



Phase I Preliminary Risk Assessment (PRA)

At

Gaywood Green Tower Blocks,
Kirkby

Client: Ridge and Partners LLP

Reference: 32996-SUT-ZZ-00-RP-G-7101

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SUTCLIFFE INVESTIGATIONS

Phase I Preliminary Risk Assessment (PRA)

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Executive Summary

INTRODUCTION	Sutcliffe Investigations were instructed by Ridge and Partners LLP to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Gaywood Green Tower Blocks, Kirkby.
AIMS & OBJECTIVES	The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning. This report constitutes a preliminary investigation as defined in BS10175 and contains the following:  Summary of the information obtained from an Envirocheck Report (Report Reference: 305765557_1_1), which is presented in Appendix A.  A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of LCRM and their recommendations on contamination reports.
SITE LOCATION & DESCRIPTION	The site address is located at Gaywood Green, Kirkby, Liverpool, L32 6QT at National Grid Reference (NGR) 341810, 397660 and is approximately 9.1km north-east from Liverpool City Centre. The site has variable topography and comprises four tower blocks with associated rows of garages and hardstanding used for vehicle parking and footpaths. The rest of the site is covered by grass and trees are dotted throughout the site. A 1m tall brick wall with metal fencing on top is noted to mark the site's north-western and south-western boundaries, as well as within the site. A photographic log of the site is presented as Appendix B.
SITE HISTORY	Onsite The earliest available historical map (1850) shows the site to comprise mainly farmland with part of a woodland area known as Wignall's Plantation located in the southern end of the site. No significant changes occur until the 1960 – 1961 mapping when the farmland and woodland are no longer mapped on-site. By 1974 the site comprises four tower blocks with associated rows of garages, and the site has also been labelled 'Gaywood Green'. Aerial photography dated 2001 shows the tower blocks and garages, and the site is predominantly covered by grass with trees dotted throughout. No other significant changes or features are noted on-site from the available historical maps. Offsite The earliest available historical map (1850) shows the surrounding area of the site to primordially comprise of largely farmland with sporadic dwellings and Wignall's Plantation immediately south of the site. Road Lane is 10m west of the site, a stream is noted 50m south of the site and a gravel pit is noted 165m east of the site. Ponds are noted 215m south-west, 220m south-west, and 250m south-west of the site, however these ponds are no longer mapped by 1893. With the exception of progressive development commercial/residential/industrial), from 1908 onwards, no significant identifiable changes were apparent in the immediate and wider surroundings.
GEOTECHNICAL UNCERTAINTY	The site has not been subject to previous development and therefore, the potential for relic foundations and obstructions is unlikely. Trees are noted on-site and therefore tree heave protection measures may be required.
GEOLOGY	Artificial There are no records of any artificial ground on-site. Drift

	There are no records of any superficial deposits on-site. Solid The solid geology for the site is noted as Chester Formation – Sandstone.
HYDROGEOLOGY	The Bedrock is classified as a Principal Aquifer. No groundwater abstractions have been identified within 500m of the site.
FAULTS	No faults have been identified within the development site boundary. No action is required in respect to foundation design.
RADON	According to the Envirocheck Report, the site is not within a radon affected area, as <1% of homes are above the action level. No radon protection measures are necessary in the construction of new dwellings or extensions.
COAL MINING	The site is not within a coal mining area. No further action is required to assess the risks associated with coal mining assets.
HYDROLOGY	The nearest surface water feature is noted 204m south of the site and relates to a pond.
RISK ASSESSMENT	The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.
CONCLUSIONS & RECOMMENDATIONS	Based on the findings of the Phase I review, Sutcliffe Investigations do not consider there to be any identifiable significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken:  Submission of this Phase I PRA Report for the benefit of validating the outline planning application.  Commission a Phase II Ground Investigation designed to discharge any contaminated land conditions that may be assigned to the site and allow the design of economic foundation solutions.  Commission a Flood Risk Assessment.

NOTE: The executive summary is an overview of the key findings and conclusions of the report. There may be other information contained in the body of the main report which puts into context the information presented within the executive summary. No reliance should be placed on the executive summary.

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1 Introduction

1.1 Terms of Reference

Sutcliffe Investigations were instructed by Ridge and Partners LLP to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as Gaywood Green Tower Blocks, Kirkby.

1.2 Legislative Context

The presence of contaminants which may pose a risk to human health and / or the environment is a planning consideration. As part of the planning regime, it needs to be considered whether the site is “suitable for its proposed end use”. Planning is concerned with the site’s proposed end use, not its current use, where the amount of contamination is required to be low relative to the level of risk.

Section 57 of the Environment Act 1995 adds Part 2A (ss. 78A to 18YC) to the Environmental Protection Act 1990 and contains the legislative framework for identifying and dealing with contaminated land. Where development is undertaken on land which may be affected by contamination, the National Planning Policy Framework, paragraph 120 to 122 considers pollution and remediation. This links the contaminated land regime within the development process.

For there to be a significant risk requiring further investigation a perceived source (contaminant), a receptor (humans, living organisms or property) and a pathway between them must all be present, resulting in a complete contaminant linkage.

In order to assess whether this is the case, background research is required to obtain relevant information about the site and its surroundings and to assess the findings qualitatively. The scope of the assessment examined whether there is the potential for current and historic soil and/or groundwater contamination to be present, both at and in the vicinity of the site, and to assess significance in terms of the potential to pose a risk to human health, controlled waters, building infrastructure and the wider environment and identify any associated potential liabilities.

Part 2A of the Environmental Protection Act 1990 (“Part 2A”) provides the legislative framework for the contaminated land regime in England, Wales and Scotland. It provides for contaminated land to be identified and dealt with in a risk-based manner. The Contaminated Land (England) Regulations 2006 (SI 2006/1380) set out provisions for procedural matters under Part 2A. The 2006 regulations have recently been modified with the introduction of The Contaminated Land (England) (Amendment) Regulations 2012, which came into force on 6th April 2012. This includes an amendment to Regulation 3(c) to take account of the updated definition of “controlled waters” in Section 78A(9) of the Environmental Protection Act 1990. Section 78A(2) of Part 2A of the EPA 1990 defines contaminated land as “land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

-  significant harm is being caused or there is a significant possibility of such harm being caused; or
-  pollution of controlled waters is being or is likely to be caused.

Contaminated Land Statutory Guidance published in April 2012 provides for a new four category test which is intended to clarify when land does or does not need to be remediated, where Category 1 is deemed as being high risk and Category 4 as being low risk.

1.3 Previous Studies

Sutcliffe are not aware any previous environmental or geotechnical investigations having been completed on site.

1.4 Objectives & Scope of Assessment

The Phase 1 PRA is required to assess the ground based environmental and geotechnical risks, development constraints and liabilities associated with the development of the site, required in support of an application for outline planning.

This report will inform the study of any potential contaminated land issues to be identified, assessed and actioned and has been designed to provide sufficient information to satisfy the requirements of National Planning Policy Framework (NPPF) in order to satisfy the aims and objectives of the project.

The report will culminate in the presentation of a Preliminary Conceptual Site Model (CSM) and will include clear robust recommendations for any additional works. These works will be designed to fully assess and mitigate risks, development constraints and abnormalities that may be required in support of a detailed planning application and design of detailed foundation options.

This report constitutes a preliminary investigation as defined in BS10175 and contains the following:

-  Summary of the information obtained from an Envirocheck Report (Report Ref.: 305765557_1_1), which is presented in Appendix A.
-  A preliminary risk assessment of potential environmental risks associated with the proposed redevelopment of the site to identified receptors, following the methodology of Land contamination risk management (LCRM) and their recommendations on contamination reports.
-  Recommendations for further investigation/actions if required.

The scope of works was to undertake a Phase I PRA using available information, and to place the site in its environmental context and has included the following:

-  A review of available historic maps to determine the land-use history in the context of potentially contaminative activities;
-  A review of environmental data relating to the site and its surroundings using a proprietary third-party environmental database;
-  Desk-based assessment of site geology, hydrogeology and hydrology from published mapping and web-based sources to determine the site's environmental setting and sensitivity;

-  A web-based search of the Environment Agency (EA) website and other freely available sources of information to identify any potential issues relating to the site and surrounding areas; and
-  Provision of a qualitative contaminated land risk assessment based on Source-Pathway-Receptor as per current best practice contained in LCRM.

A site inspection was undertaken by a Sutcliffe engineer – Michael Wiggins, on the 16th January 2023. No sampling or testing of soils or waters will be undertaken as part of this environmental review. All other information in this report has been obtained via public sources.

2 Environmental Review

2.1 Introduction

The information presented within this chapter was compiled based on a site inspection, completed by a suitably qualified Sutcliffe Engineer, and a review of an Envirocheck Report (Report Reference: 305765557_1_1), presented in Appendix A.

2.2 Site Location & Setting

The site address is located at Gaywood Green, Kirkby, Liverpool, L32 6QT at National Grid Reference (NGR) 341810, 397660 and is approximately 9.1km north-east from Liverpool City Centre.

Location plans of varying scales are presented as *Figures 1 & 2* and an Aerial Photograph is presented as *Figure 3*.

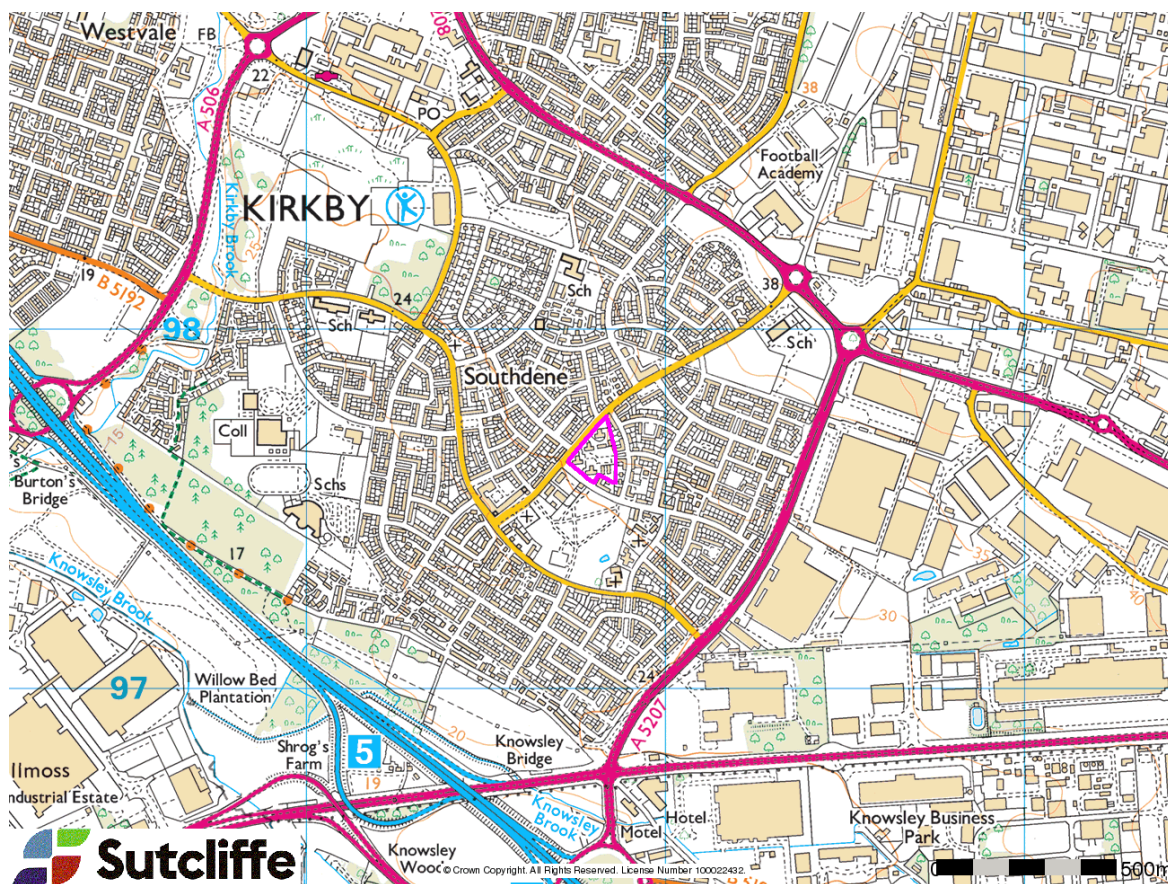


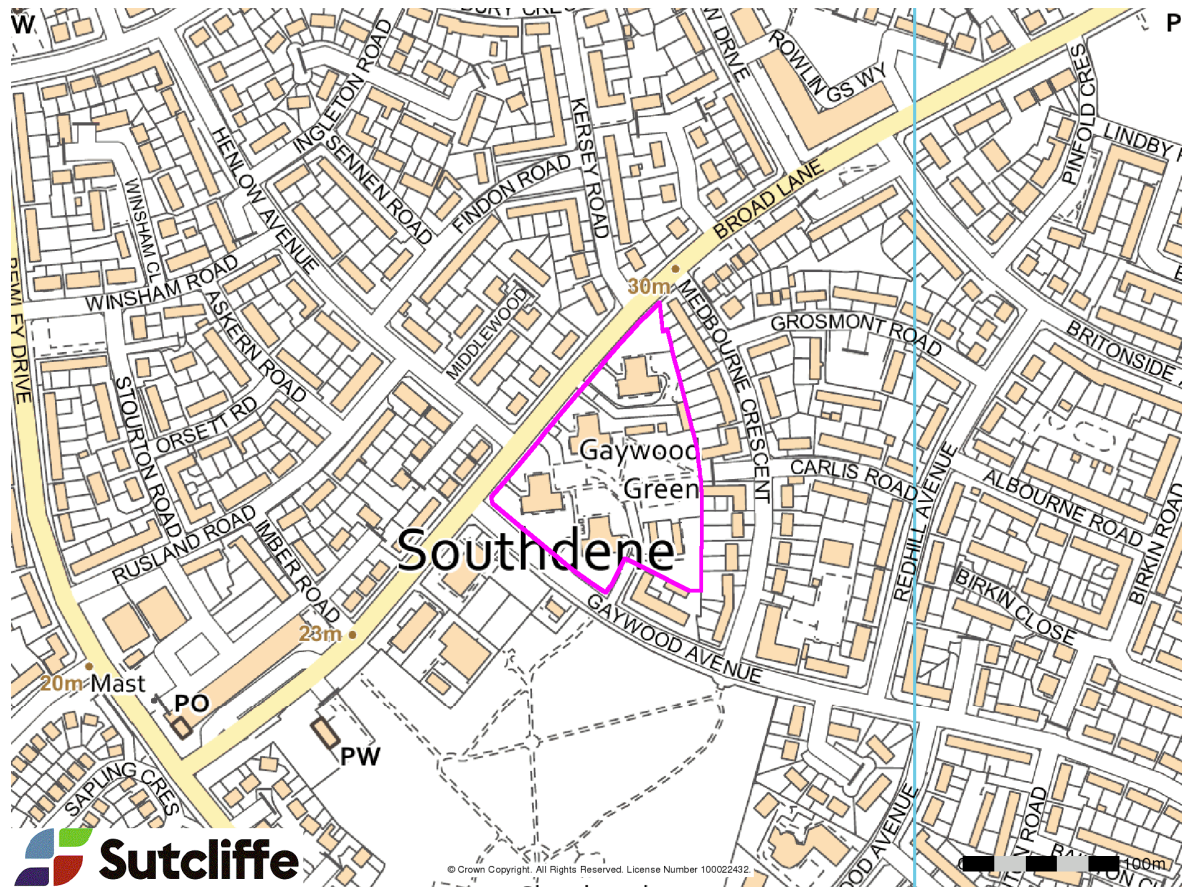
Figure 1: General Location of Site

2.3 Site Description & Walkover

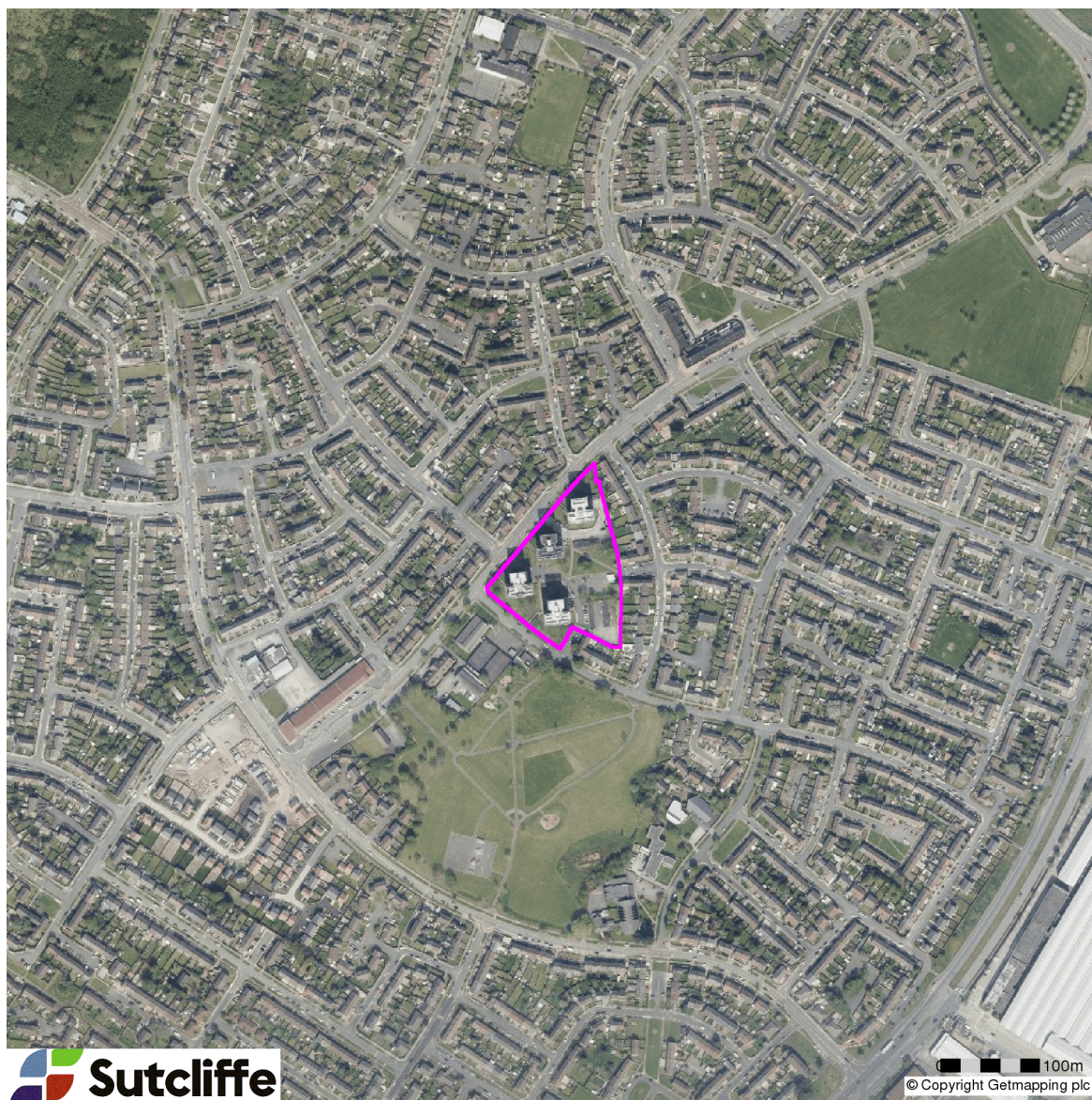
The site is roughly triangular in shape, 1.44ha in area and can be accessed via Gaywood Avenue and Broad Lane to the south and west of the site respectively.

The site has variable topography and comprises four tower blocks with associated rows of garages and hardstanding used for vehicle parking and footpaths. The rest of the site is covered by grass and trees are dotted throughout the site. A 1m tall brick wall with metal

fencing on top is noted to mark the site's north-western and south-western boundaries, as well as within the site. A photographic log of the site is presented as Appendix B.



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Figure 2: General Site Layout



2.4 Adjacent Land Uses

Table 2.1 summarises the adjacent land uses.

Table 2.1: Adjacent Land Uses

Direction	Adjacent Land Use
North	Residential
East	Residential
South	Park
South-west	Community Centre
West	Residential

2.5 Services

Electric

Multiple high voltage, low-voltage and non-power cables are noted on site located predominantly in the western half of the site.

Gas

LP mains enter the western sections of the site. LP mains also potentially encroach onto the site along the south-western boundary. LP mains are also noted immediately east of the site.

Drainage

According to the UU Water Mains Records, water mains are noted on-site and off-site adjacent to the site's north-western and south-western boundaries.

According to the UU Sewer Records, no sewer mains are noted on-site. Foul sewer mains are noted off-site adjacent to the site's north-western and south-western boundaries.

BT

BT cables enter the site from the west and connect to all four tower blocks located on-site.

BT cables and boxes border the site to the north-east, south-west and north-west.

Underground Pipelines and Transmission Assets

A search of the Linesearch database was undertaken on 12th January 2023. This database lists pipelines owned and/or operated by over 40No. pipeline and transmission operators, but not all operators are registered.

According to the database, there are 2No. underground pipelines or transmission assets on the site or within a 25m search radius, these relate to Cadent Gas and SP Energy Networks.

Service plans will be presented in Appendix C.

2.6 Site History

Historical maps were obtained and reviewed by Sutcliffe Investigations to determine the historical development of the target site. These are presented in Appendix A. This enabled an assessment to be made of the potential for contamination associated with former activities, both on-site and in the surrounding areas.

Onsite

The earliest available historical map (1850) shows the site to comprise mainly farmland with part of a woodland area known as Wignall's Plantation located in the southern end of the site. No significant changes occur until the 1960 – 1961 mapping when the farmland and

woodland are no longer mapped on-site. By 1974 the site comprises four tower blocks with associated rows of garages, and the site has also been labelled 'Gaywood Green'.

Aerial photography dated 2001 shows the tower blocks and garages, and the site is predominantly covered by grass with trees dotted throughout. No other significant changes or features are noted on-site from the available historical maps.

A detailed review of the historical development of the site is presented in Appendix D.

Offsite

The earliest available historical map (1850) shows the surrounding area of the site to primordially comprise of largely farmland with sporadic dwellings and Wignall's Plantation immediately south of the site. Road Lane is 10m west of the site, a stream is noted 50m south of the site and a gravel pit is noted 165m east of the site. Ponds are noted 215m south-west, 220m south-west, and 250m south-west of the site, however these ponds are no longer mapped by 1893.

By 1908 the gravel pit noted 165m east of the site is no longer mapped. No significant changes occur until the 1960 – 1961 mapping when farmland is no longer mapped and significant residential expansion is noted in the surrounding areas of the site, with residential properties being noted immediately north, east and west of the site. Wignall's Plantation and the stream noted south of the site are also no longer mapped and are replaced by Gaywood Avenue and a park noted immediately south of the site and a clinic noted 80m south-west of the site. Factories are noted 525m south-east, 570m east, 585m south-east of the site.

By 1974 residential properties are noted immediately south of the site and an electricity sub-station is noted 25m south-west of the site. By 1999 residential properties noted 25m west of the site are no longer mapped but are replaced by new residential properties by 2006. No other significant changes or features are noted off-site from the available historical maps.

A detailed review of the historical development of the surrounding land uses is presented in Appendix D.

2.7 Environmental Database

A commercial database search (provided by Envirocheck) was obtained to provide further information regarding the site and the surroundings. Relevant information and records are summarised below:

Contaminated Land Entries

The database has no contaminated land entries within 500m of the site.

Environmental Permitted Activities

According to the database there are no current Local Authority Integrated Pollution Prevention and Controls and no Local Authority Pollution Prevention and Controls within 500m of the site.

Hazardous Substances Sites

According to the database, there are no Control of Major Accident Hazards (COMAH) registered sites, no Planning Hazardous Substances Consents and no records of Notification of Installations Handling Hazardous Substances (NIHHS) sites within 500m of the site.

Substantiated Pollution Incident Register

According to the database, there no substantiated pollution incidents within 500m of the site.

Landfill Sites

According to the Envirocheck Report there are;

-  No Registered Landfill sites within 500m of the site.
-  No Historic Landfill sites within 500m of the site.
-  No BGS Recorded Landfill sites within 500m of the site.
-  No Local Authority Recorded Landfill sites within 500m of the site.

Infilled Land

There is 1No. record of Potentially Infilled Land (Non-Water) within 500m of the site. It is noted 181m east of the site, relates to Unknown Filled Ground (Pit, quarry etc), and was mapped in 1990.

There are 10No. records of Potentially Infilled Land (Water) within 500m of the site, with 3No. records within 250m provided hereunder:

Table 2.2: Infilled Land (Water)

Distance / Direction (<250m)	Use	Year
224m S	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1850
226m SW	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1850
228m SW	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1850

Waste Management Facilities

The database has recorded no Registered Waste Transfer Sites, no Registered Waste Treatment or Disposal Sites, and no Licensed Waste Management Facilities within 500m of the site.

Radioactive Materials

According to the Envirocheck Report there are no authorisations for radioactive substances within 500m of the site.

Fuel Stations

According to the database there are no petrol or fuel station entries within 500m of the site.

Contemporary Industrial Land Uses

According to the database there are 5No. entries located within 500m of the site, the details of which are provided hereunder:

Table 2.2: Contemporary Industrial Land Uses

Distance / Direction (<500m)	Name	Classification	Status
304m SE	J K Cleaning	Cleaning Services - Domestic	Inactive
323m N	George Boyd	French Polishing	Inactive
342m W	Impressed Ironing	Ironing & Home Laundry Services	Active
372m NE	Smart Stairlifts	Stairlifts - Manufacturers & Installers	Inactive
480m W	Squeaky Clean	Cleaning Services - Domestic	Inactive

2.8 Historical Contamination Potential

Site

Historical maps have indicated that the site was mostly farmland and woodland in the southern end of the site. Tower blocks and garages appear on-site from at least 1974 to present day.

With the exception of made ground, associated with the current usage of the site, potentially being present on-site, the potential for significant contamination to have arisen at the site as a result of the current and former usage on site is considered to be low. However, the possibility of contamination albeit likely to be localised cannot be discounted.

Surrounding Area

No identifiable significant potentially contaminative activities were identified as having taken place in the immediate surrounding area.

Therefore, the potential for off-site sources of contamination to impact the site is considered low.

3 Environmental Setting

3.1 Introduction

Desk-based research of the local geology, hydrogeology, hydrology and ecology was carried out in order to establish the potential for migration of contamination onto or away from the site, and to assess the surface water and groundwater sensitivity of the surrounding area. Information was obtained from a number of sources, namely:

-  Inspection of the British Geological Survey (BGS) GeoIndex Onshore Viewer;
-  Inspection of the MAGIC interactive map service;
-  A review of online web-based information searches;
-  A review of previous site investigation reports pertaining to the site; and,
-  A review of publicly available information.

3.2 Soils Chemistry

The environmental database also presents an estimation of the rural background soil chemistry within the site area.

Table 3.1: Soil Chemistry

Contaminant	Concentration (mg/kg)
Arsenic	15 – 25
Cadmium	<1.8
Chromium	60 – 90
Lead	100 – 200
Nickel	15 – 30

Reference to the data presented suggests that the majority of metals concentrations are generally anticipated to be below current Tier 1 Assessment Criteria in relation to human health effects.

3.3 Geology

According to the BGS GeoIndex Onshore Viewer and the relevant British Geological Survey (BGS) Solid and Drift Sheets 084 Wigan (2013) at a scale of 1:50,000 the following geological succession has been identified (Appendix A).

Artificial Ground

There are no records of any artificial ground on-site. There is one record of artificial ground within 500m of the site, it is noted 490m east of the site and noted as Made Ground.

Superficial Geology

There are no records of any superficial drift deposits on-site. Devensian Till, clay-dominated deposits with sand, gravel and cobbles, is noted 43m south-west of the site. Shirdley Hill Sand Formation – Sand is also noted 44m west of the site.

Solid Geology

The solid geology for the site is noted as Chester Formation – Sandstone.

Table 3.2: Geology Summary

Strata	Description	Soil / Rock Type
Artificial Ground	No records on-site	N/a
Drift	No records on-site	N/a
Solid	Chester Formation	Sandstone

Faults

No faults have been identified within the development site boundary or within 500m of the site. No action is required in respect to foundation design.

British Geological Society (BGS) Logs / Records

The nearest BGS historical borehole record is located 685m south-west of the site and has the reference: SJ49NW4.

Six boreholes were undertaken and consist of topsoil from ground level to 0.3 – 1.4m bgl, followed by red sand/clay to 1.7 – 5.3m bgl. At depths beyond the red sand/clay, rock is encountered and the boreholes terminate. These records of shallow bedrock is in keeping with the lack of a superficial deposit shown in BGS Geology Map provided in the Envirocheck Report. No groundwater is recorded in any of the logs.

There are no BGS Recorded Mineral sites within 500m of the site.

Ground Stability

Table 3.3 below summarises the natural hazards information presented in the Envirocheck Report.

Table 3.3: Potential Natural Hazards

Natural Hazard	Hazard Potential
Shrink - Swell Clays	No Hazard
Landslides	Very Low
Soluble Rocks	No Hazard
Compressible Deposits	No Hazard
Collapsible Deposits	Very Low
Running Sands	Low

3.4 Coal Mining & Brine Subsidence

The site is not within a coal mining area. No further action is required to assess the risks associated with coal mining assets.

3.5 Radon

According to the Envirocheck Report, the site is in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). No radon protection measures are necessary in the construction of new dwellings or extensions.

3.6 Hydrogeology

Groundwater protection policy uses aquifer designations that are consistent with the Water Framework Directive.

These designations reflect the importance of aquifers not only in terms of groundwater as a resource (drinking water supply) but also their role in supporting surface water flows and wetland ecosystems.

Types of aquifer designations are presented in *Table 3.4*, with the designations assigned to the underlying strata of the site in *Table 3.5* hereunder:

Table 3.4: Aquifer Designations

Designation	Description
Principal Aquifer	Layers of rock or drift deposits that have high intergranular and / or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and / or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifer.
Secondary A Aquifer	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formally classified as minor aquifers.
Secondary B Aquifer	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.
Secondary (Undifferentiated) Aquifer	Cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.
Unproductive Aquifer	Rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

Table 3.5: Hydrogeology Summary

Strata	Description	Soil / Rock Type	Designation
Bedrock	Chester Formation	Sandstone	Principal Aquifer

A Secondary A Aquifer representing Superficial Strata has been included within the Envirocheck Report, however due to this aquifer occupying an insignificant area in the western corner of the site, the aquifer is unimportant in terms of groundwater as a resource (drinking water supply) and in supporting surface water flows.

The Envirocheck Report indicates that the site is located within a Groundwater Source Protection Zone III (SPZ).

There are no groundwater abstraction points within 500m of the site.

3.7 Hydrology

The following is also of note:

-  The nearest surface water feature is noted 204m south of the site and relates to a pond.
-  There are no recorded pollution incidents to controlled waters listed in the Envirocheck Report within 500m of the site.
-  There are no surface water abstractions within 500m of the site.
-  There are no biological or chemical quality records noted within 500m of the site.

3.8 Flood Risk

According to the Envirocheck Report the site is not within 250m of an area at risk from extreme flooding from rivers or sea without defences.

According to the BGS Flood GFS Data map, the site is situated within an area that is considered to have a 'Limited Potential for Groundwater Flooding to Occur'.

The site is at low risk of flooding from surface water.

As the site is greater than 1ha, a Flood Risk Assessment (FRA) is required.

3.9 Sensitive Land Uses

Ecological Receptors

According to the Envirocheck database, there is only 1No. Sensitive Land Use within 500m of the site. It relates to the site being located within a Nitrate Sensitive Area.

Significance of Environmental Setting

The significance of the environmental setting is considered by Sutcliffe Investigations to be as follows:

Table 3.6: Environmental Setting Summary

Environmental Setting	Sensitivity	Rationale
Groundwater	Moderate – High	The site is situated in an area of moderate-high sensitivity with respect to groundwater resources due to the absence of a superficial aquifer and the presence of a Principal Aquifer underlying the site. However, this sensitivity is reduced by the absence of any abstractions (sensitive or otherwise) within the immediate vicinity of the site.
Surface Water	Low	With respect to surface water resources, the site is considered to be located in a low sensitivity setting.
Flood Risk	Low – Moderate	As the site is greater than 1ha, a Flood Risk Assessment (FRA) is required.

Environmental Setting	Sensitivity	Rationale
Sensitive Land Uses	Low	With respect to sensitive land uses such as protected habitats, protected sites, protected buildings and sensitive receptors, the site is considered to be located in a low sensitive setting.

4 Preliminary Qualitative Risk Assessment

4.1 Preliminary Conceptual Site Model (CSM)

A conceptual model is an essential element of any site-specific environmental risk assessment. In this context, they are often simple representations of the hypothesised relationships between sources, pathways and receptors.

For the purpose of this report, a basic conceptual model has been developed based on the principles of LCRM and interpretation of information gathered during the Phase I review. Thus, this allows the identification of potential contaminant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site.

Based on this interpretation, the implications for potential liability associated with soil or water contamination at the site can be evaluated.

 **SOURCES** – the identification of contaminants within the soils and groundwater that represent potential pollution sources;

 **PATHWAYS** – the identification of the potential exposure mechanisms and migration pathways from the potential sources; and

 **RECEPTORS** – the identification of the potential receptors that could be sensitive to harm if exposed to these pollution sources.

Collectively, each of these scenarios would be considered a potential pollutant linkage that may require further assessment.

A preliminary conceptual model is presented below (*Table 4.5*) in accordance with the guidance outlined within LCRM.

4.2 Identification of Potential Sources

Based on the information from the desk study, historical maps, published information, and a site walkover a summary of potential contaminant sources is provided in *Table 4.1*.

Table 4.1: Potential Sources

Ref.	Potential Sources	Potential Contaminants
S1 (On-site)	Current residential developments and garages	All metals, hydrocarbons, PAHs, TPHs, oils and localised ground gas.

No significant off-site sources that would represent a risk to the site have been identified in the immediate surroundings as part of this PRA, given the surrounding area is primarily residential housing.

S1 (On-site)

Made Ground associated with the existing structure is anticipated below site. By its nature, Made Ground can contain a wide range of potentially contaminated material which may also generate leachate.

Vehicle parking is evident on-site associated with the current rows of garages. As such, hydrocarbons, PAHs and TPHs could have been introduced to the site via leaking of vehicles parked on-site which may pose a risk to human health. A vapour risk may also be present, dependent on the volume of hydrocarbons present. Any such leaks / spills are anticipated to be relatively minor / small in scale.

4.3 Potential Exposure Pathways

Exposure pathways are the potential routes and mechanisms by which potential on-site sources could be linked to the identified potential receptors and thereby expose them to potential harm.

The following potential exposure pathways have been identified at the site:

Table 4.2: Potential Exposure Pathways

Ref.	Pathway	Description
P1	Direct contact with potential contaminants.	Dermal absorption, ingestion and inhalation of contaminants via direct contact. Construction workers may come into contact during the site works, however this will be for a short time and therefore limited exposure will occur. PPE can be used and worn as a precaution to reduce the risk.
P2	Ingestion of potential contaminants.	
P3	Inhalation of potential contaminants.	
P4	Leaching and migration of contaminants.	Leaching of possible contaminants could migrate into the underlying Principal Aquifer via shallow groundwater. On site drainage is also at risk from shallow contamination, if present.
P5	Vertical and lateral migration of ground gases / vapours.	There is the potential for contaminants to be present on the site, which could generate ground gas & vapours on site.

P1 – P3 (Direct contact)

If soft landscaping is planned within the proposed development, and Made Ground containing contaminative material is present on-site, human health risks to future site users may be present if such Made Ground is left in situ in the planned soft landscaped areas.

P4 (Leaching & Migration)

Made Ground as previously discussed within section S1 may contain potentially leachable contaminants.

Historic hydrocarbon spills from the garages on-site are considered possible which could migrate, however, volumes anticipated would be unlikely to be significant to impact controlled waters.

Groundwater on-site is anticipated to be a water table, and in hydraulic conductivity with the underlying Bedrock Aquifer due to the anticipated absence of a superficial aquifer. As such downward migration of any potential leachates generated is envisioned.

Lateral migration of any leachates generated may be possible, percolating rainwater has the potential to migrate laterally through the shallow bedrock principal aquifer.

P5 (Migration of ground gas / vapours)

Made Ground thicknesses are expected to be relatively limited given the development present on-site. As such, it is considered unlikely that a thickness of Made Ground capable of generating significant thickness of permanent gases will be present, and consequently the risks to human health from permanent gases generated on-site is considered to be low.

While the potential for hydrocarbon contamination on site is thought possible, volumes expected are anticipated to be relatively low, and as such are considered unlikely to pose a viable human health risk from any vapours released for future site users.

4.4 Potential Receptors

Based on the site's environmental setting and the proposed future end use of the area following redevelopment, the following potential receptors have been identified:

Table 4.3: Potential Receptors

Ref.	Receptor	Description
R1	Current & future site users	Site users; personnel, general workers and maintenance workers,
R2	Construction Workers	Contractors working on the development of the site. Construction workers, maintenance workers or other personnel who may be directly exposed to contaminated materials in the course of their activities).
R3	Controlled Waters	Principal Aquifer and on-site drainage
R4	Adjacent Site Users	Adjacent site users. Third-party land (<i>i.e.</i> the possibility of contamination migrating off-site onto third party land <i>via</i> contaminated groundwater, surface water run-off).
R5	Infrastructure / Buried services	Proposed buildings and buried services

NOTE: ground workers (i.e. If the site were redeveloped, any associated activities may bring site personnel and construction workers into contact with potentially contaminative materials, however, it is considered that the risks to workers will be short term and could be controlled by safe working procedures.

4.5 Potential Contaminant Linkages

In order for there to be a plausible contaminant linkage there must be a source, receptor and pathway and a feasible linkage between them (a contaminant linkage).

Consequently, even where a contaminant is identified, if there is no pathway for the contamination to reach a receptor, or no receptor then there can be no significant risk and remedial actions are not required.

Central to this risk assessment process is the development of a 'conceptual model'. This is a descriptive and/or pictorial representation of the area of potential contamination, the surrounding environment and the processes acting on the contaminants by which they can move and come into contact with receptors (*e.g.* by leaching and migration into groundwater).

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

Therefore, in order to assess risk both the likelihood and the consequences of an event must be taken into account.

This report adopts the methodology for risk evaluation presented in CIRIA report C552 'Contaminated Land Risk Assessment – A Guide to Good Practice', 2001.

The method is qualitative and involves the classification of the following:

-  The magnitude of the potential severity or consequence of the risk occurring (*Table 4.4*);
-  The magnitude of the likelihood or probability of the risk occurring (*Table 4.5*);
-  Once the likelihood of an event occurring and its severity have been classified, a risk category can be assigned (*Table 4.6*).

Table 4.4: Classification of consequence

Classification	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters.
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species, significant damage to buildings or structures.
Mild	Pollution of non-sensitive waters, minor damage to buildings or structures.
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non-sensitive ecosystems or species.

Table 4.5: Classification of Probability

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

Table 4.6: Risk Assessment Matrix

Consequence				Probability
Severe	Medium	Mild	Minor	
Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk	
High Risk	Moderate Risk	Moderate / Low Risk	Low Risk	
Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk	
Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk	Unlikely

Consequence					
Severe	Medium	Mild	Minor		
Low Risk	Very Low Risk	Very Low Risk	Very Low Risk	Negligible Likelihood	

Sutcliffe has devised a conceptual model based on the information obtained to date through the desk-based study and future residential usage of the site. This is detailed in tabular format in *Table 4.7* and pictorially in *Figure 4*.

Table 4.7: Preliminary Risk Evaluation of Potential Contaminant Linkages

1. Hazard Identification		2. Hazard Assessment				3. Risk Estimation		4. Risk Evaluation	5. Action required
Contaminant Source		Pathway		Receptor		Consequence	Probability	Classification	
S1	Made Ground / Hydrocarbon Spills	P1	Direct contact with potential contaminants.	R1/2	Site users	Medium	Low	Moderate / Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard. Investigation is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
		P2	Ingestion of potential contaminants.	R1/2	Site users	Medium	Low	Moderate / Low Risk	
		P3	Inhalation of potential contaminants.	R1/2	Site users	Severe	Low	Moderate Risk	
		P4	Leaching and migration of contaminants.	R3/5	Principal Aquifer	Medium	Likely	Moderate Risk	
		P5	Vertical and lateral migration of ground gases / vapours.	R1	Site users	Severe	Unlikely	Moderate / Low Risk	
				R4	Property	Severe	Unlikely	Moderate / Low Risk	

5 Conclusions & Recommendations

5.1 Introduction

Sutcliffe Investigations were instructed by Ridge and Partners LLP, to provide a Phase I PRA report. The purpose of the report is to generate preliminary environmental assessment data for submission with an outline planning application for redevelopment of the site.

This comprised a review of the Phase I PRA data, collection of environmental information and reports undertaken on the site.

5.2 Environmental Risk Assessment Findings

The site is roughly triangular in shape and is bordered by residential properties to the north, east and west, and a community centre and park to the south. The site currently consists of tower blocks, garages, tarmacked hardstanding and grass areas. The development history of the site has not identified a significant source of environmental concern, and information contained within the environmental database has not highlighted any major concerns. The site is underlain by a Principal Aquifer for the bedrock.

Taking the above into account, it is considered that there is a low potential for significant contamination to be present, however it is considered that localised contamination that may represent a risk to long term human health and also with the potential for leaching of contaminants into controlled waters may be present. Consequently, the environmental risk setting for the site is considered to be low.

5.3 Classification & Land Use Risk

Historical maps initially indicate that off-site the surrounding land comprised fields, Wignall's Plantation and a few houses. Over time the surrounding land was increasingly built up with residential properties in all surrounding areas of the site.

The classification of risk is as follows:

Table 5.1: Land Use Risk Classification

Class	Description
Class 1	Potential for High levels of contamination and migration of contamination off the site.
Class 2	Potential for Medium levels of contamination and migration of contamination off site.
Class 3	Potential for Low levels of contamination and migration of contamination off site.
Class 4	Potential for limited contamination.

The Phase I PRA has not highlighted significant areas of concern and therefore, the site is deemed to be Class 3 – Low Risk.

5.4 Geotechnical Uncertainty

The site has not been subject to previous development and therefore, the potential for relic foundations and obstructions is unlikely. Trees are noted on-site and therefore tree heave protection measures may be required.

5.5 Conclusions & Recommendations

Based on the findings of the Phase I PRA review, Sutcliffe Investigations do not consider there to be any identifiable significant environmental issues regarding the site. However, there is limited information of the ground for geotechnical properties and as such we would therefore recommend the following sequential works are undertaken:

-  Submission of this Phase I PRA Report for the benefit of validating the outline planning application.
-  Commission a Phase II Ground Investigation designed to discharge any contaminated land conditions that may be assigned to the site and allow the design of economic foundation solutions.
-  Commission a Flood Risk Assessment.

