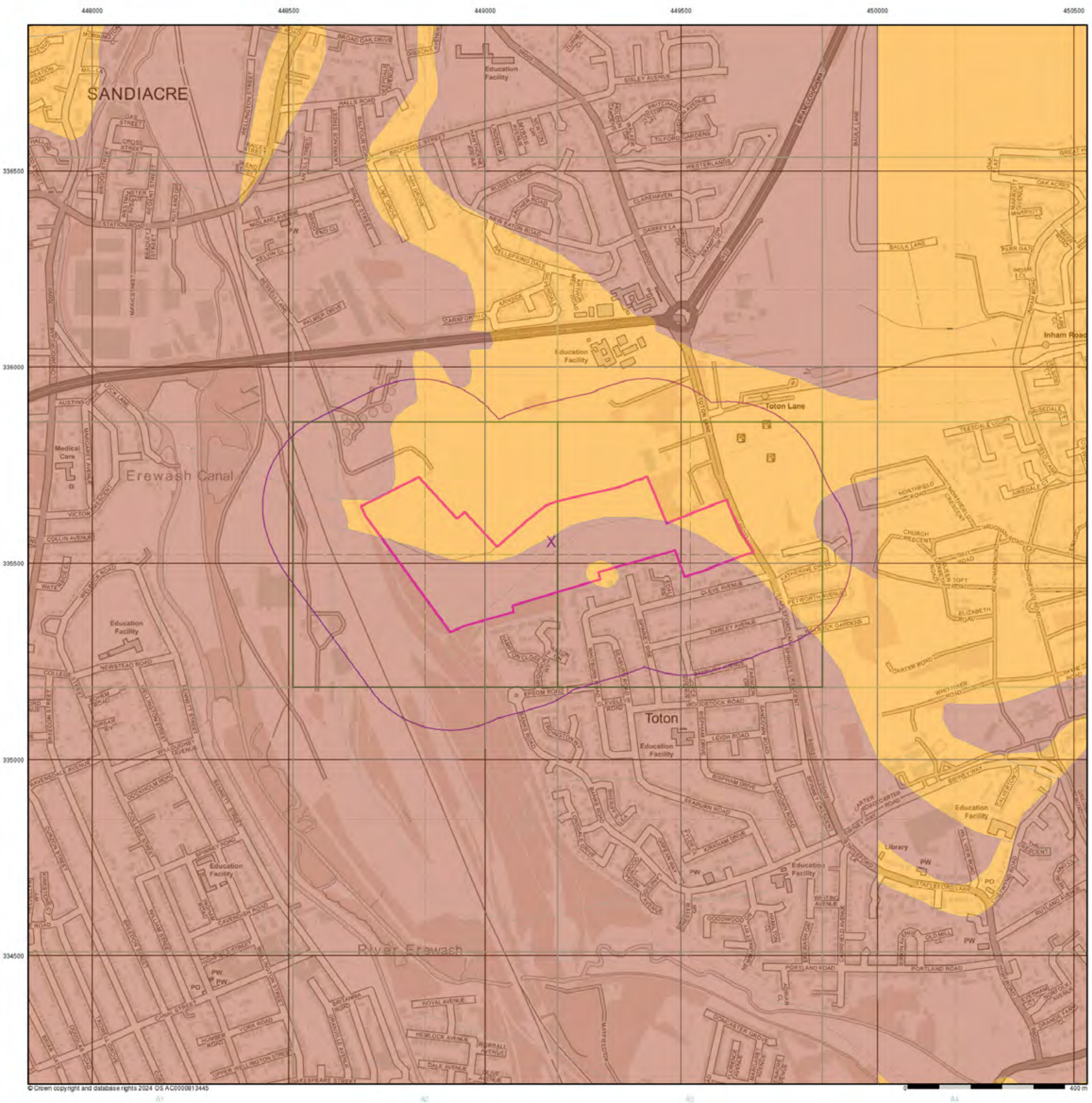


GeoDyne

General

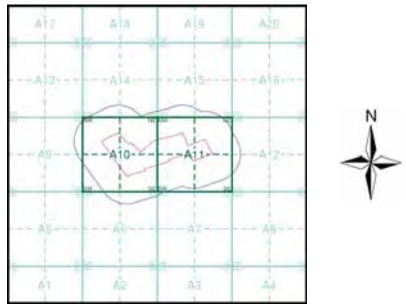
Specified Site   Specified Buffer(s)   X Bearing Reference Point

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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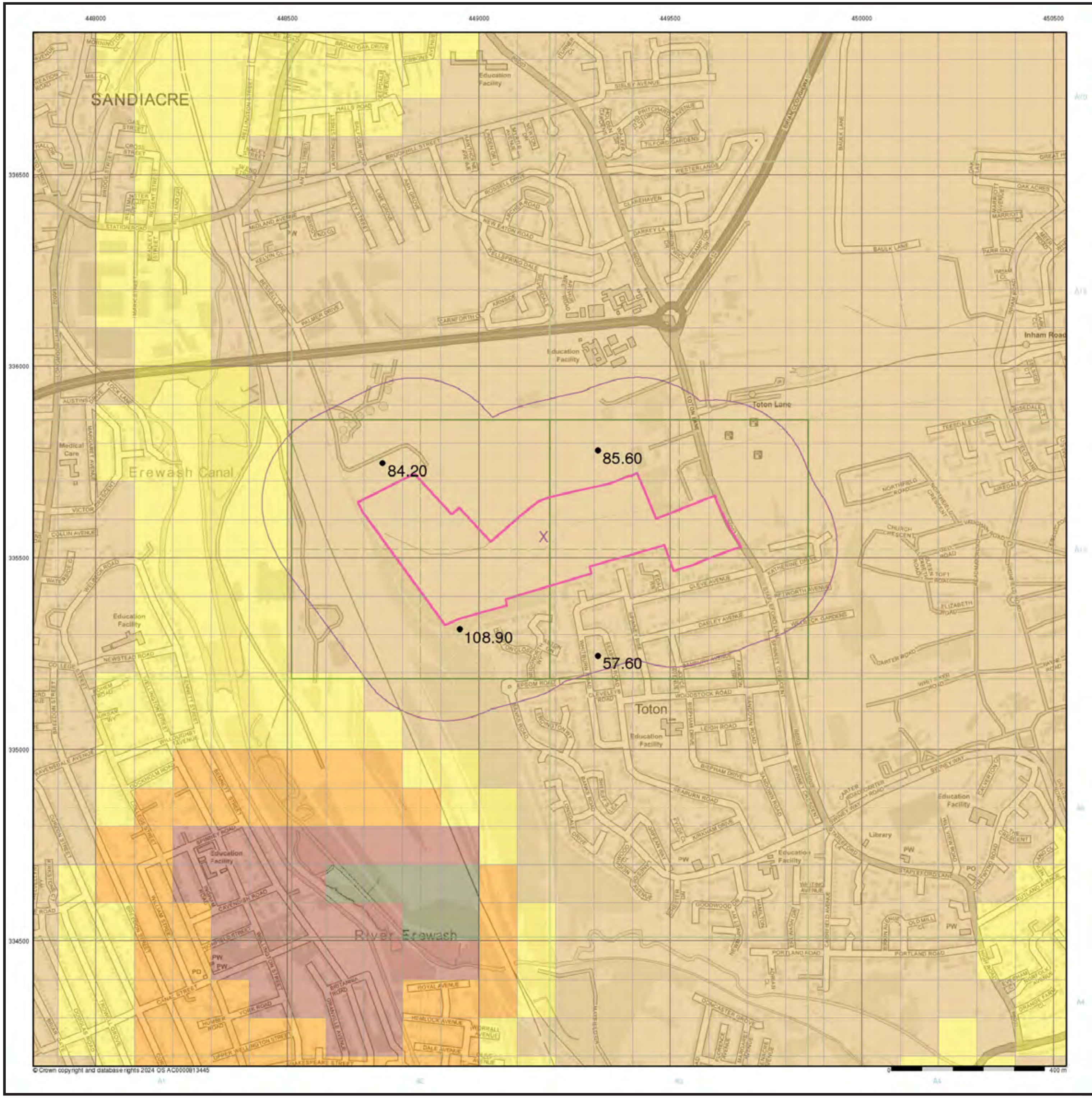