Appendix A – Envirocheck Report (Report Reference: 305765557_1_1)

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

305765557_1_1

Customer Reference:

32996LG

National Grid Reference:

341810, 397660

Slice:

A

Site Area (Ha):

1.44

Search Buffer (m):

1000

Site Details:

Gaywood Green Tower Blocks

Kirkby

Liverpool

L32 6QT

Client Details:

MR W Baldwin

Sutcliffe Projects Ltd

18-20 Harrington Street

Liverpool

L2 9QA

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	17
Hazardous Substances	21
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Industrial Land Use	27
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes		n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				2
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 1				6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3				4
Local Authority Pollution Prevention and Control Enforcements	pg 4				2
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 4				20
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 7				1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 7				2
Water Abstractions	pg 8				6 (*19)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones	pg 14	1			1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 15				14

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 17				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 17				1
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 17				1
Potentially Infilled Land (Non-Water)	pg 17		1		3
Potentially Infilled Land (Water)	pg 18		3	7	30
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 21				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 22	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 22	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 25				3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 25	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 25	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 27			5	66
Fuel Station Entries	pg 33				1
Points of Interest - Commercial Services	pg 33			1	13
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 34			1	25
Points of Interest - Public Infrastructure	pg 37				12
Points of Interest - Recreational and Environmental	pg 38		3	3	6
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 40				1
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 40	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	0	1	341813 397655
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	229	1	341650 397400
1	Discharge Consents Operator: Liverpool Corporation Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Kirkby Trading Estate Stp, Kirkby, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01m/544 Permit Version: 1 Effective Date: 26th March 1993 Issued Date: Not Supplied Revocation Date: 26th March 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Mersey Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	760	2	342000 398500
2	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: East Lancashire Road, Kirkby, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016932048 Permit Version: 1 Effective Date: 28th July 1986 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Knowsley Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8SW (S)	829	2	341560 396780
3	Integrated Pollution Prevention And Control Name: Dairy Crest Limited Location: Kirkby Creamery - Epr/Vp3234nx, Kirkby Creamery, Moorgate Road, Kirkby,, Liverpool, L33 7XW Authority: Environment Agency, North West Region Permit Reference: MP3706PH Original Permit Ref: Vp3234nx Effective Date: 12th July 2019 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 6.8 A(1) d) (iii) Activity Description: CREATED BY IED - TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ANIMAL OR VEGETABLE RAW MATERIALS (OTHER THAN MILK ONLY) WITH FINISHED PRODUCT CAPACITY GREATER THAN FORMULA SHOWN IN REGS Primary Activity: Y Activity Code: 5.4 A(1) (a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N	A9NW (SE)	635	2	342190 397030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Integrated Pollution Prevention And Control Name: Dairy Crest Limited Location: Kirkby Creamery - Epr/Vp3234nx, Kirkby Creamery, Moorgate Road, Kirkby,, Liverpool, L33 7XW Authority: Environment Agency, North West Region Permit Reference: AP3332JL Original Permit Ref: Vp3234nx Effective Date: 14th May 2018 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 6.8 A(1) d) (iii) Activity Description: CREATED BY IED - TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ANIMAL OR VEGETABLE RAW MATERIALS (OTHER THAN MILK ONLY) WITH FINISHED PRODUCT CAPACITY GREATER THAN FORMULA SHOWN IN REGS Primary Activity: Y Activity Code: 5.4 A(1) (a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N	A9NW (SE)	635	2	342190 397030
3	Integrated Pollution Prevention And Control Name: Dairy Crest Limited Location: Kirkby Creamery, Dairy Crest Ltd, Moorgate Road, Kirkby,, Liverpool, Merseyside, L33 7XW Authority: Environment Agency, North West Region Permit Reference: VP3234NX Original Permit Ref: Vp3234nx Effective Date: 2nd June 2014 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) d) (iii) Activity Description: CREATED BY IED - TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ANIMAL OR VEGETABLE RAW MATERIALS (OTHER THAN MILK ONLY) WITH FINISHED PRODUCT CAPACITY GREATER THAN FORMULA SHOWN IN REGS Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.4 A(1) (a) (ii) Activity Description: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Primary Activity: N	A9NW (SE)	635	2	342190 397030
4	Integrated Pollution Prevention And Control Name: Factory Services Uk Ltd Location: Knowsley Feed Mill - Epr/Lp3837fx, Deacon Park, Moorgate Road,, Knowsley Industrial Park, LIVERPOOL, Merseyside, L33 7RX Authority: Environment Agency, North West Region Permit Reference: JP3008MA Original Permit Ref: Lp3837fx Effective Date: 13th September 2022 Status: Effective Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A15SW (E)	969	2	342830 397510

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Integrated Pollution Prevention And Control Name: Factory Services Uk Ltd Location: Knowsley Feed Mill, Deacon Park, Moorgate Road,,Knowsley Industrial Park, LIVERPOOL, Merseyside, L33 7RX Authority: Environment Agency, North West Region Permit Reference: MP3809PA Original Permit Ref: Lp3837fx Effective Date: 6th November 2019 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A15SW (E)	969	2	342830 397510
4	Integrated Pollution Prevention And Control Name: Factory Services Uk Ltd Location: Knowsley Feed Mill - Epr/Lp3837fx, Deacon Park, Moorgate Road,,Knowsley Industrial Park, LIVERPOOL, Merseyside, L33 7RX Authority: Environment Agency, North West Region Permit Reference: LP3837FX Original Permit Ref: Lp3837fx Effective Date: 4th May 2012 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A15SW (E)	969	2	342830 397510
5	Local Authority Pollution Prevention and Controls Name: Otis Plc Location: Liverpool Works, Moorgate Road, LIVERPOOL, Merseyside, L33 7XW Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B3/0992/6.5/05 Dated: 1st September 1992 Process Type: Local Authority Air Pollution Control Description: PG6/23 Coating of metal and plastic Status: Authorised Positional Accuracy: Automatically positioned to the address	A9NW (SE)	606	3	342352 397216
6	Local Authority Pollution Prevention and Controls Name: Delco Electronics Location: Moorgate Road, LIVERPOOL, Merseyside, L33 7XL Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B2/0392/2.2/07 Dated: 1st March 1992 Process Type: Local Authority Air Pollution Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A14SW (E)	610	3	342462 397460
7	Local Authority Pollution Prevention and Controls Name: Finesse Designs Location: Dixon Road, Knowsley Industrial Park, KIRKBY, L33 7XP Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/1203/6.4/2 Dated: 1st September 2004 Process Type: Local Authority Pollution Prevention and Control Description: PG6/33 Wood coating Status: Authorisation revoked Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	842	3	342644 397997
8	Local Authority Pollution Prevention and Controls Name: Product Release Ltd Location: Cusson Road, Knowsley Industrial Park, LIVERPOOL, Merseyside, L33 7BY Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/0993/6.4/5 Dated: 17th May 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Permitted Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	950	3	342731 398078

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Local Authority Pollution Prevention and Control Enforcements Location: Cusson Road, Knowsley Industrial Park, LIVERPOOL, Merseyside, L33 7BY Type: Air Pollution Control Enforcement Notice Reference: B3/0992/6.5/01 Date Issued: 25th January 1994 Enforcement Date: Not Supplied Details: N/A Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	932	3	342710 398084
9	Local Authority Pollution Prevention and Control Enforcements Location: Cusson Road, Knowsley Industrial Park, Kirkby, L33 7ud Type: Air Pollution Control Enforcement Notice Reference: 04/01994/EPA Date Issued: 18th December 1995 Enforcement Date: Not Supplied Details: Section 13 Enforcement Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	950	3	342731 398078
	Nearest Surface Water Feature	A13SE (S)	204	-	341839 397371
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Chemicals - Other Organic Note: Knowsley Brook; Maize Starch Washing Incident Date: 14th August 1996 Incident Reference: 96440113 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Treatment System Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	504	2	342200 397200
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Other Organic Note: Knowsley Brook; Starch Incident Date: 29th January 1994 Incident Reference: 94440013 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Mechanical Failure Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	516	2	342300 397300
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Knowsley Brook; Starch Solution Incident Date: 19th August 1993 Incident Reference: 93450108 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	575	2	342300 397200
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Knowsley Brook Incident Date: 11th December 1992 Incident Reference: 92450030 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	641	2	342500 397500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Knowsley Brook Incident Date: 5th September 1994 Incident Reference: 94440125 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	775	2	341900 396800
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Knowsley Brook Incident Date: 1st November 1994 Incident Reference: 94440144 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	799	2	341600 396800
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Heating Oil Note: Not Supplied Incident Date: 17th September 1991 Incident Reference: 91440080 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	836	2	341200 398300
17	Pollution Incidents to Controlled Waters Property Type: Manufacturing: Other Manufacturing Location: Knowsley Industrial Estate Authority: Environment Agency, North West Region Pollutant: Contaminated Material : Water With Mixed-Contaminants Note: Not Supplied Incident Date: 19th March 1999 Incident Reference: 1883 Catchment Area: Knowsley Brook Receiving Water: River Stretch (Freshwater) Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	880	2	342000 396705
17	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: Knowsley Brook, School Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Other Note: Not Supplied Incident Date: 19th March 1999 Incident Reference: 1884 Catchment Area: Knowsley Brook Receiving Water: River Stretch (Freshwater) Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	881	2	342005 396705
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Not Given Note: Knowsley Brook Incident Date: 2nd July 1991 Incident Reference: 91440047 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	885	2	342000 396700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: School Lane, KNOWSLEY Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Other Note: Not Supplied Incident Date: 15th March 1999 Incident Reference: 1859 Catchment Area: Knowsley Brook Receiving Water: River Stretch (Freshwater) Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A8SE (S)	886	2	342005 396700
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Belltower Hotel, KNOWSLEY Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: Not Supplied Incident Reference: CE981307 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	890	2	342000 396695
17	Pollution Incidents to Controlled Waters Property Type: Industrial: Other Location: Knowsley le Outfall, School Lane , KNOWSLEY Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 7th September 1998 Incident Reference: CE980850 Catchment Area: Alt Receiving Water: Freshwater Stream/River Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	891	2	342005 396695
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Knowsley Brook Incident Date: 16th March 1994 Incident Reference: 94440035 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	896	2	341600 396700
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Colour Note: Knowsley Brook Incident Date: 13th August 1991 Incident Reference: 91440062 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	906	2	342100 396700
20	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Other Note: Knowsley Brook; Various Oil And Sewage Incident Date: 30th January 1995 Incident Reference: 95440021 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	924	2	341500 396700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Oils - Other Fuel Oil Note: River Alt; Heating Oil Incident Date: 22nd August 1996 Incident Reference: 96440122 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	945	2	340800 397800
22	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Blood And Offal Note: Knowsley Brook Incident Date: 13th November 1991 Incident Reference: 91440094 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	978	2	341700 396600
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Industrial Effluent Note: Knowsley Brook; Process Matter Incident Date: 23rd August 1993 Incident Reference: 93450109 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A3NE (S)	984	2	342000 396600
23	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Chemicals - Unknown Note: Knowsley Brook; Unknown Chemicals Incident Date: 29th May 1996 Incident Reference: 96440075 Catchment Area: Alt Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NE (S)	989	2	342000 396595
	River Quality Name: Knowsley Bk GQA Grade: River Quality C Reach: Qsl At Knowsley Stw (Old) To Croxteth Bk Estimated Distance (km): 2.2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8SW (SW)	817	2	341466 396829
24	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 31st August 2018 Incident Reference: 1648173 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Acids	A7NW (SW)	861	2	341013 397153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 6th May 2005 Incident Reference: 310446 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inert : Other	A9NE (SE)	983	2	342759 397170
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142r01 Permit Version: 2 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th June 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142r01 Permit Version: 2 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 13th June 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142r01 Permit Version: 1 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142r01 Permit Version: 1 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142 Permit Version: 1 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930
26	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 2569031142 Permit Version: 1 Location: Land @ Dairy Crest, Kirkby Authority: Environment Agency, North West Region Abstraction: Dairies: 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	808	2	342350 396930
	Water Abstractions Operator: Liverpool Football Club Soccer Academy Licence Number: 2569031131 Permit Version: 1 Location: Borehole B At Kirkby Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1024	2	342460 398570
	Water Abstractions Operator: Liverpool Football Club Soccer Academy Licence Number: 2569031131 Permit Version: 1 Location: Borehole B At Kirkby Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1024	2	342460 398570

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Liverpool Football Club Soccer Academy Licence Number: 2569031131 Permit Version: 1 Location: Borehole A At Kirkby Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1026	2	342450 398580
	Water Abstractions Operator: Liverpool Football Club Soccer Academy Licence Number: 2569031131 Permit Version: 1 Location: Borehole A At Kirkby Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1026	2	342450 398580
	Water Abstractions Operator: Liverpool Football Club & Athletic Grounds Limited Licence Number: 2569031131 Permit Version: 3 Location: Borehole At Kirkby Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Liverpool Way, Kirkby Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th November 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1047	2	342445 398610
	Water Abstractions Operator: Liverpool Football Club & Athletic Grounds Limited Licence Number: 2569031131 Permit Version: 3 Location: Borehole At Kirkby Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Liverpool Way, Kirkby Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th November 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1047	2	342445 398610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Liverpool Football Club & Athletic Grounds Limited Licence Number: 2569031131 Permit Version: 2 Location: Borehole At Kirkby Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Liverpool Way, Kirkby Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 23rd October 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	1047	2	342445 398610
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569031024 Permit Version: 102 Location: B/Holes, Wells, Adits & Headings At Knowsley Randles Bridge Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 26th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1323	2	340900 396600
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569031024 Permit Version: 100 Location: B/Holes, Wells, Adits & Headings At Knowsley Randles Bridge Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Boreholes Wells Adits And Headingsat Knowley (Randles Bridges) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th February 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1323	2	340900 396600
	Water Abstractions Operator: Liverpool Football Club & Athletic Grounds Limited Licence Number: 2569031131 Permit Version: 3 Location: Borehole At Kirkby 2 Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Liverpool Way, Kirkby Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th November 2019 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1671	2	342734 399168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Baker Hughes Limited Licence Number: 2569031090 Permit Version: 101 Location: Borehole At Kirkby Industrial Estate Authority: Environment Agency, North West Region Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Birchill Road,Kirkby Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1825	2	343400 398700
	Water Abstractions Operator: Baker Hughes Limited Licence Number: 2569031090 Permit Version: 101 Location: Borehole At Kirkby Industrial Estate Authority: Environment Agency, North West Region Abstraction: Petrochemicals: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Birchill Road,Kirkby Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1825	2	343400 398700
	Water Abstractions Operator: Baker Hughes Limited Licence Number: 2569031090 Permit Version: 101 Location: Borehole At Kirkby Industrial Estate Authority: Environment Agency, North West Region Abstraction: Petrochemicals: Drinking, Cooking, Sanitary, Washing, (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Birchill Road,Kirkby Authorised Start: 01 January Authorised End: 31 March Permit Start Date: 18th March 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1825	2	343400 398700
	Water Abstractions Operator: Petrolite Ltd Licence Number: 2569031090 Permit Version: 100 Location: Borehole At Kirkby Industrial Estate Authority: Environment Agency, North West Region Abstraction: Petrochemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 818 Yearly Rate (m3): 250030 Details: Premises At Birchill Road,Kirkby Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A25SE (NE)	1825	2	343400 398700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Petrolite Ltd Licence Number: 2569031090 Permit Version: 100 Location: Borehole At Kirkby Industrial Estate Authority: Environment Agency, North West Region Abstraction: Petrochemicals: Boiler Feed Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 818 Yearly Rate (m3): 250030 Details: Premises At Birchill Road, Kirkby Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 1989 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25SE (NE)	1825	2	343400 398700
	Water Abstractions Operator: Sonae (Uk) Limited Licence Number: 2569031146 Permit Version: 1 Location: Sonae Borehole, Knowsley, Merseyside Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th October 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NW (NE)	1930	2	342984 399310
	Water Abstractions Operator: Sonae (Uk) Limited Licence Number: 2569031146 Permit Version: 1 Location: Sonae Borehole, Knowsley, Merseyside Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th October 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NW (NE)	1930	2	342984 399310
	Water Abstractions Operator: Sonae (Uk) Limited Licence Number: 2569031146 Permit Version: 1 Location: Sonae Borehole, Knowsley, Merseyside Authority: Environment Agency, North West 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: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th October 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A25NW (NE)	1930	2	342984 399310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569031018 Permit Version: 100 Location: Well, Borehole And Well With Borehole at Kirkby Pumping Station Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 7001 Yearly Rate (m3): 1659290 Details: Well Borehole And Well With Borehole Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th January 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1991	2	341400 399700
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: <3m Superficial Recharge: Low	A13SW (W)	0	4	341737 397661
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: <3m Superficial Recharge: Low	A13SE (E)	0	4	341813 397655
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SE (E)	0	4	341813 397655
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	4	341737 397661
27	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SE (E)	0	2	341813 397655
28	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A7SE (SW)	778	2	341287 396987
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 453.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SE (SW)	795	5	341269 396980
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 617.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A7SE (SW)	824	5	341341 396891
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.3 Watercourse Level: Underground Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A7SE (SW)	864	5	341159 396981
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8SW (S)	882	5	341689 396699
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 166.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A8SW (S)	883	5	341687 396697
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.8 Watercourse Level: Underground Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A3NE (S)	940	5	341839 396633
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A3NE (S)	943	5	341994 396640
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A3NE (S)	946	5	341866 396628

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A3NE (S)	949	5	341971 396632
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 180.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A9NE (SE)	955	5	342691 397098
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	958	5	341036 396970
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A7SW (SW)	965	5	341070 396926
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A7SW (SW)	969	5	341012 396979
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: Underground Permanent: True Watercourse Name: Knowsley Brook Catchment Name: Alt Primacy: 1	A3NE (S)	993	5	342023 396594

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Historical Landfill Sites Licence Holder: Knowsley District Council Location: Bewley Drive, Kirby, Merseyside Name: Brookfield School Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07416 First Input Date: 1st January 1990 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: K1/17/221, 319/01, GDO 221	A12NW (W)	940	2	340794 397718
44	Historical Landfill Sites Licence Holder: Probably Local Authority Location: Cherryfield Drive, Kirkby, Merseyside Name: Landfill at Bewley Road/ Valley Road/ Cherryfield Drive Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06985 First Input Date: 31st December 1956 Last Input Date: 31st December 1974 Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: GDO 205, K1/17/205	A17SW (NW)	971	2	340876 398097
45	Licensed Waste Management Facilities (Locations) Licence Number: 102471 Location: Elixir Enterprise Park, Dixon Road, Kirkby, Liverpool, Merseyside, L33 7XP Operator Name: Elixir Foundations C I C Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCl Waste TS + treatment Licence Status: Revoked Issued: 9th March 2012 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 30th October 2012 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14NE (E)	927	2	342744 397951
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	6	341813 397655
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	7	341813 397655
46	Local Authority Recorded Landfill Sites Location: Land Bounded By Bewley Road, Cherryfield Drive, Valley Road, Kirby, Knowsley Reference: GDO205 Authority: Knowsley Metropolitan Borough Council Last Reported Status: Closed Types of Waste: Not Supplied Date of Closure: 31/12/1974 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A17SW (NW)	971	6	340873 398091
47	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SE (E)	181	-	342044 397634
48	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A19SW (NE)	542	-	342235 398129

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A8SE (S)	711	-	341821 396862
50	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17NW (NW)	968	-	341100 398387
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (S)	224	-	341782 397350
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (SW)	226	-	341642 397410
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (SW)	228	-	341620 397426
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (SW)	258	-	341499 397515
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NW (S)	331	-	341784 397243
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A13SW (SW)	347	-	341480 397390
57	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	389	-	341897 397187
58	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	406	-	341833 397168
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (SE)	456	-	342063 397164
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SW (SE)	486	-	342300 397362
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	515	-	341979 397073
62	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NE (W)	526	-	341224 397778
63	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	527	-	342025 397073
64	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	537	-	342006 397057
65	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	537	-	341975 397050
66	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8NE (S)	560	-	342030 397039
67	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NE (W)	598	-	341155 397797
68	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SE (NW)	599	-	341424 398191

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9NW (SE)	618	-	342156 397030
70	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17SE (NW)	653	-	341443 398278
71	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SE (S)	653	-	342081 396958
72	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	657	-	342520 397562
73	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	673	-	341065 397530
74	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A7NE (SW)	674	-	341318 397097
75	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9NW (SE)	703	-	342300 397024
76	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A18NE (N)	716	-	341829 398473
77	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	722	-	341014 397724
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	747	-	341002 397802
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	749	-	340991 397506
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NW (W)	800	-	340938 397752
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9SW (SE)	808	-	342398 396969
82	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17NE (NW)	820	-	341415 398460
83	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A17NE (NW)	826	-	341445 398484
84	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A9SW (SE)	826	-	342257 396848
85	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7SE (SW)	841	-	341404 396833
86	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A9NE (SE)	847	-	342535 397059
87	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	882	-	340921 397985
88	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NW (W)	935	-	340800 397722
89	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A3NE (S)	944	-	341999 396640

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A4NW (S)	998	-	342194 396633

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Control of Major Accident Hazards Sites (COMAH) Name: Freeman Chemicals Limited Location: Faraday Road, LIVERPOOL, Merseyside, L33 7UT Reference: Not Supplied Type: Lower Tier Status: Record Ceased To Be Supplied Under COMAH Regulations Positional Accuracy: Automatically positioned to the address	A9NE (E)	940	8	342754 397273

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SE (E)	0	1	341813 397655
	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 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (W)	0	1	341737 397661
	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	A13SE (E)	0	1	341813 397655
	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: 120 - 180 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	7	1	341769 397587
	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	A13SE (SE)	156	1	342000 397500
	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: 120 - 180 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	216	1	342000 397407
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	242	1	341813 398000

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: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	244	1	341604 397414
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	523	1	341681 397064
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	564	1	342408 397798
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	573	1	341810 397000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: <15 mg/kg Concentration:	A8NE (S)	573	1	341813 397000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	583	1	342441 397500

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 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A8NW (SW)	633	1	341533 397000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	637	1	342500 397655
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	639	1	342500 397692
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A8NW (SW)	648	1	341500 397000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	662	1	342500 397837
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	742	1	341000 397500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	BGS Recorded Mineral Sites Site Name: Delf Lane House Location: Southdene, Kirkby, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95034 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian, Triassic Geology: Sherwood Sandstone Group Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	587	1	342273 398151
93	BGS Recorded Mineral Sites Site Name: Cherry Field House Gravel Pit Location: Moss Side, Kirkby, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95040 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian, Triassic Geology: Sherwood Sandstone Group Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8SE (S)	712	1	341847 398862
94	BGS Recorded Mineral Sites Site Name: Webster'S Pits Location: Southdene, Kirkby, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95035 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	950	1	341122 398384
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	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	A13SE (E)	0	1	341813 397655
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	341813 397655
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	341813 397655
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	341813 397655
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	341813 397655
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	43	1	341750 397556
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	1	341813 397655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	43	1	341750 397556
	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	A13SE (E)	0	1	341813 397655
	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	A13SE (E)	0	1	341813 397655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Contemporary Trade Directory Entries Name: J K Cleaning Location: 84, Gaywood Avenue, Liverpool, L32 7PQ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	304	-	342138 397444
96	Contemporary Trade Directory Entries Name: George Boyd Location: 47, Park Brow Drive, Liverpool, L32 9RF Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	323	-	341833 398081
97	Contemporary Trade Directory Entries Name: Impressed Ironing Location: 24, Pershore Road, LIVERPOOL, L32 3XA Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	342	-	341388 397631
98	Contemporary Trade Directory Entries Name: Smart Stairlifts Location: Mossblawn rd, Liverpool, Merseyside, L32 8TY Classification: Stairlifts - Manufacturers & Installers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18SE (NE)	372	-	342104 398017
99	Contemporary Trade Directory Entries Name: Squeaky Clean Location: 3, Morston Crescent, Liverpool, L32 9QE Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	480	-	341288 397822
100	Contemporary Trade Directory Entries Name: Altus Scaffolding Ltd Location: 18, Rushden Road, Liverpool, L32 8TJ Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	528	-	342078 398227
101	Contemporary Trade Directory Entries Name: Enterprise Liverpool Waste Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	539	-	342369 397388
101	Contemporary Trade Directory Entries Name: Greaves Lift Manufacturing Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Classification: Lift Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	539	-	342369 397388
101	Contemporary Trade Directory Entries Name: Impact Safety Glass Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Classification: Glass Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	539	-	342369 397388
102	Contemporary Trade Directory Entries Name: Muni-Serv Hire Location: Unit 7a Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7XW Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	606	-	342352 397216
102	Contemporary Trade Directory Entries Name: First Choice Commercials Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7DR Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	606	-	342352 397216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	Contemporary Trade Directory Entries Name: Amey Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7XW Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	606	-	342352 397216
102	Contemporary Trade Directory Entries Name: Cheshire Distribution North West Ltd Location: Enterprise Centre Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7XW Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	606	-	342352 397216
103	Contemporary Trade Directory Entries Name: J J Smith & Company Woodworking Machinery Ltd Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7DR Classification: Woodworking Machinery Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	622	-	342334 397168
104	Contemporary Trade Directory Entries Name: Dairy Crest Ltd Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	635	-	342190 397030
105	Contemporary Trade Directory Entries Name: Gerard Reid Location: 137, Ribblers Lane, Liverpool, L32 7RA Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	644	-	341380 397084
106	Contemporary Trade Directory Entries Name: J J Smith Technical Services Ltd Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7DR Classification: Industrial Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	667	-	342530 397586
106	Contemporary Trade Directory Entries Name: First Choice Commercials Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7DR Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	667	-	342530 397586
106	Contemporary Trade Directory Entries Name: Spooner Vicars Bakery Systems Ink Location: Moorgate Rd, Knowsley Ind Pk, Liverpool, Merseyside, L33 7XW Classification: Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	686	-	342549 397576
107	Contemporary Trade Directory Entries Name: Tope Developments Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7XW Classification: Asphalt & Coated Macadam Laying Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A9NW (SE)	736	-	342448 397128
108	Contemporary Trade Directory Entries Name: Careclean Location: 1, Ashmuir Hey, Liverpool, L32 8UN Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	740	-	341690 398483
109	Contemporary Trade Directory Entries Name: Movianto Uk Location: Unit 4, Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	751	-	342611 397706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Contemporary Trade Directory Entries Name: Associates Of Cape Cod Incorporated Location: Unit 4, Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Classification: Pharmaceutical Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	751	-	342611 397706
109	Contemporary Trade Directory Entries Name: Automotive Re-Finishing Supplies Location: Unit 4, Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Classification: Paint Spraying Equipment & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	751	-	342611 397706
109	Contemporary Trade Directory Entries Name: Quicker Repairs Location: Unit 4, Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	751	-	342611 397706
110	Contemporary Trade Directory Entries Name: Screwfix Kirkby Location: ARBOUR LANE, KNOWSLEY INDUSTRIAL PARK, KIRKBY, L33 7ET Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	755	-	342345 398316
111	Contemporary Trade Directory Entries Name: Stadco Pressings Ltd Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XL Classification: Car Component Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	789	-	342627 397849
111	Contemporary Trade Directory Entries Name: Delphi Automotive Systems Location: Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XL Classification: Car Accessories Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	789	-	342627 397849
111	Contemporary Trade Directory Entries Name: Delphi Location: Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7XL Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	789	-	342627 397849
112	Contemporary Trade Directory Entries Name: Sqooloo Location: Dixon Road, Knowsley Industrial Park, Liverpool, L33 7XF Classification: Razor Blade Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	791	-	342599 397971
112	Contemporary Trade Directory Entries Name: Specialist Bearings & Transmissions Ltd Location: Lees Road, Knowsley Industrial Park, Liverpool, L33 7XP Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	791	-	342599 397971
112	Contemporary Trade Directory Entries Name: Dams International Ltd Location: Dixon Road, Knowsley Industrial Park, Liverpool, L33 7XF Classification: Office Equipment Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	791	-	342599 397971
112	Contemporary Trade Directory Entries Name: Toolstation Location: DIXON ROAD, KNOWSLEY INDUSTRIAL PARK, KIRKBY, L33 7XP Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	806	-	342617 397962

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Contemporary Trade Directory Entries Name: The Fireplace Gallery Location: Dixon Road, Knowsley Ind Pk, Liverpool, Merseyside, L33 7XP Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	812	-	342623 397961
113	Contemporary Trade Directory Entries Name: Liverprint Location: Unit 6f Academy Business Park, Lees Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7SE Classification: Printers Status: Active Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	818	-	342587 398085
114	Contemporary Trade Directory Entries Name: J Ellis Cleaning Specialists Location: 10, Thistley Hey Road, Liverpool, L32 8SS Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	841	-	341577 398557
115	Contemporary Trade Directory Entries Name: Eminence Aluminium Bi Folding Doors Location: Unit 2, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Door Manufacturers - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	847	-	342640 398027
115	Contemporary Trade Directory Entries Name: Traditional Lift Products Ltd Location: Unit 2/3, The Brambles, Lees Road, Knowsley Industrial Park, Liverpool, L33 7RW Classification: Lift Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	847	-	342640 398026
115	Contemporary Trade Directory Entries Name: Knowsley Roller Shutters Location: Unit 3, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Roller Shutter Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	853	-	342645 398032
115	Contemporary Trade Directory Entries Name: The Door Handle Store Location: Unit 4, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	859	-	342650 398035
115	Contemporary Trade Directory Entries Name: Meldon Gears Location: Unit 4-5, The Brambles, Lees Road, Knowsley Industrial Park, Liverpool, L33 7RW Classification: Gearboxes Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	859	-	342650 398035
115	Contemporary Trade Directory Entries Name: Lynwood Engineering Location: Unit 16, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (E)	866	-	342667 398003
115	Contemporary Trade Directory Entries Name: Creative Print Location: Unit 15, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	869	-	342668 398012
115	Contemporary Trade Directory Entries Name: B H Pneumatics & Automation Ltd Location: Unit 13, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Pneumatic Systems & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	874	-	342670 398021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Contemporary Trade Directory Entries Name: Bh Hydraulic Services Location: Unit 13, Cusson Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7BY Classification: Hydraulic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	874	-	342670 398021
115	Contemporary Trade Directory Entries Name: Heptron Ltd Location: Unit 7, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Turbine Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	875	-	342663 398046
115	Contemporary Trade Directory Entries Name: Ladybird Blinds Location: Unit 8, Cusson Rd, Knowsley Ind Pk, Liverpool, Merseyside, L33 7BY Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	887	-	342666 398074
115	Contemporary Trade Directory Entries Name: Ladybird Blinds Location: Unit 8, Enterprise Workshops, Cusson Rd, Knowsley Ind Pk, Liverpool, Merseyside, L33 7BY Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	888	-	342667 398074
116	Contemporary Trade Directory Entries Name: Brammer Uk Location: Unit 1 Ribblers Lane, Knowsley, Prescot, L34 9HA Classification: Engineering Materials Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	885	-	341920 396691
116	Contemporary Trade Directory Entries Name: Primar Location: Ribblers La, Knowsley, Prescot, Merseyside, L34 9HA Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	909	-	341908 396666
117	Contemporary Trade Directory Entries Name: A Mini Crane Hire Company Ltd Location: Unit 7d, Academy Business Park, Lees Road, Knowsley Industrial Park, Liverpool, L33 7SA Classification: Crane Hire, Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	920	-	342600 398272
117	Contemporary Trade Directory Entries Name: Exec Auto Centre Location: Unit 6b, Academy Business Park, Lees Road, Knowsley Industrial Park, Liverpool, L33 7SA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	926	-	342594 398291
117	Contemporary Trade Directory Entries Name: Executive Recoveries & Repairs Ltd Location: Unit 6a, Academy Business Park, Lees Road, Knowsley Industrial Park, Liverpool, L33 7SA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	926	-	342594 398291
118	Contemporary Trade Directory Entries Name: A E B Precision Ltd Location: Unit 2, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Tool Design, Manufacturers & Makers Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	947	-	342736 398054
118	Contemporary Trade Directory Entries Name: Product Release Europe Location: Unit 2, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Coating Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	947	-	342736 398054

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Contemporary Trade Directory Entries Name: Swift Sheet Metal & Fabrication Co Location: Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	947	-	342736 398054
118	Contemporary Trade Directory Entries Name: Machine Tools Location: Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Industrial Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	947	-	342736 398054
118	Contemporary Trade Directory Entries Name: Multiserve Sales & Services Ltd Location: Unit 2, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	947	-	342736 398054
118	Contemporary Trade Directory Entries Name: Orion Location: Unit A, Gores Road, Knowsley Industrial Park, Liverpool, L33 7XS Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	948	-	342724 398094
118	Contemporary Trade Directory Entries Name: Knowsley Print Finishing Ltd Location: Unit A, Gores Road, Knowsley Industrial Park, LIVERPOOL, L33 7XS Classification: Print Finishers Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	948	-	342724 398094
118	Contemporary Trade Directory Entries Name: S G K Lift Interiors Ltd Location: Unit G, Gores Road, Knowsley Industrial Park, LIVERPOOL, L33 7XS Classification: Lift Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	992	-	342773 398087
119	Contemporary Trade Directory Entries Name: Estar Truck & Van Location: COMPANIES HOUSE HEAD OFFICE ESTAR TRUCK AND VAN LTD, 3, ALCHEMY WAY, KNOWSLEY INDUSTRIAL PARK, KIRKBY, L33 7AQ Classification: Commercial Vehicle Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A9SE (SE)	948	-	342602 396981
120	Contemporary Trade Directory Entries Name: Sugarich Location: Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Classification: Mills & Millers Status: Active Positional Accuracy: Automatically positioned to the address	A15SW (E)	959	-	342822 397546
121	Contemporary Trade Directory Entries Name: Designed Bespoke Joinery Location: 23, Faraday Road, Knowsley Industrial Park, Liverpool, L33 7UT Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	963	-	342781 397285
121	Contemporary Trade Directory Entries Name: F R W Northwest Location: 23, Faraday Road, Knowsley Industrial Park, Liverpool, L33 7UT Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	963	-	342781 397284
121	Contemporary Trade Directory Entries Name: M T Truck & Trailer Repairs Ltd Location: 23, Faraday Road, Knowsley Industrial Park, Liverpool, L33 7UT Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (E)	963	-	342781 397284

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Contemporary Trade Directory Entries Name: Counterline Location: 22 Faraday Rd, Knowsley Ind Pk, Liverpool, Merseyside, L33 7UT Classification: Catering Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NE (E)	973	-	342794 397290
121	Contemporary Trade Directory Entries Name: Wholesale Beer Supplies Ltd Location: Vacant, 22, Faraday Road, Kirkby, L33 7UT Classification: Brewers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (E)	975	-	342795 397288
122	Contemporary Trade Directory Entries Name: Singleton Trading Location: Saturn Park, School Lane, Knowsley Business Park, Prescot, Merseyside, L34 9JG Classification: Toys, Games & Sporting Goods - Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A3NE (S)	974	-	341887 396601
123	Contemporary Trade Directory Entries Name: Aluminium Wire & Conductor Plc Location: School Lane, Knowsley Business Park, Prescot, Merseyside, L34 9GS Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	990	-	342242 396659
124	Contemporary Trade Directory Entries Name: Mcvittie Canworks Location: Unit 2a, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Classification: Can Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (E)	993	-	342788 398042
125	Fuel Station Entries Name: East Lancashire Self Serve Location: East Lancashire Road , Kirkby , Liverpool, Merseyside, L32 7QZ Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8SE (S)	786	-	342000 396800
126	Points of Interest - Commercial Services Name: J M Mobile Car Valeting Location: 19 Lindby Road, Southdene, Kirkby, L32 6SJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (E)	455	9	342303 397770
127	Points of Interest - Commercial Services Name: Motor Worx Location: 26 Morston Avenue, Southdene, Kirkby, L32 9PZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NE (NW)	504	9	341292 397883
128	Points of Interest - Commercial Services Name: First Choice Commercials Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7DR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216
128	Points of Interest - Commercial Services Name: Enterprise Liverpool Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216
128	Points of Interest - Commercial Services Name: Cheshire Distribution North West Ltd Location: Enterprise Centre Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	Points of Interest - Commercial Services Name: Muni-serv Hire Location: Muni Serv 7b Moorgate Point, Moorgate Road, Southdene, Kirkby, L33 7XW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NW (SE)	717	9	342424 397127
130	Points of Interest - Commercial Services Name: Quicker Repairs Ltd Location: Unit 4 Deacon Park, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	751	9	342611 397706
131	Points of Interest - Commercial Services Name: Gleam Machine Location: 203 Bewley Drive, Southdene, Kirkby, L32 9PF Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SW (NW)	880	9	340968 398074
132	Points of Interest - Commercial Services Name: Executive Recoveries & Repairs Ltd Location: Unit 6b Academy Business Park, Lees Road, Knowsley Industrial Park, Liverpool, L33 7SA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	926	9	342594 398291
133	Points of Interest - Commercial Services Name: Movianto UK Location: Unit H3deacon Park Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7RX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	926	9	342774 397408
134	Points of Interest - Commercial Services Name: Multiserve Sales & Services Location: Unit 2, Cusson Road, Knowsley Industrial Park, Liverpool, L33 7BY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	947	9	342736 398054
134	Points of Interest - Commercial Services Name: Steve Gray Motor Engineers Ltd Location: Unit A, Gores Road, Knowsley Industrial Park, Liverpool, L33 7XS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SE (NE)	948	9	342724 398094
135	Points of Interest - Commercial Services Name: J M D Haulage Contractors Location: Saturn Business Park, School Lane, Knowsley Business Park, Knowsley, L34 9GJ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A9SW (SE)	955	9	342229 396692
136	Points of Interest - Commercial Services Name: M T Truck & Trailer Repairs Ltd Location: Frw Northwest Ltd 23, Faraday Road, Knowsley Industrial Park, Kirkby, L33 7UT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (E)	963	9	342781 397284
137	Points of Interest - Manufacturing and Production Name: Industrial Training Centre Location: L32 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	434	9	342214 397319
138	Points of Interest - Manufacturing and Production Name: Ferazzi Marble Location: 6 Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7AZ Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	Points of Interest - Manufacturing and Production Name: N W Industrial LLP Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216
138	Points of Interest - Manufacturing and Production Name: N W Industrial LLP Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216
139	Points of Interest - Manufacturing and Production Name: Tanks Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	749	9	342355 397009
139	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9NW (SE)	753	9	342354 397003
139	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9NW (SE)	756	9	342358 397003
139	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A9NW (SE)	759	9	342354 396995
140	Points of Interest - Manufacturing and Production Name: Works Location: L33 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	781	9	342621 397842
140	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	787	9	342627 397844
141	Points of Interest - Manufacturing and Production Name: Solar Panel Location: L32 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	790	9	342123 396828
142	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	814	9	342626 397958
143	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14NE (E)	845	9	342700 397761

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A14NE (E)	854	9	342710 397757
143	Points of Interest - Manufacturing and Production Name: Tanks Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	862	9	342717 397764
144	Points of Interest - Manufacturing and Production Name: Workshops Location: L33 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	879	9	342669 398041
144	Points of Interest - Manufacturing and Production Name: Enterprise Workshops Location: L33 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	888	9	342677 398045
145	Points of Interest - Manufacturing and Production Name: Academy Business Park Location: L33 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	896	9	342618 398196
146	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	896	9	342414 396868
146	Points of Interest - Manufacturing and Production Name: Tank Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	910	9	342425 396858
147	Points of Interest - Manufacturing and Production Name: Prestige Granite & Marble Ltd Location: Dixon Road, Knowsley Industrial Park, Kirkby, L33 7XF Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A14NE (E)	929	9	342747 397948
147	Points of Interest - Manufacturing and Production Name: Prestige Granite & Marble Ltd Location: Dixon Road, Knowsley Industrial Park, Liverpool, L33 7XR Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A14NE (E)	930	9	342748 397949
148	Points of Interest - Manufacturing and Production Name: Tank Location: L34 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	943	9	342352 396768
149	Points of Interest - Manufacturing and Production Name: Factory Location: L33 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15SW (E)	968	9	342830 397538
150	Points of Interest - Manufacturing and Production Name: Tanks Location: L33 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NE (NE)	977	9	342559 398416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	Points of Interest - Manufacturing and Production Name: Saturn Business Park Location: L34 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A4NW (S)	1000	9	342220 396640
152	Points of Interest - Public Infrastructure Name: Enterprise Liverpool Waste Location: Moorgate Point, Moorgate Road, Knowsley Industrial Park, Liverpool, L33 7XW Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A9NW (SE)	606	9	342352 397216
153	Points of Interest - Public Infrastructure Name: Outfall Location: L32 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	822	9	341567 396785
153	Points of Interest - Public Infrastructure Name: Outfall Location: L32 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	825	9	341562 396784
154	Points of Interest - Public Infrastructure Name: Sluice Location: L32 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	878	9	341642 396710
154	Points of Interest - Public Infrastructure Name: Sluice Location: L32 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	878	9	341643 396710
154	Points of Interest - Public Infrastructure Name: Sluice Location: L32 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	882	9	341696 396697
154	Points of Interest - Public Infrastructure Name: Sluice Location: L32 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	883	9	341691 396697
155	Points of Interest - Public Infrastructure Name: Sluice Location: L34 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NE (S)	950	9	341988 396633
155	Points of Interest - Public Infrastructure Name: Sluice Location: L34 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NE (S)	951	9	341993 396632
156	Points of Interest - Public Infrastructure Name: Kirkby Community Fire Station Location: Kirkby Community Fire Station, Webster Drive, Kirkby Town Centre, L32 8SJ Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A17NE (N)	975	9	341446 398651
156	Points of Interest - Public Infrastructure Name: Community Fire Station Location: Fire Station, Webster Drive, Liverpool, L32 8SJ Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A17NE (N)	976	9	341446 398651

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Points of Interest - Public Infrastructure Name: Merseyside Fire & Rescue Service Location: Fire Station, Webster Drive, Liverpool, L32 8SJ Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A17NE (N)	976	9	341446 398651
157	Points of Interest - Recreational and Environmental Name: Playground Location: Gaywood Avenue, L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13SW (SW)	62	9	341749 397535
158	Points of Interest - Recreational and Environmental Name: Play Area Location: L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	168	9	341802 397405
159	Points of Interest - Recreational and Environmental Name: Skatepark Location: L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	231	9	341699 397366
160	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	A13NE (E)	279	9	342119 397782
161	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	A13NE (NE)	330	9	342088 397972
161	Points of Interest - Recreational and Environmental Name: Playground Location: Moss lawn Road, L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	330	9	342088 397972
162	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	A18SE (N)	522	9	341910 398274
162	Points of Interest - Recreational and Environmental Name: Playground Location: Edgefold Road, L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	522	9	341910 398274
163	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	A18SW (N)	547	9	341675 398280
163	Points of Interest - Recreational and Environmental Name: Playground Location: Wellfield Avenue, L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	548	9	341675 398281
164	Points of Interest - Recreational and Environmental Name: Play Area Location: L32 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	768	9	341457 398425

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	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	A17NE (NW)	770	9	341387 398382

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A8NW (SW)	625	6	341468 397044
166	Nitrate Vulnerable Zones Name: Alt Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (E)	0	4	341813 397655

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council - Environmental Protection Department West Lancashire District Council - Environmental Services Knowsley Metropolitan Borough Council - Department of Planning and Development Liverpool City Council - Liverpool Environmental Health & Trading Standards Division	June 2020 October 2017 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2022	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Sefton Metropolitan Borough Council - Environmental Health Department West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 July 2015 October 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	

Agency & Hydrological	Version	Update Cycle
Substantiated Pollution Incident Register		
Environment Agency - North West Region - Central Area	October 2022	Quarterly
Environment Agency - North West Region - North Area	October 2022	Quarterly
Environment Agency - North West Region - South Area	October 2022	Quarterly
Water Abstractions		
Environment Agency - North West Region	October 2022	Quarterly
Water Industry Act Referrals		
Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map		
Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations		
Environment Agency - Head Office	January 2018	Annually
Source Protection Zones		
Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2022	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines		
Ordnance Survey	October 2022	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

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	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2022 October 2022 October 2022	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority Sefton Metropolitan Borough Council - Environmental Health Department St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018 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 - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Knowsley Metropolitan Borough Council Lancashire County Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council	August 2015 February 2016 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Knowsley Metropolitan Borough Council Lancashire County Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council	August 2015 February 2016 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable 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	November 2022	Bi-Annually
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	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	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	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	January 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2022	Quarterly
Points of Interest - Education and Health PointX	December 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2022	Quarterly
Points of Interest - Public Infrastructure PointX	December 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

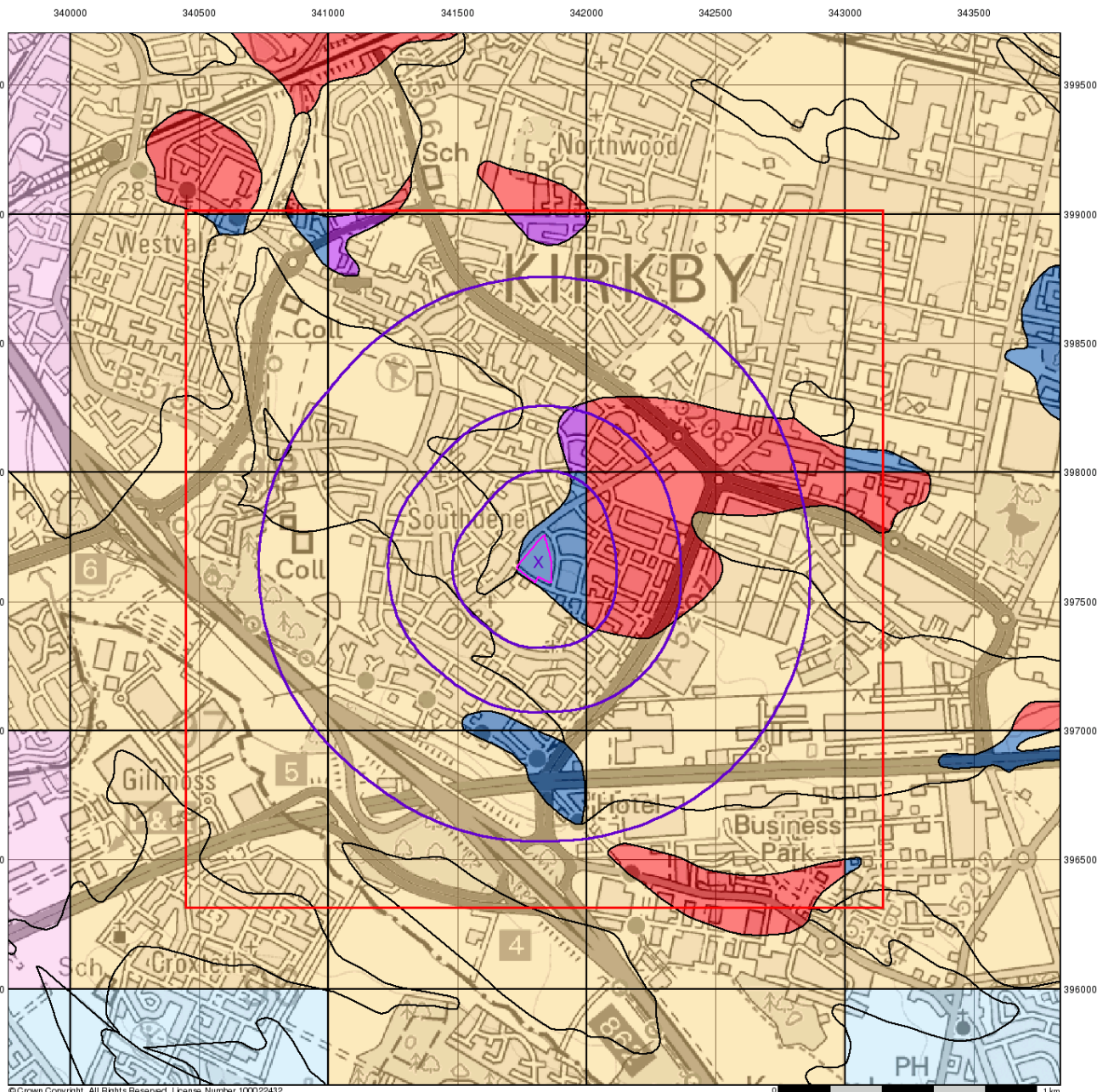
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council Sefton Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	August 2022	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Municipal Buildings, Cherryfield Drive, Kirkby, Knowsley, Merseyside, L32 1TX	Telephone: 0151 443 4731 Fax: 0151 289 7488 Website: www.knowsley.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Knowsley Metropolitan Borough Council Archway Road, Huyton, Liverpool, Merseyside, L36 9YU	Telephone: 0151 489 6000 Fax: 0151 443 2298 Website: www.knowsley.gov.uk
7	Merseyside Waste Disposal Authority 2nd Floor, North House, 17 North John Street, Liverpool, Merseyside, L2 5QY	Telephone: 0151 2551444 Fax: 0151 2271848 Email: enquiries@merseysidewda.gov.uk
8	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Liverpool City Council 5th floor, Steers House, Canning Place, Liverpool, Merseyside, L1 8JA	Telephone: 0151 227 3911 Fax: 0151 709 1481 Website: www.liverpool.gov.uk
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



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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

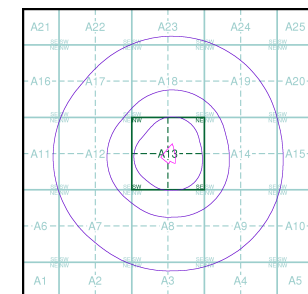
Superficial Aquifers

- 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



Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

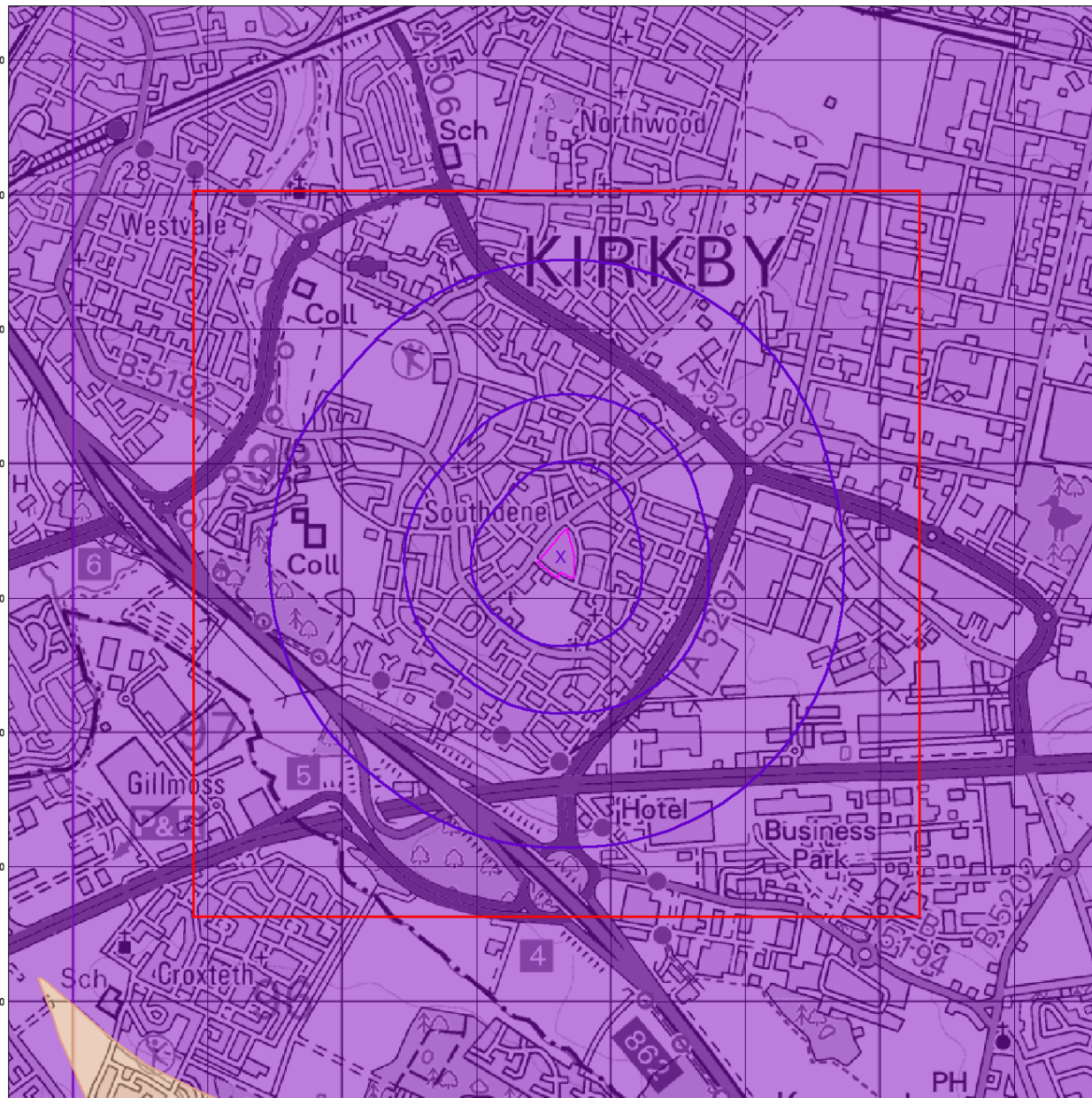
Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
 INFORMATION GROUP

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

340000 340500 341000 341500 342000 342500 343000 343500

399500
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398500
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396500
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0 1 km



Bedrock Aquifer Designation

General

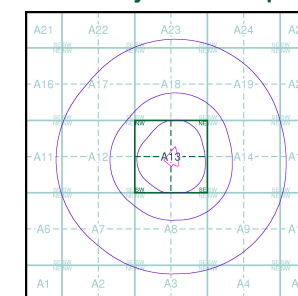
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

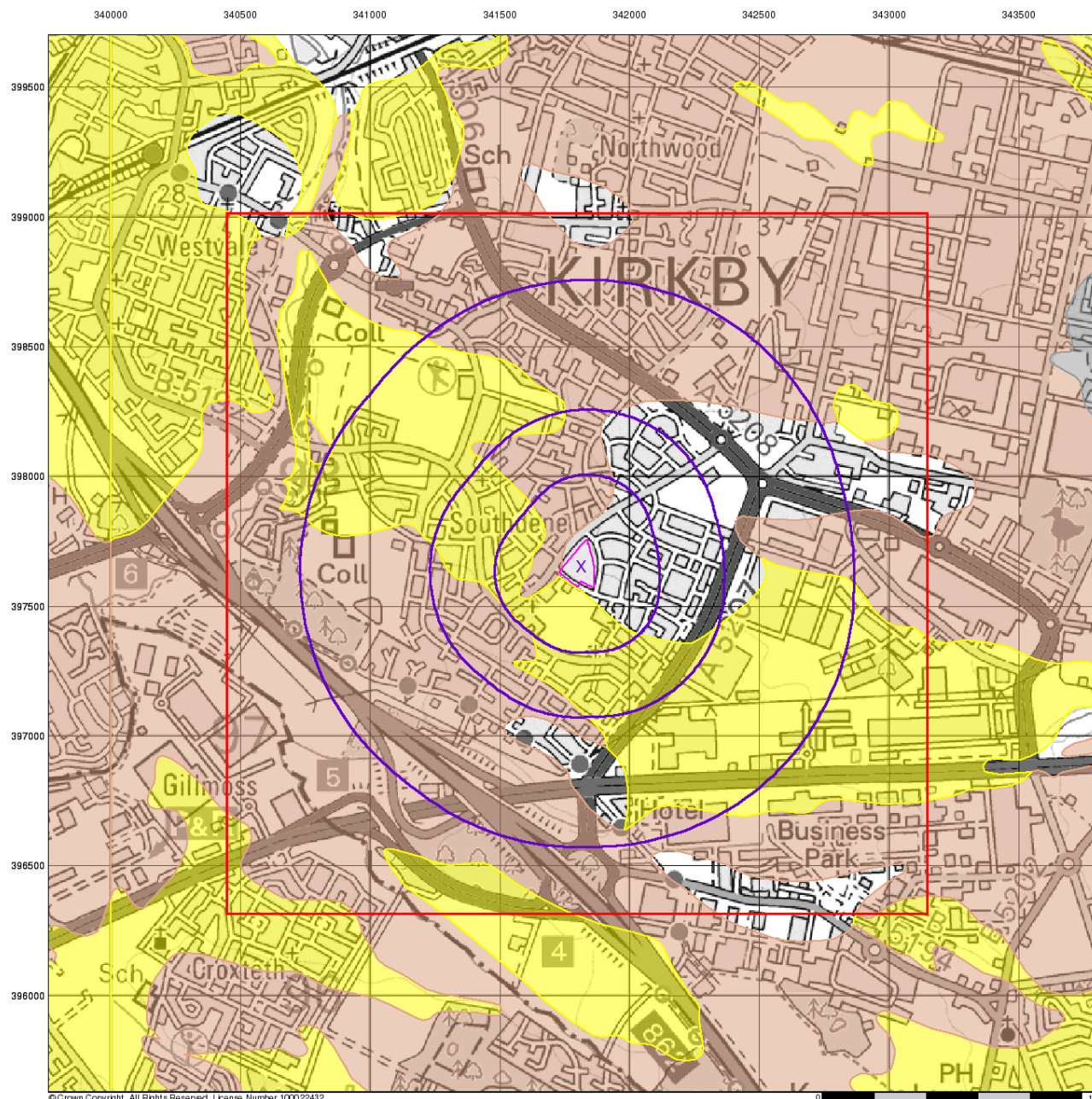
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Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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0 1 km



Superficial Aquifer Designation

General

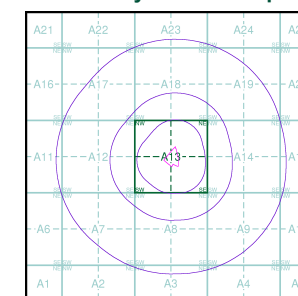
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

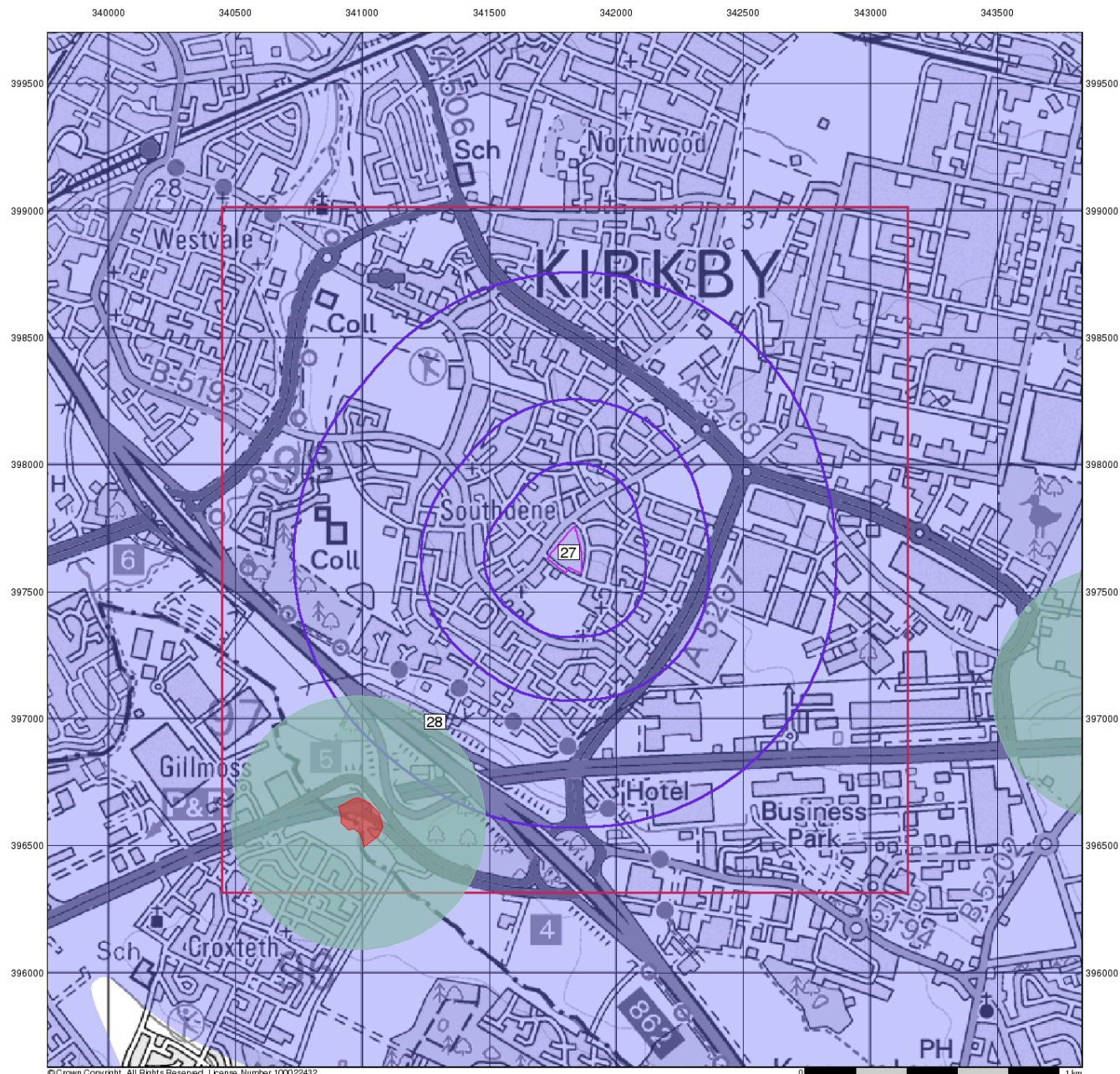
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 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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Source Protection Zones

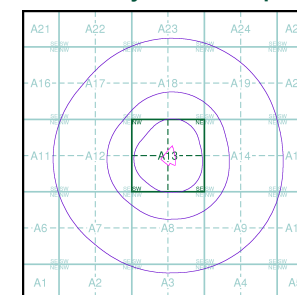
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

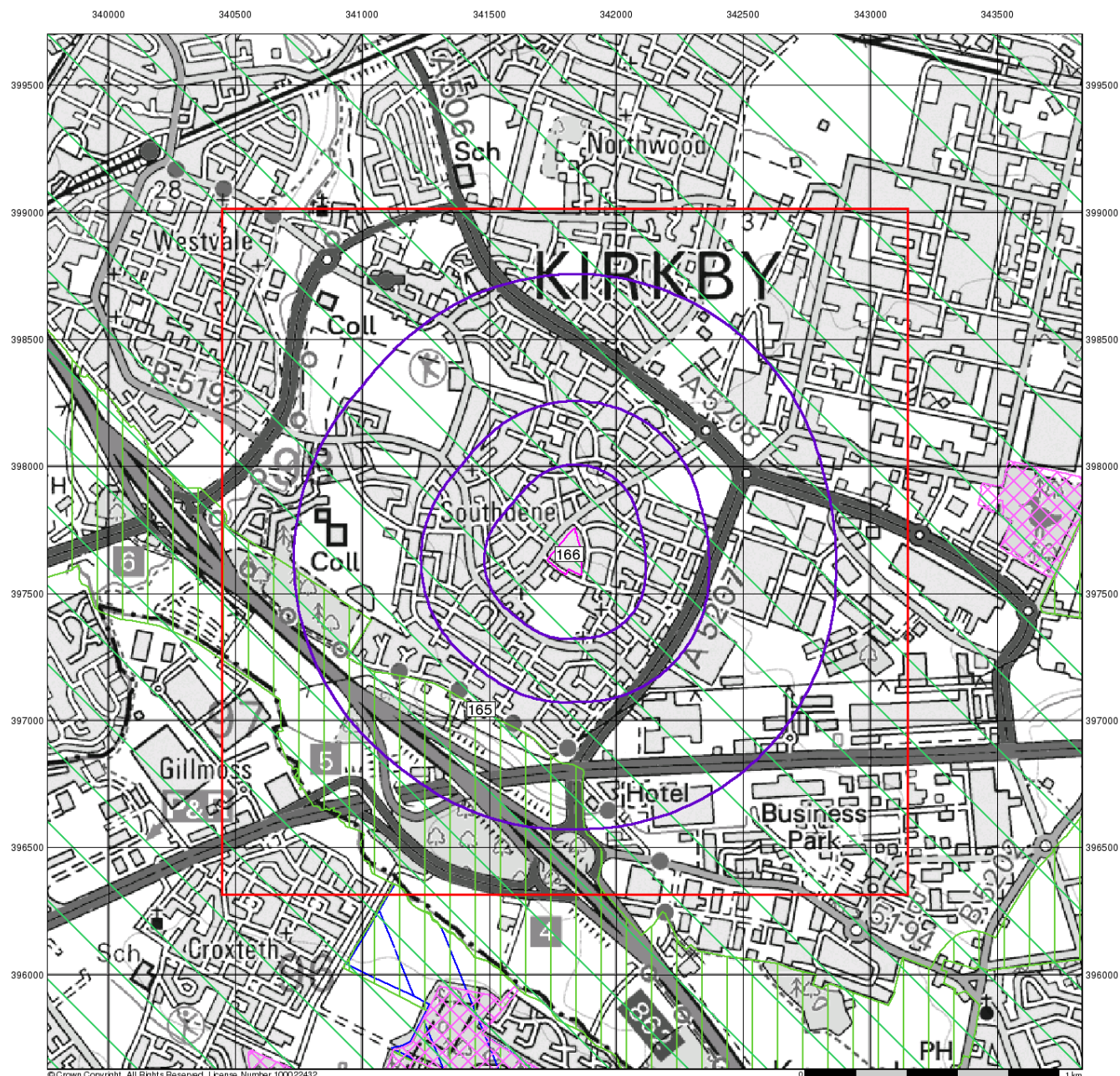
Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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



Sensitive Land Uses

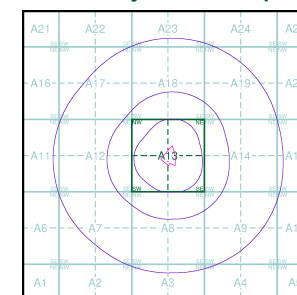
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

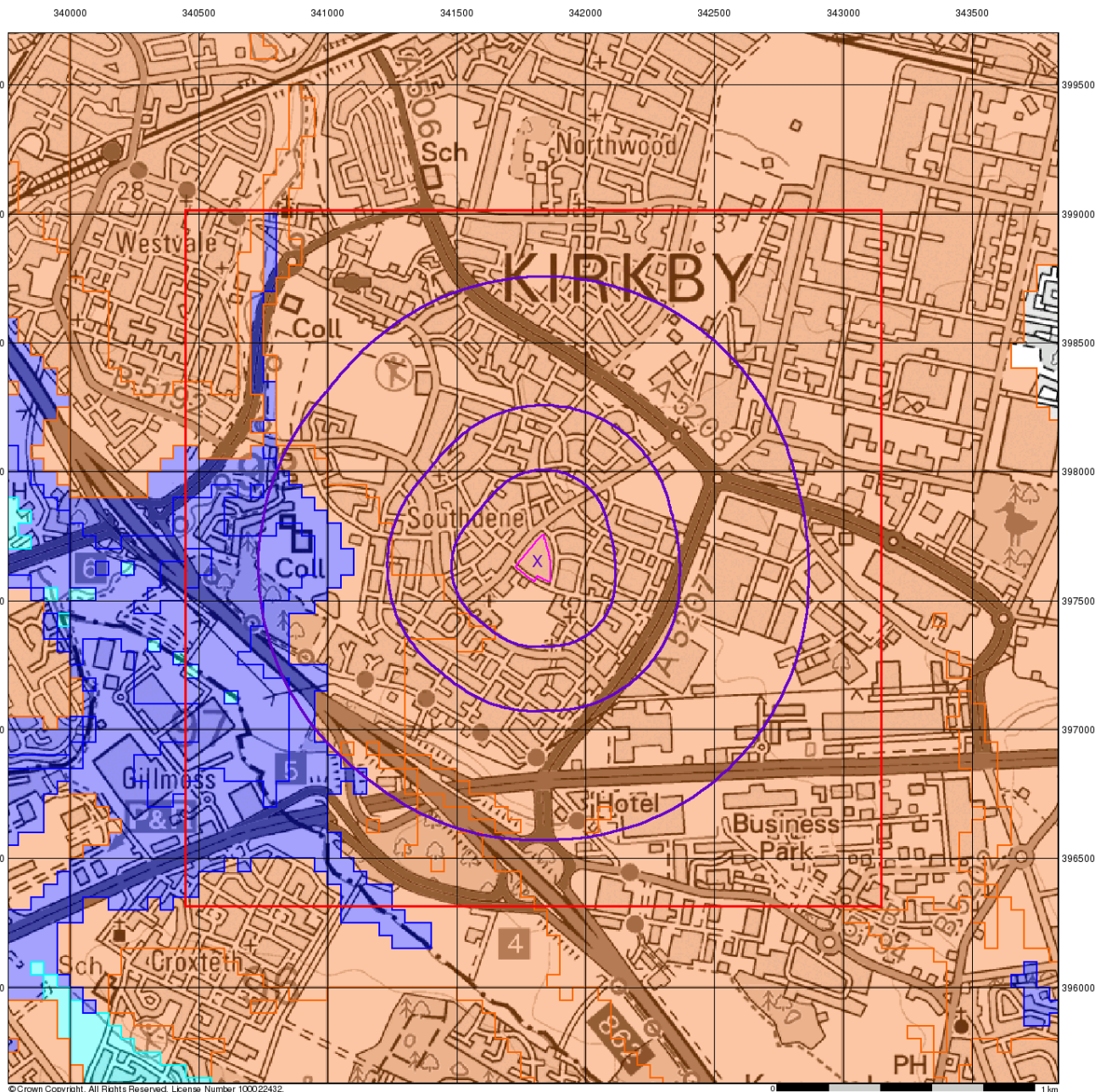
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 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
 INFORMATION GROUP

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



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BGS Flood GFS Data

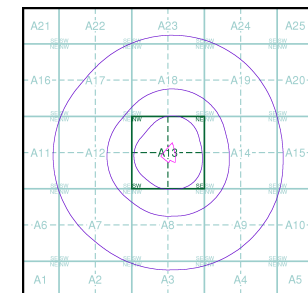
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

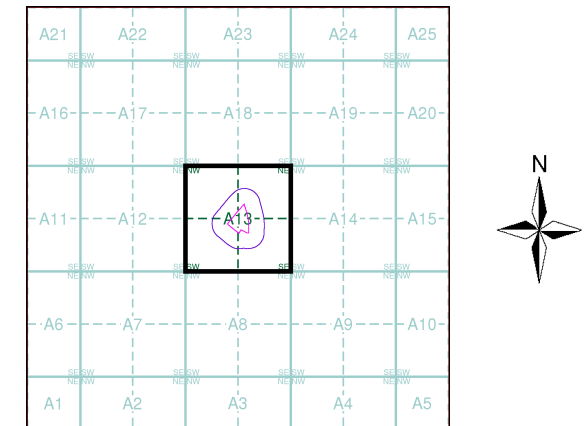


Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Map ID
- Several of Type at Location
- Pylon
- Overhead Transmission Line
- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- ◆ Discharge Consent
- ▲ Enforcement or Prohibition Notice
- ▲ Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- ▲ Local Authority Pollution Prevention and Control
- ▼ Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- ▼ Prosecution Relating to Authorised Processes
- ◆ Prosecution Relating to Controlled Waters
- ▲ Registered Radioactive Substance
- River Network or Water Feature
- + River Quality Sampling Point
- Substantiated Pollution Incident Register
- ◆ Water Abstraction
- ◆ Water Industry Act Referral
- ✱ COMAH Site
- ✱ Explosive Site
- ✱ NIHHS Site
- ✱ Planning Hazardous Substance Consent
- ✱ Planning Hazardous Substance Enforcement
- ▼ BGS Recorded Mineral Site
- ▼ 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 (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A13

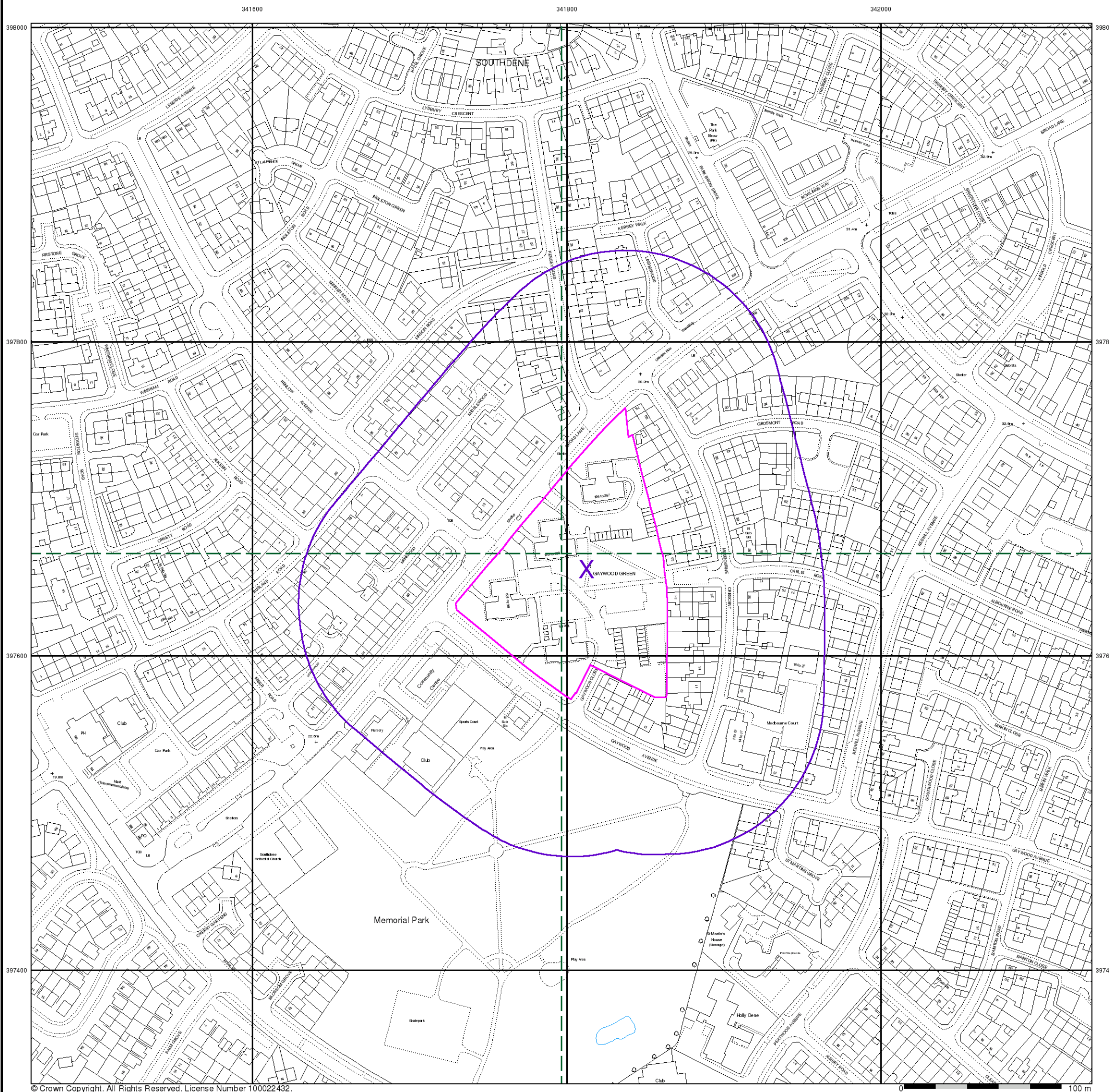


Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Plot Buffer (m): 100

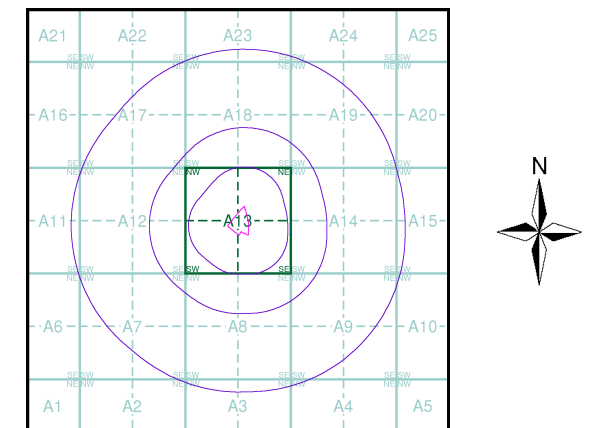
Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



- 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 and Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - 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 (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

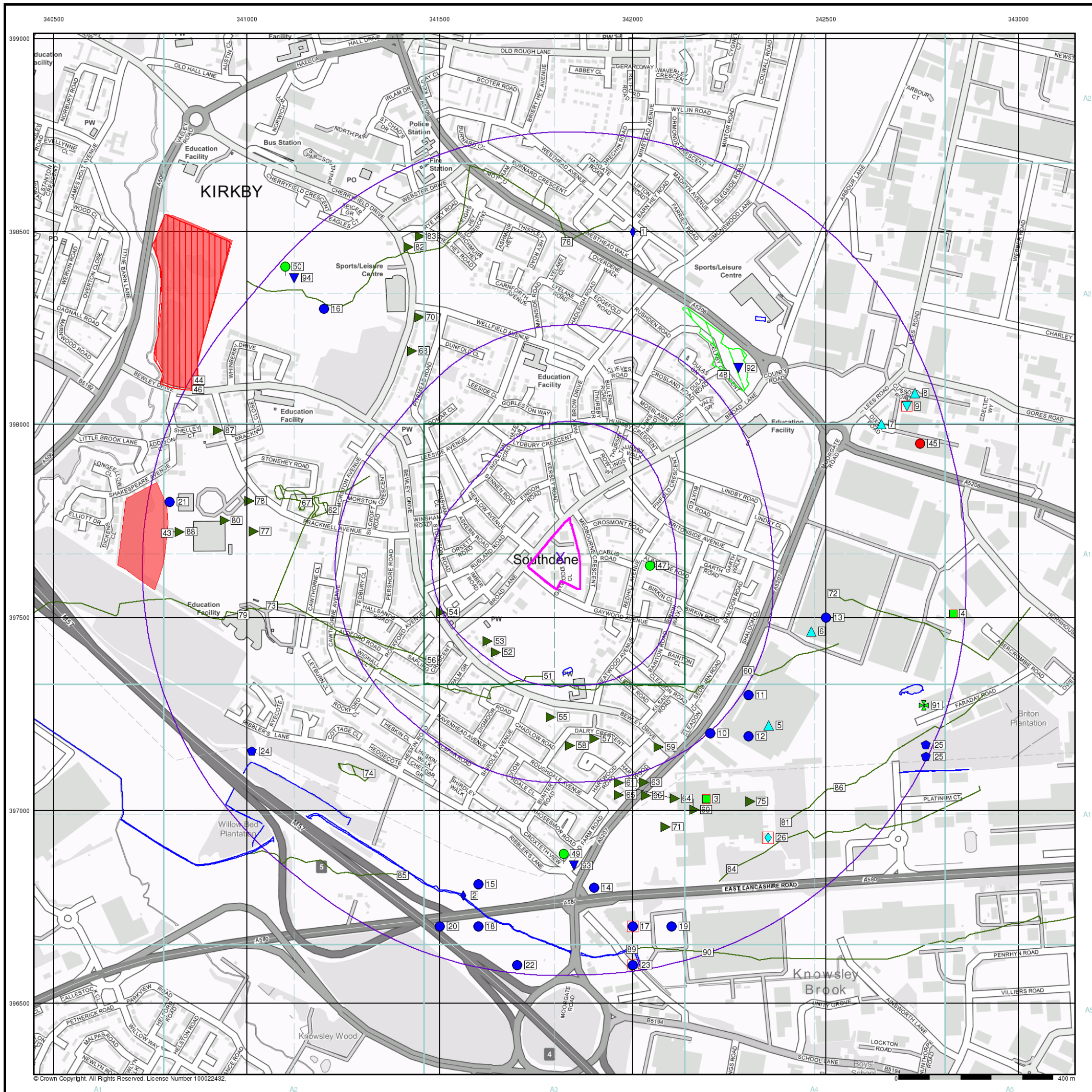


Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



Industrial Land Use Map

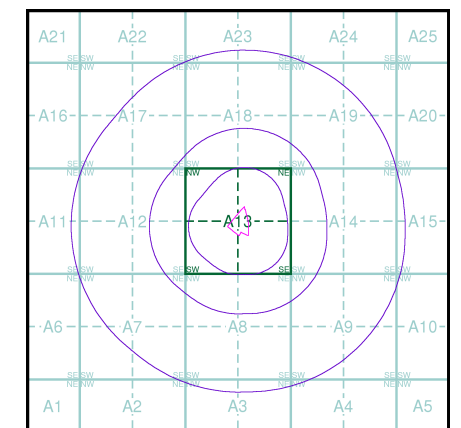
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

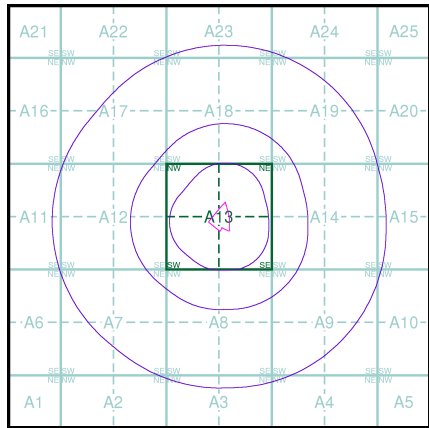
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

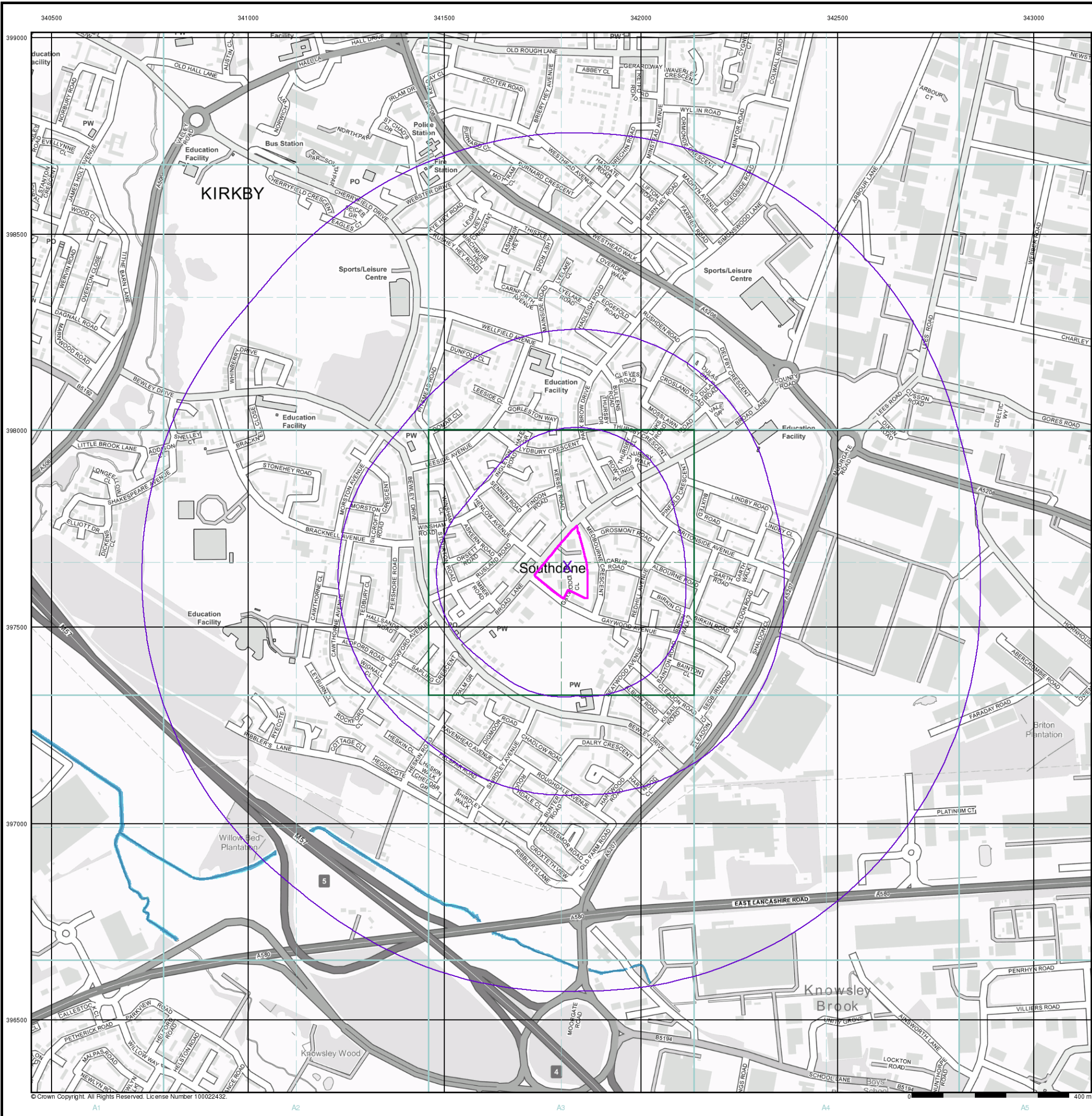


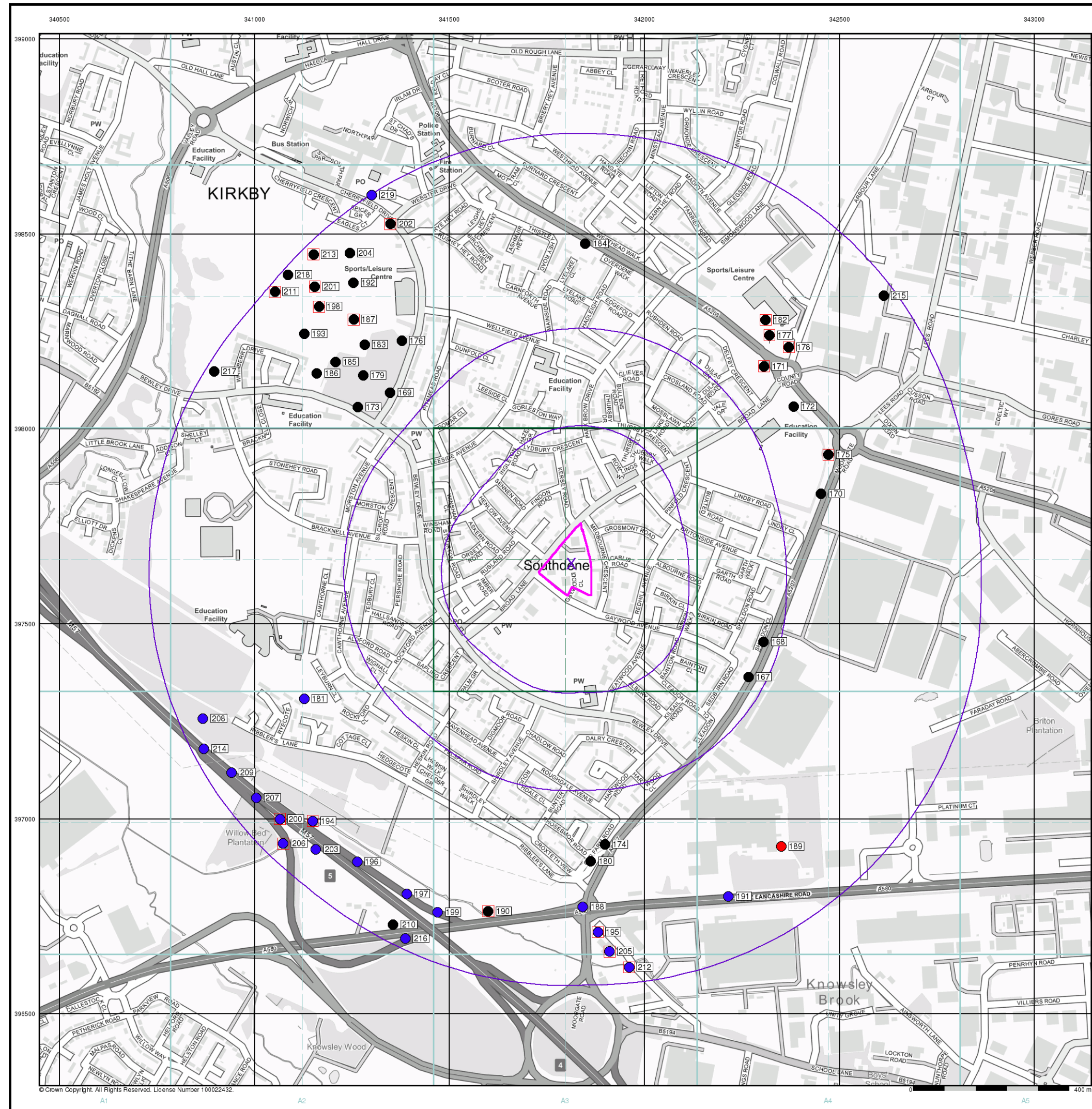
Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT





General

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

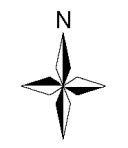
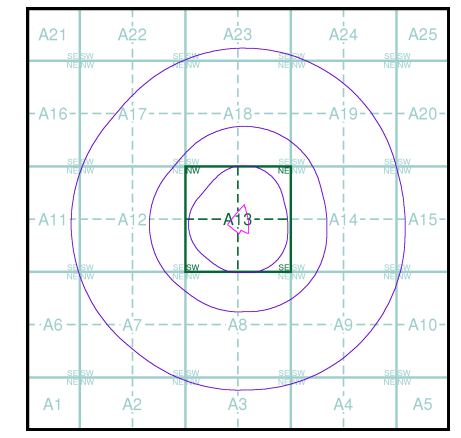
Agency and Hydrological (Boreholes)

- 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

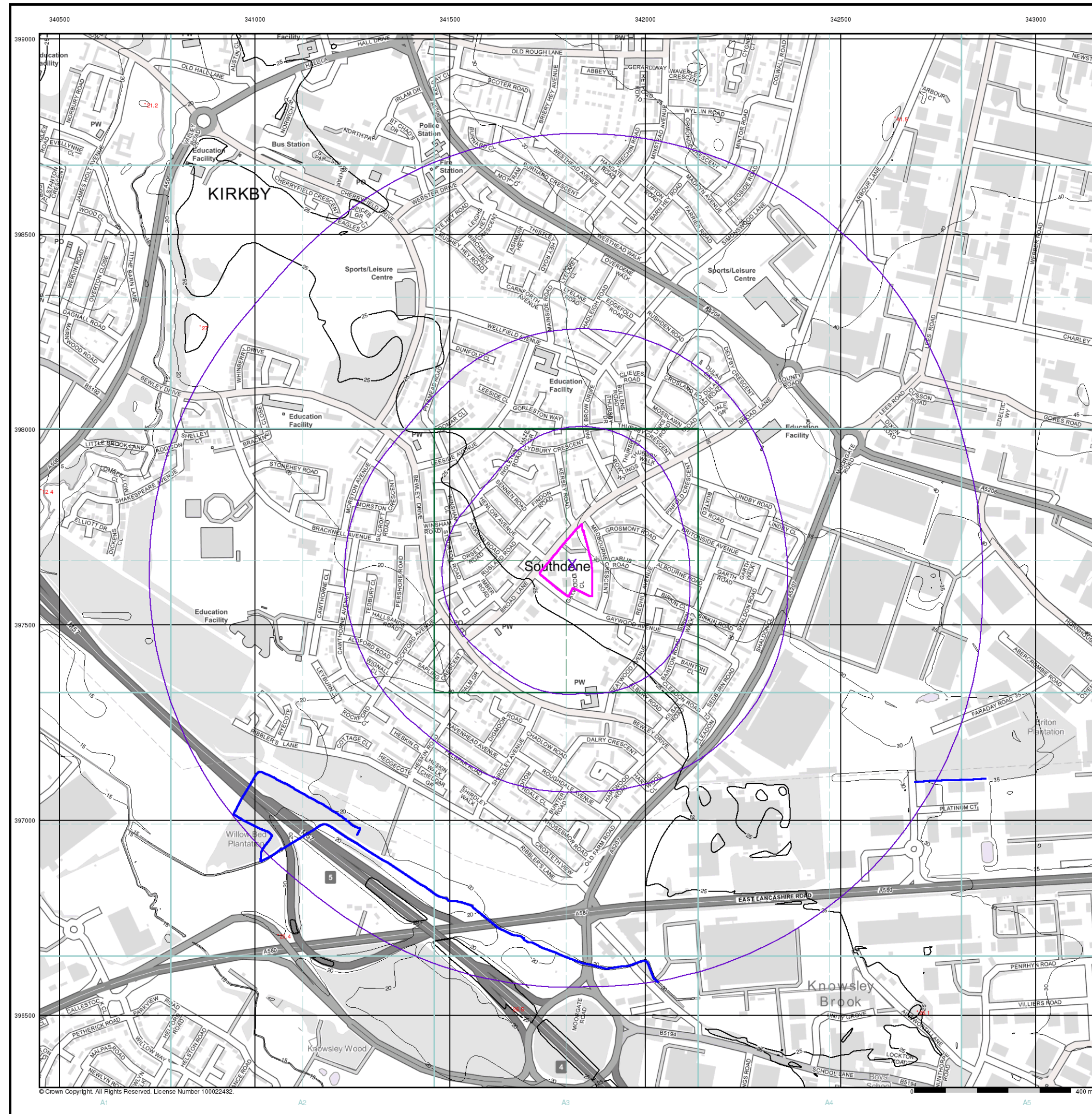
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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General

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

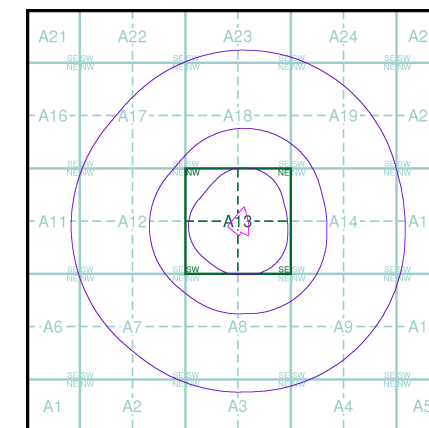
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
INFORMATION GROUP

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General

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

Risk of Flooding from Surface Water

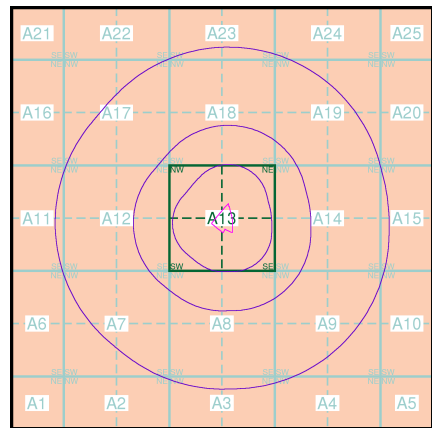
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

E/NRW Suitability Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

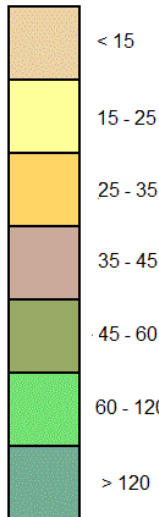
Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

General

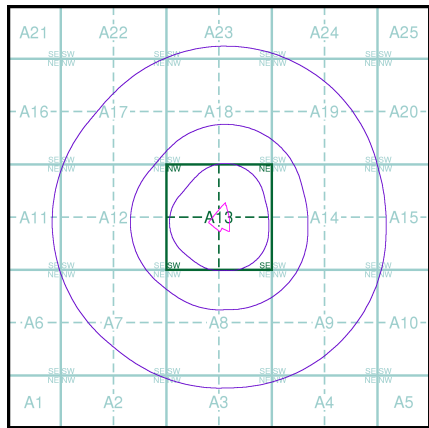
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