GeoDyne

General

Specified Site

Specified Buffer(s)

X Bearing Reference Point

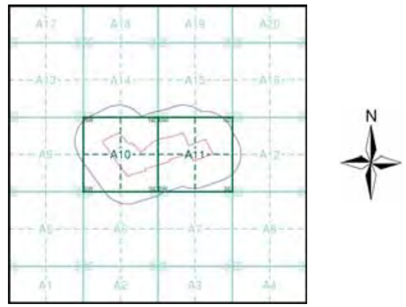
Urban Soil Chemistry Lead

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg

- < 150
- 150 - 300
- 300 - 600
- 600 - 900
- > 900

Urban Soil Chemistry Lead - Slice A



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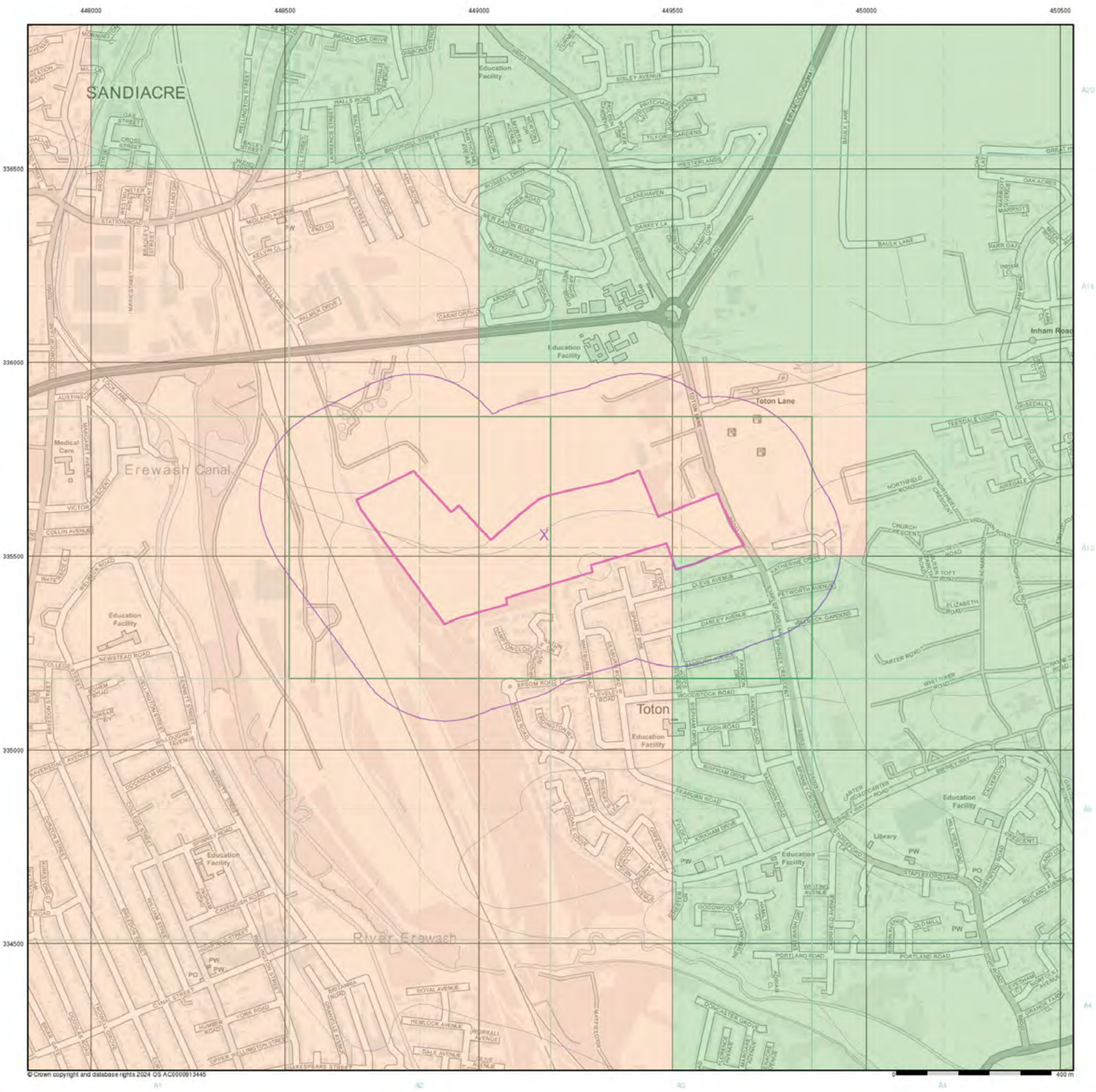


GeoDyne

General

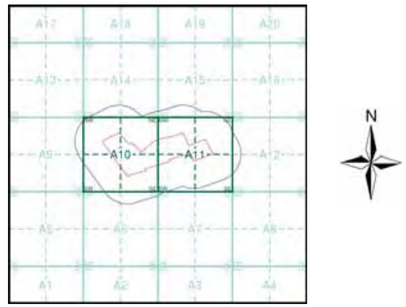
Specified Site
Specified Buffer(s)
X Bearing Reference Point

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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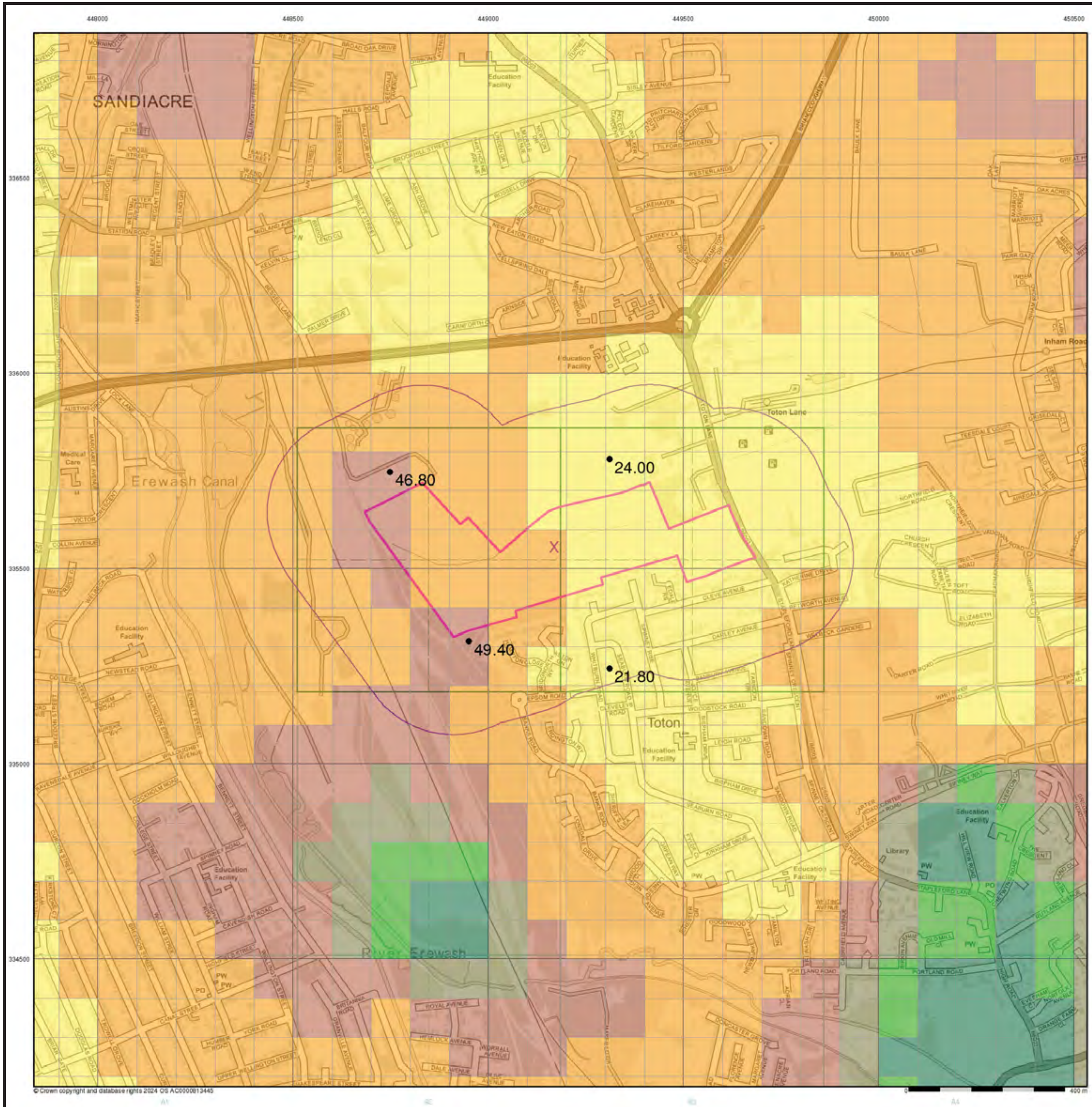


GeoDyne

General

Specified Site
Specified Buffer(s)
X Bearing Reference Point

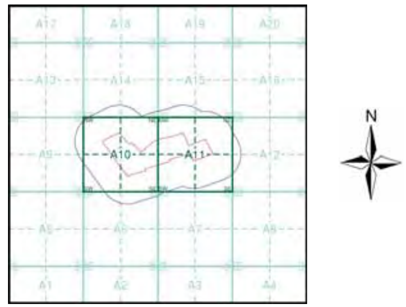
Urban Soil Chemistry Nickel

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg

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

Urban Soil Chemistry Nickel - Slice A



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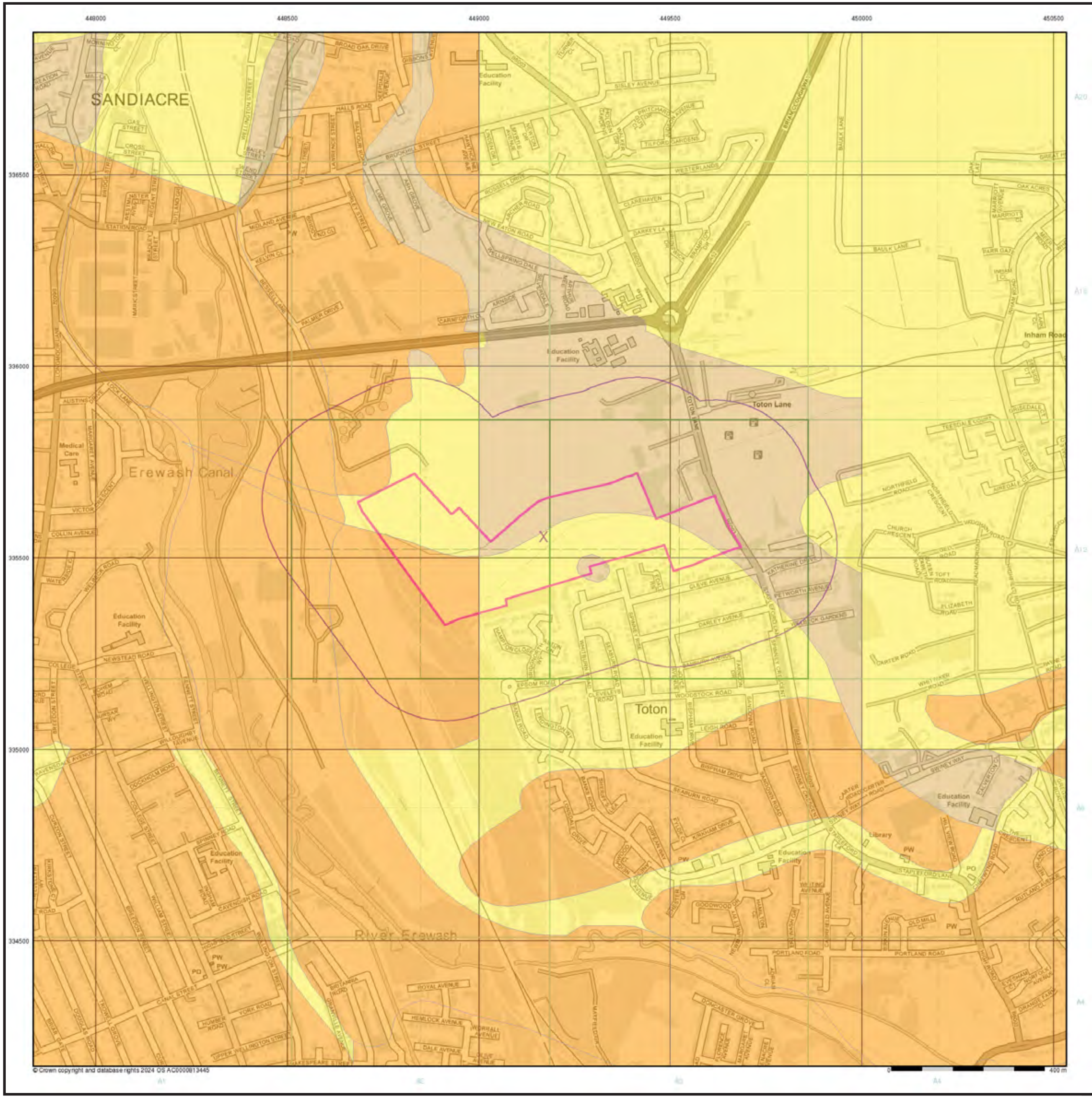


GeoDyne

General

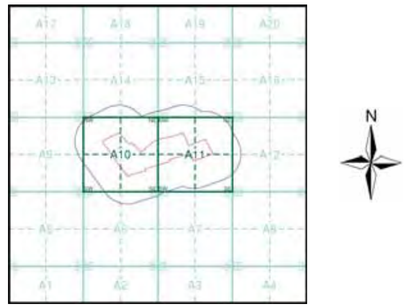
Specified Site
Specified Buffer(s)
X Bearing Reference Point