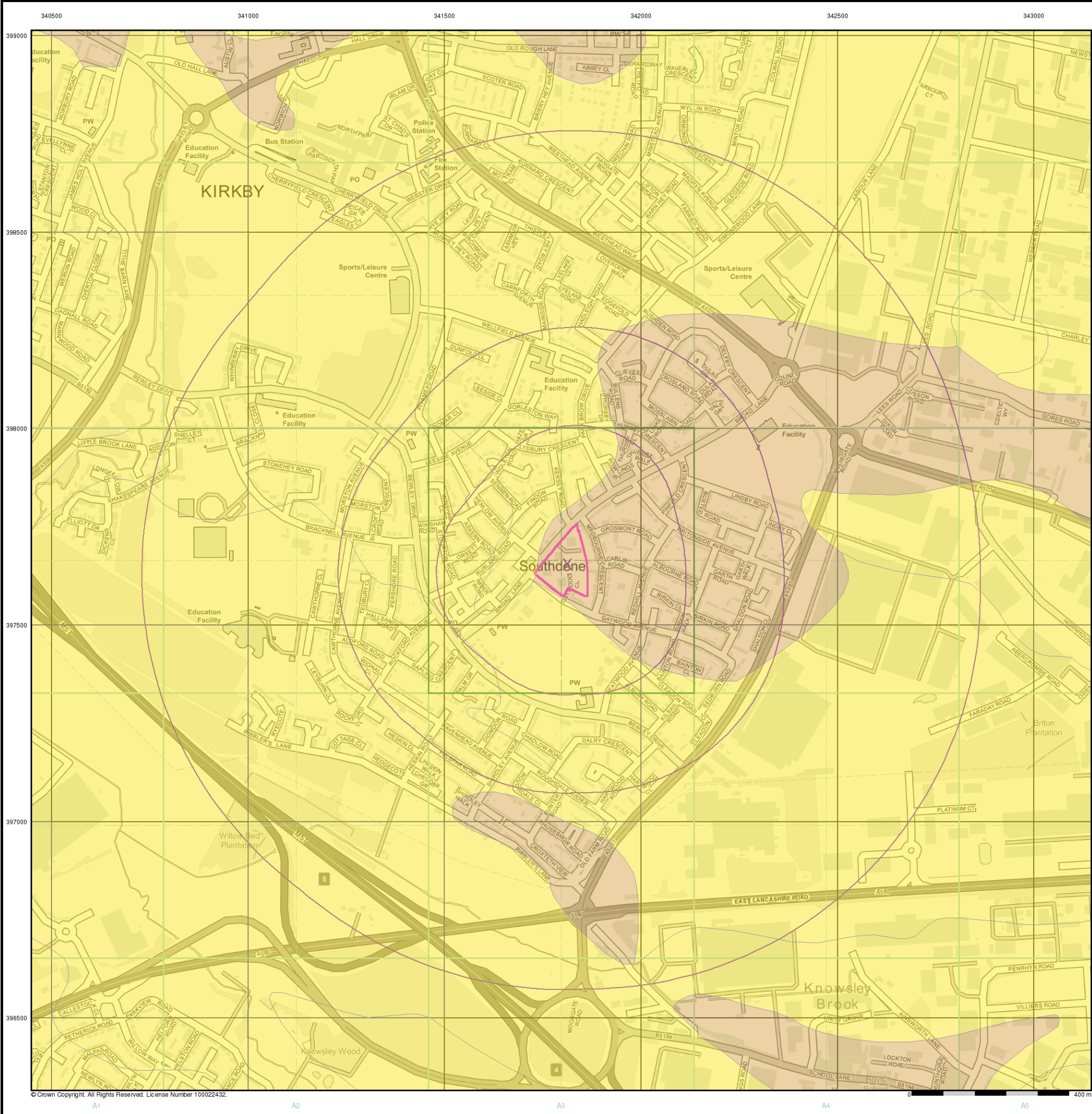


Order Details

Order Details: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

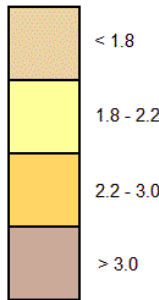


General

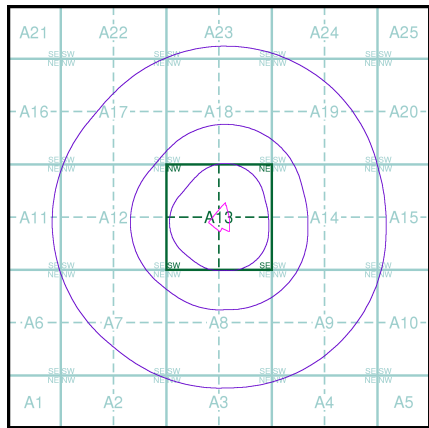
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

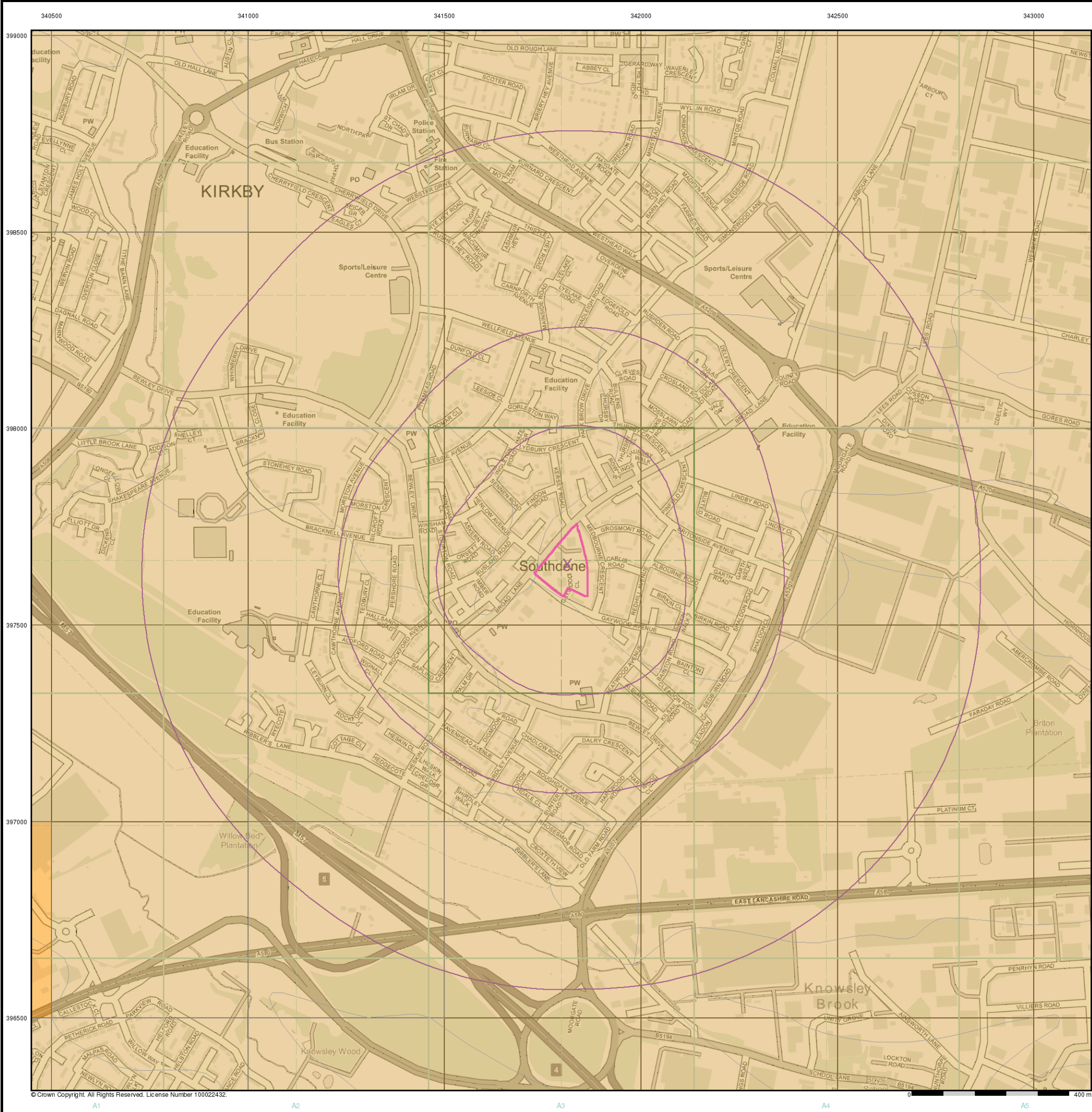


Order Details

Order Details: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

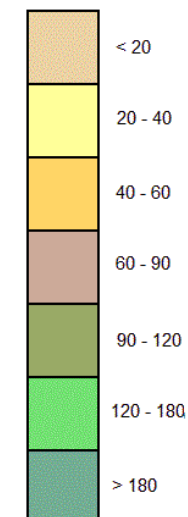


General

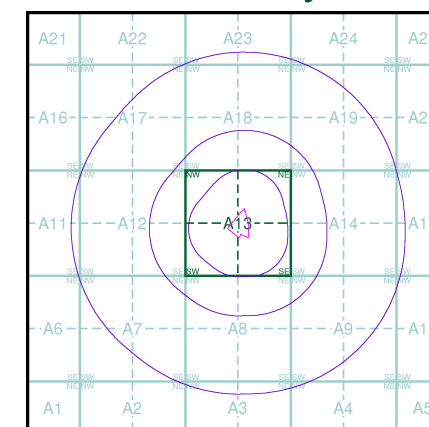
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

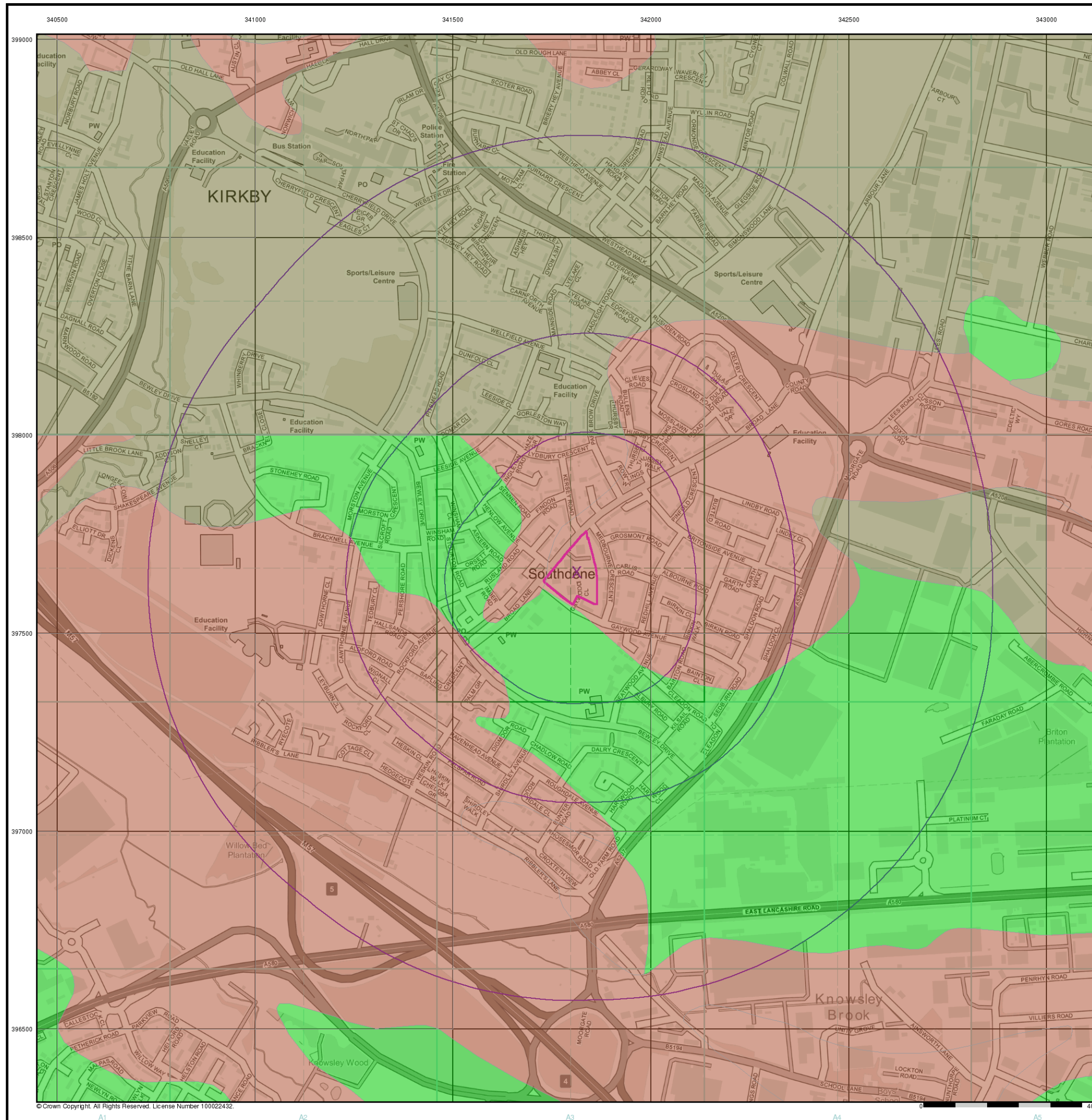


Order Details

Order Details: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

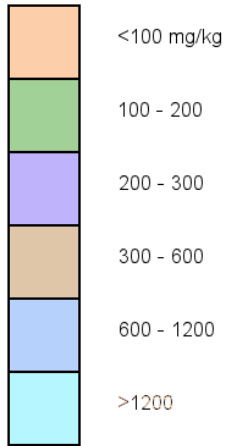


General

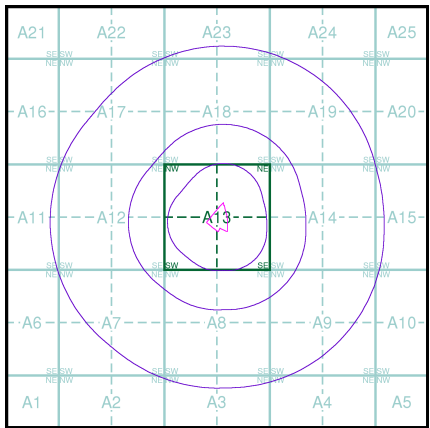
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

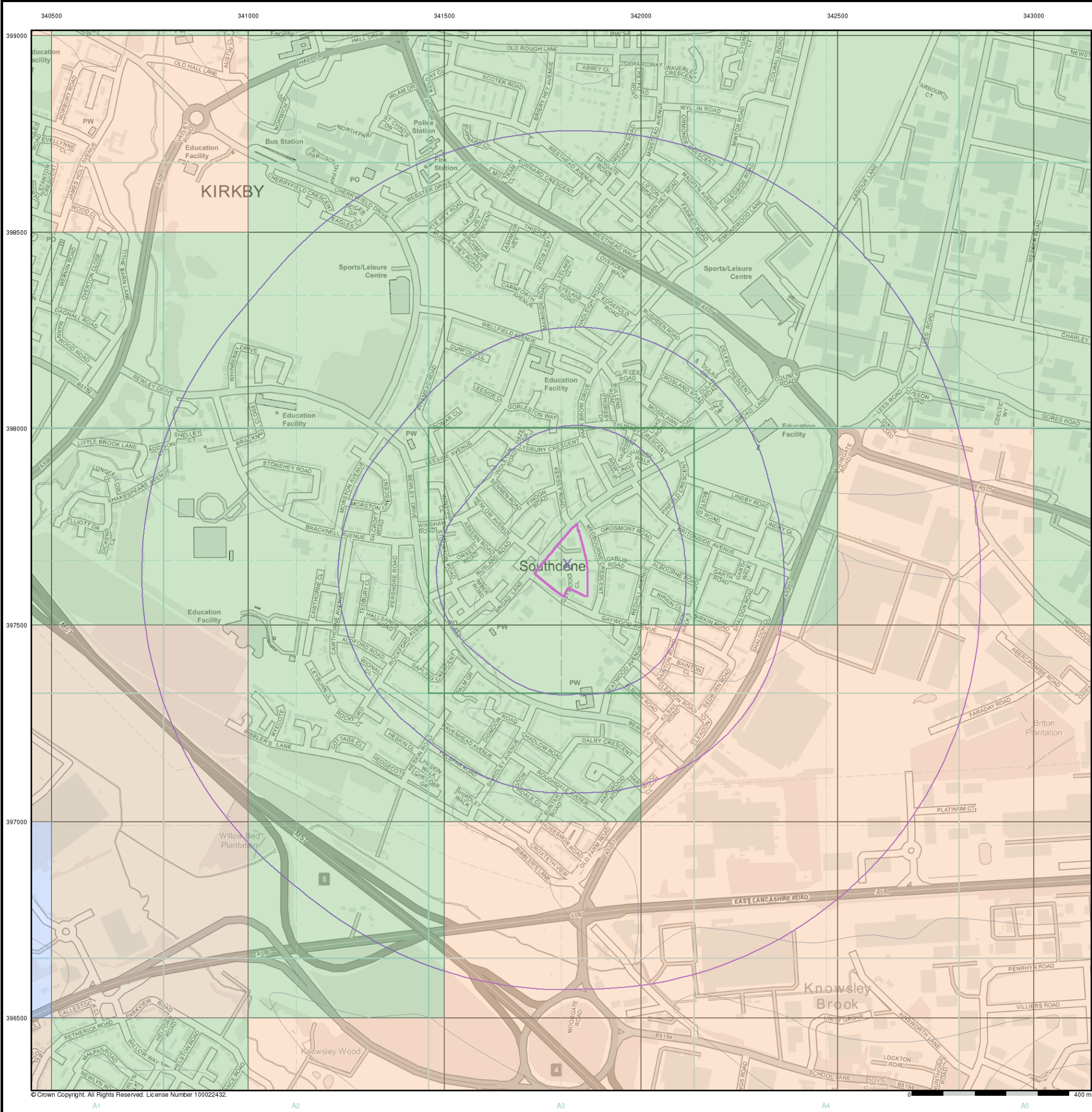


Order Details

Order Details: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

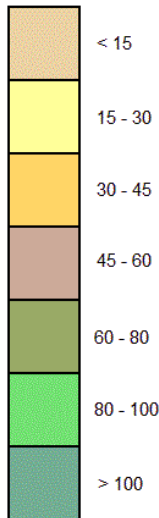


General

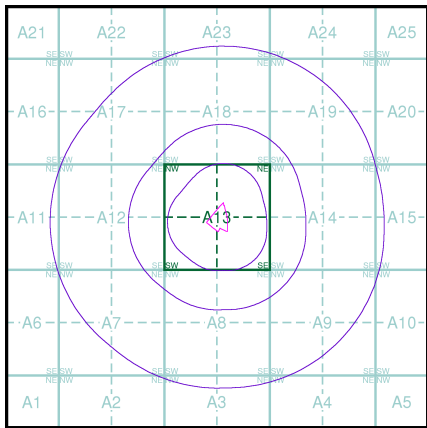
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

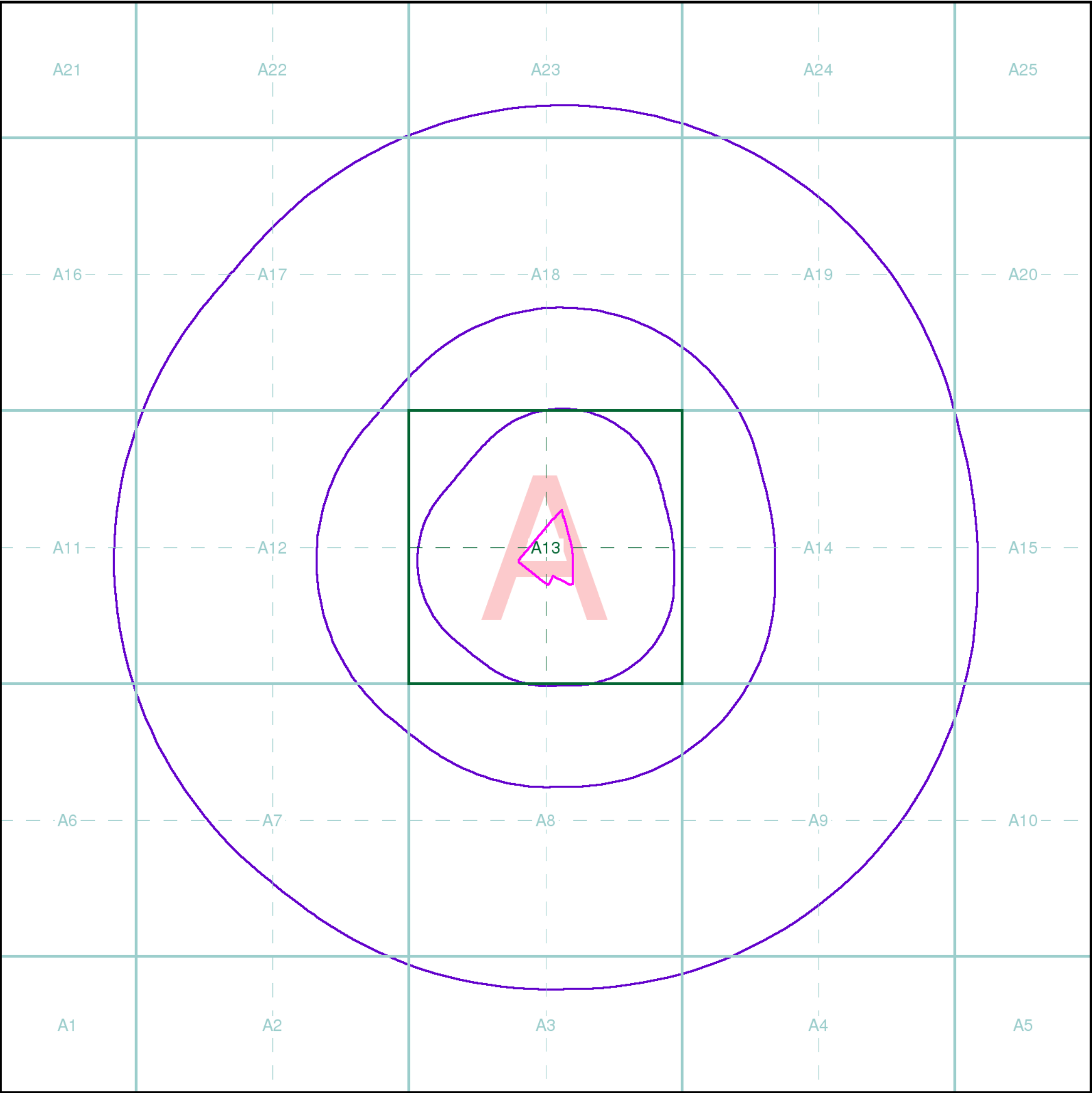


Order Details

Order Details: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

MR W Baldwin, Sutcliffe Projects Ltd, 18-20 Harrington Street, Liverpool, L2 9QA

Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397650
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

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



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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	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
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	SSA	Shirdley Hill Sand Formation	Sand	Not Supplied - Devensian
	TILLD	Till, Devensian	Clay, Sandy, Gravelly, Cobbly	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	WLSF	Wilmslow Sandstone Formation	Sandstone	Not Supplied - Early Triassic
	ETM	Etruria Formation	Mudstone	Not Supplied - Westphalian
		Faults		



Geology 1:50,000 Maps

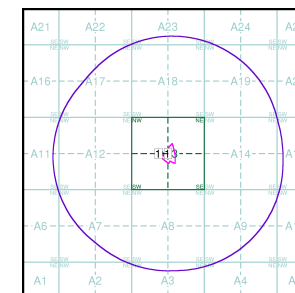
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	084
Map Name:	Wigan
Map Date:	2013
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

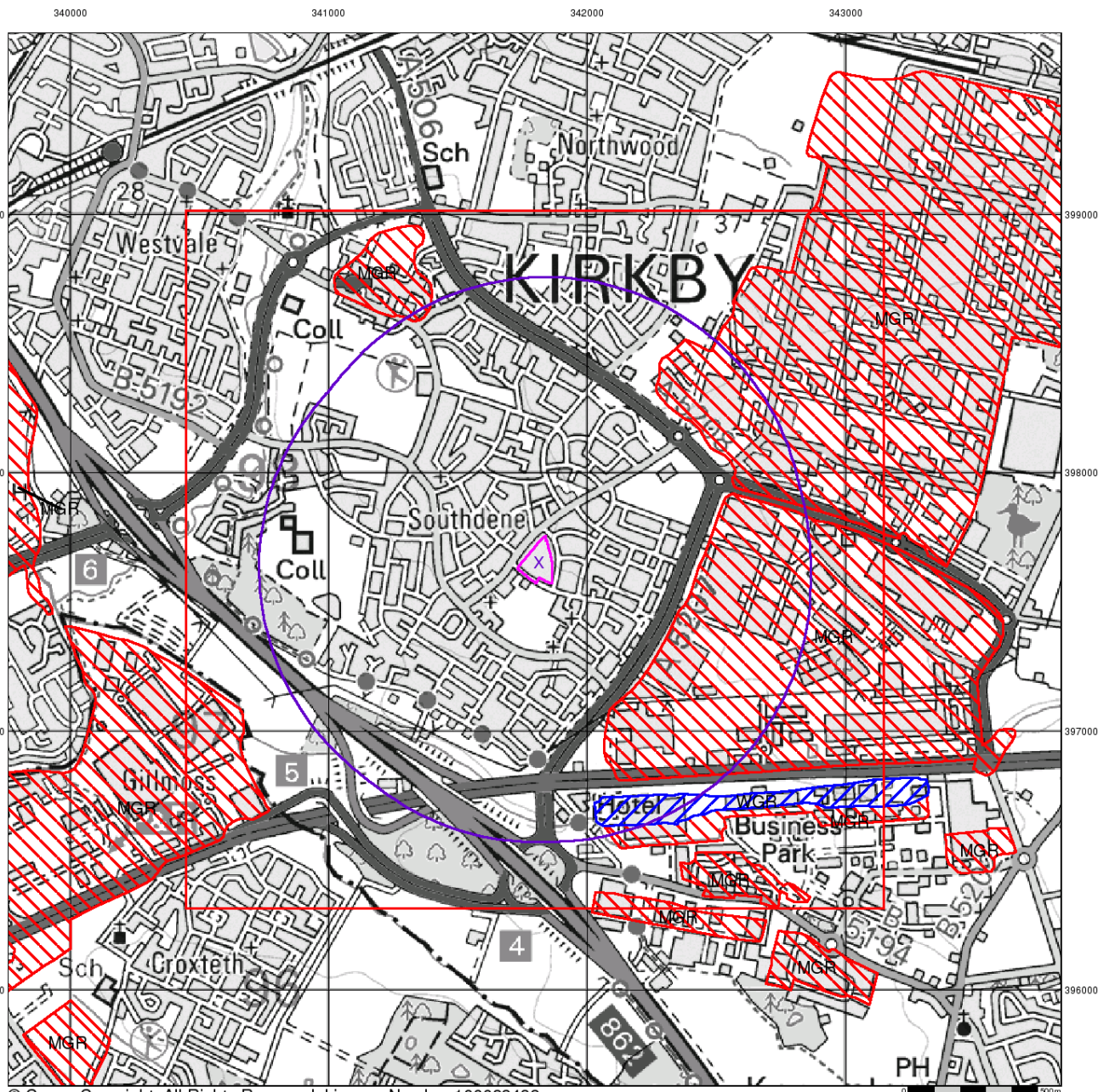
Order Number:	305765557_1_1
Customer Reference:	32996LG
National Grid Reference:	341810, 397660
Slice:	A
Site Area (Ha):	1.44
Search Buffer (m):	1000

Site Details:

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
INFORMATION GROUP

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



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Artificial Ground and Landslip

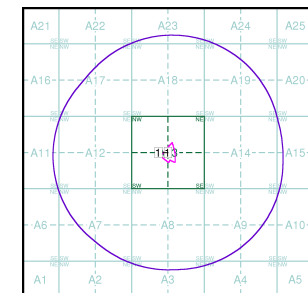
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

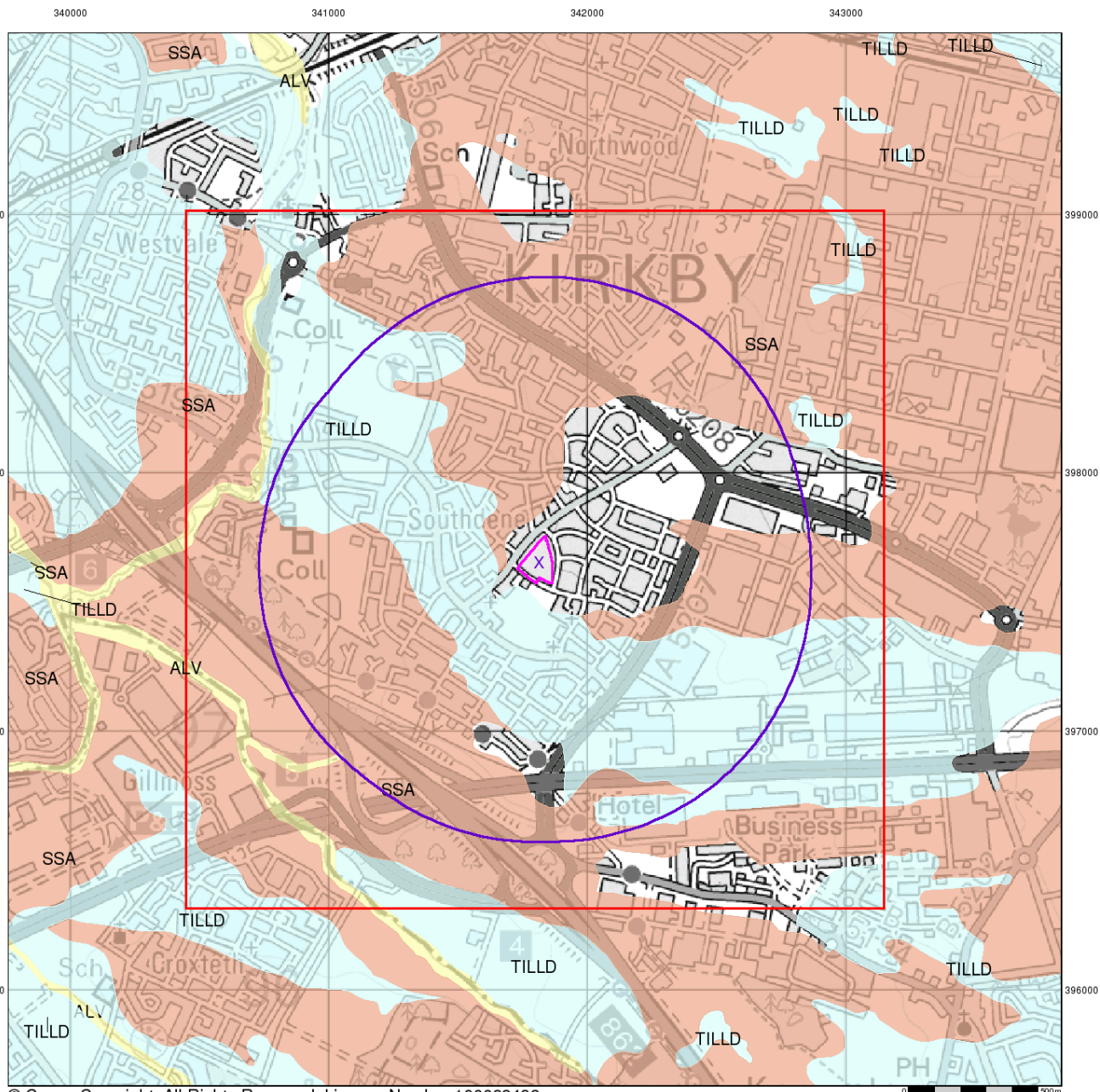
Order Number: 305765557_1_1
 Customer Reference: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details:

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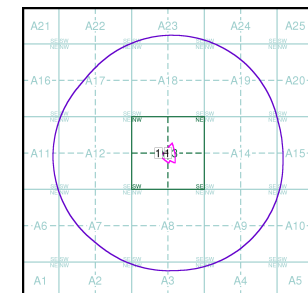
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

Order Number: 305765557_1_1
 Customer Reference: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

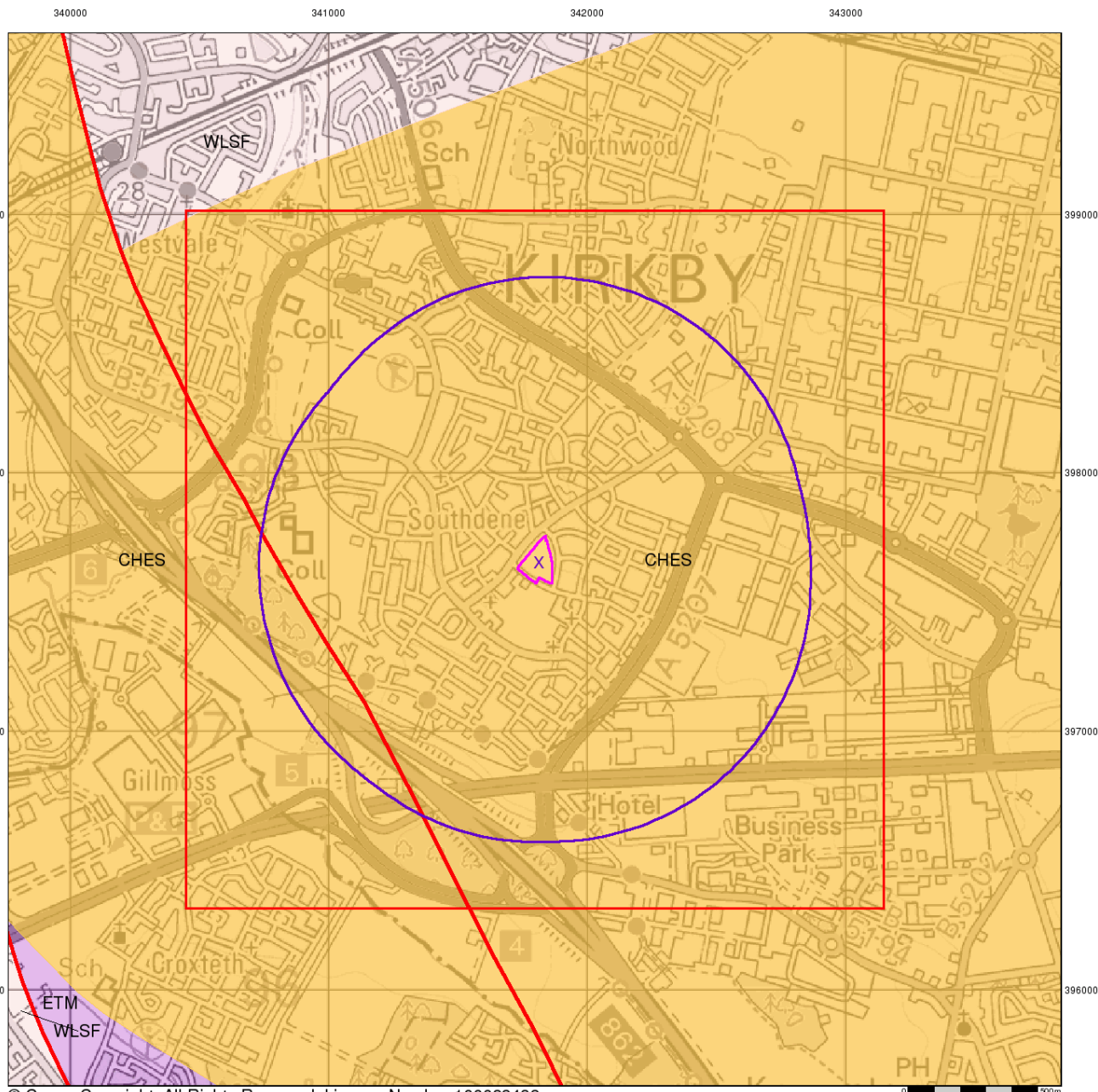
Site Details:

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Bedrock and Faults

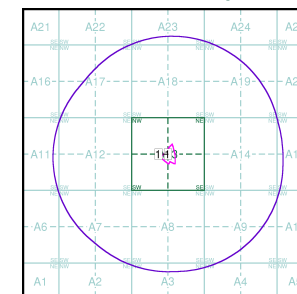
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 305765557_1_1
Customer Reference: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

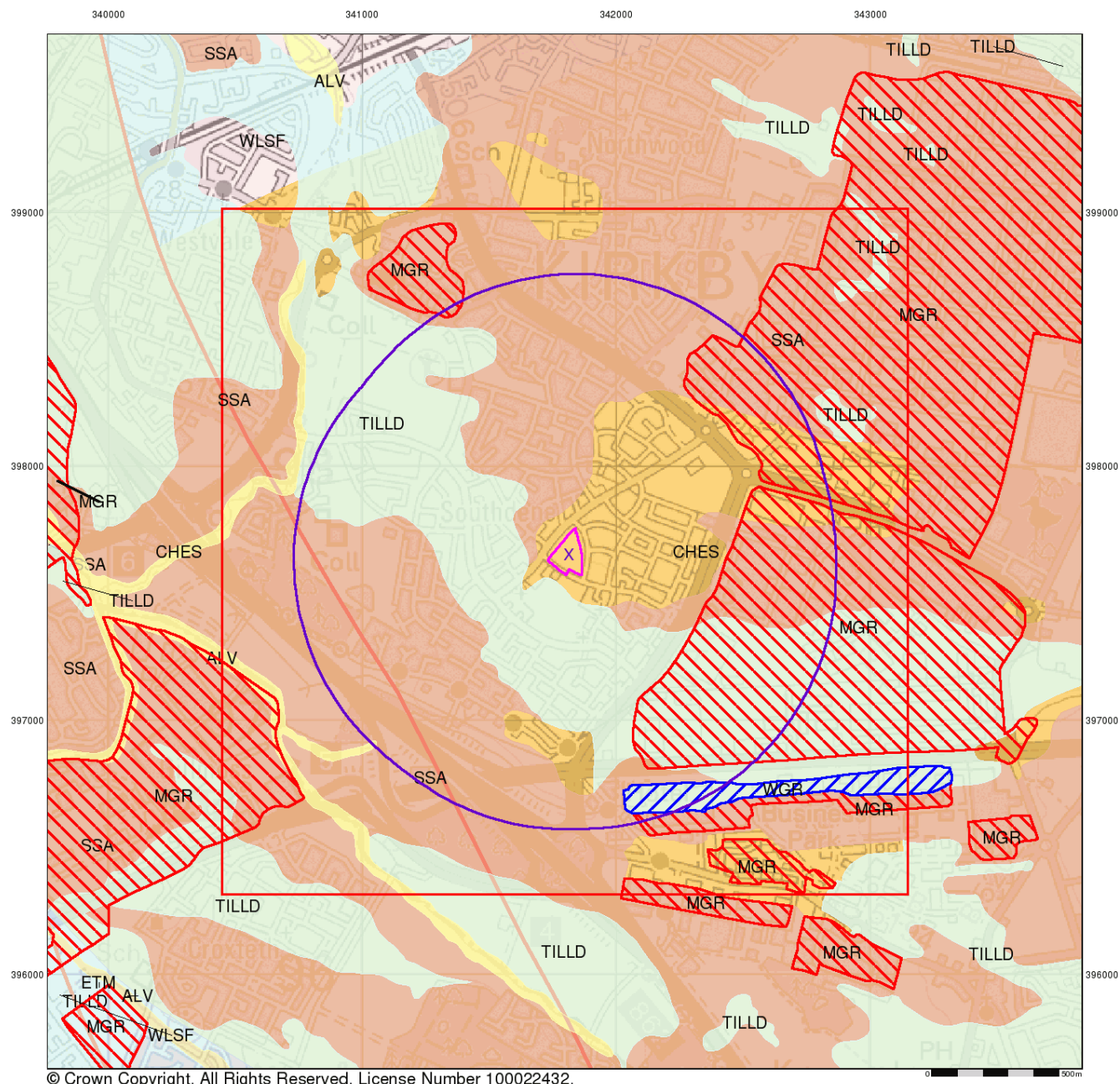
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Combined Surface Geology

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

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

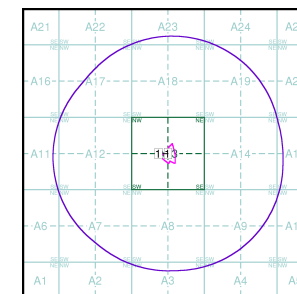
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 305765557_1_1
Customer Reference: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

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Historical Mapping Legends

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



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



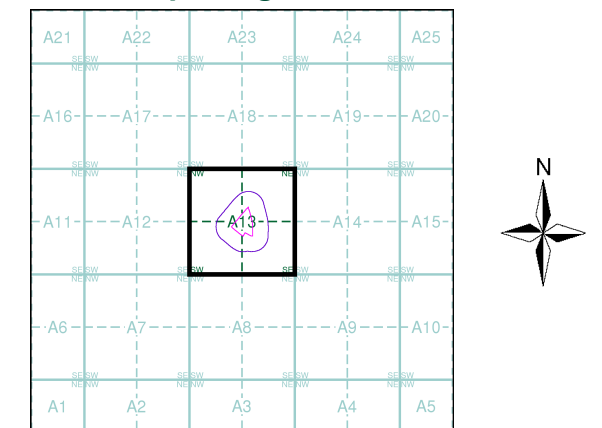
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1927	4
Ordnance Survey Plan	1:1,250	1960 - 1961	5
Ordnance Survey Plan	1:2,500	1960 - 1962	6
Ordnance Survey Plan	1:1,250	1967 - 1984	7
Ordnance Survey Plan	1:2,500	1970 - 1971	8
Additional SIMs	1:1,250	1979 - 1989	9
Large-Scale National Grid Data	1:1,250	1993	10
Large-Scale National Grid Data	1:1,250	1994 - 1995	11
Large-Scale National Grid Data	1:1,250	1996	12
Large-Scale National Grid Data	1:1,250	1996	13
Historical Aerial Photography	1:2,500	2001	14

Historical Map - Segment A13



Order Details

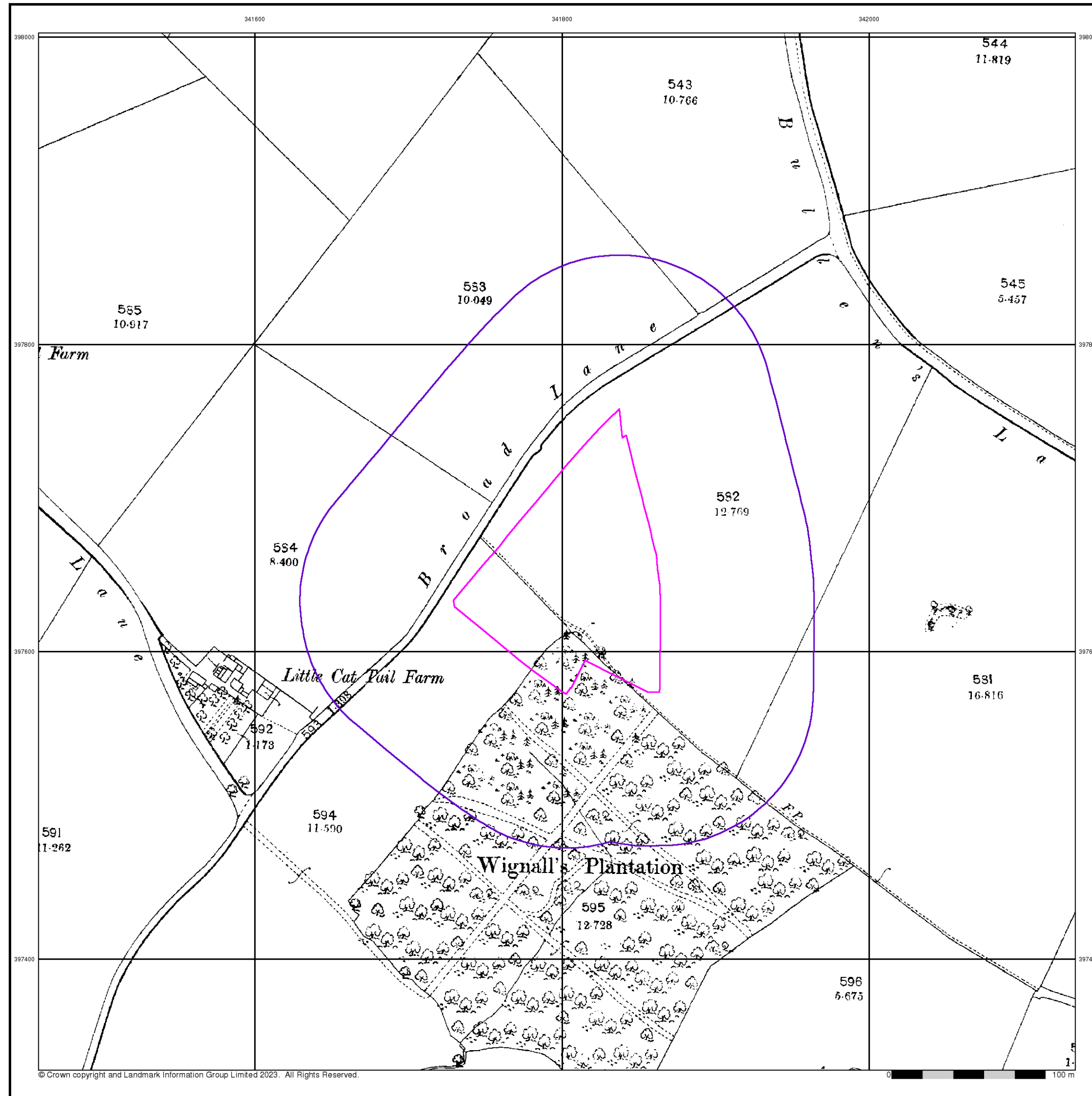
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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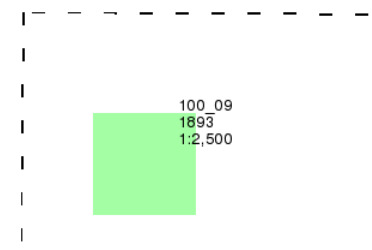
Lancashire And Furness

Published 1893

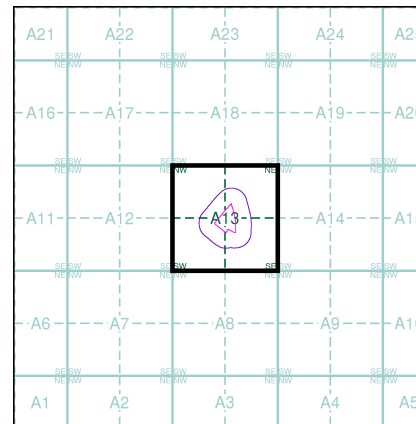
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