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

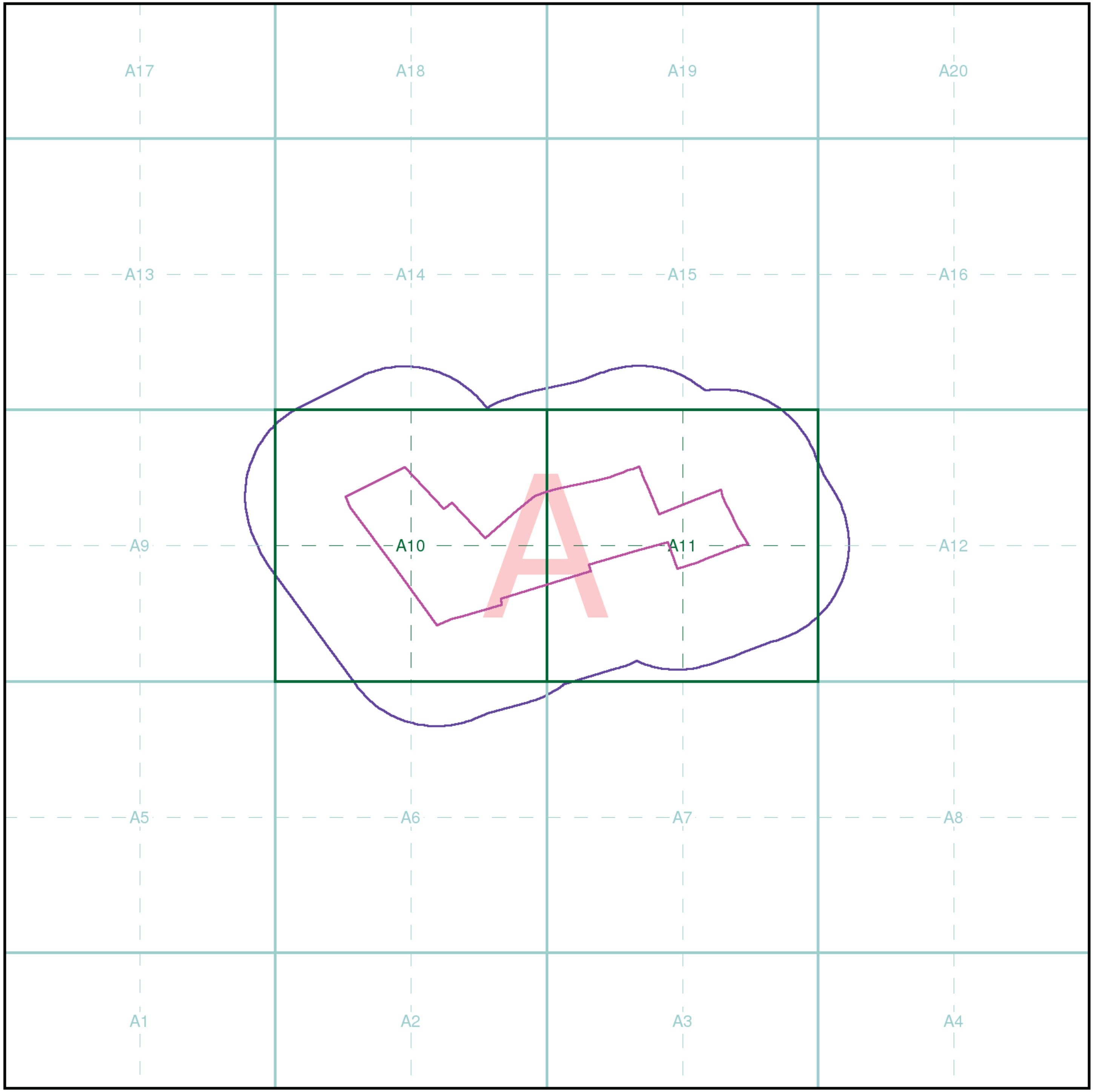


Order Details

Order Details: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search buffer (m): 250

Site Details

Toton West



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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 Hollands, GeoDyne Ltd, Clarendon House, Clarendon Business Park, Clumber Avenue, Nottingham, NG5 1AH

Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449140, 335540
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West

Full Terms and Conditions can be found on the following link:
http://www.landmarkinfo.co.uk/Terms/Show/515

Landmark INFORMATION GROUP

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

Envirocheck® Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:
364257918_1_1

Customer Reference:
D44116

National Grid Reference:
449170, 335560

Slice:
A

Site Area (Ha):
18.98

Search Buffer (m):
250

Site Details:

Toton West

Client Details:

Mr Hollands
GeoDyne Ltd
Clarendon House
Clarendon Business Park
Clumber Avenue
Nottingham
NG5 1AH

Contents

Report Version v53.0

GeoDyne

Summary

Data Type	Page Number	On Site	0 to 250m
Mining and Natural Cavities Data			
BGS Recorded Mineral Sites			
Coal Mining Affected Areas			n/a
Man Made Mining Cavities			
Mining Instability	pg 1	Yes	n/a
Natural Cavities			
Non Coal Mining Areas of Great Britain			
Potential Mining Areas			
Historical Land Use Information (1:2,500)			
Extractive Industries or Potential Excavations from 1855-1909 (100m)			
Extractive Industries or Potential Excavations from 1893-1915 (100m)			
Extractive Industries or Potential Excavations from 1906-1937 (100m)			
Extractive Industries or Potential Excavations from 1924-1949 (100m)			
Extractive Industries or Potential Excavations from 1950-1980 (100m)			
Subterranean Features (100m)			
Historical Land Use Information (1:10,000)			
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining & quarrying general			
Mining of coal & lignite			
Quarrying of sand & clay, operation of sand & gravel pits			
Former Marshes			
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Ground Stability Data (1:50,000)			
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Brine Pumping Related Features			
Brine Subsidence Solution Area			
Potential for Collapsible Ground Stability Hazards	pg 3	Yes	Yes
Potential for Compressible Ground Stability Hazards	pg 3	Yes	Yes
Potential for Ground Dissolution Stability Hazards	pg 3	Yes	
Potential for Landslide Ground Stability Hazards	pg 3	Yes	Yes
Potential for Running Sand Ground Stability Hazards	pg 3	Yes	Yes
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 3	Yes	
Salt Mining Related Features			

Mining and Natural Cavities Data

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A10NE (W)	0	1	449169 335556
	Non Coal Mining Areas of Great Britain No Hazard				

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Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A10NW (W)	93	-	448602 335688
2	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1901	A10SW (W)	129	-	448603 335474
3	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SW (NW)	165	-	448771 335872
4	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A10NW (NW)	190	-	448620 335825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
5	**Potential for Collapsible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NW (W)	48	2	448652 335586
6	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (SW)	0	2	448834 335376
7	**Potential for Compressible Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	203	2	448621 335378
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556
8	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	449199 335514
9	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556
10	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	2	449274 335488
11	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	448989 335597
12	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (SE)	0	2	449188 335530
13	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SE (SW)	19	2	448904 335307
14	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	135	2	449709 335368
15	**Potential for Landslide Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	211	2	449600 335915
16	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (SW)	0	2	448834 335376
17	**Potential for Running Sand Ground Stability Hazards** Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	203	2	448621 335378
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556
18	**Potential for Shrinking or Swelling Clay Ground Stability Hazards** Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SE (S)	0	2	449169 335373
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	2	449169 335556