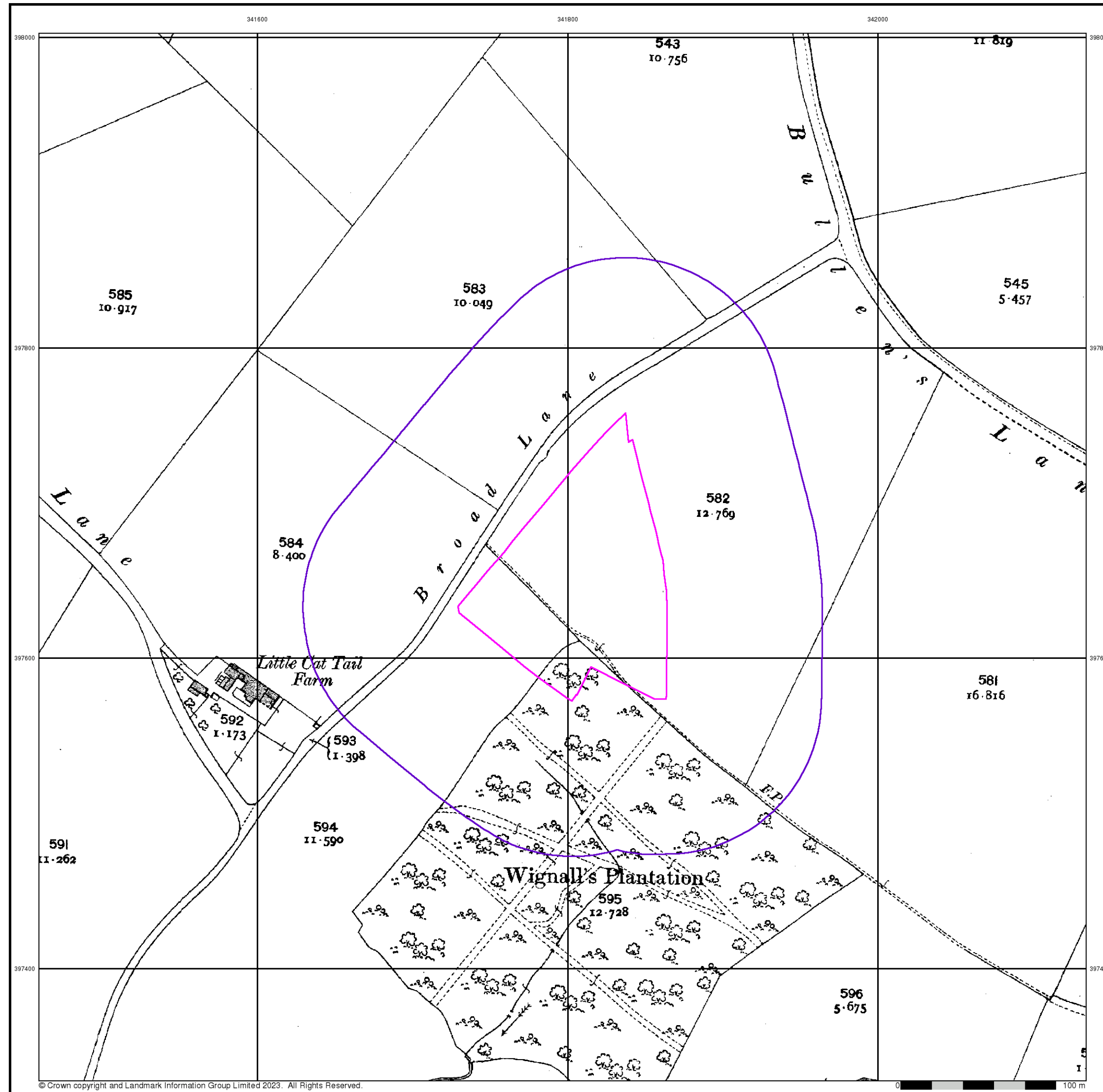
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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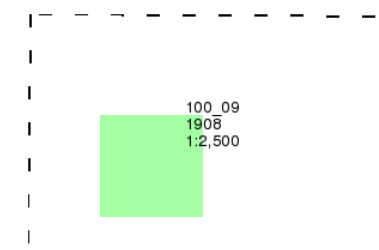
Lancashire And Furness

Published 1908

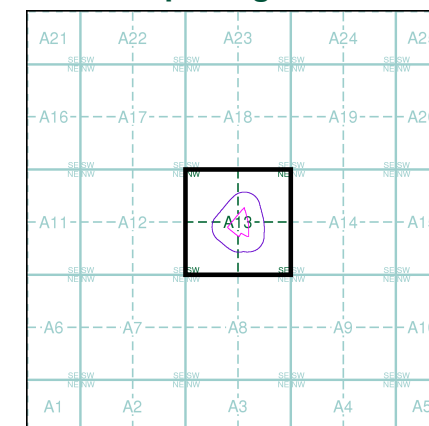
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

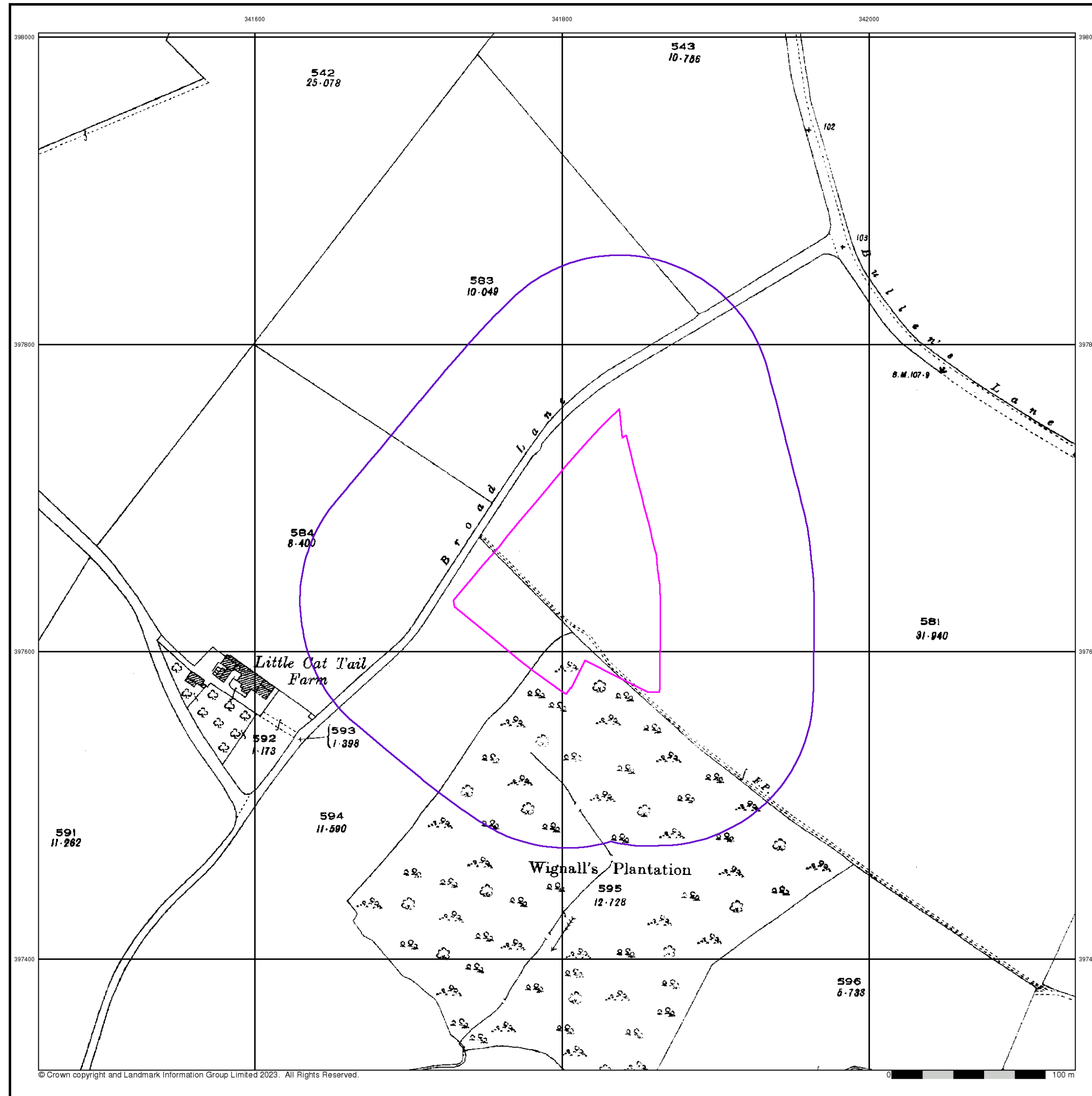
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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Site Details

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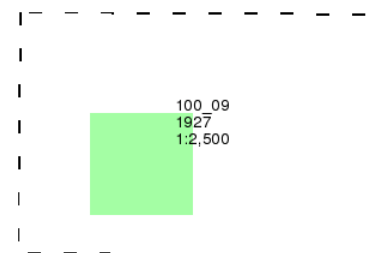
Lancashire And Furness

Published 1927

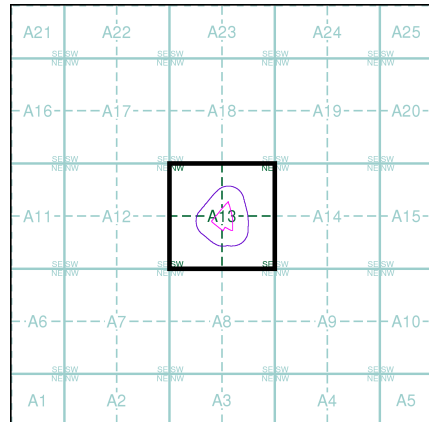
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1960 - 1961

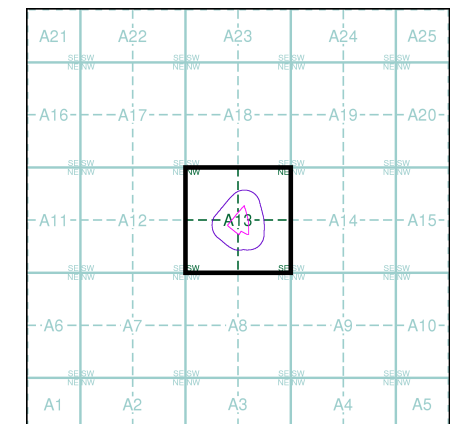
Source map scale - 1:1,250

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)

SJ4198SW	SJ4198SE	SJ4298SW
1961	1961	1961
1:1,250	1:1,250	1:1,250
SJ4197NW	SJ4197NE	SJ4297NW
1961	1961	1960
1:1,250	1:1,250	1:1,250
SJ4197SW	SJ4197SE	SJ4297SW
1961	1961	1960
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Ordnance Survey Plan

Published 1960 - 1962

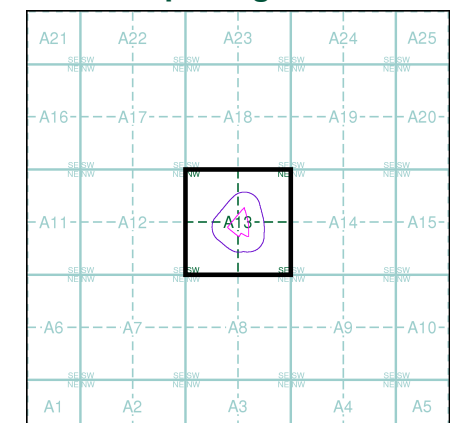
Source map scale - 1:2,500

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)

SJ4198 1962 12,500	SJ4298 1962 12,500
SJ4197 1961 12,500	SJ4297 1960 12,500

Historical Map - Segment A13

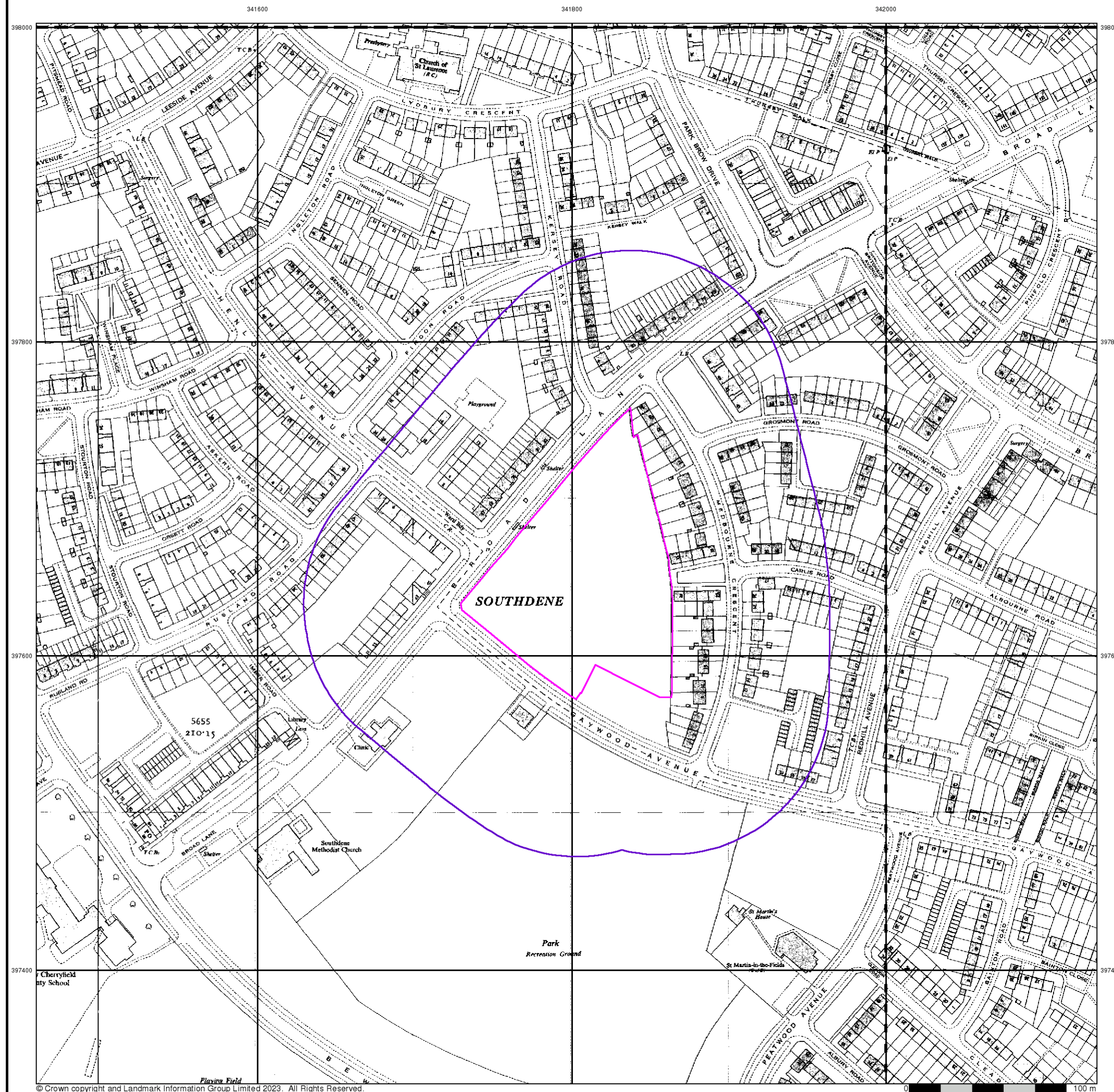


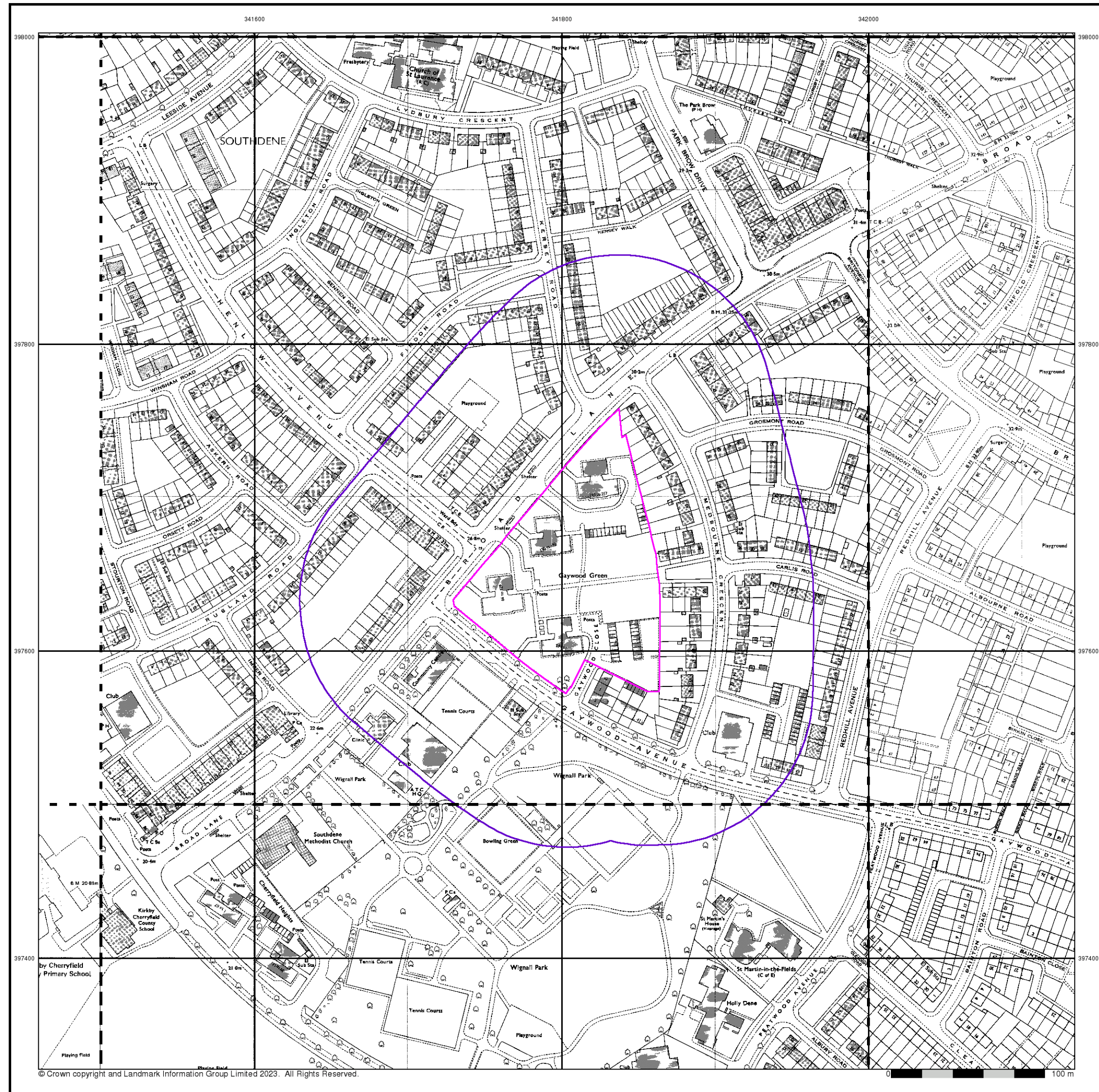
Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 100

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT





Ordnance Survey Plan
Published 1967 - 1984
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.

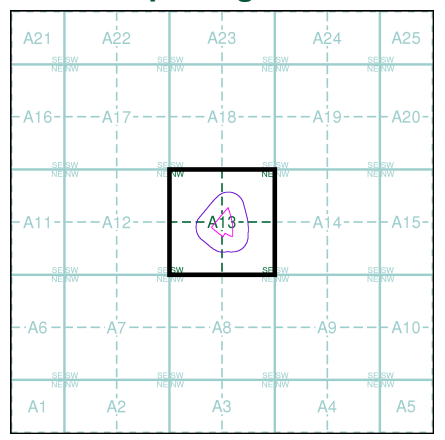
Map Name(s) and Date(s)

SJ4198SW	SJ4198SE	SJ4298SW
1975	1976	1968
1:1,250	1:1,250	1:1,250

	SJ4197NE	SJ4297NW
	1974	1972
	1:1,250	1:1,250

SJ4197SW	SJ4197SE	SJ4297SW
1984	1974	1967
1:1,250	1:1,250	1:1,250

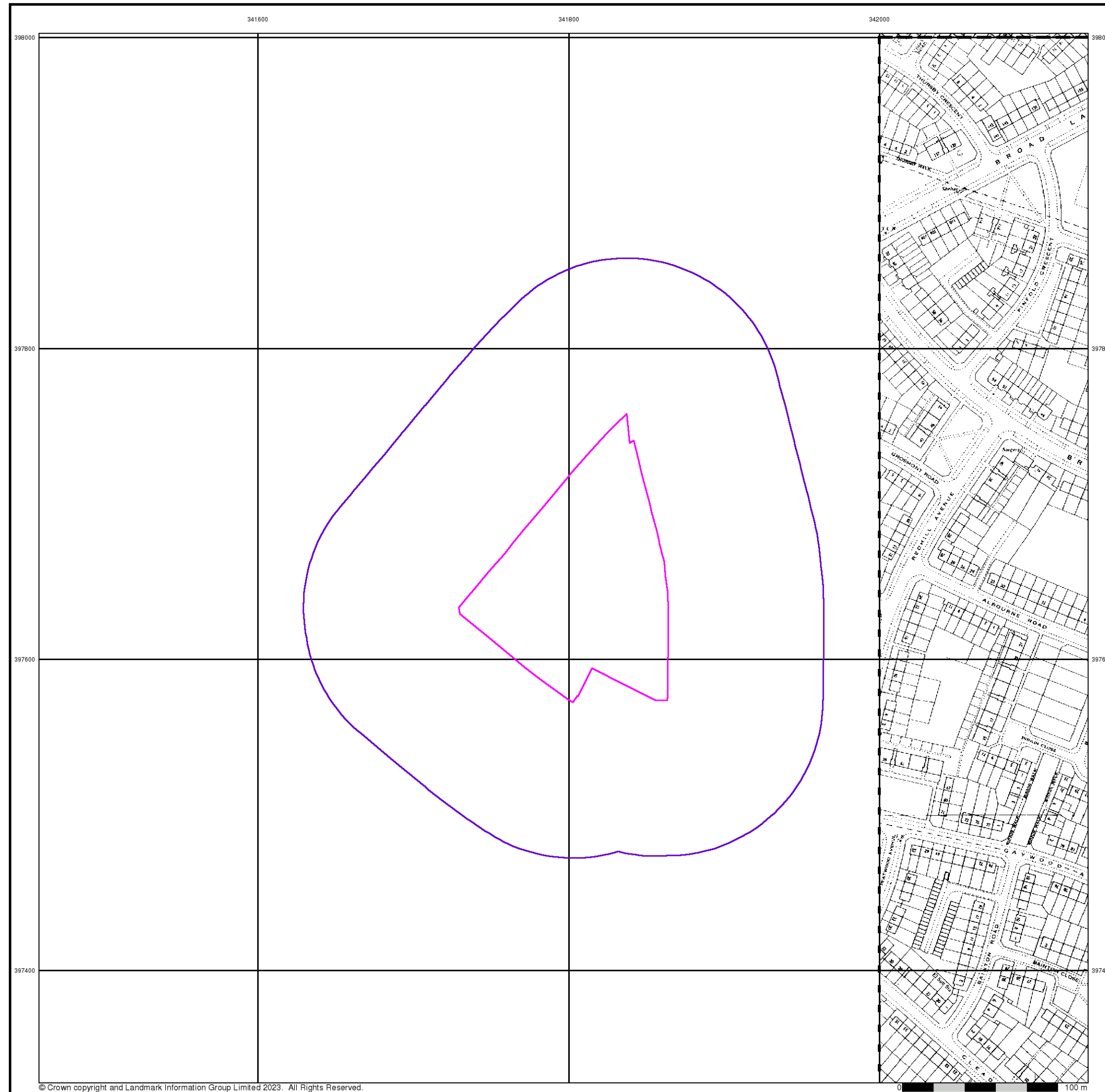
Historical Map - Segment A13



Order Details
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1970 - 1971

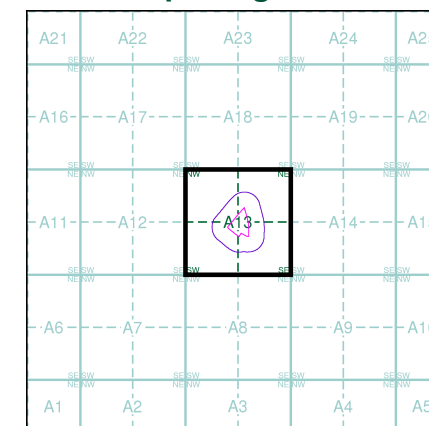
Source map scale - 1:2,500

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)

	SJ4298 1971 1:2,500
	SJ4297 1970 1:2,500

Historical Map - Segment A13



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details

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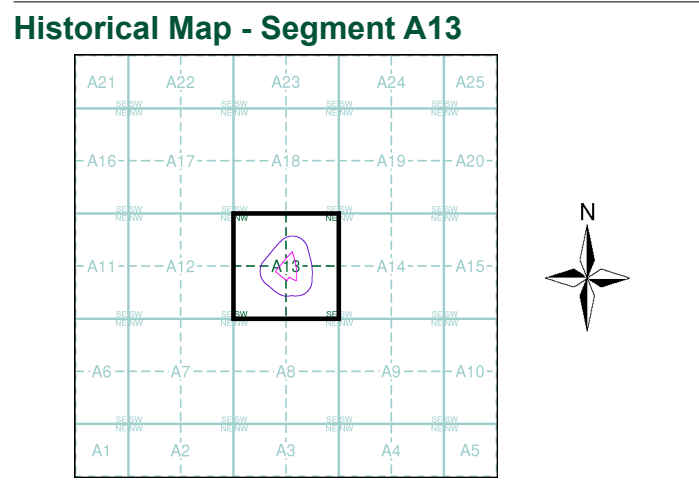
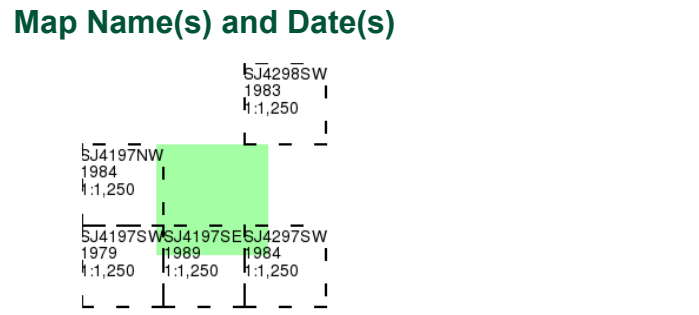


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Additional SIMs
Published 1979 - 1989
Source map scale - 1:1,250

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.



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details
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Large-Scale National Grid Data

Published 1993

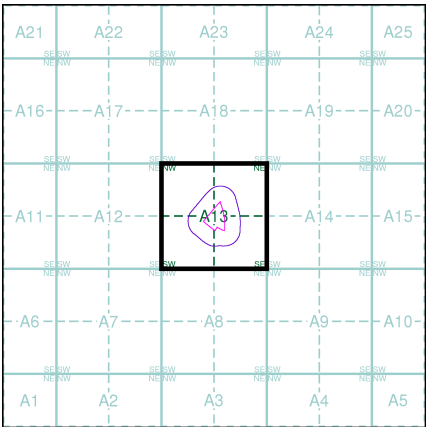
Source map scale - 1:1,250

'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)

5J4198SW	5J4198SE	5J4298SW
1993	1993	1993
1:1,250	1:1,250	1:1,250
5J4197NW	5J4197NE	5J4297NW
1993	1993	1993
1:1,250	1:1,250	1:1,250
5J4197SW	5J4197SE	5J4297SW
1993	1993	1993
1:1,250	1:1,250	1:1,250

Historical Map - Segment A13



Order Details

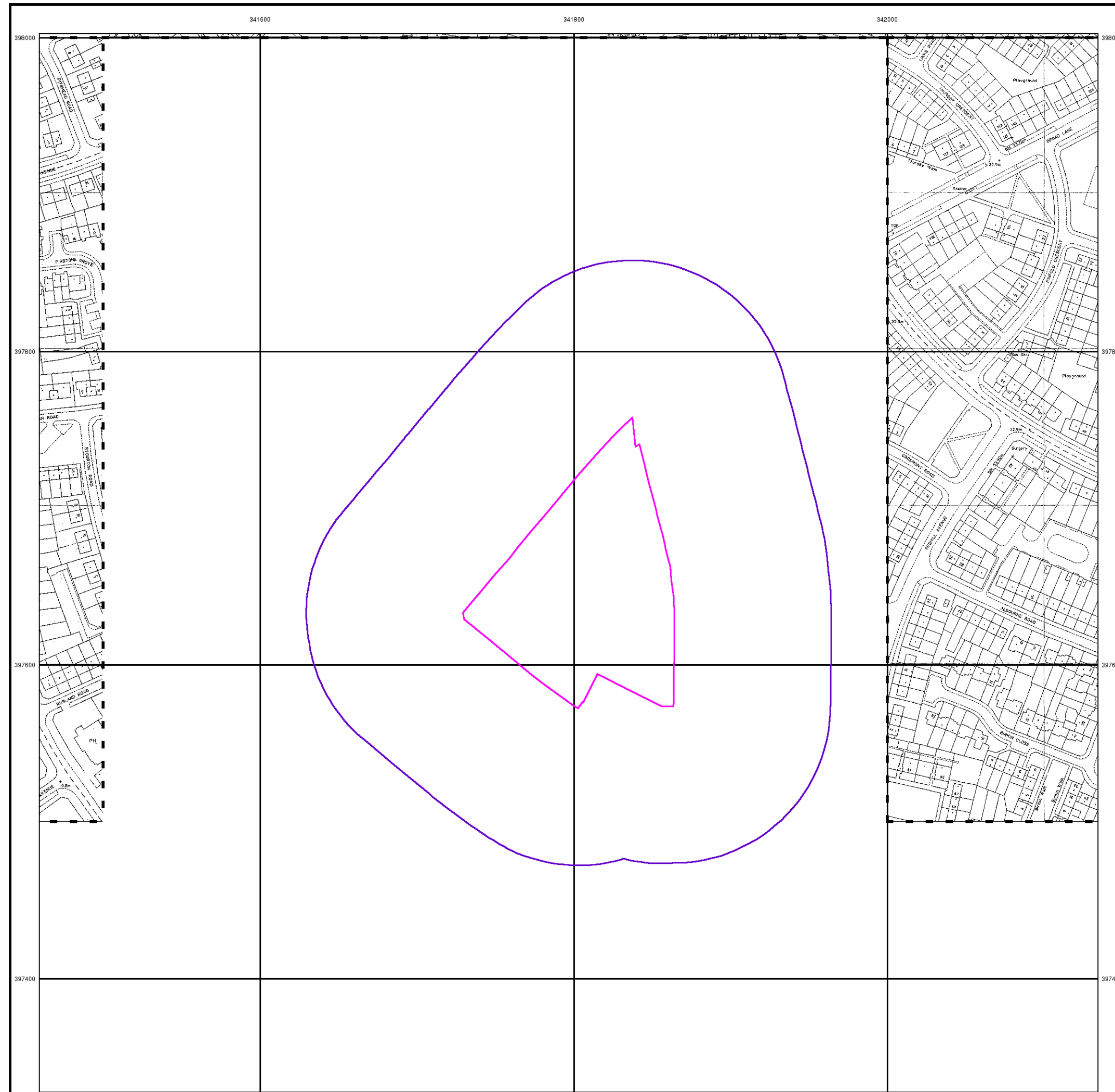
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details

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Large-Scale National Grid Data

Published 1994 - 1995

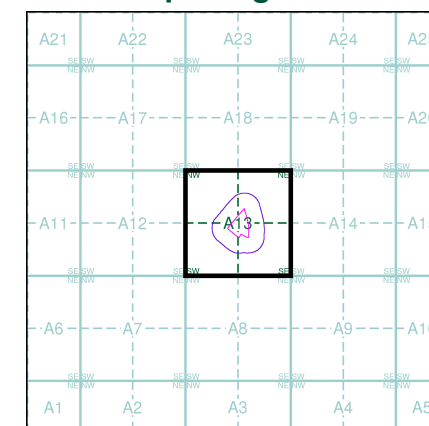
Source map scale - 1:1,250

'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)

SJ4198SE 1994 1:1,250	SJ4298SW 1995 1:1,250
SJ4197NW 1994 1:1,250	SJ4297NW 1994 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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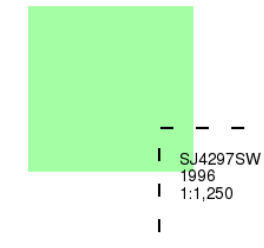
Large-Scale National Grid Data

Published 1996

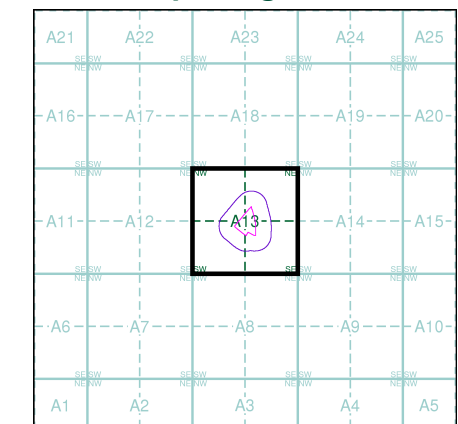
Source map scale - 1:1,250

'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 A13

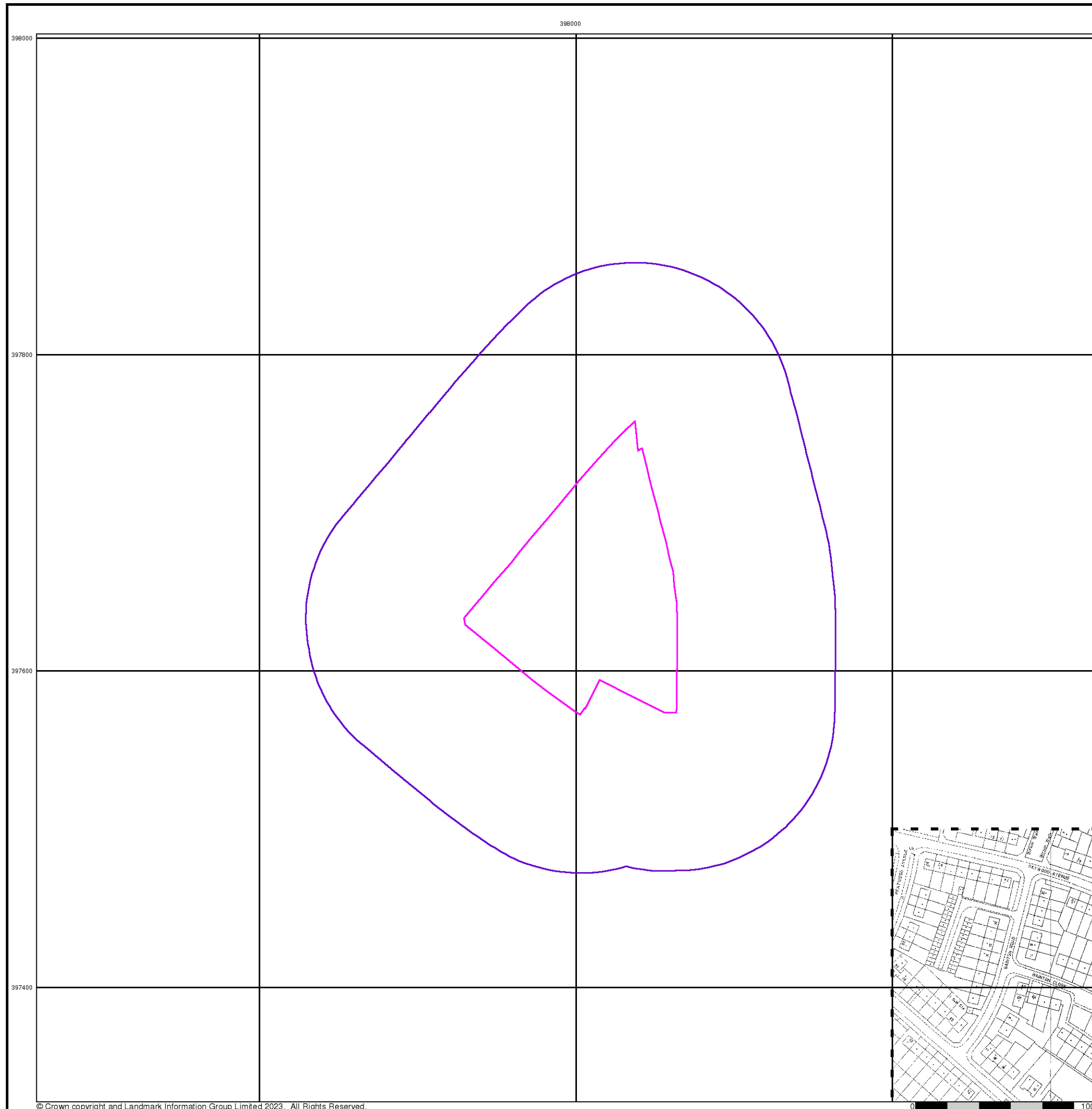


Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



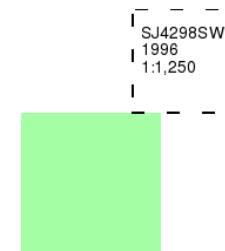
Large-Scale National Grid Data

Published 1996

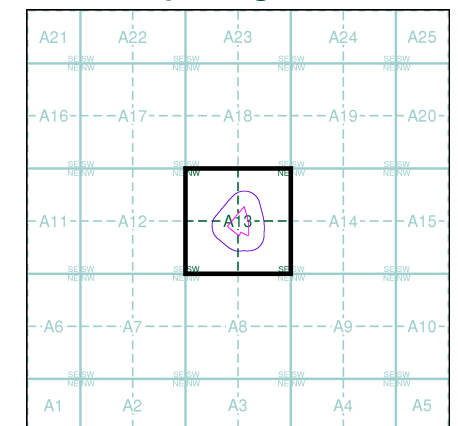
Source map scale - 1:1,250

'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 A13

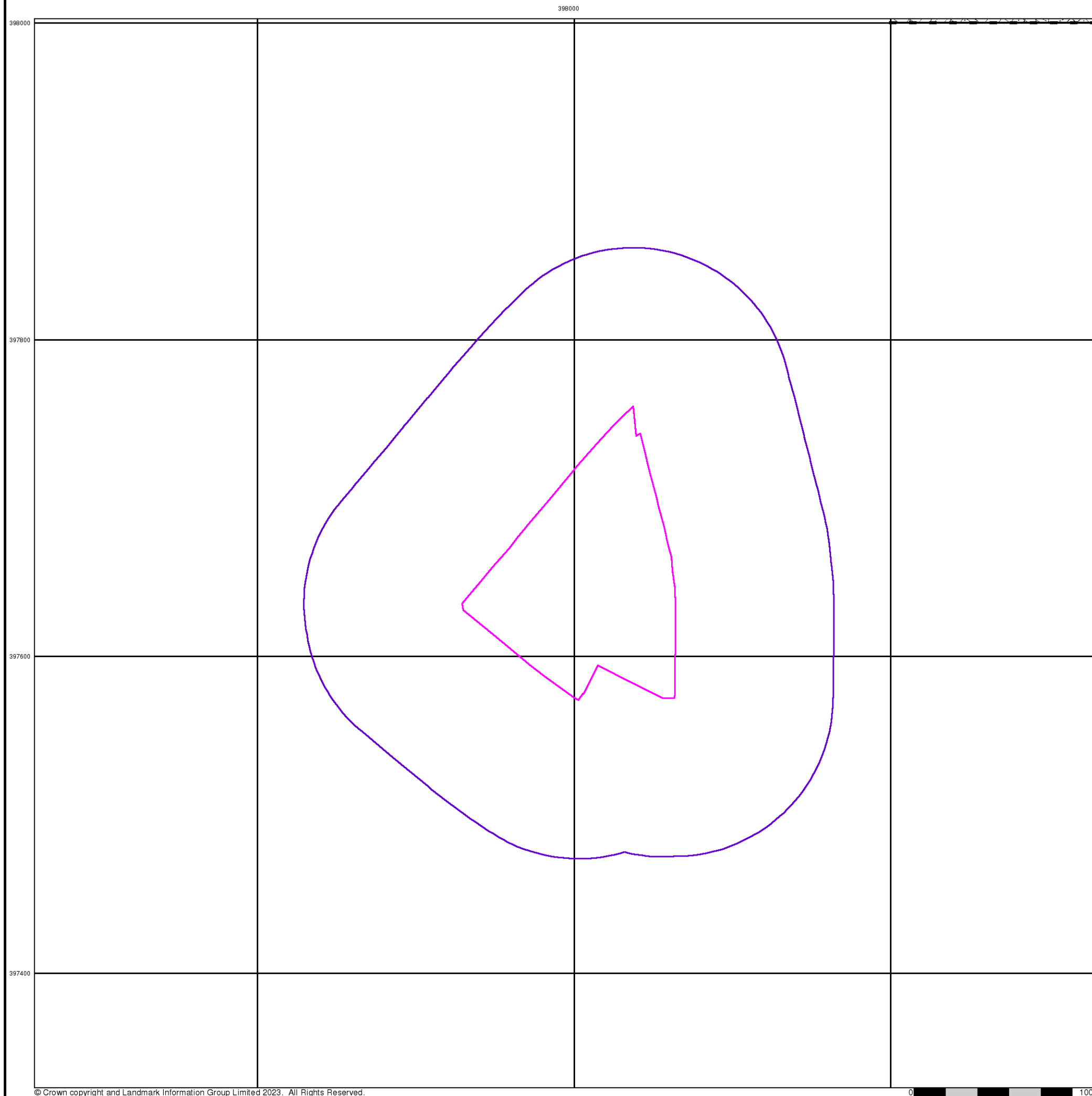


Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 100

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

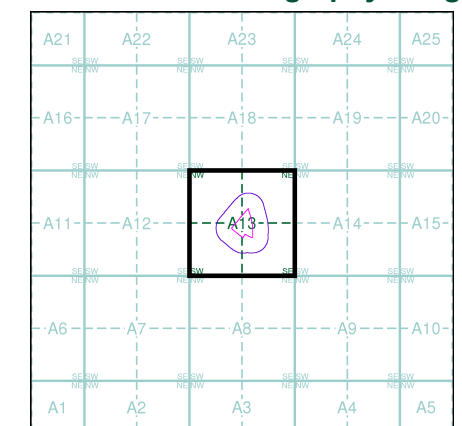


Historical Aerial Photography

Published 2001

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 100

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

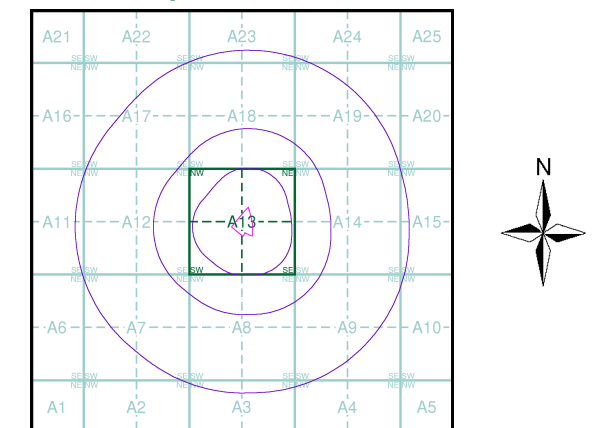
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1909	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1928	8
Lancashire And Furness	1:10,560	1938	9
Lancashire And Furness	1:10,560	1939	10
Ordnance Survey Plan	1:10,000	1956	11
Ordnance Survey Plan	1:10,000	1966	12
Liverpool	1:10,000	1974	13
Ordnance Survey Plan	1:10,000	1978	14
Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2022	18

Historical Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

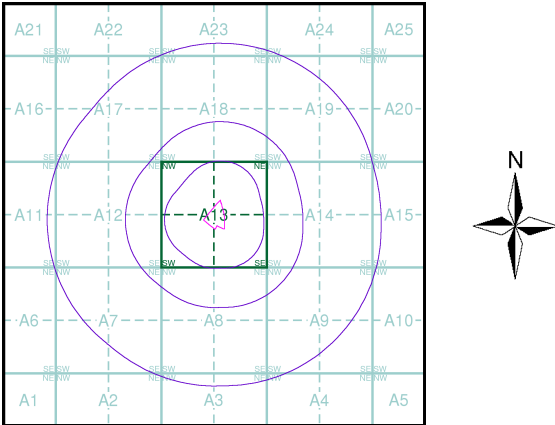
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1909	5
Lancashire And Furness	1:10,560	1928	6
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Lancashire And Furness	1:10,560	1928	8
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Ordnance Survey Plan	1:10,000	1990	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2022	18

Russian Map - Slice A



Order Details

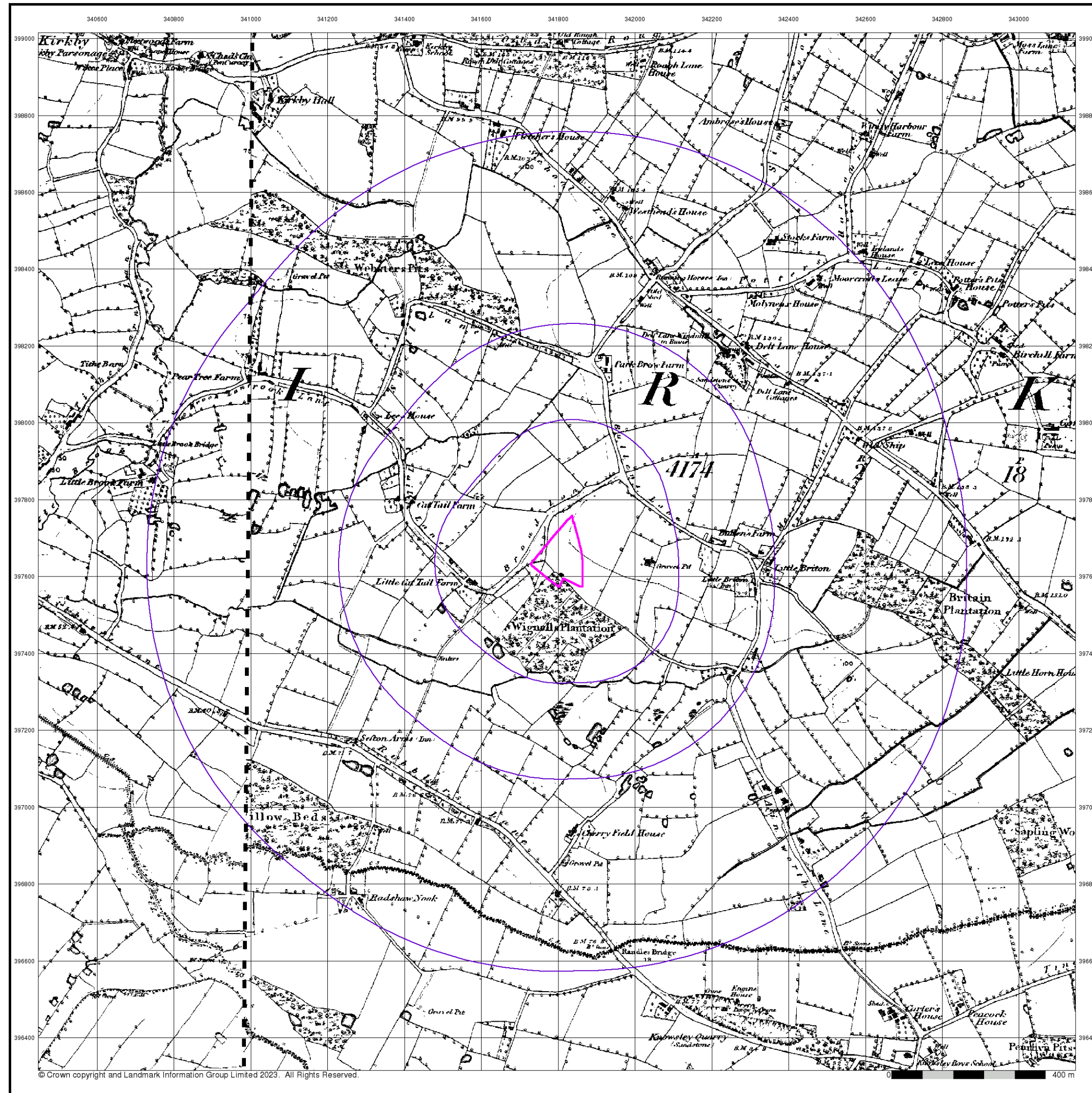
Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