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

1:2,500	Mapsheet	Published Date
Derbyshire	051_14	1880
Nottinghamshire	041_15	1885
Nottinghamshire	041_15	1885
Nottinghamshire	041_15	1900
Nottinghamshire	041_15	1900
Derbyshire	051_14	1900
Nottinghamshire	041_15	1914
Nottinghamshire	041_15	1914
Derbyshire	051_14	1914
Derbyshire	051_14	1938
Nottinghamshire	041_15	1939
Nottinghamshire	041_15	1939
Ordnance Survey Plan	SK4835	1957

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Historical Map List

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

1:10,560	**Mapsheet**	**Published Date**
Nottinghamshire	041_SE	1884
Nottinghamshire	045_NE	1884
Derbyshire	056_NW	1887
Derbyshire	051_SW	1889
Leicestershire	005_NW	1901
Nottinghamshire	041_SE	1901
Nottinghamshire	041_SW	1901
Nottinghamshire	045_NE	1901
Nottinghamshire	045_NW	1901
Derbyshire	051_SW	1901
Derbyshire	056_NE	1901
Derbyshire	056_NW	1901
Leicestershire	005_NW	1921
Nottinghamshire	041_SE	1921
Nottinghamshire	041_SW	1921
Nottinghamshire	045_NE	1921
Derbyshire	051_SW	1921
Derbyshire	056_NE	1921
Derbyshire	056_NW	1921
Nottinghamshire	045_NW	1938
Derbyshire	051_SW	1938
Derbyshire	056_NW	1938
Nottinghamshire	041_SE	1939
Derbyshire	056_NE	1939
Ordnance Survey Plan	SK43SE	1955
Ordnance Survey Plan	SK53NW	1955
Ordnance Survey Plan	SK53SW	1955
Ordnance Survey Plan	SK43NE	1956
1:10,000	**Mapsheet**	**Published Date**
Ordnance Survey Plan	SK53SW	1983
Ordnance Survey Plan	SK53NW	1984
Ordnance Survey Plan	SK43NE	1985
Ordnance Survey Plan	SK43SE	1995

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2023	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2023	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable

Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	July 2023	Bi-Annually

Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	

Data Suppliers

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	
The Coal Authority	
Ove Arup	
Stantec UK Ltd	
Wardell Armstrong	
Johnson Poole & Bloomer	

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Useful Contacts

Contact	Name and Address	Contact Details
1	**Ove Arup & Partners** Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
2	**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
-	**Landmark Information Group Limited** Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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Historical Land Use Information (1:10,000)

General

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

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

Point | Line | Polygon

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

Historical Land Use

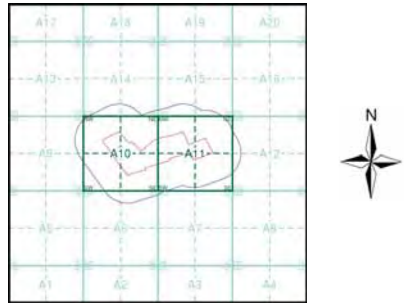
Point | Line | Polygon

Potentially Infilled Land (Non-Water)
Potentially Infilled Land (Water)
Former Marsh

Mining Data

Potential Mining Area
BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



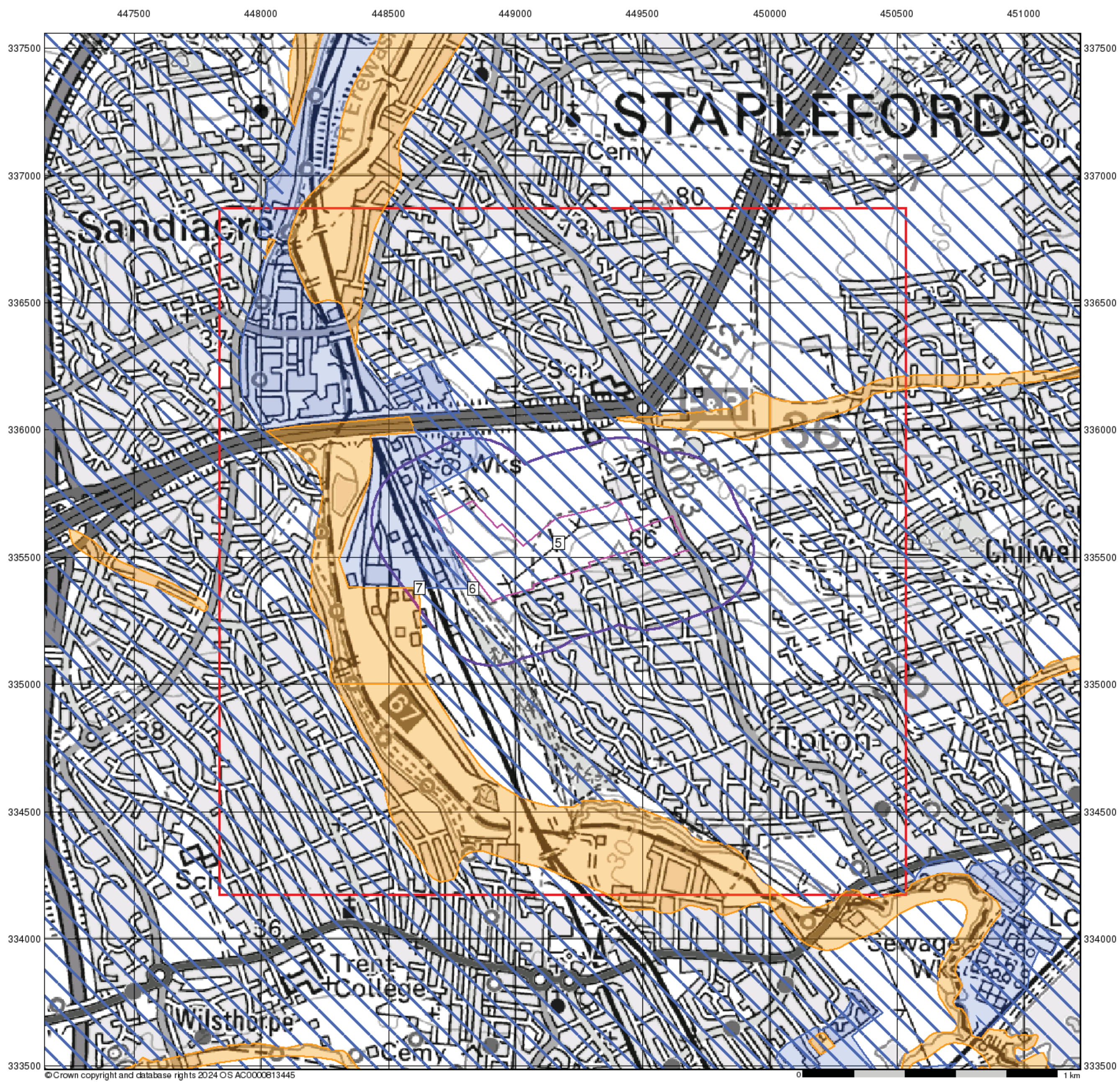
Order Details

Order Number: 364257918_1_1
Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Search Buffer (m): 250

Site Details

Toton West

Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk
A Landmark Information Group Service v50.0 25-Nov-2024



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Ground Stability Data (1:50,000)

General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Slice

Map ID

Potential for Compressible Ground Stability Hazards

High

Low

Moderate

Very Low

Potential for Collapsible Ground Stability Hazards

High

Low

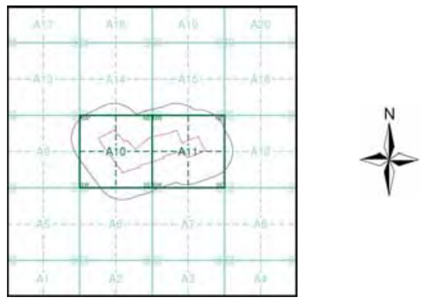
Moderate

Very Low

Brine Pumping and Salt Mining

	Point	Polygon
Brine Pumping Related Feature		
Salt Mining Related Feature		

Mining and Ground Stability - Slice A



Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

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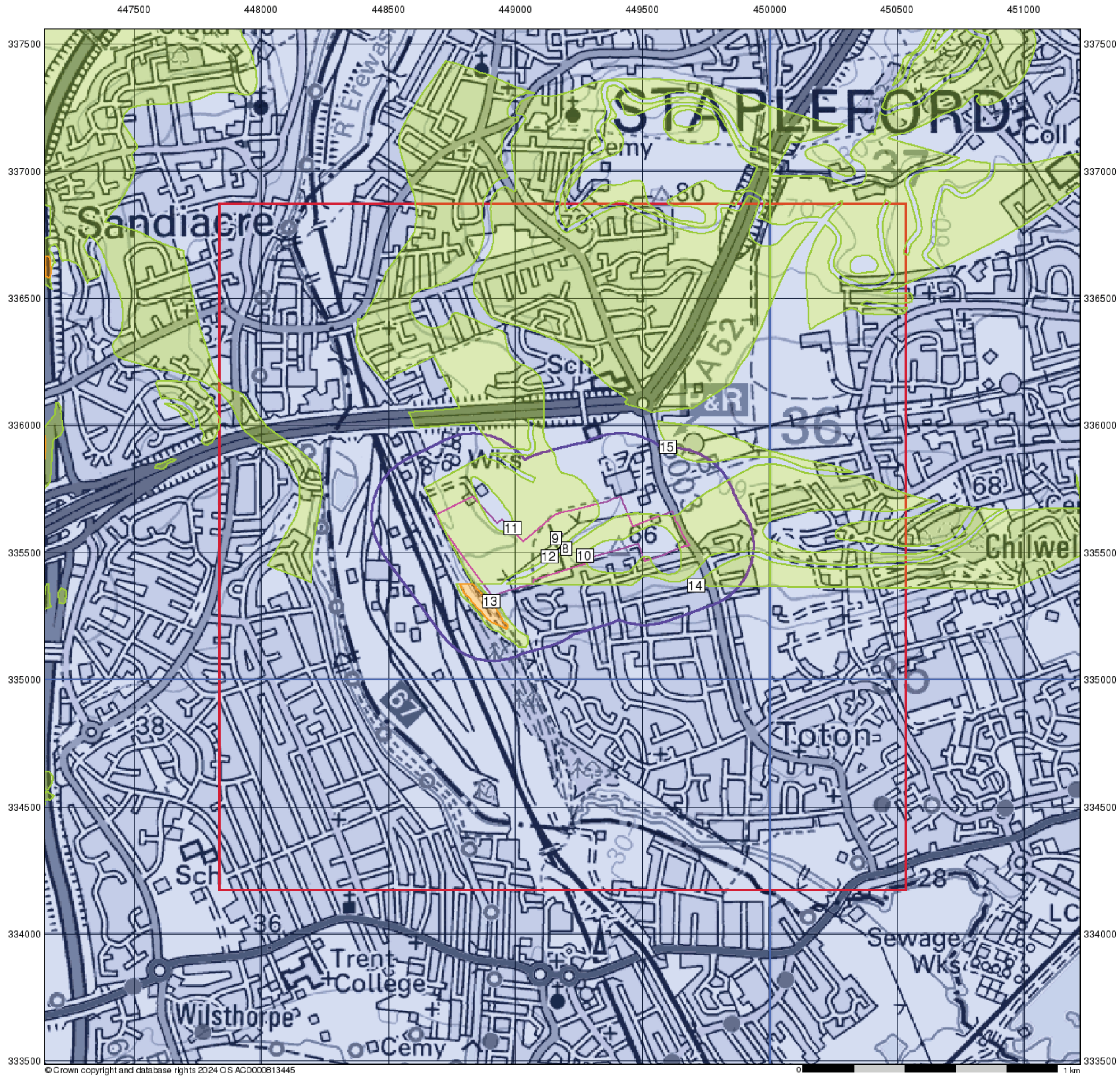

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Ground Stability Data (1:50,000)

General

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

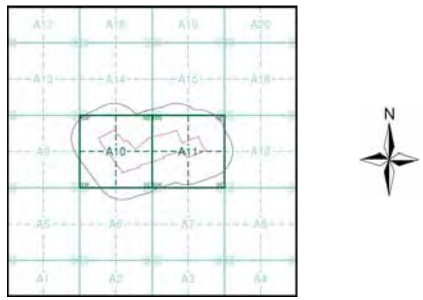
Potential for Landslide Ground Stability Hazards