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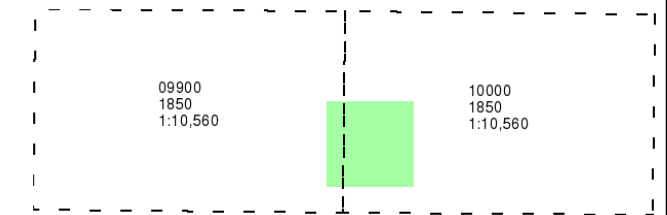
Lancashire And Furness

Published 1850

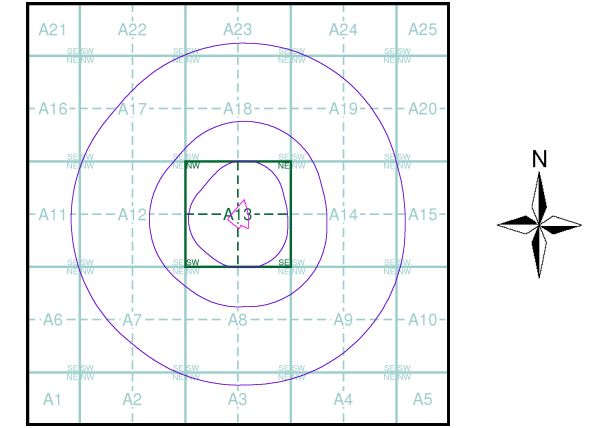
Source map scale - 1:10,560

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



Order Details

Order Number: 305765557_1_1
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National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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Site Details

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Lancashire And Furness

Published 1894

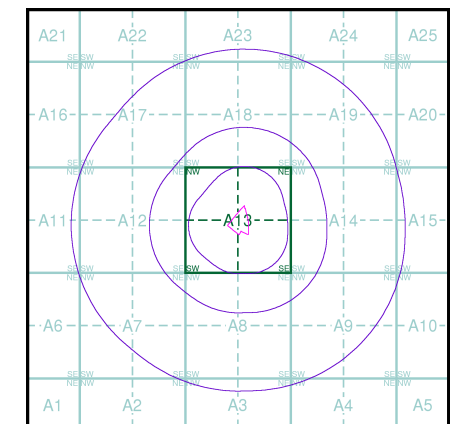
Source map scale - 1:10,560

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)

099NE 1894 1:10,560	100NW 1894 1:10,560
099SE 1894 1:10,560	100SW 1894 1:10,560

Historical Map - Slice A

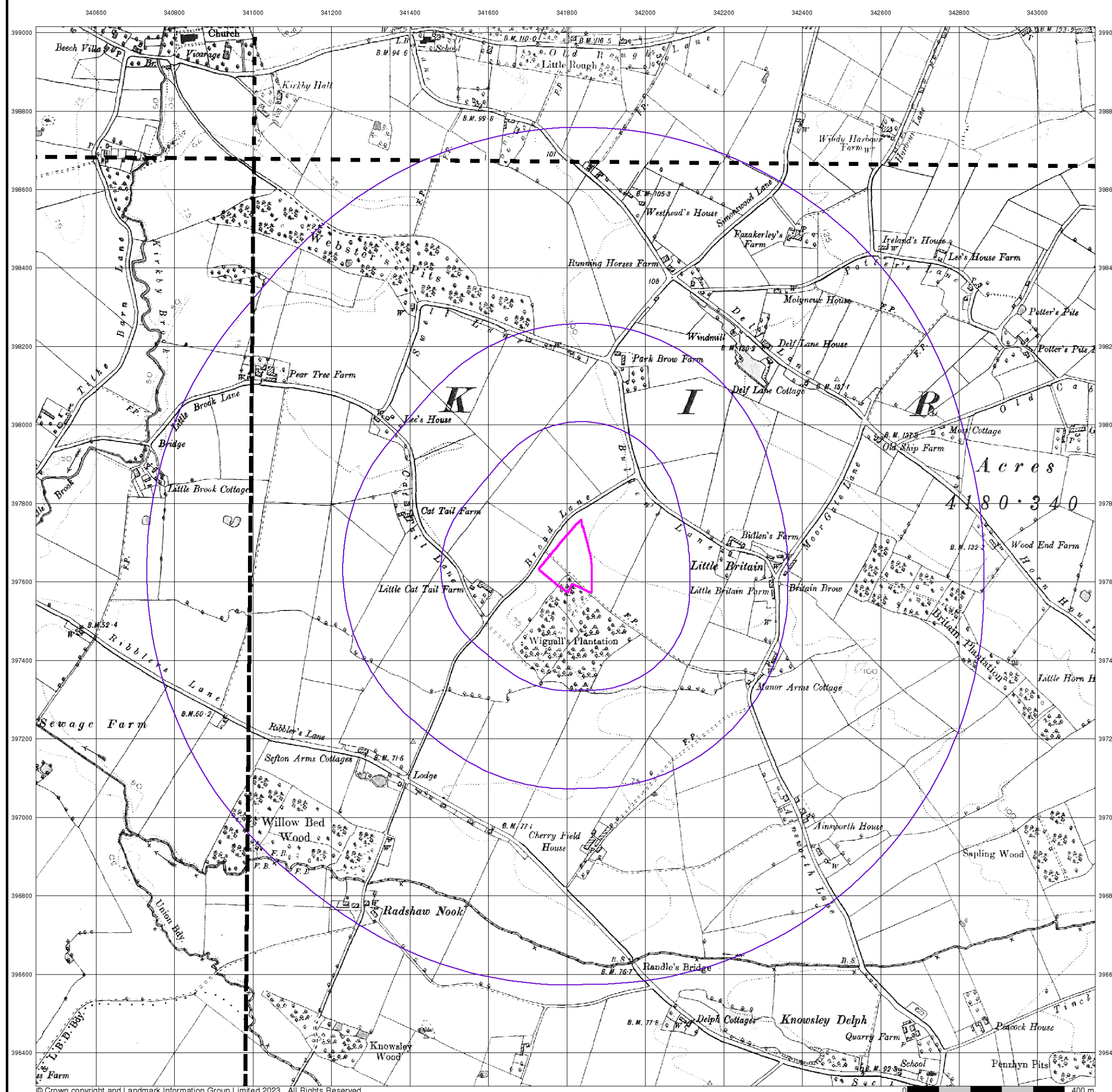


Order Details

Order Number: 305765557_1_1
 Customer Ref: 32996LG
 National Grid Reference: 341810, 397660
 Slice: A
 Site Area (Ha): 1.44
 Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



Lancashire And Furness

Published 1909

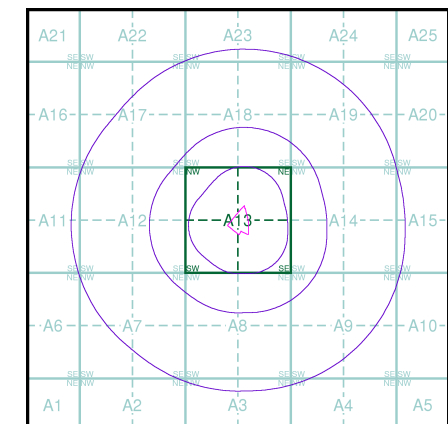
Source map scale - 1:10,560

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)

099NE 1909 1:10,560	100NW 1909 1:10,560
099SE 1909 1:10,560	100SW 1909 1:10,560

Historical Map - Slice A

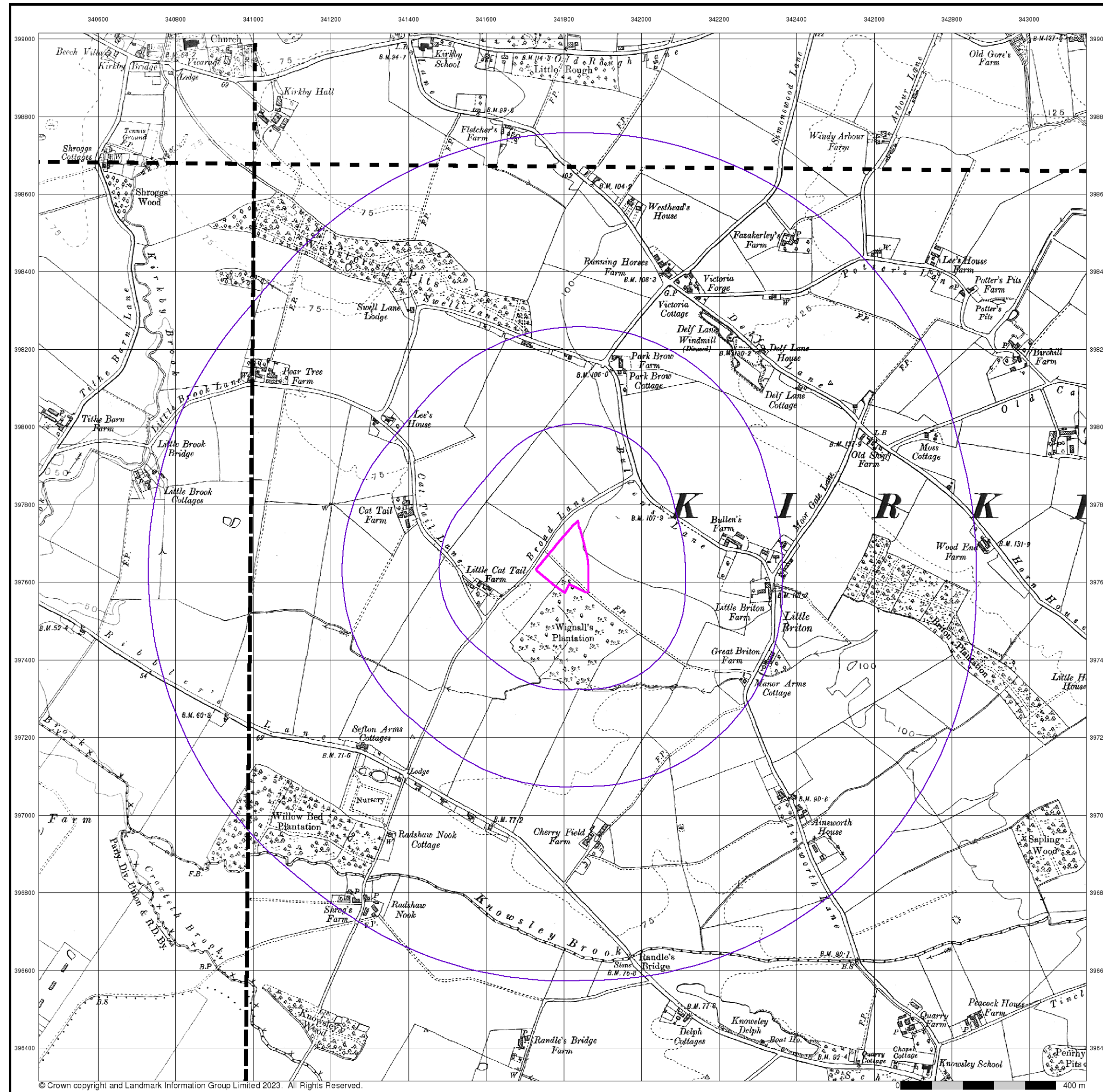


Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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Lancashire And Furness

Published 1928

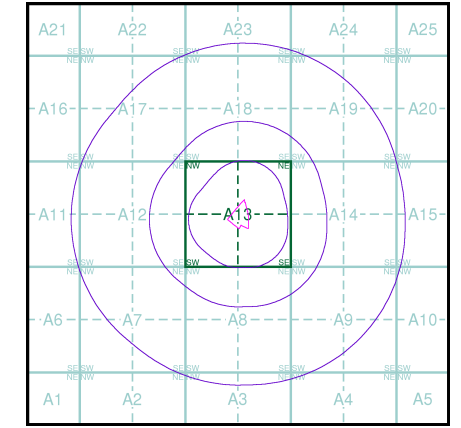
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)

099NE 1928 1:10,560	100NW 1928 1:10,560
099SE 1928 1:10,560	100SW 1928 1:10,560

Historical Map - Slice A



Order Details

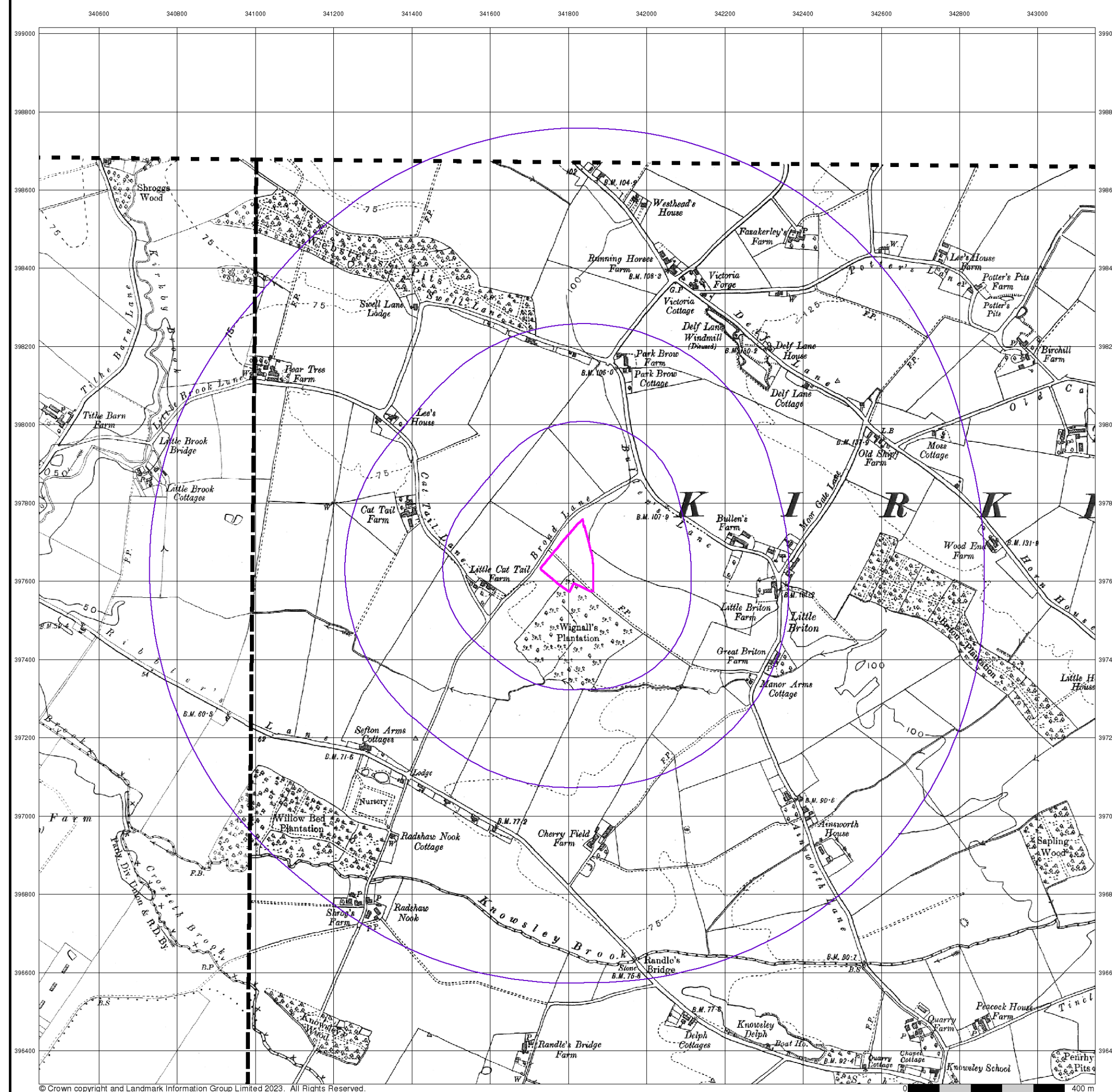
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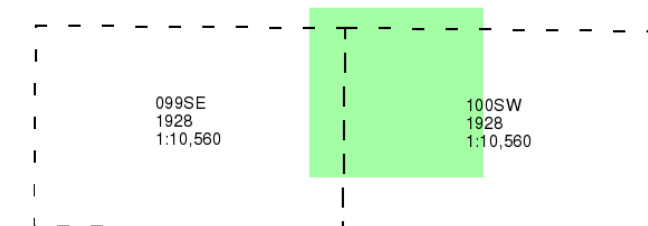
Lancashire And Furness

Published 1928

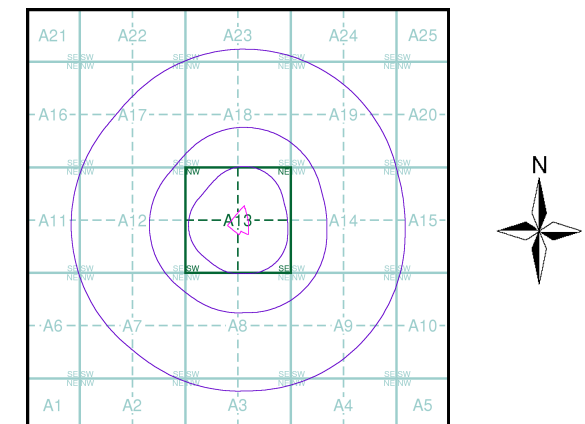
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

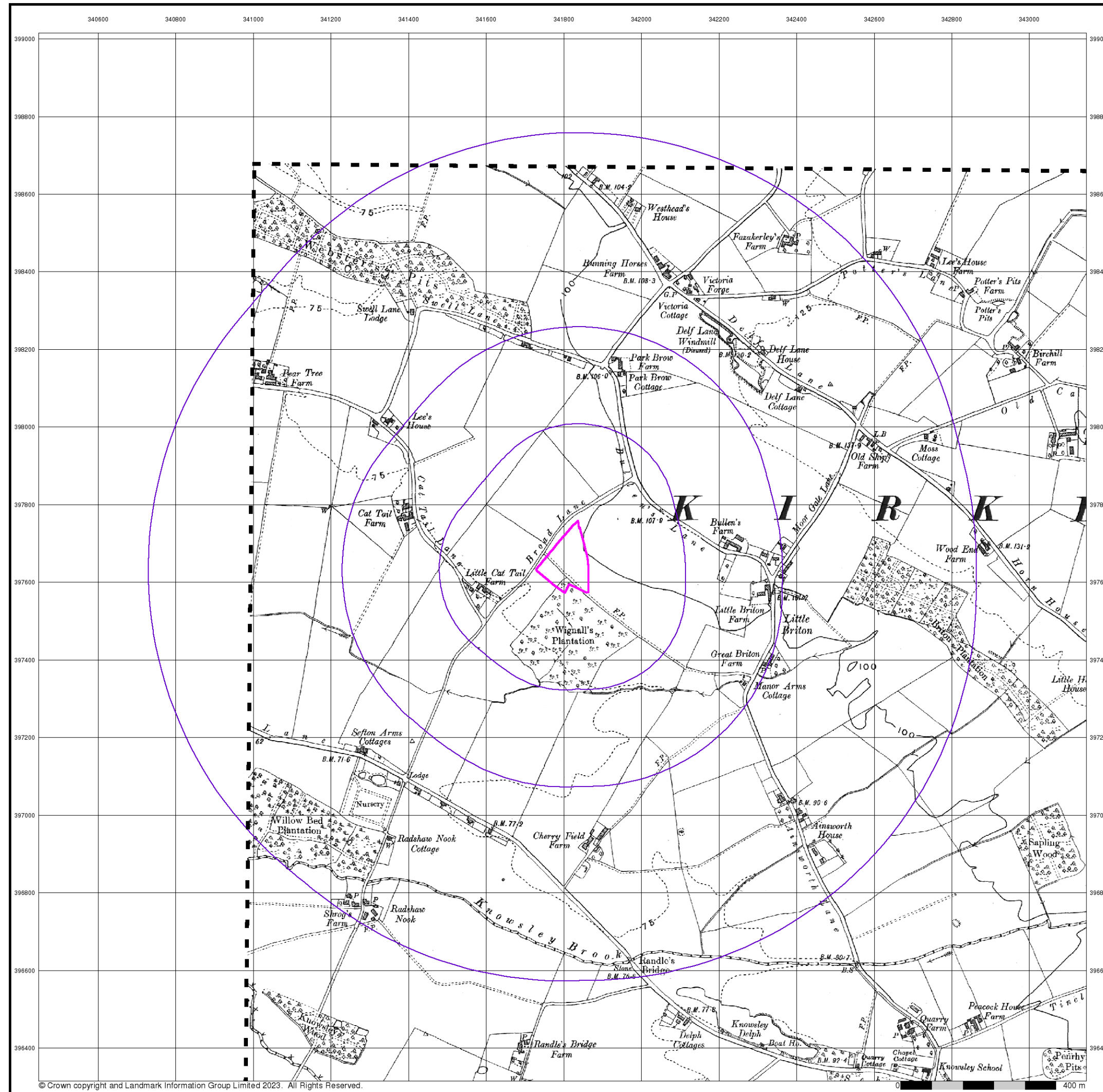
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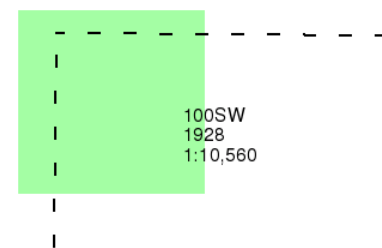
Lancashire And Furness

Published 1928

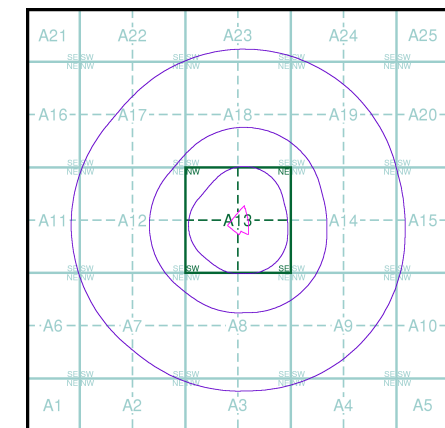
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

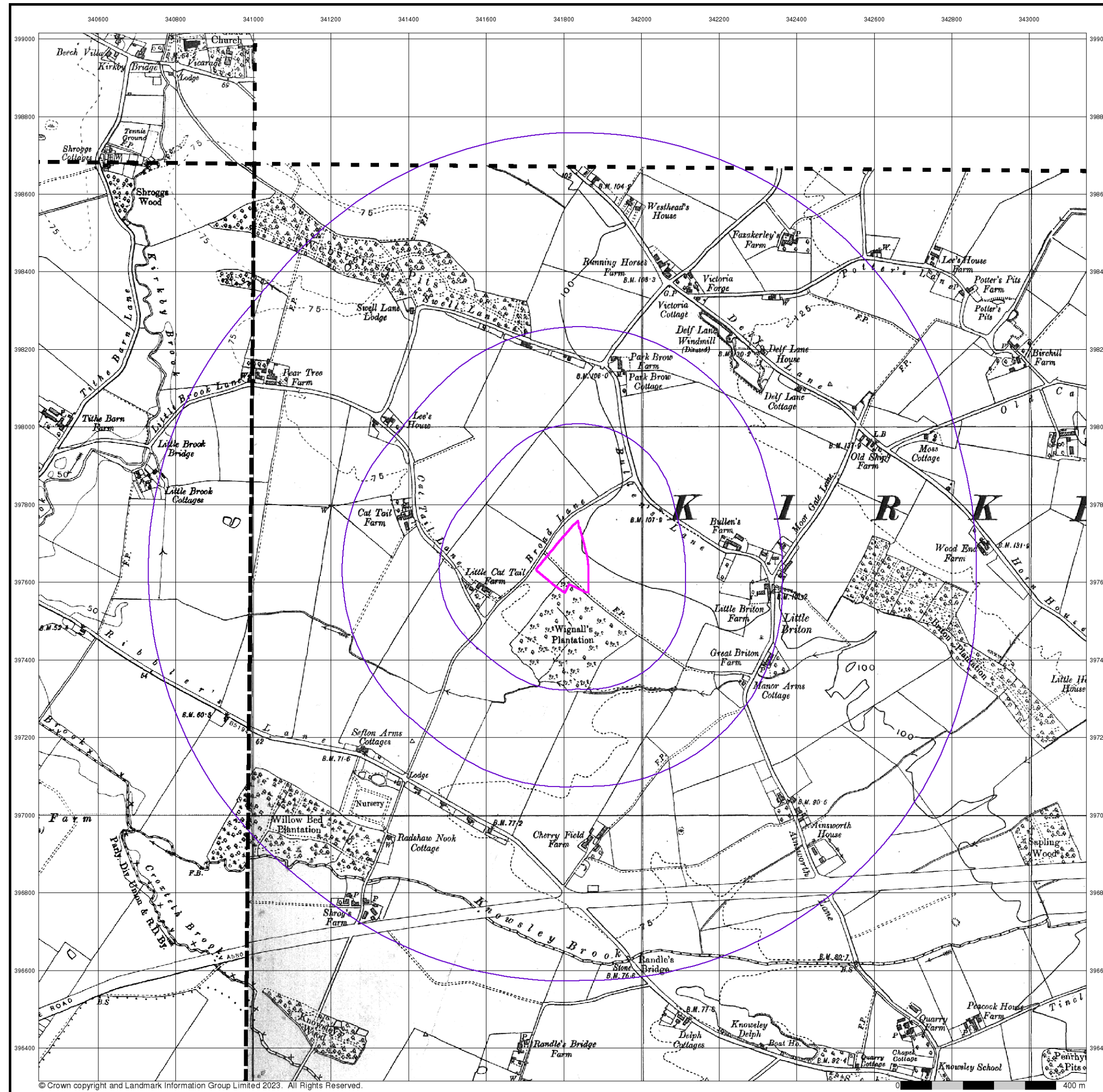
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Lancashire And Furness

Published 1938

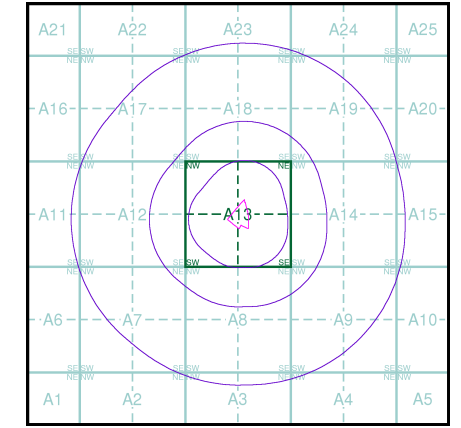
Source map scale - 1:10,560

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Map Name(s) and Date(s)

099NE 1938 1:10,560	
099SE 1938 1:10,560	100SW 1938 1:10,560

Historical Map - Slice A



Order Details

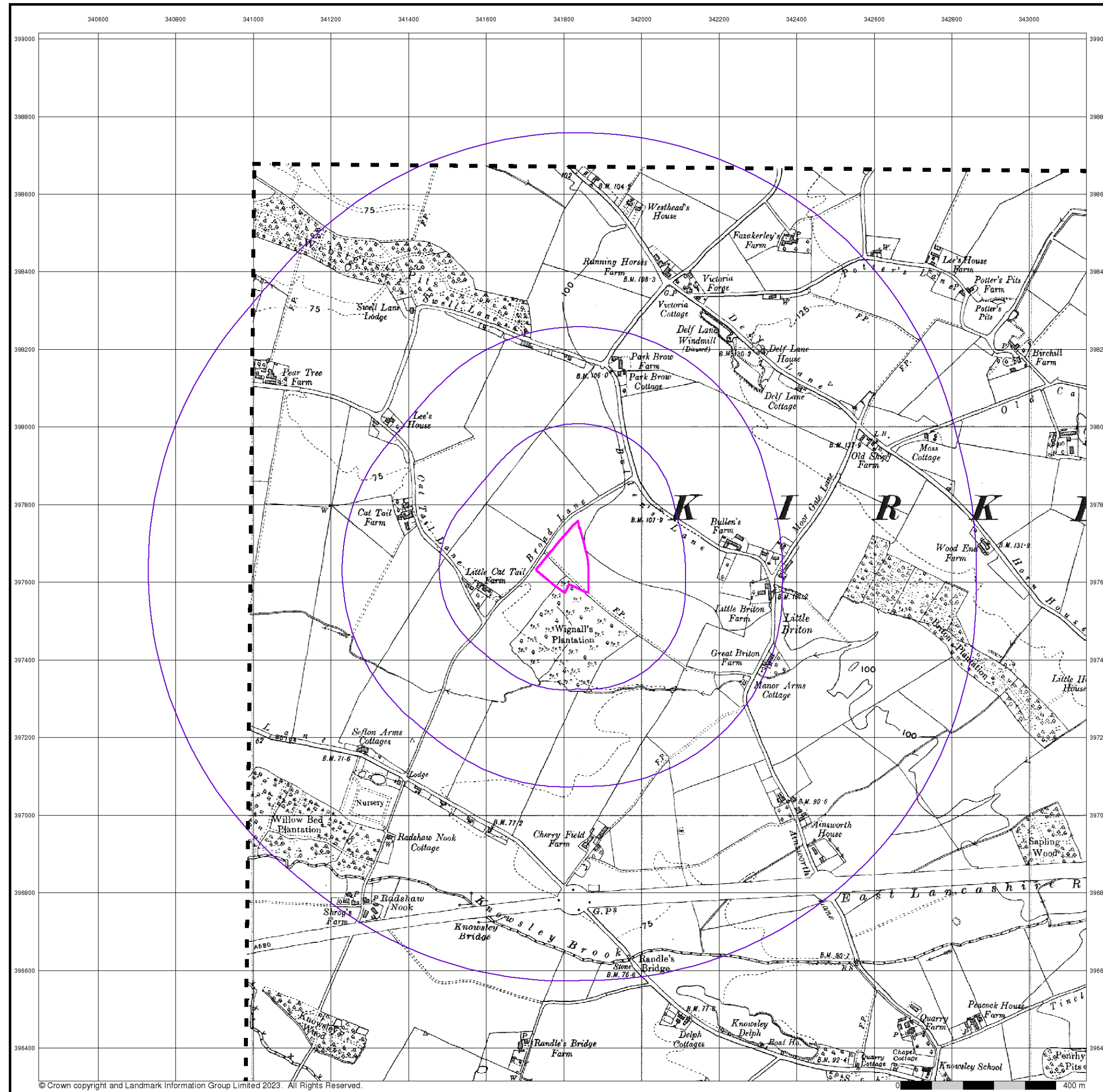
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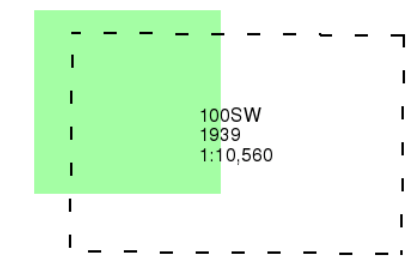
Lancashire And Furness

Published 1939

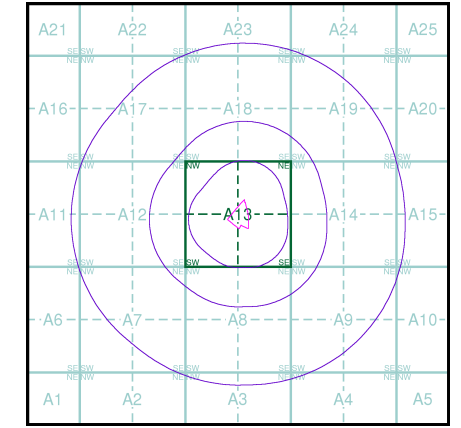
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

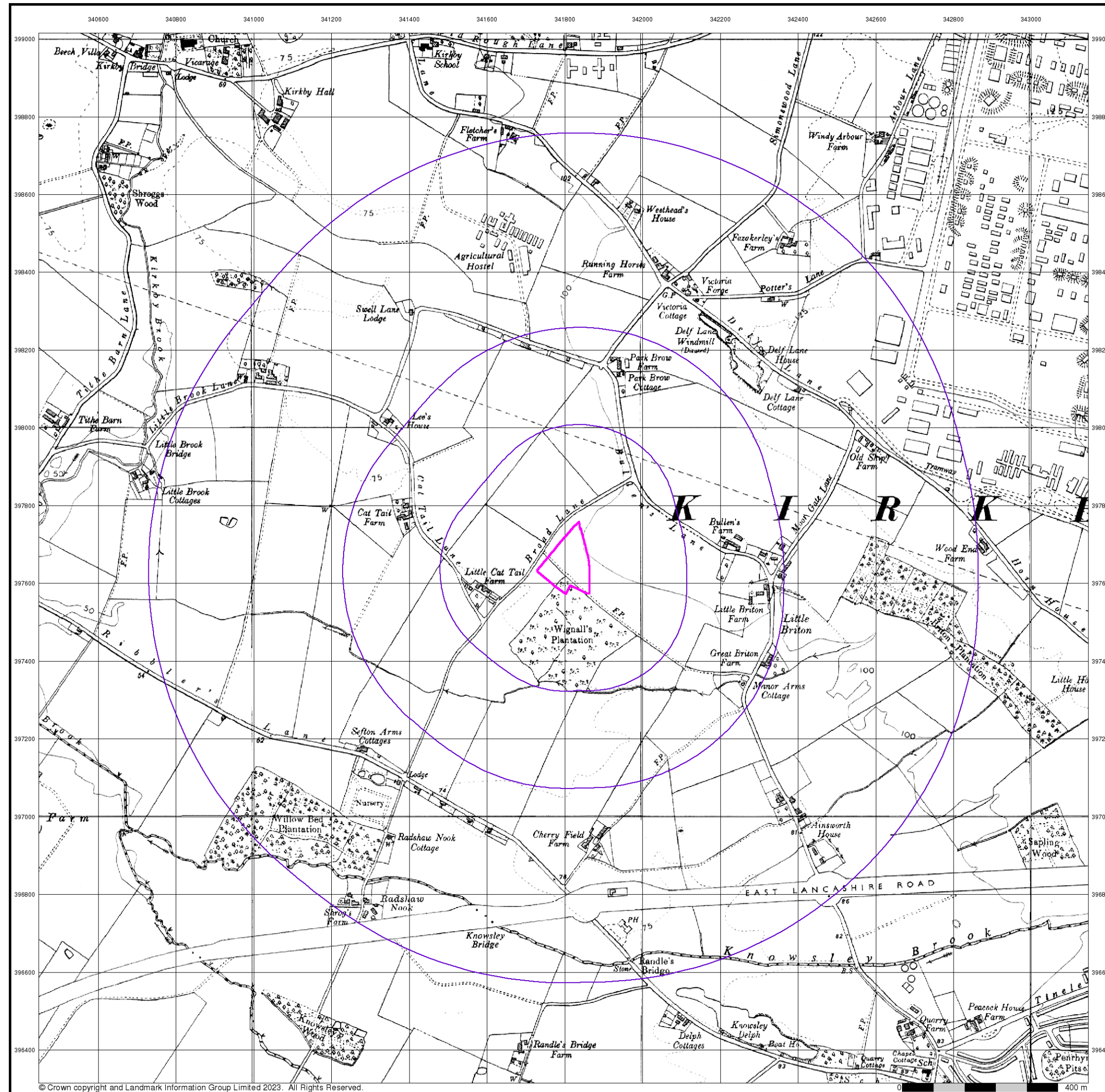
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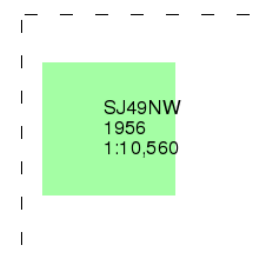
Ordnance Survey Plan

Published 1956

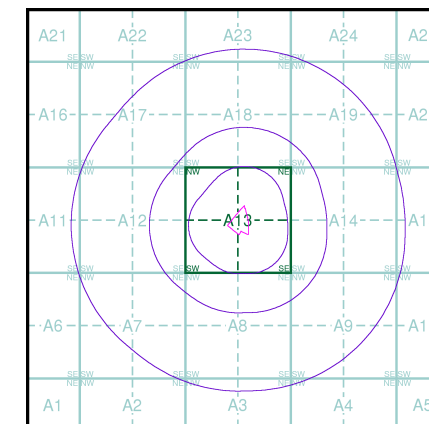
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT



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



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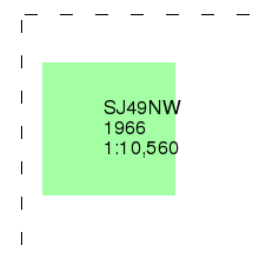
Ordnance Survey Plan

Published 1966

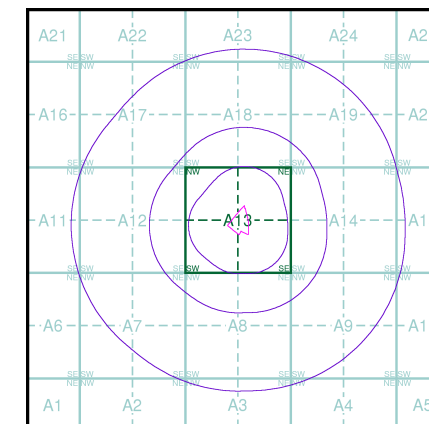
Source map scale - 1:10,000

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.

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Historical Map - Slice A



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Liverpool

Published 1974

Source map scale - 1:10,000

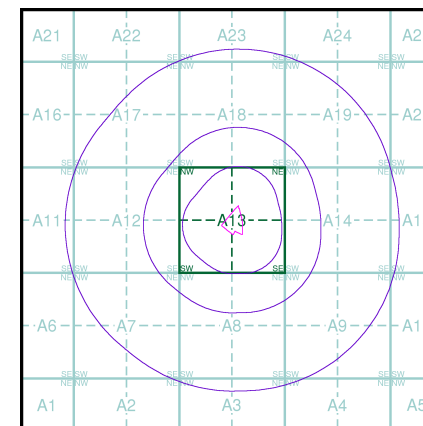
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed 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)

SJ49NW
1974
1:10,000

Russian Map - Slice A



Order Details

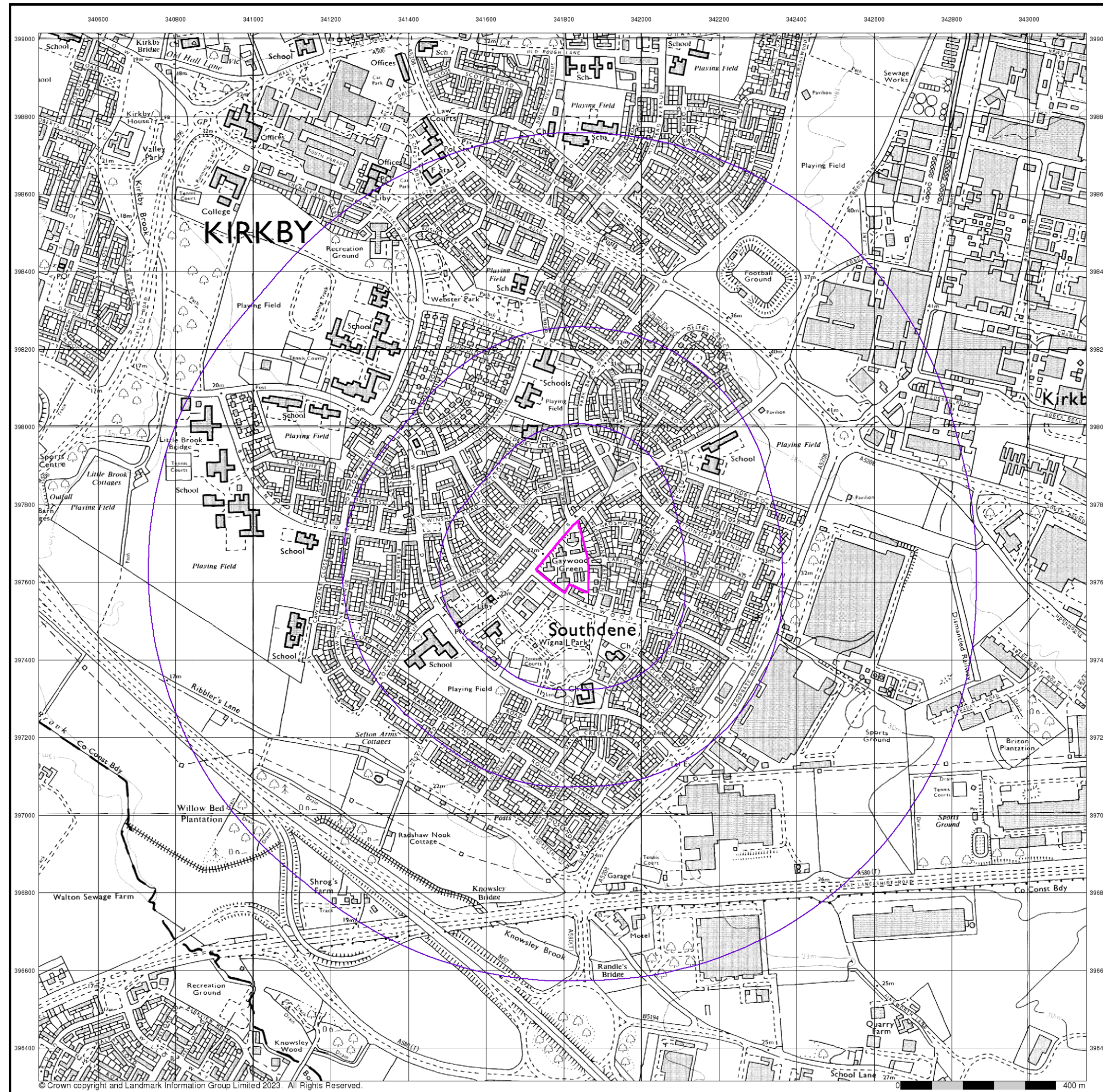
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Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
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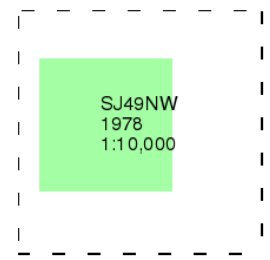
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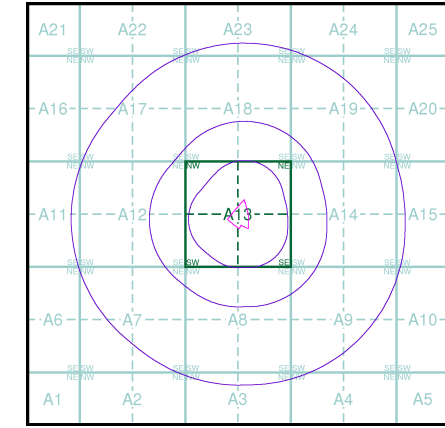
Ordnance Survey Plan
Published 1978
Source map scale - 1:10,000

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)



Historical Map - Slice A

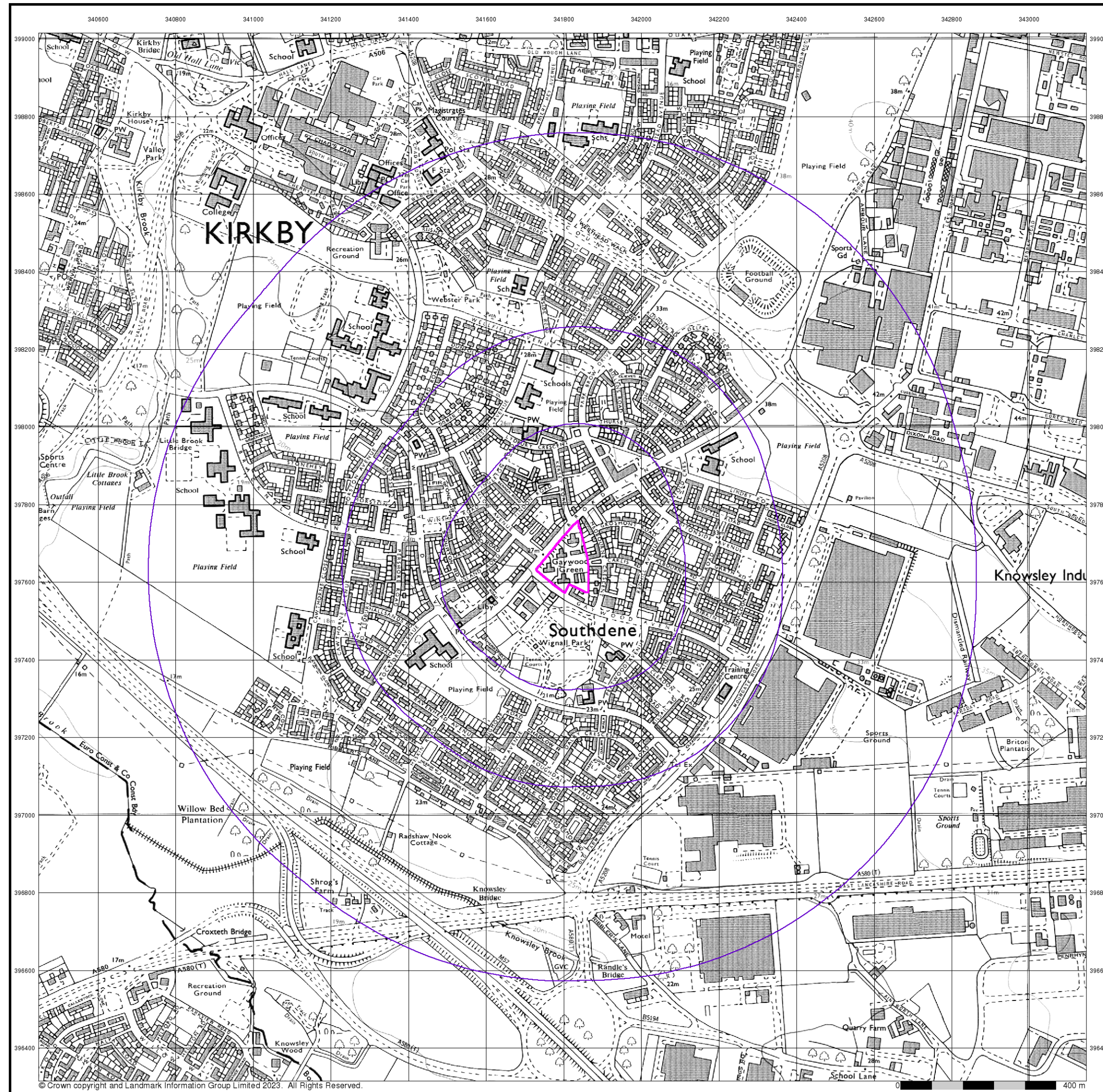


Order Details	
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Customer Ref:	32996LG
National Grid Reference:	341810, 397660
Slice:	A
Site Area (Ha):	1.44
Search Buffer (m):	1000

Site Details
Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
INFORMATION GROUP

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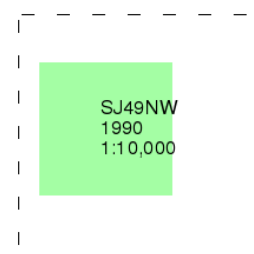
Ordnance Survey Plan

Published 1990

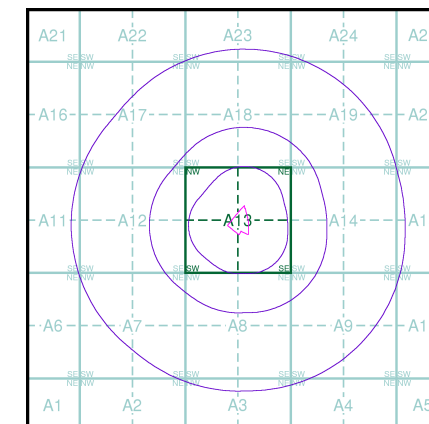
Source map scale - 1:10,000

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.

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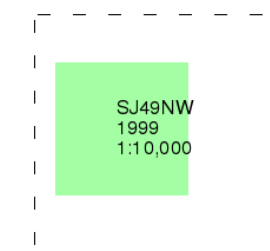
10k Raster Mapping

Published 1999

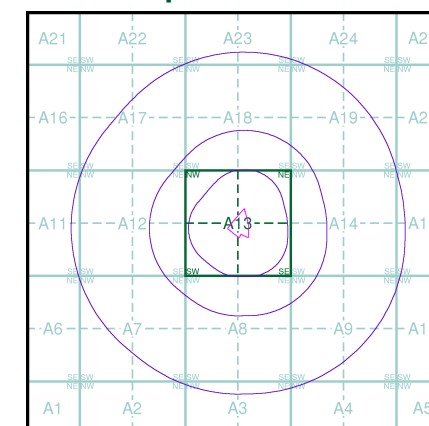
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 305765557_1_1
Customer Ref: 32996LG
National Grid Reference: 341810, 397660
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Site Area (Ha): 1.44
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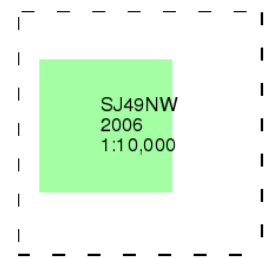
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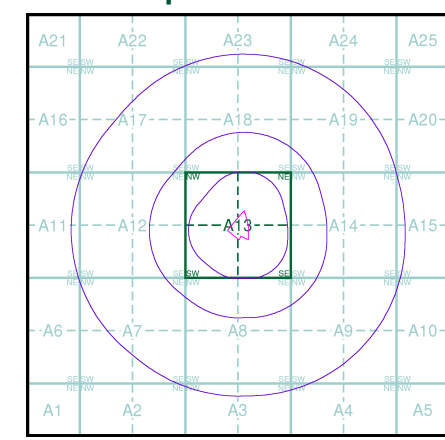
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



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Site Details
Gaywood Green Tower Blocks, Kirkby, Liverpool, L32 6QT

Landmark
INFORMATION GROUP
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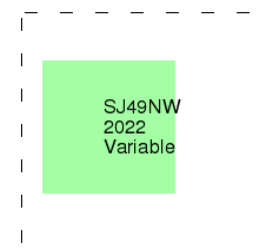
VectorMap Local

Published 2022

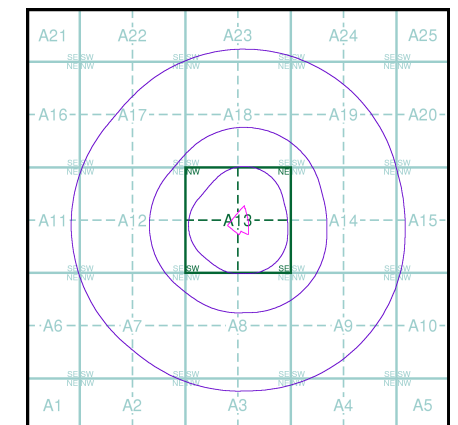
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

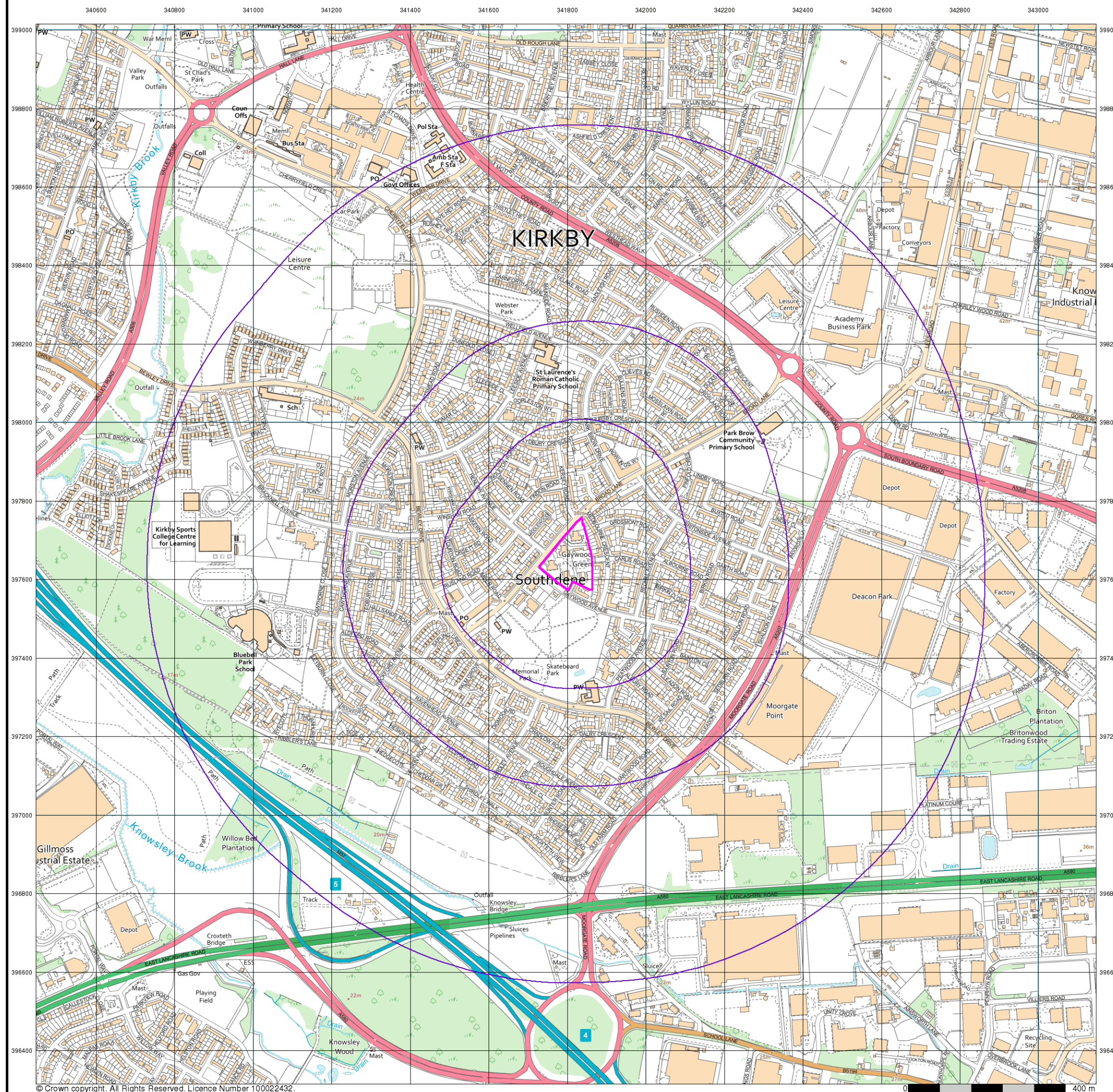
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Customer Ref: 32996LG
National Grid Reference: 341810, 397660
Slice: A
Site Area (Ha): 1.44
Search Buffer (m): 1000

Site Details

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Appendix B – Photographic Log

Photographic Log – Gaywood Green – Site Walkover



Photo 1 – Showing the southern site entrance.



Photo 2 – Showing rows of garages in the south east of the site, taken from the southern site entrance



Photo 3 – Showing the southern site boundary with Gaywood Avenue on the left of the photo.



Photo 4 – Showing the south west site boundary with Gaywood Avenue on the left of the photo.



Photo 5 – Showing the central site area taken from Broad Lane looking south east. The eastern site boundary can be seen in the background of the photo.



Photo 6 – Showing the north west site entrance taken from Broad Lane.



Photo 7 – Showing rows of garages in the north of the central site area taken from Broad Lane.



Photo 8 – Showing the Northern boundary of the site taken from Broad Lane.



Photo 9 – Showing the Northern boundary of the site taken from Broad Lane.

Appendix C – Linesearch & Services

Enquirer

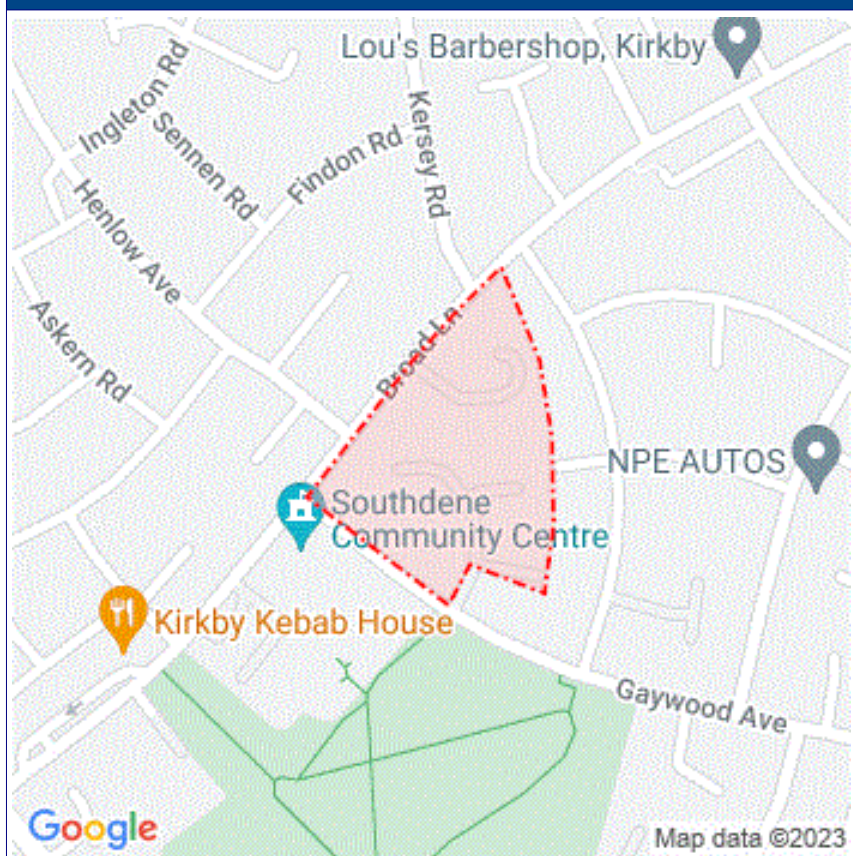
Name	Mr Ethan Davies	Phone	07713745469
Company	Sutcliffe	Mobile	07713745469
Address	18-20 Harrington Street Liverpool Merseyside L2 9QA		
Email	ethan.davies@sutcliffe.co.uk		

Enquiry Details

Scheme/Reference	32996LG		
Enquiry type	Planned Works	Work category	Excavations Non Utility
Start date	06/02/2023	Work type	Multiple excavations site (deeper th
End date	03/03/2023	Site size	16908 metres square
Searched location	XY= 341810, 397660	Work type buffer*	50 metres
Confirmed location	341801 397653		
Site Contact Name	Alex Tosh	Site Phone No	07773 797569
Description of Works			

* The WORK TYPE BUFFER is a distance added to your search area based on the Work type you have chosen.

Site Map



Asset Owners

Terms and Conditions. Please note that this enquiry is subject always to our standard terms and conditions available at www.linesearchbeforeudig.co.uk ("Terms of Use") and the disclaimer at the end of this document. Please note that in the event of any conflict or ambiguity between the terms of this Enquiry Confirmation and the Terms of Use, the Terms of Use shall take precedence.

Notes. Please ensure your contact details are correct and up to date on the system in case the LSBUD Members need to contact you.

Validity and search criteria. The results of this enquiry are based on the confirmed information you entered and are valid only as at the date of the enquiry. It is your responsibility to ensure that the Enquiry Details are correct, and LineSearchbeforeUdig accepts no responsibility for any errors or omissions in the Enquiry Details or any consequences thereof. LSBUD Members update their asset information on a regular basis so you are advised to consider this when undertaking any works. It is your responsibility to choose the period of time after which you need to resubmit any enquiry but the maximum time (after which your enquiry will no longer be dealt with by the LSBUD Helpdesk and LSBUD Members) is 28 days. If any details of the enquiry change, particularly including, but not limited to, the location of the work, then a further enquiry must be made.

Asset Owners & Responses. Please note the enquiry results include the following:

1. "LSBUD Members" who are asset owners who have registered their assets on the LSBUD service.
2. "Non LSBUD Members" are asset owners who have not registered their assets on the LSBUD service but LSBUD is aware of their existence. Please note that there could be other asset owners within your search area.

Below are three lists of asset owners:

1. **LSBUD Members who have assets registered within your search area. ("Affected")**
 - a. **These LSBUD Members will either:**
 - i. **Ask for further information ("Email Additional Info" noted in status).** The additional information includes: Site contact name and number, Location plan, Detailed plan (minimum scale 1:2500), Cross sectional drawings (if available), Work Specification.
 - ii. **Respond directly to you ("Await Response").** In this response they may either send plans directly to you or ask for further information before being able to do so, particularly if any payments or authorisations are required.
2. **LSBUD Members who do not have assets registered within your search area. ("Not Affected")**
3. **Non LSBUD Members who may have assets within your search area.** Please note that this list is not exhaustive and all details are provided as a guide only. It is your responsibility to identify and consult with all asset owners before proceeding.

LSBUD Members who have assets registered on the LSBUD service within the vicinity of your search area.

List of affected LSBUD members

Asset Owner	Phone/Email	Emergency Only	Status
Cadent Gas	0800688588	0800111999	Await response
SP Energy Networks	08452734444	08000929290 / 105	Await response

LSBUD Members who do not have assets registered on the LSBUD service within the vicinity of your search area. Please be aware that LSBUD Members make regular changes to their assets and this list may vary for new enquiries in the same area.

List of not affected LSBUD members

Angus Energy	AWE Pipeline	B & D Energy Limited
Balfour Beatty Investments Limited	BOC Limited (A Member of the Linde Group)	Box Broadband
BP Exploration Operating Company Limited	BPA	Carrington Gas Pipeline
CATS Pipeline c/o Wood Group PSN	Cemex	Centrica Storage Ltd
CNG Services Ltd	Concept Solutions People Ltd	ConocoPhillips (UK) Teesside Operator Ltd
D.S.Smith	Diamond Transmission Corporation	DIO (MOD Abandoned Pipelines)
DIO (MOD Live Pipelines)	E.ON UK CHP Limited	EDF Energy Renewables Ltd
EirGrid	Eleclink Limited	Electricity North West Limited
Energy Assets Networks	ENI & Himor c/o Penspen Ltd	EnQuest NNS Limited
EP Langle Limited	ESP Utilities Group	ESSAR
Esso Petroleum Company Limited	euNetworks Fiber UK Ltd	EXA Infrastructure
Exolum Pipeline System	Fulcrum Electricity Assets Limited	Fulcrum Pipelines Limited
Gamma	Gas Networks Ireland (UK)	Gateshead Energy Company
Gigaclear Ltd	Harbour Energy	Heathrow Airport LTD
Humbly Grove Energy	IGas Energy	INEOS FPS Pipelines
INEOS Manufacturing (Scotland and TSEP)	INOVYN ChlorVinyls Limited	INOVYN Enterprises Limited
Intergen (Coryton Energy or Spalding Energy)	Jurassic Fibre Ltd	Last Mile
Mainline Pipelines Limited	Manchester Jetline Limited	Manx Cable Company
Marchwood Power Ltd (Gas Pipeline)	Melbourn Solar Limited	Moray East Offshore Windfarm
MUA Group Limited	National Grid Electricity Distribution	National Grid Electricity Transmission
National Grid Gas Transmission	Neos Networks	Northern Gas Networks Limited
Northumbrian Water Group	NPower CHP Pipelines	NTT Global Data Centers EMEA UK Ltd
NYnet Ltd	Ogi	Oikos Storage Limited
Ørsted	Palm Paper Ltd	Perenco UK Limited (Purbeck Southampton Pipeline)
Petroineos	Phillips 66	Portsmouth Water
Premier Transmission Ltd (SNIP)	Redundant Pipelines - LPDA	RWE - Great Yarmouth Pipeline (Bacton to Great Yarmouth Power Station)
RWEpower (Little Barford and South Haven)	SABIC UK Petrochemicals	SAS Utility Services Ltd
Scottish and Southern Electricity Networks	Scottish Power Generation	Seabank Power Ltd

SES Water	SGN	Shell
Shell NOP	Squire Energy Networks	SSE Generation Ltd
SSE Transmission	SSE Utility Solutions Limited	Tata Communications (c/o JSM Construction Ltd)
Total Colnbrook Pipelines	Total Finaline Pipelines	Transmission Capital
UK Power Networks	Uniper UK Ltd	University of Cambridge Granta Backbone Network
Vattenfall	Veolia ES SELCHP Limited	Veolia ES Sheffield Ltd
Voneus Limited	VPI Power Limited	Wales and West Utilities
West of Duddon Sands Transmission Ltd	Westminster City Council	Zayo Group UK Ltd c/o JSM Group Ltd

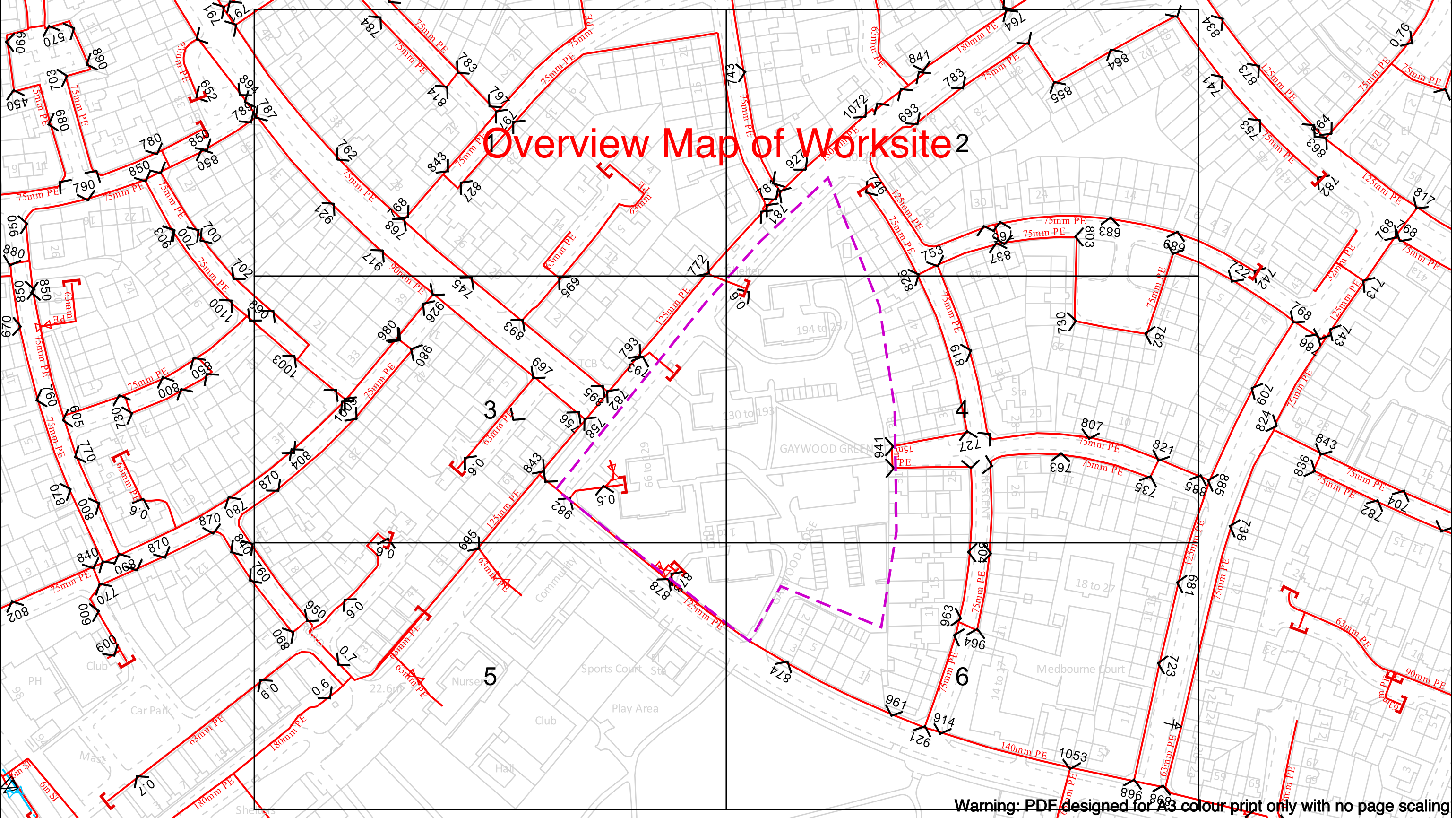
The following Non-LSBUD Members may have assets in your search area. It is **YOUR RESPONSIBILITY** to contact them before proceeding. Please be aware this list is not exhaustive and it is your responsibility to identify and contact all asset owners within your search area.

Non-LSBUD members (Asset owners not registered on LSBUD)			
Asset Owner	Preferred contact method	Phone	Status
BT	https://www.swns.bt.com/pls/mbe/welcome.home	08000232023	Not Notified
CityFibre	asset.team@cityfibre.com	033 3150 7282	Not Notified
Colt	plantenquiries@catelecomuk.com	01227768427	Not Notified
Equans	nrsua.uk@equans.com	0800 130 3600	Not Notified
GTC	https://pe.gtc-uk.co.uk/PlantEnqMembership	01359240363	Not Notified
Lumen Technologies	plantenquiries@instalcom.co.uk	02087314613	Not Notified
Mobile Broadband Network Limited	mbnl.plant.enquiries@turntown.com	01212 621 100	Not Notified
Sky UK Limited	nrsua@sky.uk	02070323234	Not Notified
Sota	SOTA.plantenquiries@instalcom.co.uk		Not Notified
Teliasonera	check-network@arelion.com	0800526015	Not Notified
United Utilities	WastewaterDeveloperServices@uuplc.co.uk	08707510101	Not Notified
Utility assets Ltd	assetrecords@utilityassets.co.uk		Not Notified
Verizon Business	osp-team@uk.verizonbusiness.com	01293611736	Not Notified
Virgin Media	http://www.digdat.co.uk	08708883116	Not Notified
Vodafone	osm.enquiries@atkinsglobal.com	01454662881	Not Notified

Disclaimer

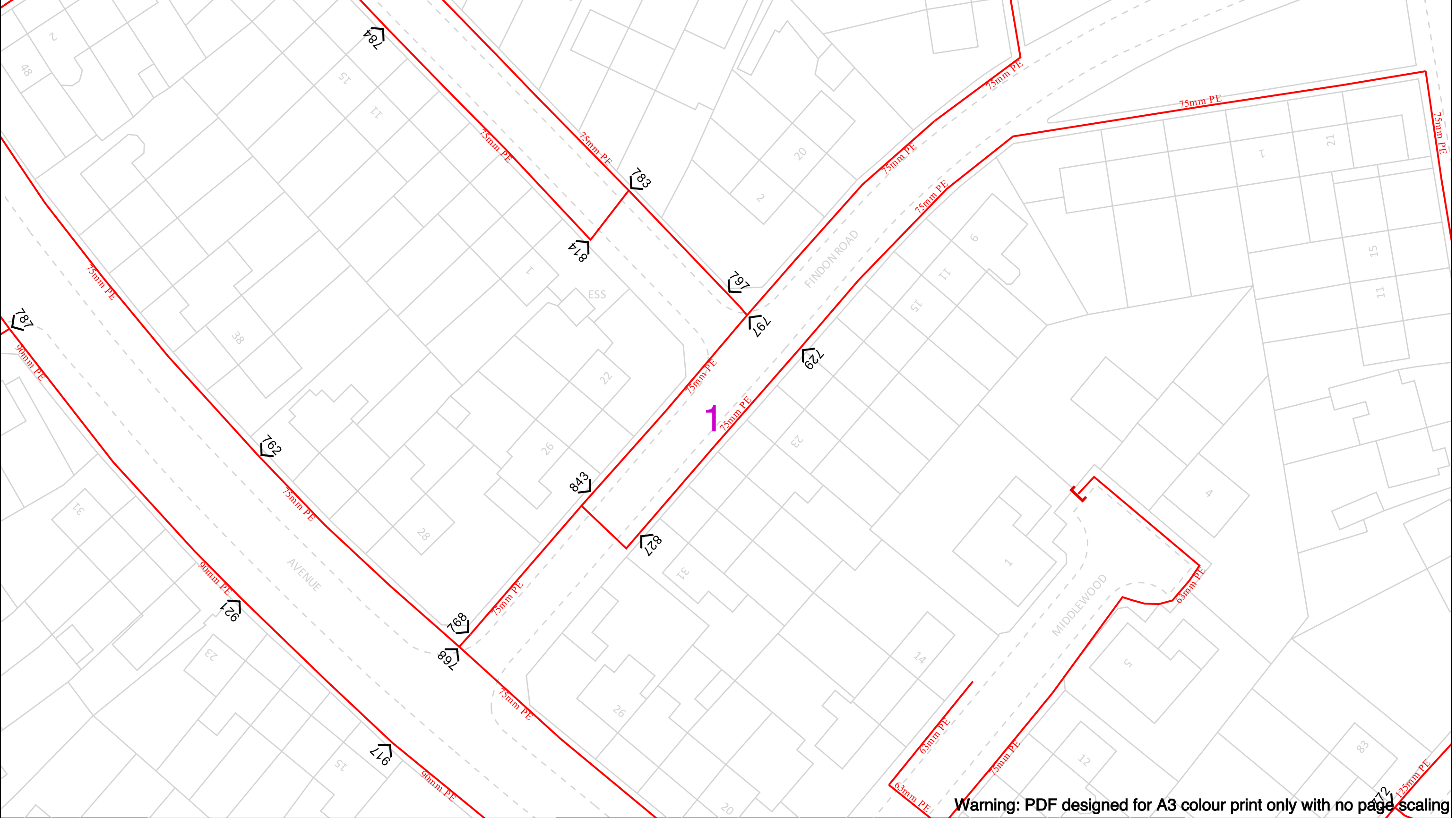
Please refer to LineSearchbeforeUdig's Terms of Use for full terms of use available at www.linesearchbeforeudig.co.uk

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Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 12/01/2023 Job Reference: 28157580 Site Location: 341801 397653 Requested by: Mr Ethan Davies Your Scheme/Reference: 32996LG Scale: 1:1537 (When plotted at A3)		View extent: 200m, 115m IMPORTANT NOTICES This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.	In case of an emergency call 0800 111 999 <table><tr><td> Dig Sites - LP Mains - MP Mains - IP Mains - LHP Mains </td><td> Area: Line: - Valve - Depth of cover - Syphon </td><td> - Diameter Change - Material Change - Out of Standard Service </td></tr></table>		Dig Sites - LP Mains - MP Mains - IP Mains - LHP Mains	Area: Line: - Valve - Depth of cover - Syphon	- Diameter Change - Material Change - Out of Standard Service	Cadent Your Gas Network
Dig Sites - LP Mains - MP Mains - IP Mains - LHP Mains	Area: Line: - Valve - Depth of cover - Syphon	- Diameter Change - Material Change - Out of Standard Service						
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Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
Your Scheme/Reference: 32996LG

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

IMPORTANT NOTICES

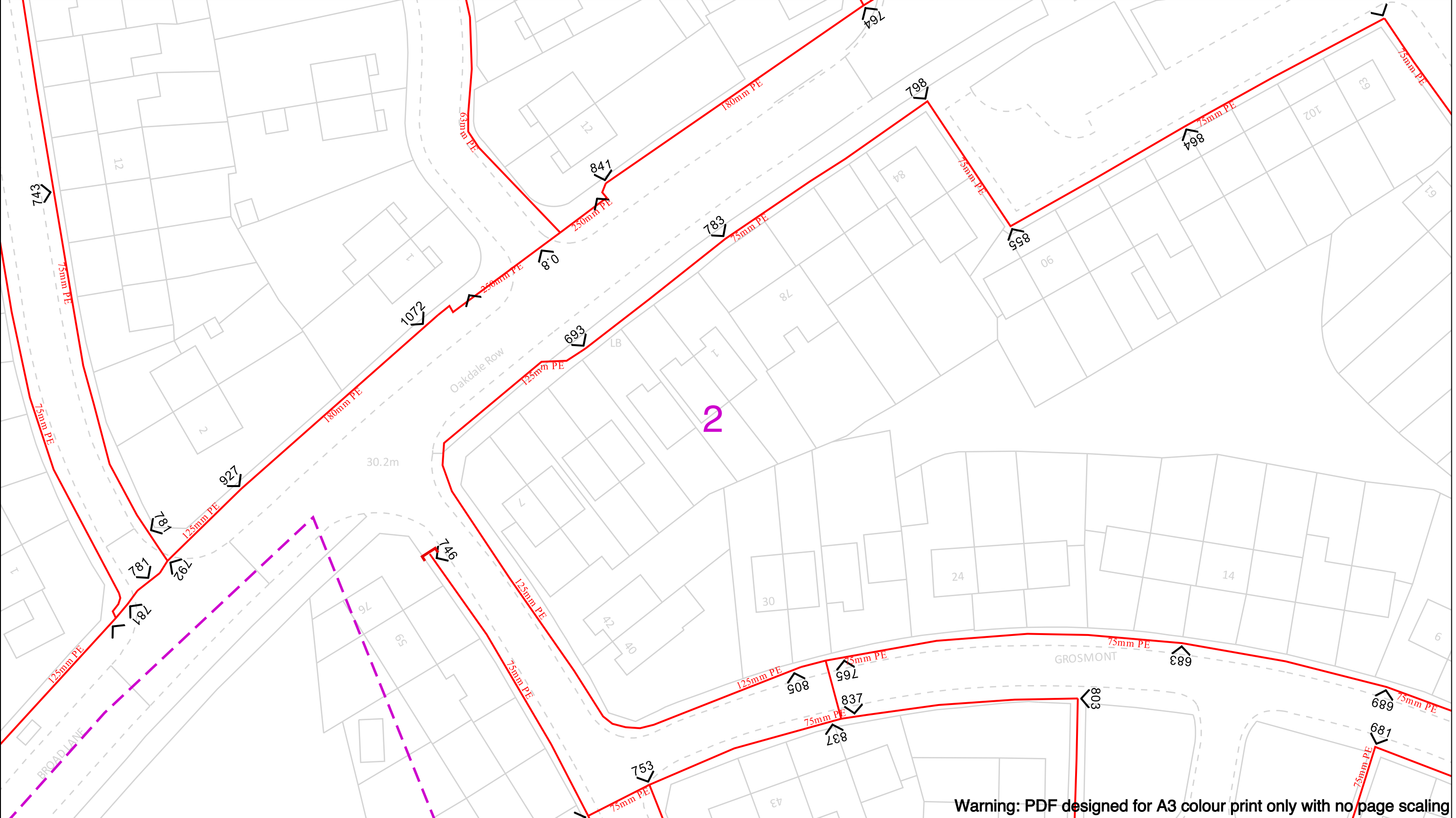
This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

In case of an emergency call 0800 111 999

50m

Dig Sites	Area:	Line:	
	LP Mains		Valve
	MP Mains		Depth of cover
	IP Mains		Syphon
	LHP Mains		Diameter Change
			Material Change
			Out of Standard Service

Cadent
Your Gas Network



Warning: PDF designed for A3 colour print only with no page scaling

Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
Your Scheme/Reference: 32996LG

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

IMPORTANT NOTICES

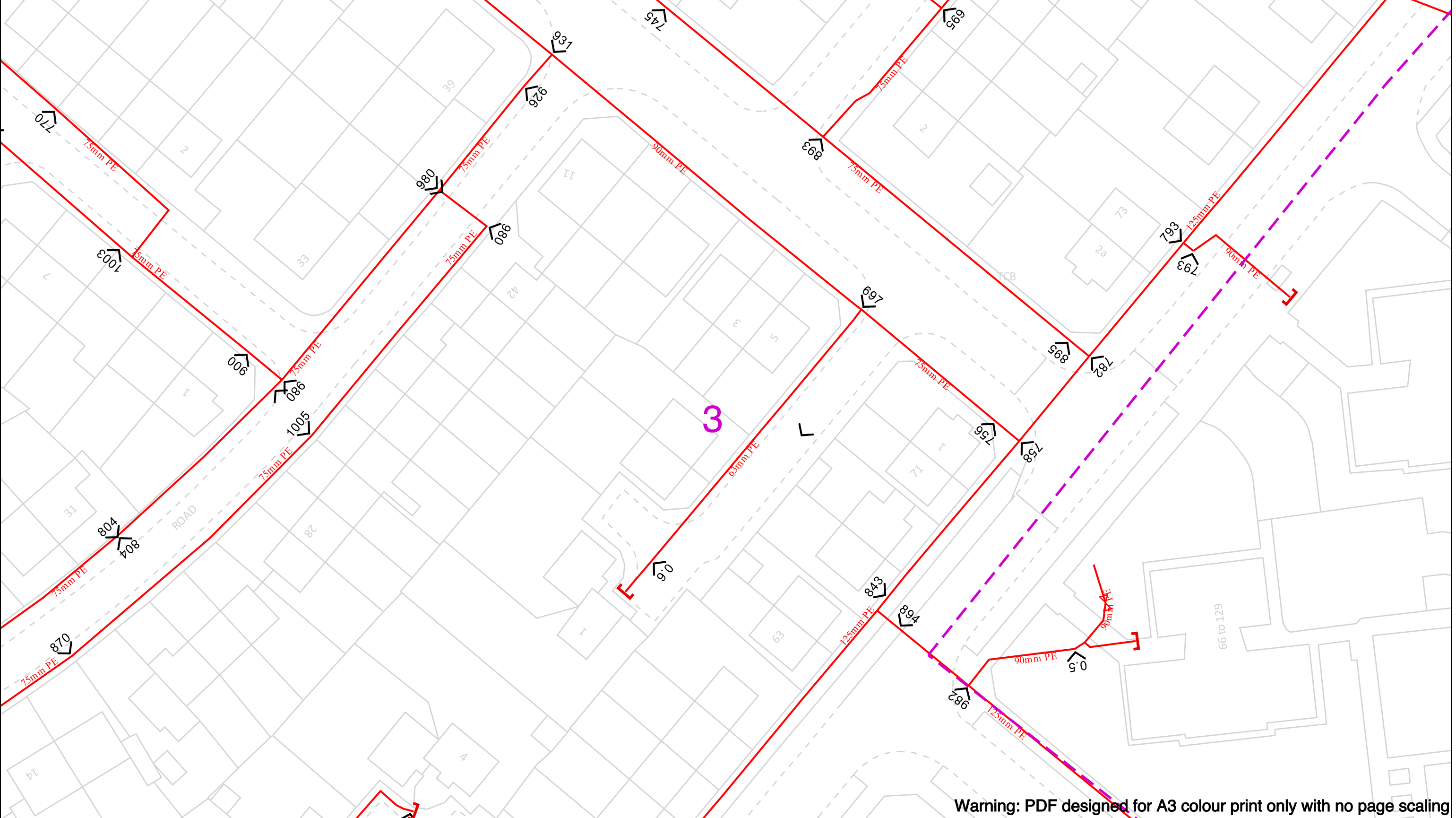
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In case of an emergency call 0800 111 999

50m

Dig Sites	Area:	Line:	
	LP Mains		Valve
	MP Mains		Depth of cover
	IP Mains		Syphon
	LHP Mains		Diameter Change
			Material Change
			Out of Standard Service





Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
Your Scheme/Reference: 32996LG

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

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50m

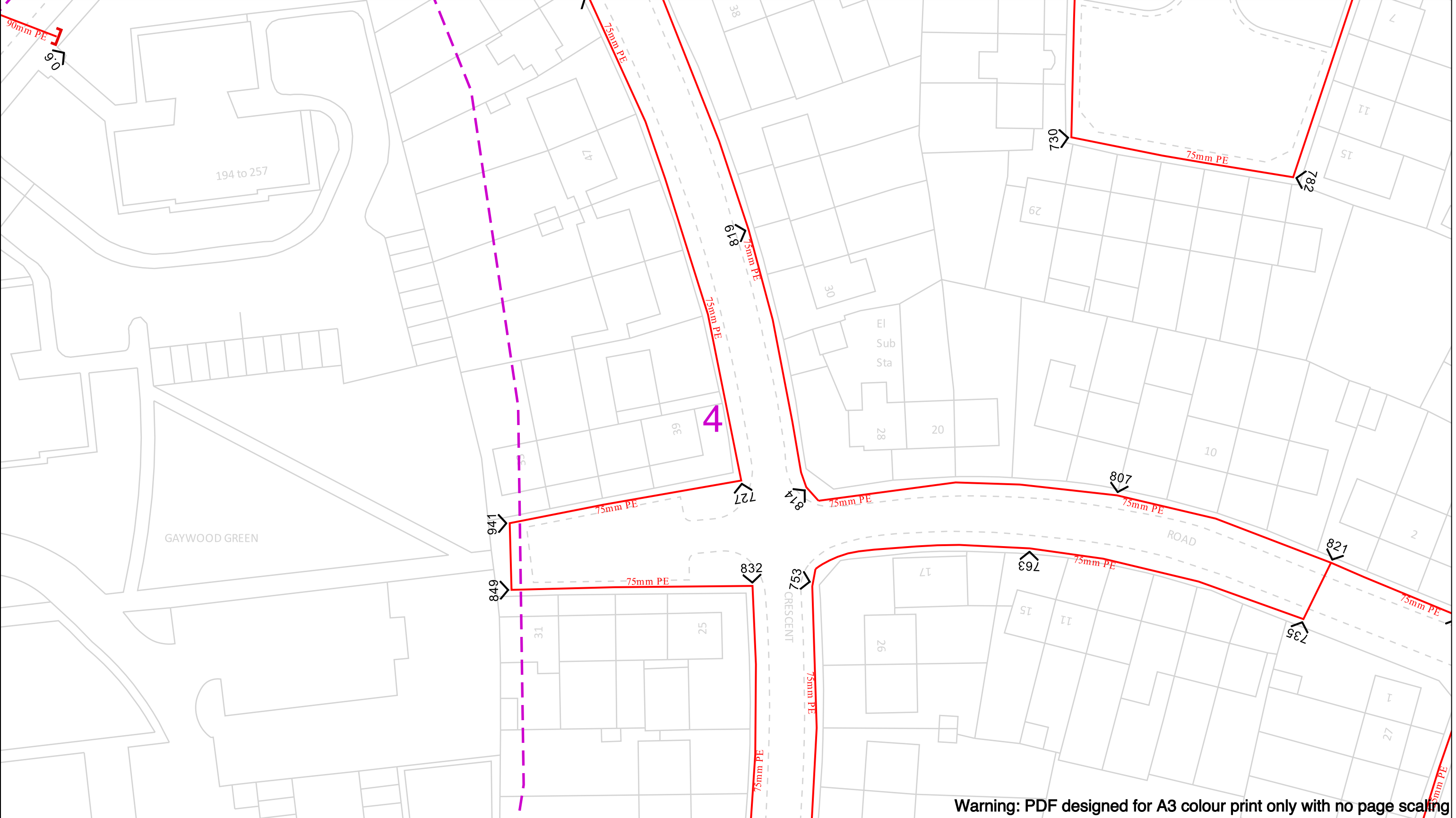
Dig Sites

	LP Mains
	MP Mains
	IP Mains
	LHP Mains

Area: Line:

	Valve		Diameter Change
	Depth of cover		Material Change
	Syphon		Out of Standard Service

Cadent
Your Gas Network



Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
Your Scheme/Reference: 32996LG

Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

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Dig Sites

LP Mains

MP Mains

IP Mains

LHP Mains

Area:

Line:

Valve

Depth of cover

Syphon

Diameter Change

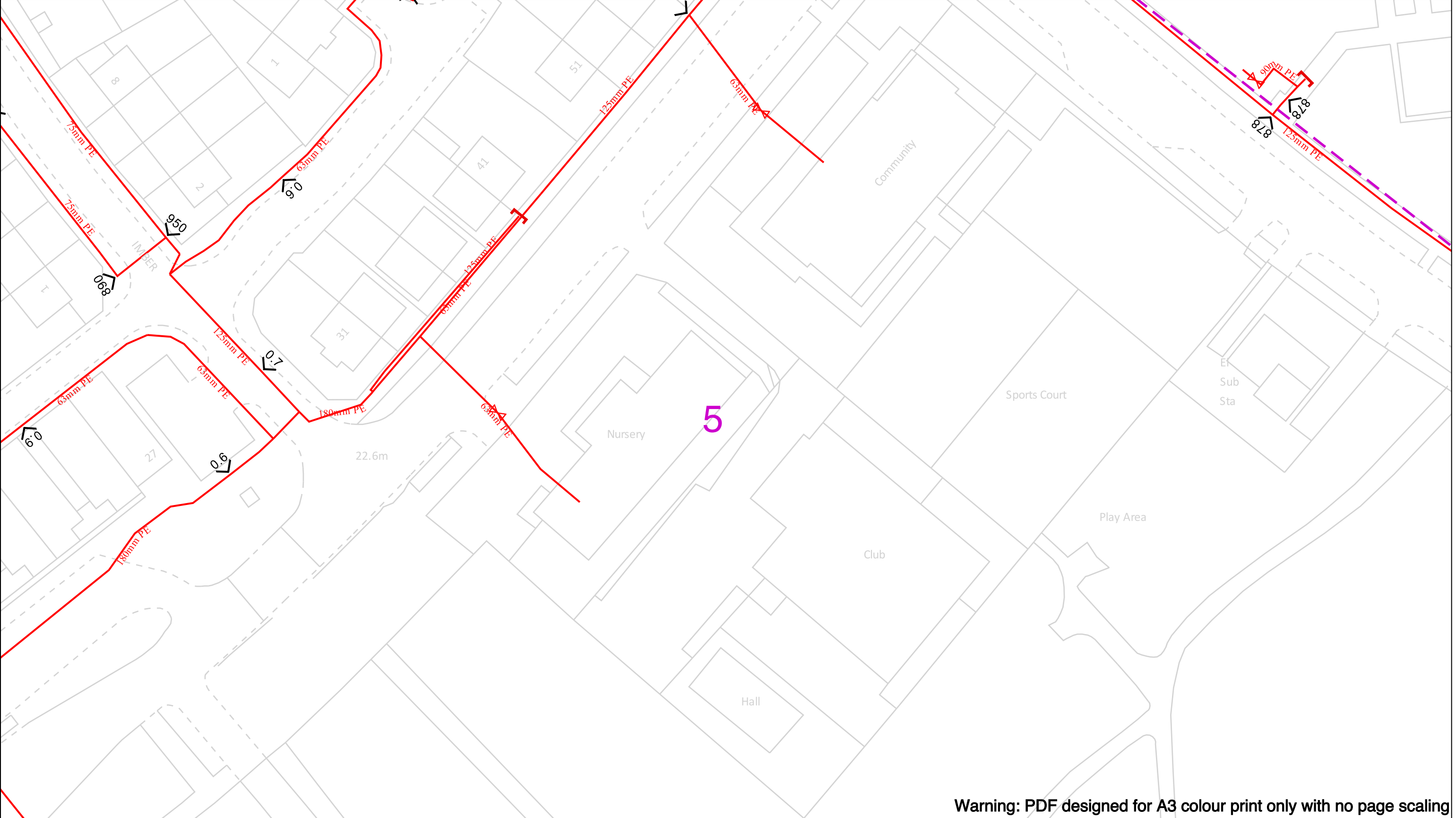
Material Change

Out of Standard Service

Cadent

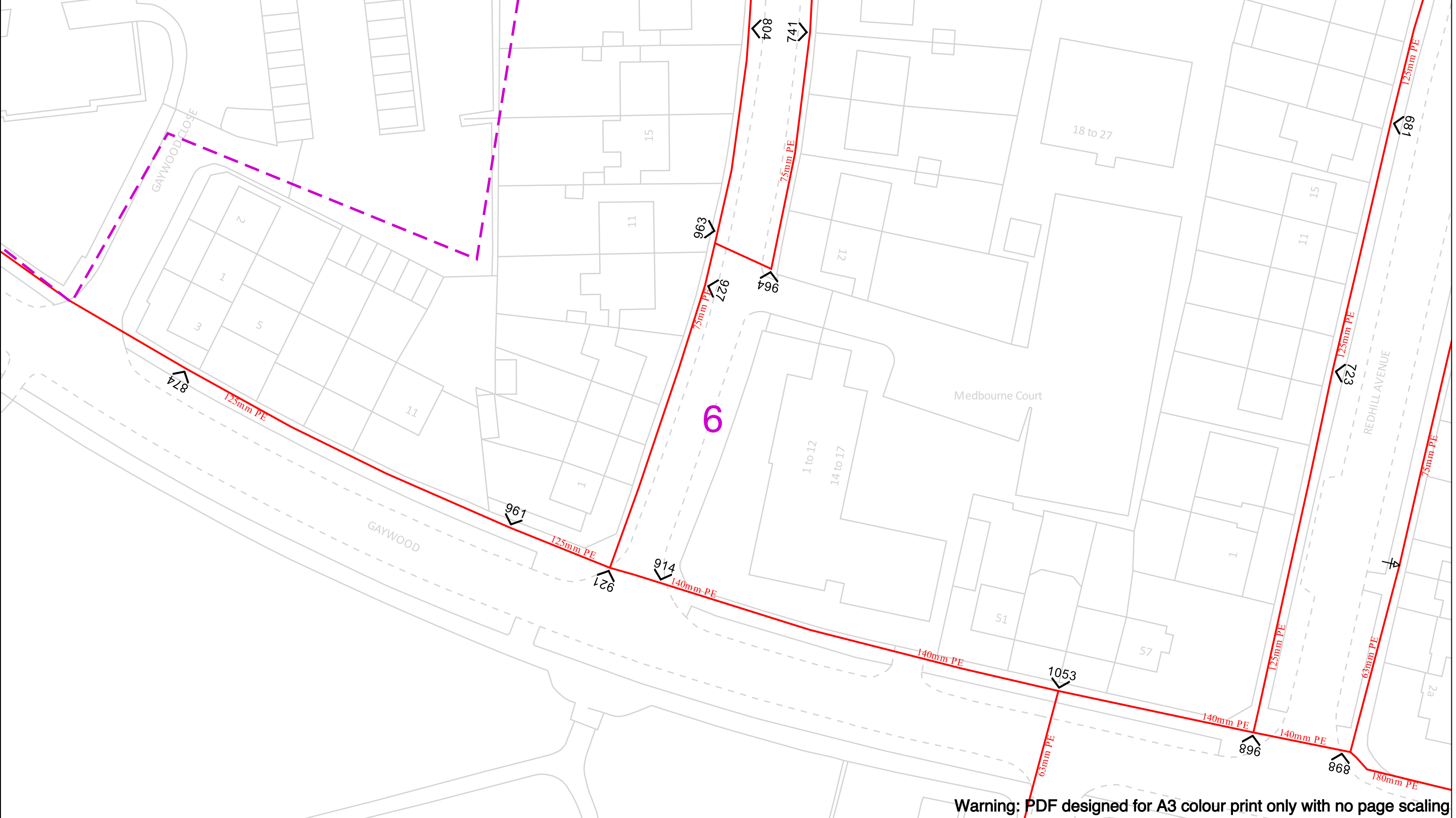
Your Gas Network

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Date Requested: 12/01/2023 Job Reference: 28157580 Site Location: 341801 397653 Requested by: Mr Ethan Davies Your Scheme/Reference: 32996LG Scale: 1:500 (When plotted at A3)		View extent: 200m, 115m IMPORTANT NOTICES This plan shows these pipes owned by Cadent Gas Limited in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GT's or otherwise privately owned may be present in this area. Information with regards to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections etc. are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any errors or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.	In case of an emergency call 0800 111 999 Dig Sites LP Mains MP Mains IP Mains LHP Mains Area: Line: Valve Depth of cover Syphon Diameter Change Material Change Out of Standard Service 50m Cadent Your Gas Network		Crown Copyright © - This plan is reproduced from or based on the OS map by Cadent Gas Limited, with the sanction of the controller of HM Stationary Office. Crown Copyright Reserved. Ordnance Survey Licence number 100024886	
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Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
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Scale: 1:500 (When plotted at A3)