High
Low
Moderate
Very Low

Potential for Ground Dissolution Stability Hazards

High
Low
Moderate
Very Low

Mining and Ground Stability - Slice A

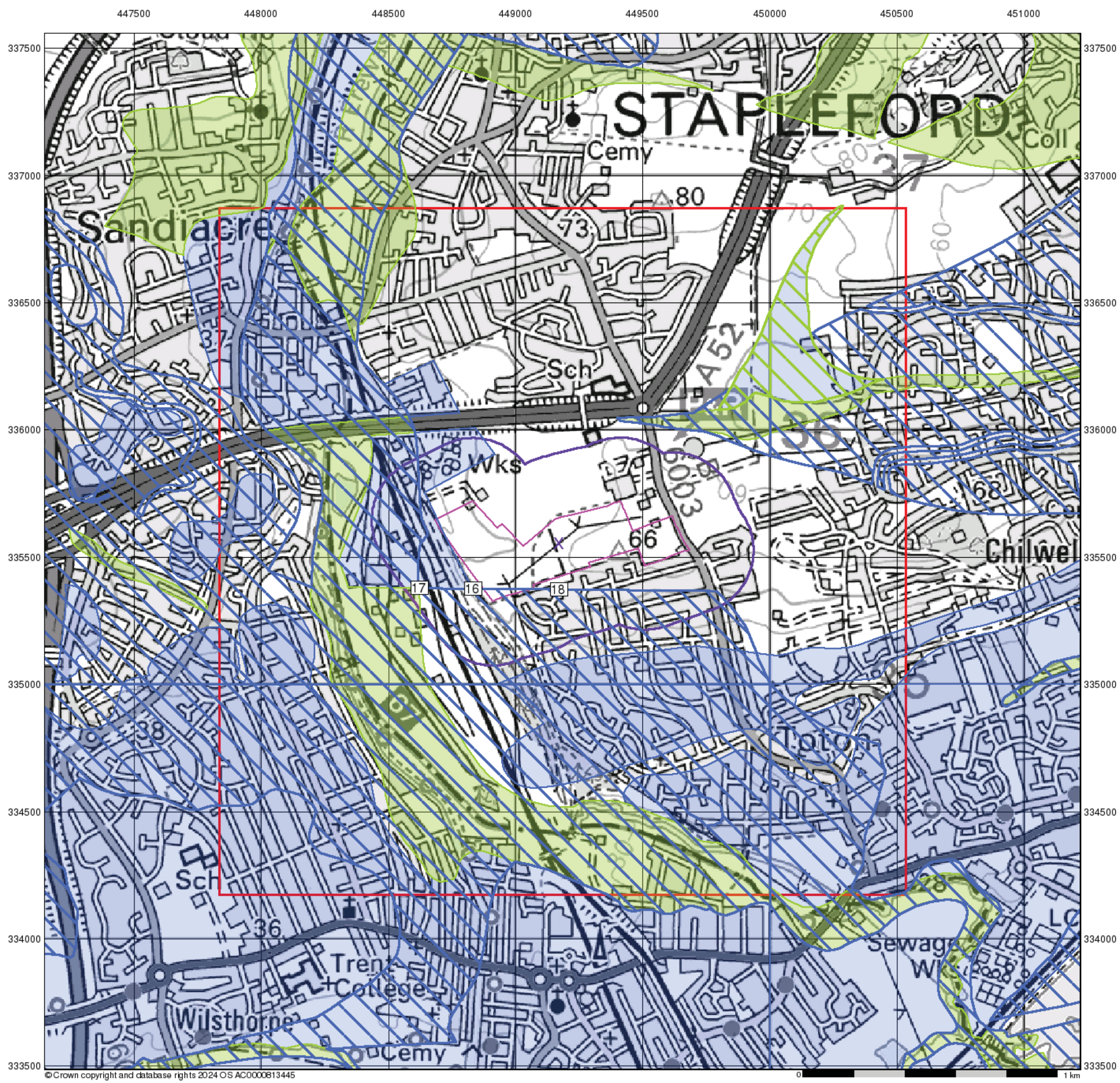


Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West



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Ground Stability Data (1:50,000)

General

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

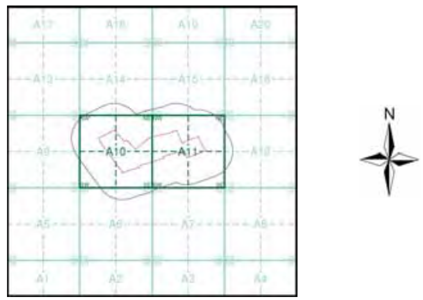
Potential for Running Sand Ground Stability Hazards

High
Low
Moderate
Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

High
Low
Moderate
Very Low

Mining and Ground Stability - Slice A



Order Details

Order Number:	364257918_1_1
Customer Ref:	D44116
National Grid Reference:	449170, 335560
Slice:	A
Site Area (Ha):	18.98
Search Buffer (m):	250

Site Details

Toton West

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Tel: 0844 844 9952
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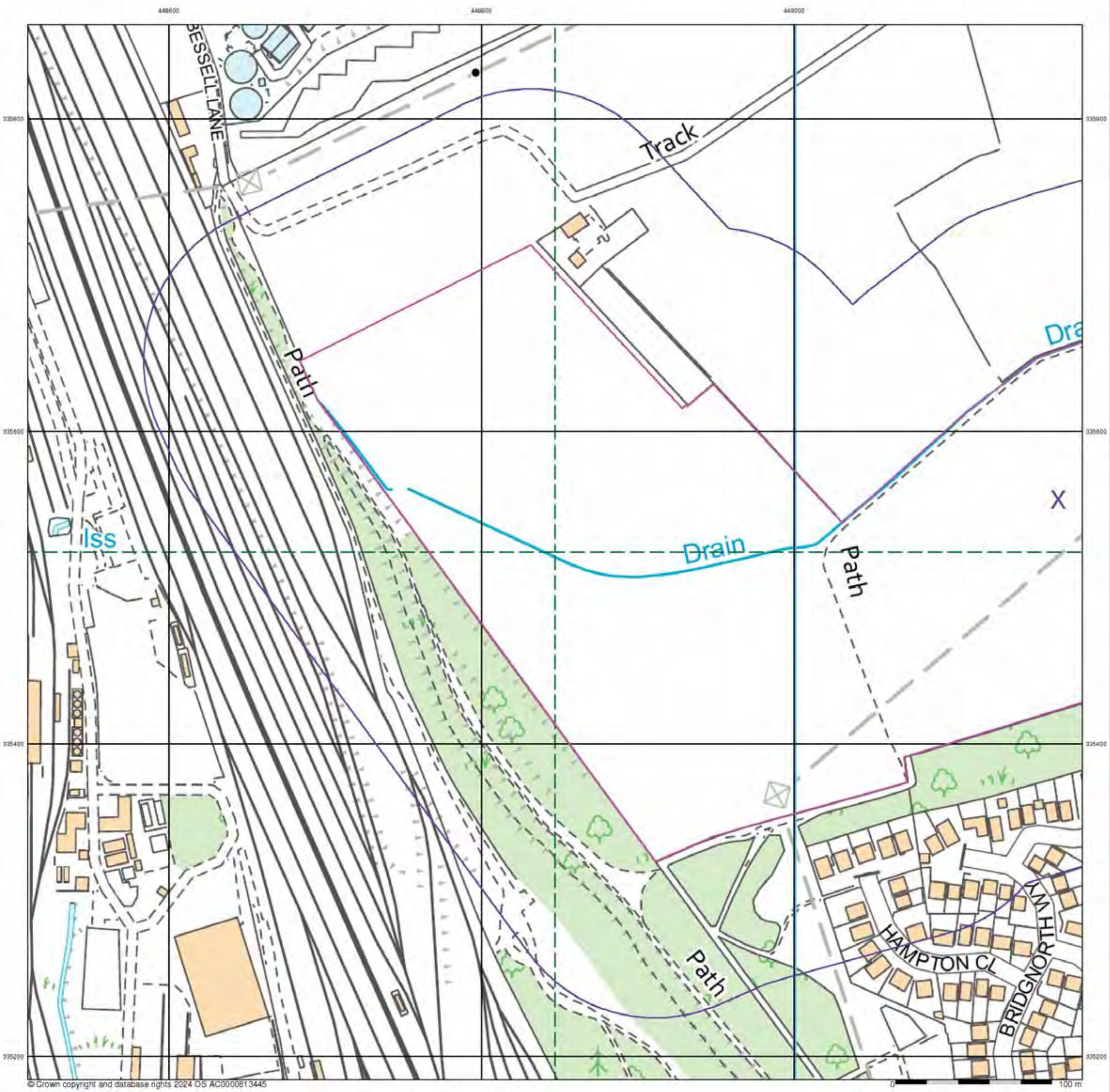


GeoDyne

Historical Land Use Information (1:2,500)

General

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

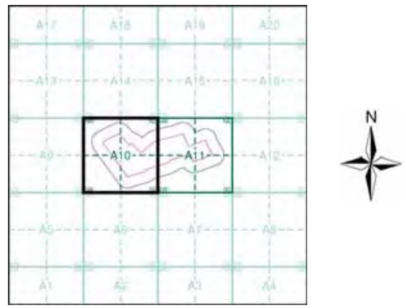
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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

Subterranean Features

	Point	Line	Polygon
Subterranean Features			

Mining and Ground Stability - Segment A10



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Customer Ref: D44116
National Grid Reference: 449170, 335560
Slice: A
Site Area (Ha): 18.98
Plot Buffer (m): 100

Site Details

Toton West

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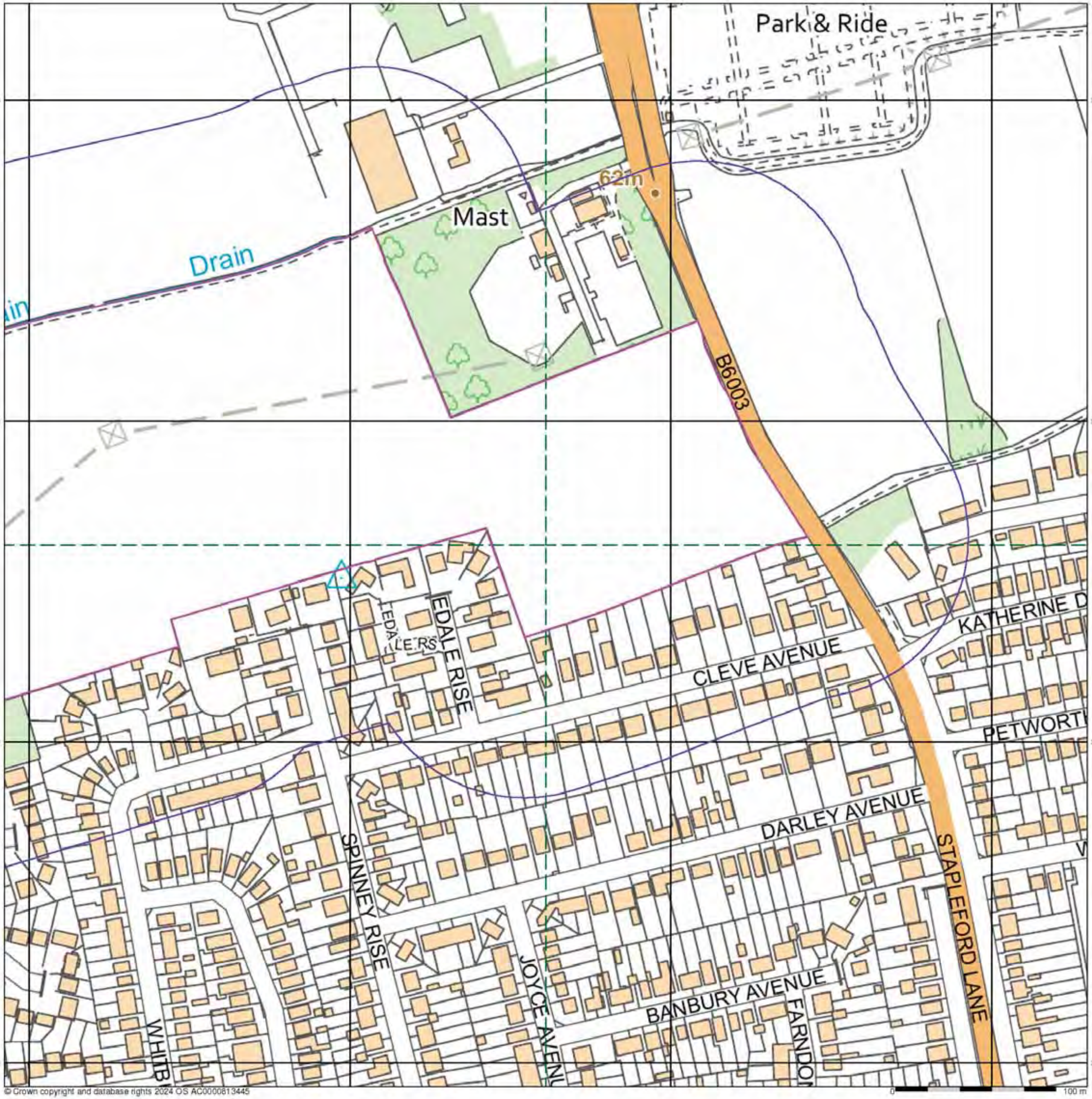
Web: www.envirocheck.co.uk



GeoDyne

Historical Land Use Information (1:2,500)

General

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

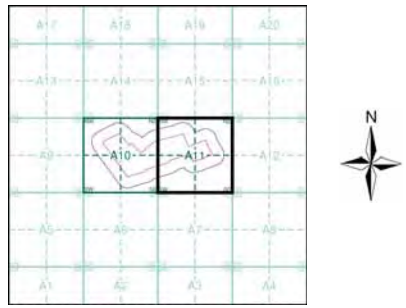
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

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

Subterranean Features

	Point	Line	Polygon
Subterranean Features			

Mining and Ground Stability - Segment A11



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Plot Buffer (m): 100

Site Details

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APPENDIX IX

Conditions & Limitations

Conditions & Limitations

Phase I Desk Studies

1. Works undertaken to provide the basis of the Phase I Desk Study report comprise a review of information available from a number of sources/parties (potentially also including the Client) together with a walk over of the site (where applicable and included within the quotation). The opinions given in the Phase I Desk Study are based on the information available from third parties/sources that has been obtained within the available timeframe. GeoDyne Limited assumes all third party information to be true and correct and therefore cannot accept liability for the accuracy of such information supplied.

2. Should additional information become available that may affect the comments and opinions made within the Phase I Desk Study, GeoDyne Limited reserves the right to review such information and make modifications to comments/opinions as appropriate.

3. It should be borne in mind that a Phase I Desk Study collates available information to generate a conceptual model of the site. The actual geotechnical and environmental considerations can only be fully quantified by intrusive investigation works to confirm the accuracy of the conceptual site model.

Phase II Intrusive Investigations

1. Our quotation assumes that access to the site will be arranged by others at no cost to ourselves.

2. We have assumed that free access is available throughout to the entire site and that works can be undertaken during a single mobilisation. Where restricted access is encountered, or where additional unscheduled mobilisations are required, additional costs may be incurred to the client.

3. We have assumed that all available information relating to buried services will be supplied by the Client at no cost to ourselves. No responsibility will be accepted for damage to underground services that have not been brought to our prior attention by the Client.

4. All excavations/boreholes will be backfilled with compacted arisings upon completion, with any excess arisings left proud of ground levels. Excess arisings will not be removed from the site unless specifically requested by the Client. Where we are requested to remove excess arisings, all associated costs will be passed to the Client.

5. We will attempt to leave the site in a clean and tidy state, however, it must be understood that some disturbance of the site is unavoidable during intrusive works.

6. Exploratory holes are positioned approximately on site by GeoDyne Limited. Should the client require precise locations of all exploratory points, additional fees will be incurred. It must be borne in mind that backfilled trial pits can create 'soft spots', therefore, should the Client wish to designate 'no dig' zones, for example under the footprint of proposed structures, these must be brought to our attention prior to commencement of works.

7. Groundwater observations relate to conditions encountered at the time of investigation. It must be understood that groundwater levels may vary as a result of recent climatic conditions or seasonal variation.

8. Trial pits and boreholes examine only a small proportion of the total site area. No liability can be accepted for conditions not revealed in exploratory holes, particularly between positions. All extrapolations of available data are given in good faith.

9. GeoDyne reserve the right to charge for abortive costs for any site works cancelled by the client within 5 working days before mobilisation to site.

Payment

1 Payment terms are strictly 28 days from the invoice date. GeoDyne reserve the right to charge interest on any late payments.

2 Prior to commencement of works, we require receipt of formal written instruction from the party accepting full financial responsibility for the work. In the absence of such an instruction, we would expect the instructing Consulting Engineers/Architects to accept full financial responsibility for the works.

3 Receipt of instruction to commence work shall be taken as acceptance and compliance of the foregoing conditions.

Liability

1. GeoDyne Limited offer £5,000,000.00 Professional Indemnity Insurance (in aggregate over the year). This shall be the limit of our liability for works undertaken. No individual liability shall be implied to, or accepted by, any employee for works undertaken for and on the behalf of GeoDyne Limited.