View extent: 200m, 115m

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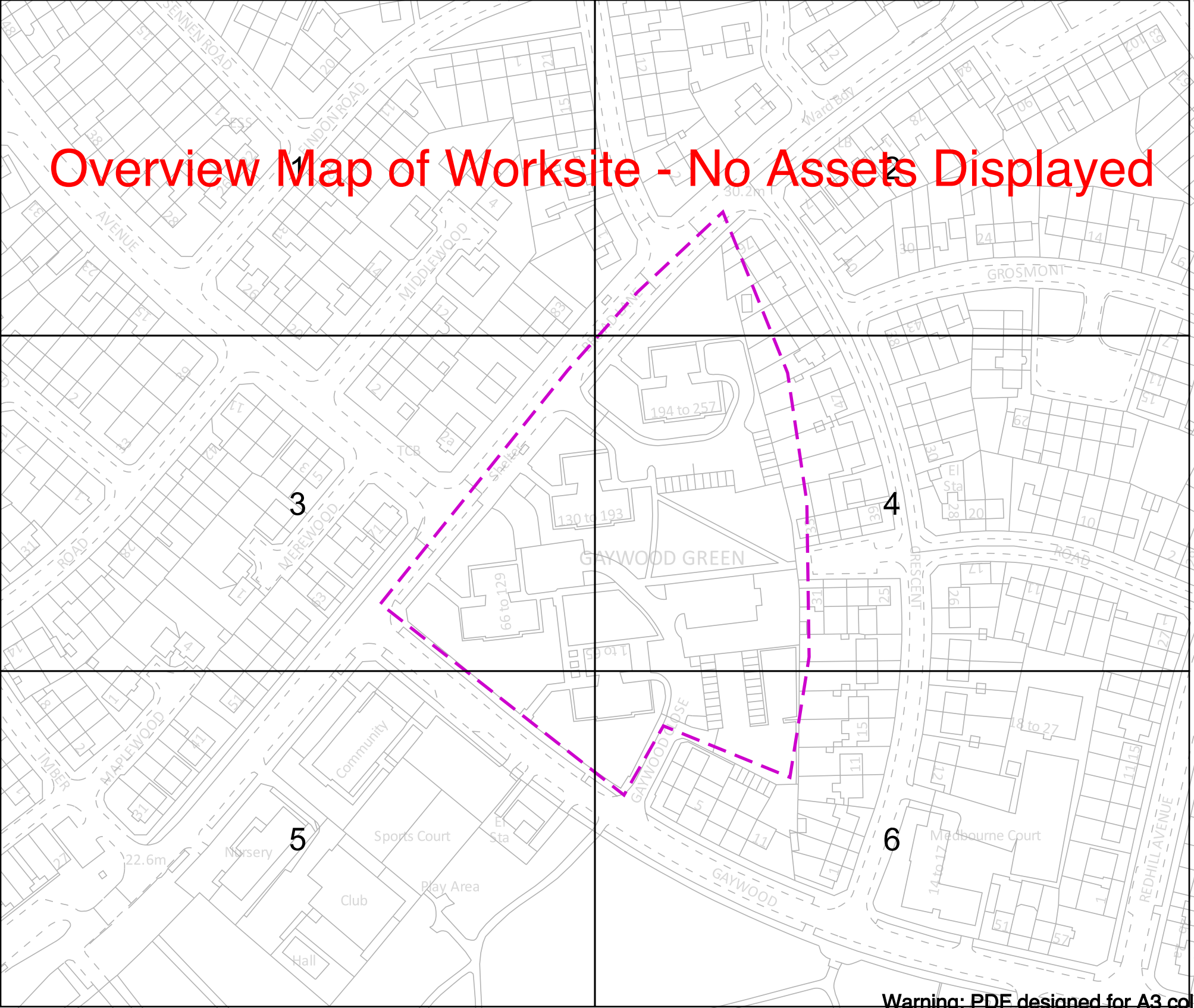
In case of an emergency call 0800 111 999

50m

Dig Sites	Area:	Line:	
	LP Mains		Valve
	MP Mains		Depth of cover
	IP Mains		Syphon
	LHP Mains		Diameter Change
			Material Change
			Out of Standard Service

Cadent
Your Gas Network

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Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
Your Scheme/Reference:
32996LG

Scale: 1:1537 (When plotted at A3)

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- Where overhead lines cross your site, you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines.
- Any works that fall within 5m of any 132kv or Transmission cables, or within 15m of any 132kV or Transmission OHL's, please contact our General Enquiries Team 0845 273 4444 / 0330 10 10 444 for further safety advice.
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Underground Cables

In Use

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

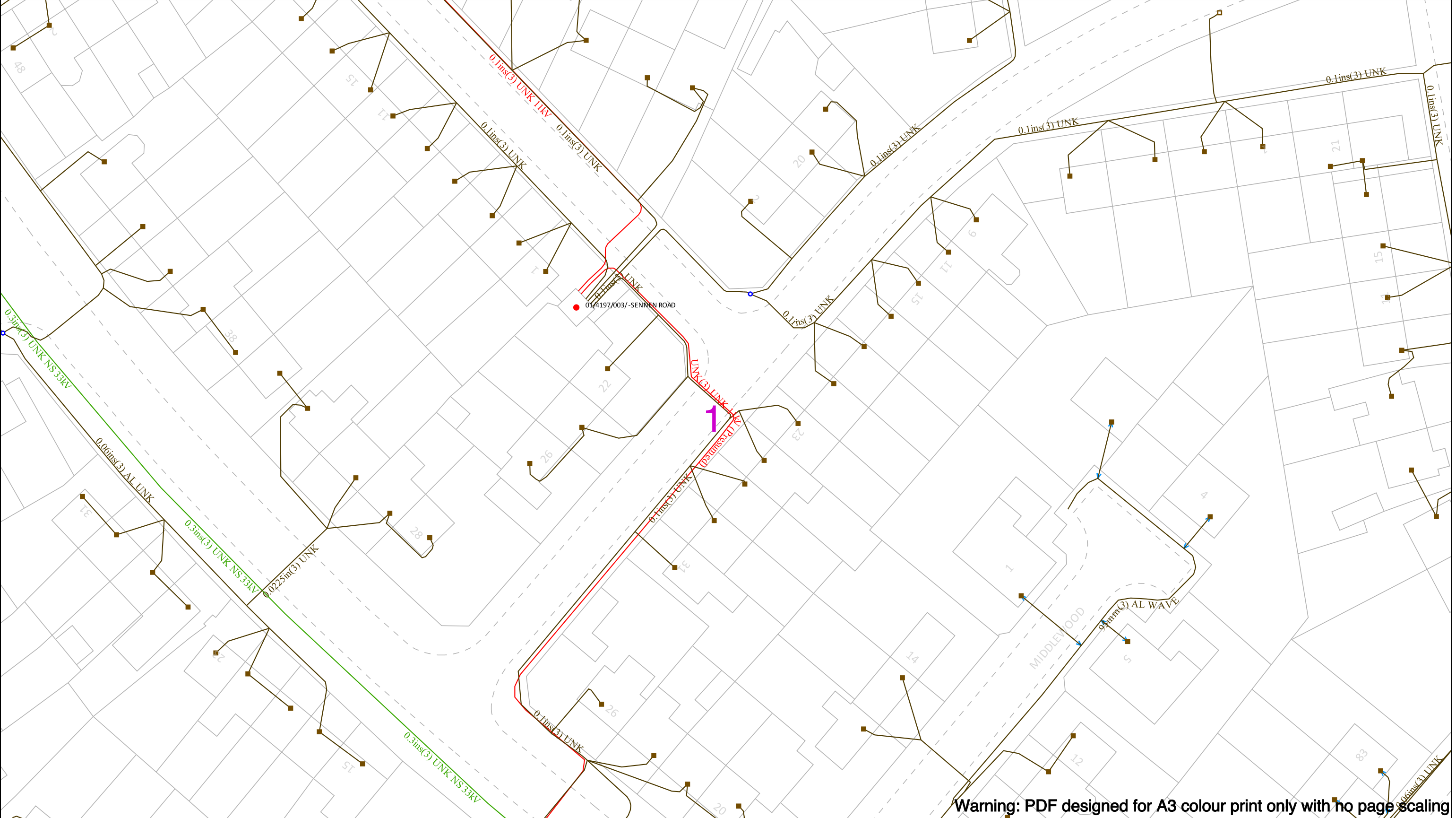
Line:



Overhead Line

- LV
- HV (6kV/6.6kV)
- HV (22kV/11kV)
- EHV (33kV)
- Trans (132kV/275kV/400kV)
- Non Power Cable
- Duct





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Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
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Your Scheme/Reference:
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Scale: 1:500 (When plotted at A3)

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100m

Underground Cables

In Use

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

Line:

Overhead Line

LV

HV (6kV/6.6kV)

HV (22kV/11kV)

EHV (33kV)

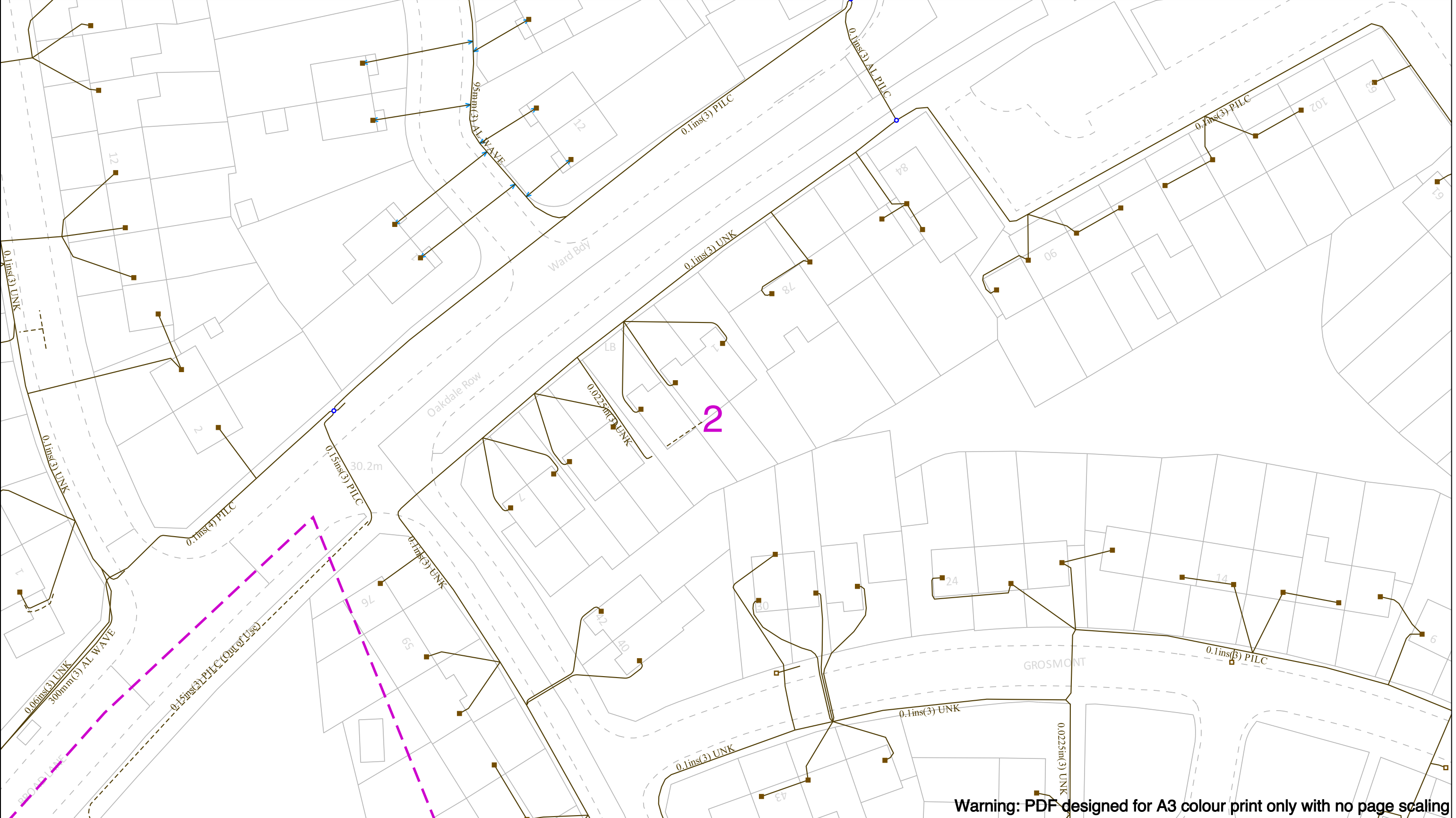
Trans (132kV/275kV/400kV)

Non Power Cable

Duct

SP ENERGY NETWORKS

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Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
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100m

Underground Cables

In Use

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

Line:

Overhead Line

LV

HV (6kV/6.6kV)

HV (22kV/11kV)

EHV (33kV)

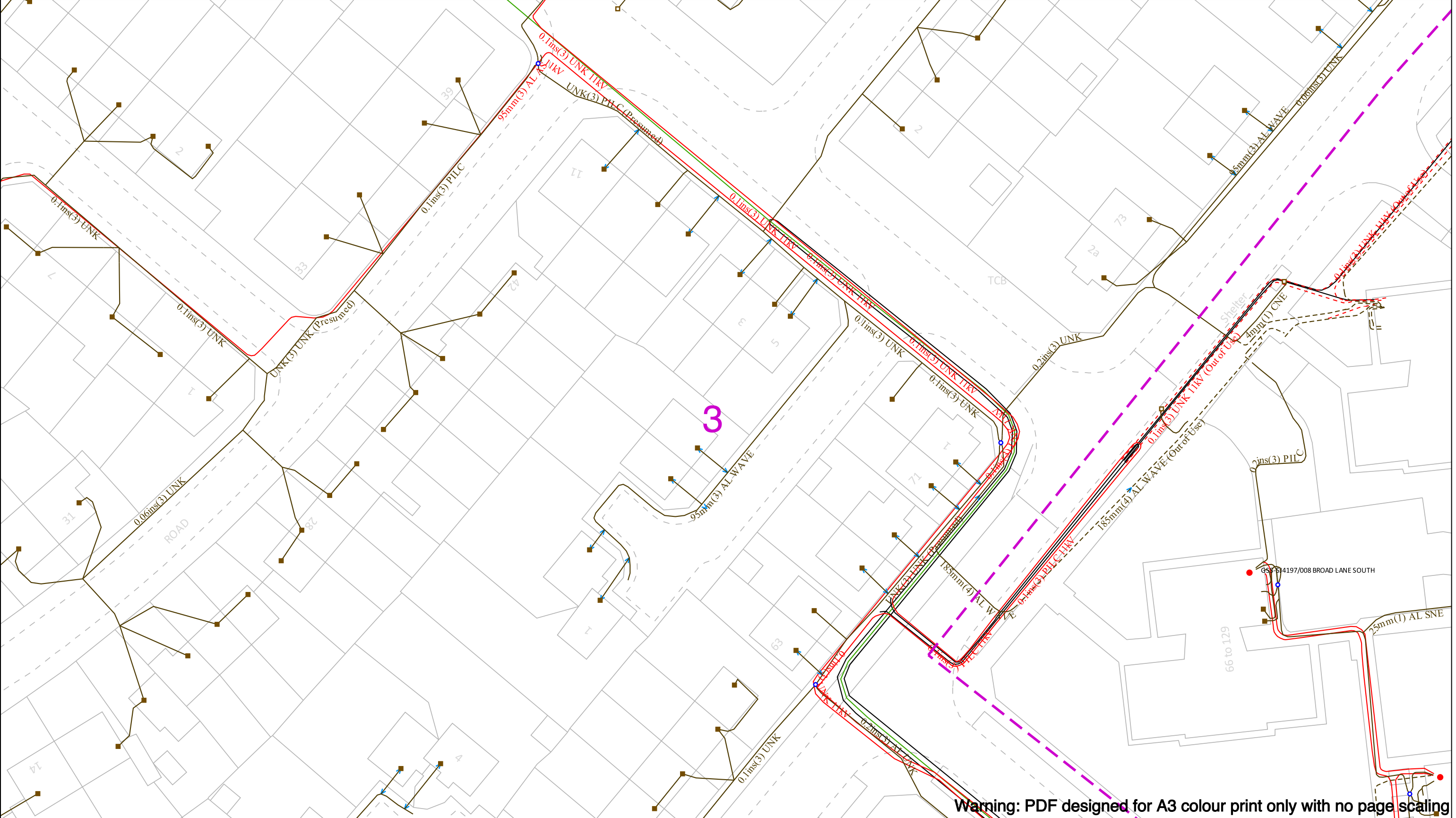
Trans (132kV/275kV/400kV)

Non Power Cable

Duct

SP ENERGY NETWORKS

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100m

Underground Cables

In Use

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

Line:

Overhead Line

LV

HV (6kV/6.6kV)

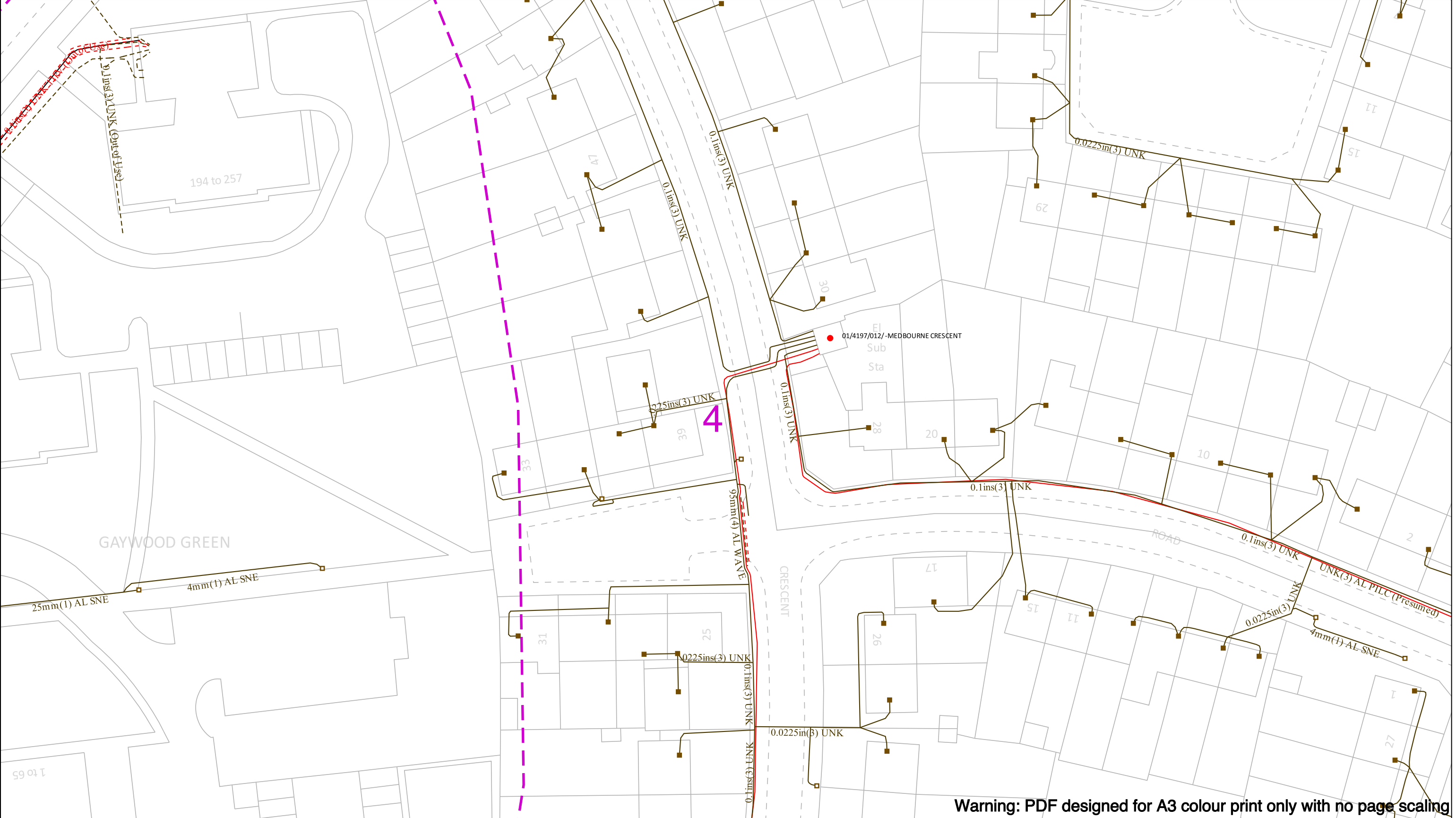
HV (22kV/11kV)

EHV (33kV)

Trans (132kV/275kV/400kV)

Non Power Cable

Duct



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100m

Underground Cables

In Use

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

Line:

Overhead Line

LV

HV (6kV/6.6kV)

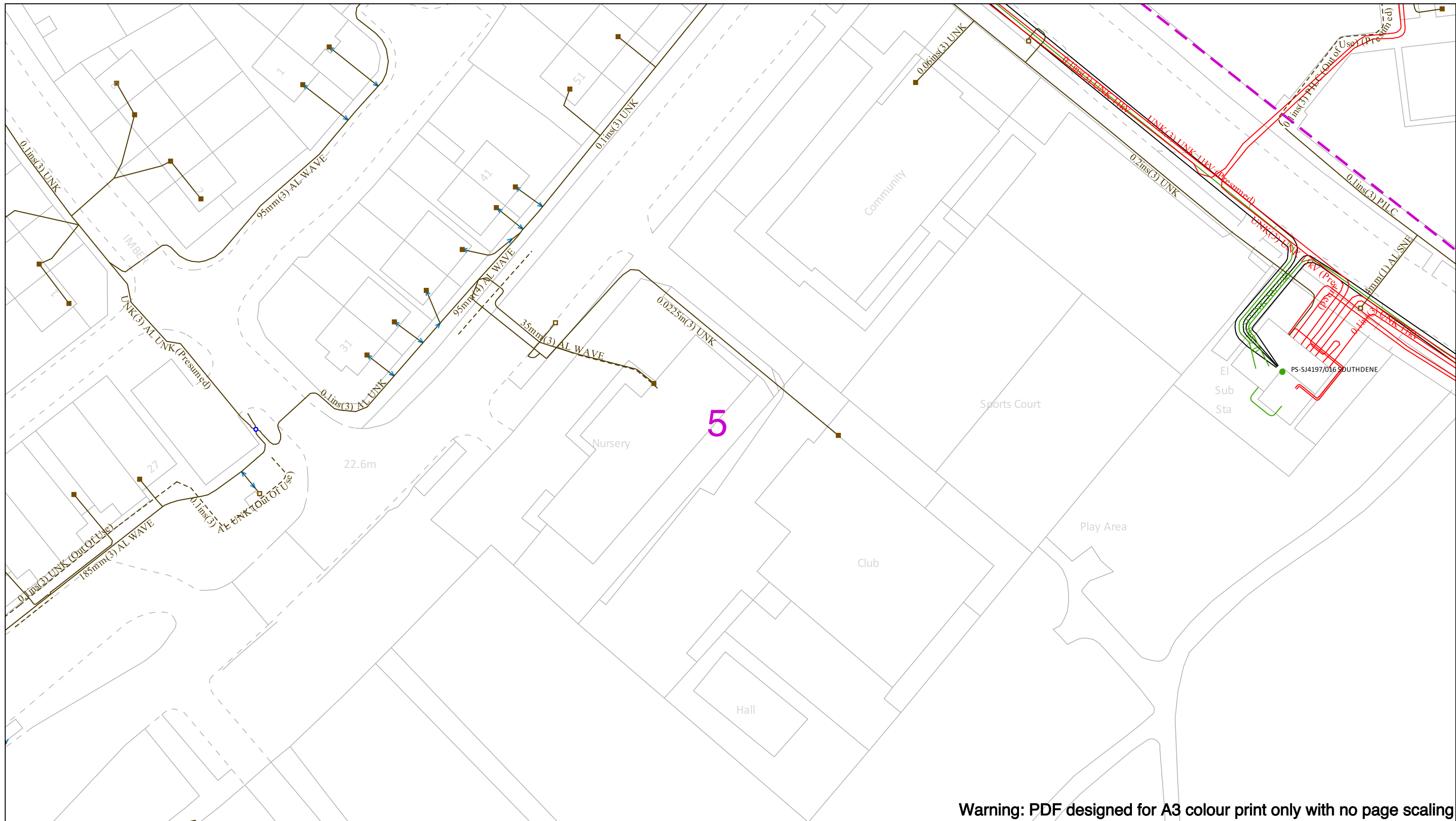
HV (22kV/11kV)

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Trans (132kV/275kV/400kV)

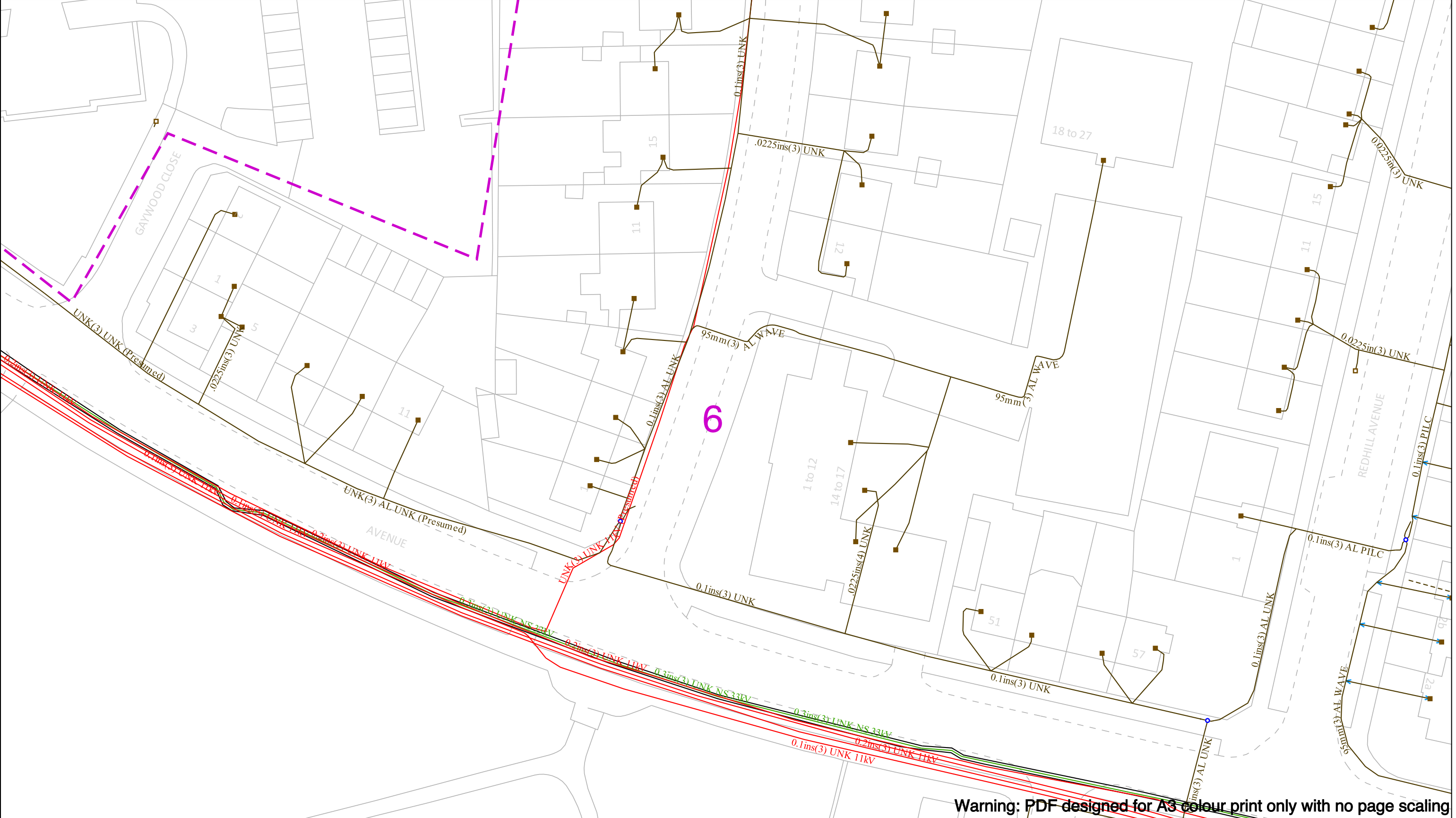
Non Power Cable

Duct



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Date Requested: 12/01/2023 Job Reference: 28157580 Site Location: 341801 397653 Requested by: Mr Ethan Davies Your Scheme/Reference: 32996LG Scale: 1:500 (When plotted at A3)	IMPORTANT NOTICES - This information shown on this plan is indicative only and its accuracy cannot be guaranteed. - The plan only shows assets owned by SP Energy Networks. - Positions and depths of cables may have altered since being recorded. A line on a plan may represent more than one cable. Normally electric cables are laid at depths between 450mm and 1m but depths may have changed if land surface levels have since altered. - The plan may not show, or may inaccurately show, individual property services and services to street lighting installations. Underground services may be found in roads, footpaths and on sites. Always assume that they are present for each property, lamp column and street sign etc and treat any services found anywhere as live. - You must use safe digging practices in accordance with HS(G)47 to establish the actual position of mains cables, services and other apparatus before any mechanical excavation is used. - Where overhead lines cross your site, you must comply with the requirements of Health & Safety Executive guidance as laid down in GS6, Avoidance of Danger from Overhead Electric Lines. - Any works that fall within 5m of any 132kv or Transmission cables, or within 15m of any 132kV or Transmission OHL's, please contact our General Enquiries Team 0845 273 4444 / 0330 10 10 444 for further safety advice. - In the event of an emergency or for further assistance contact 0800-092-9290 (Central & Southern Scotland) or 0800-001-5400 (Merseyside, Cheshire & North Wales) or by dialling 105 - It is your responsibility to ensure this information is provided to all persons working near our plant.	100m Underground Cables In Use Out of Use Assumed Route Warning - Shallow Cables Dig Sites Area: Line:
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Date Requested: 12/01/2023
Job Reference: 28157580
Site Location: 341801 397653
Requested by:
Mr Ethan Davies
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100m

Underground Cables

In Use —————

Out of Use

Assumed Route

Warning - Shallow Cables

Dig Sites

Area:

Line:

Overhead Line - - - - -

LV

HV (6kV/6.6kV)

HV (22kV/11kV)

EHV (33kV)

Trans (132kV/275kV/400kV)

Non Power Cable

Duct

Sutcliffe Projects Ltd

**18-20
Harrington Street,
Liverpool,
L2 9QA**

FAO:

How to contact us:

**United Utilities Water Limited
Property Searches
Haweswater House
Lingley Mere Business Park
Great Sankey
Warrington
WA5 3LP**

Telephone: 0370 7510101

E-mail: propertysearches@uuplc.co.uk

**Your Ref: 32996LG/9486
Our Ref: UUPS-ORD-457460
Date: 16/01/2023**

Dear Sirs

Location: Gaywood Green Tower Blocks Kirkby

I acknowledge with thanks your request dated 13/01/2023 for information on the location of our services.

Please find enclosed plans showing the approximate position of United Utilities' apparatus known to be in the vicinity of this site.

The enclosed plans are being provided to you subject to the United Utilities terms and conditions for both the wastewater and water distribution plans which are shown attached.

If you are planning works anywhere in the North West, please read United Utilities' access statement before you start work to check how it will affect our network. <http://www.unitedutilities.com/work-near-asset.aspx>.

I trust the above meets with your requirements and look forward to hearing from you should you need anything further.

If you have any queries regarding this matter please [contact us](#).

Yours Faithfully,



Karen McCormack
Property Searches Manager

TERMS AND CONDITIONS - WASTEWATER AND WATER DISTRIBUTION PLANS

These provisions apply to the public sewerage, water distribution and telemetry systems (including sewers which are the subject of an agreement under Section 104 of the Water Industry Act 1991 and mains installed in accordance with the agreement for the self construction of water mains) (UUWL apparatus) of United Utilities Water Limited "(UUWL)".

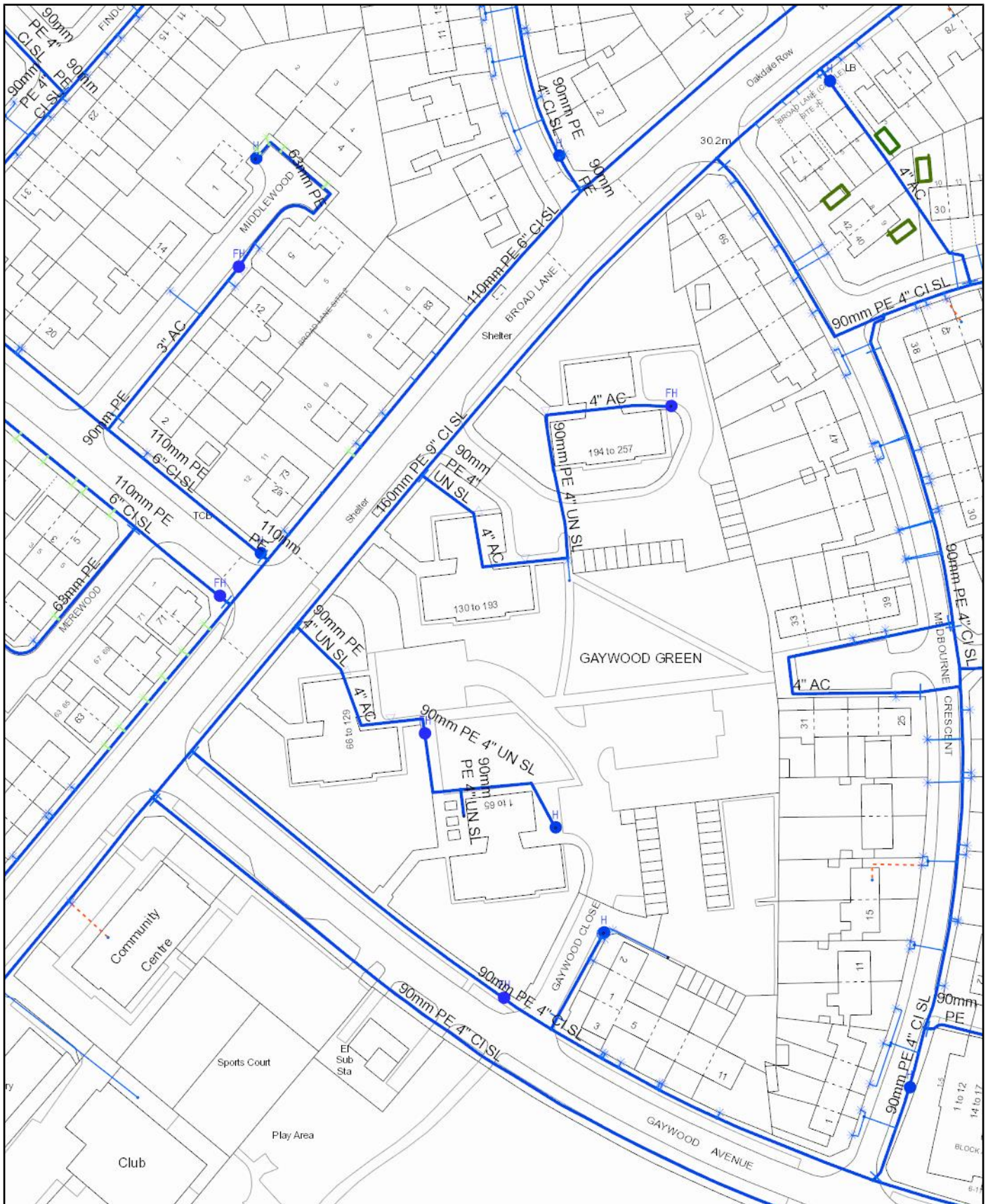
TERMS AND CONDITIONS:

- This Map and any information supplied with it is issued subject to the provisions contained below, to the exclusion of all others and no party relies upon any representation, warranty, collateral contract or other assurance of any person (whether party to this agreement or not) that is not set out in this agreement or the documents referred to in it.
- This Map and any information supplied with it is provided for general guidance only and no representation, undertaking or warranty as to its accuracy, completeness or being up to date is given or implied.
- In particular, the position and depth of any UUWL apparatus shown on the Map are approximate only. UUWL strongly recommends that a comprehensive survey is undertaken in addition to reviewing this Map to determine and ensure the precise location of any UUWL apparatus. The exact location, positions and depths should be obtained by excavation trial holes.
- The location and position of private drains, private sewers and service pipes to properties are not normally shown on this Map but their presence must be anticipated and accounted for and you are strongly advised to carry out your own further enquiries and investigations in order to locate the same.
- The position and depth of UUWL apparatus is subject to change and therefore this Map is issued subject to any removal or change in location of the same. The onus is entirely upon you to confirm whether any changes to the Map have been made subsequent to issue and prior to any works being carried out.
- This Map and any information shown on it or provided with it must not be relied upon in the event of any development, construction or other works (including but not limited to any excavations) in the vicinity of UUWL apparatus or for the purpose of determining the suitability of a point of connection to the sewerage or other distribution systems.
- No person or legal entity, including any company shall be relieved from any liability howsoever and whensoever arising for any damage caused to UUWL apparatus by reason of the actual position and/or depths of UUWL apparatus being different from those shown on the Map and any information supplied with it.
- If any provision contained herein is or becomes legally invalid or unenforceable, it will be taken to be severed from the remaining provisions which shall be unaffected and continue in full force and affect.
- This agreement shall be governed by English law and all parties submit to the exclusive jurisdiction of the English courts, save that nothing will prevent UUWL from bringing proceedings in any other competent jurisdiction, whether concurrently or otherwise.

Clean Water Symbolology

Proposed	Abandoned	Live	
			Distribution Main
			Trunk Main
			Comms Pipe
			Private Pipe
			Concessionary Service
			Raw Water
			LDTM Raw Water
			LDTM Treated Water
			Air Valve
			AC Valve, open
			AC Valve, closed
			CC Valve, open
			CC Valve, closed
			Non Return Valve
			Pressure Management Valve
			OMS Valve
			Stop Tap
			Flow Meter
			Domestic Meter
			Commercial Meter
			Pump
			Hydrant
			Fire Hydrant
			Anode
			Chlorination Point
			De-chlorination Point
			Strainer Point
			Access Point
			Hatch Box
			IP Point
			Sampling Station
			Logger Box
			Bore Hole
			Inlet Point
			Bulk Supply Point
			End Cap
			Site Termination
			Change of Characteristic
			Condition Report
			<u>Property Types</u>
			Water Tower
			Valve House
			Booster Pumping Station
			Intake Pumping Station
			Water Treatment Works
			Supply Reservoir
			Service Reservoir
			Impounding Reservoir
			Pipe Bridge

Symbology for proposed assets is the same as above, but shown in **green**
 Symbology for abandoned assets is the same as above, but shown in **black**



Scale: 1:1250
Date: 16/01/2023

WATER MAINS RECORDS

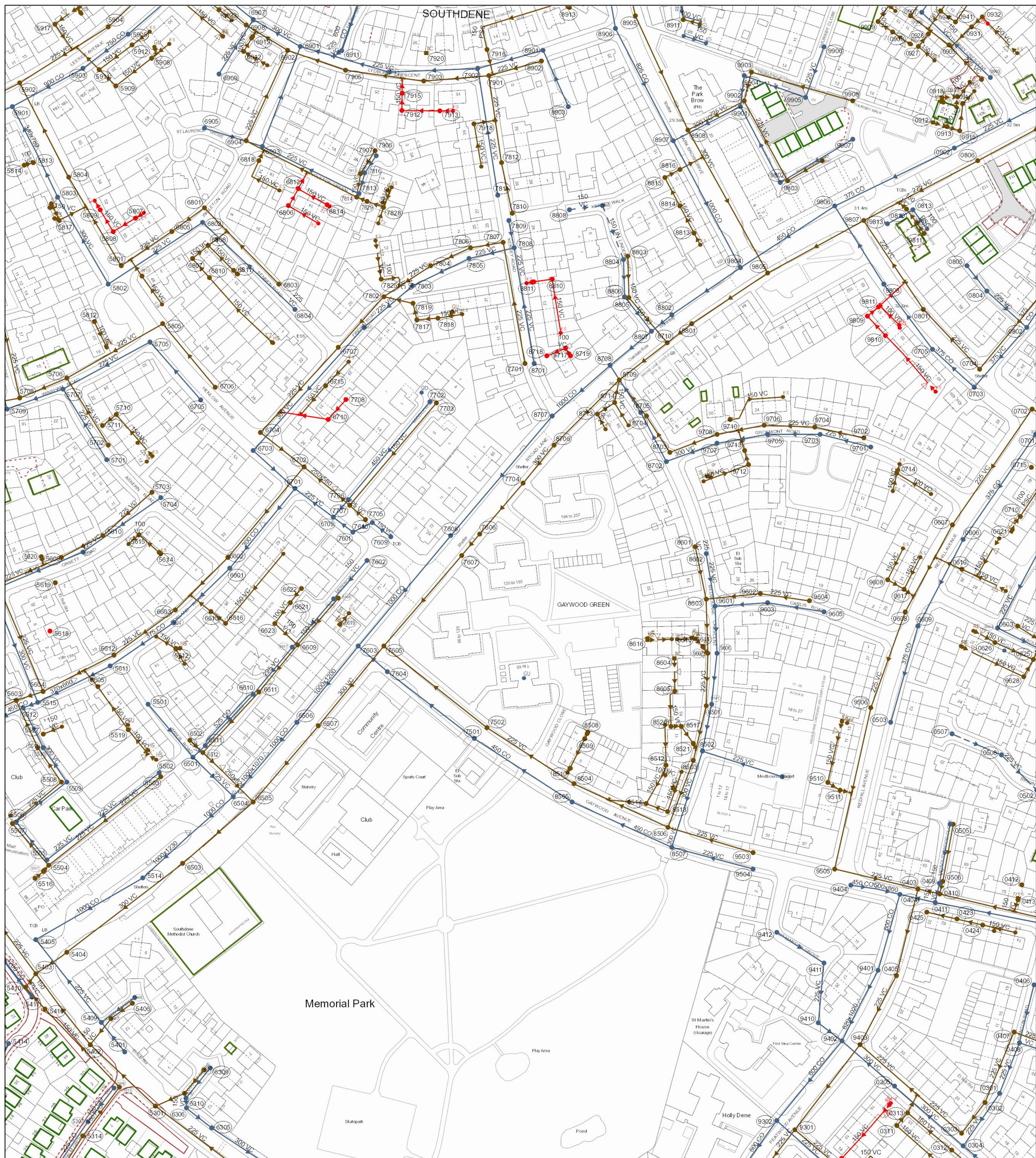


Water for the North West

Address or Site Reference: Gaywood Green Tower Blocks Kirkby
Printed by: Property Searches

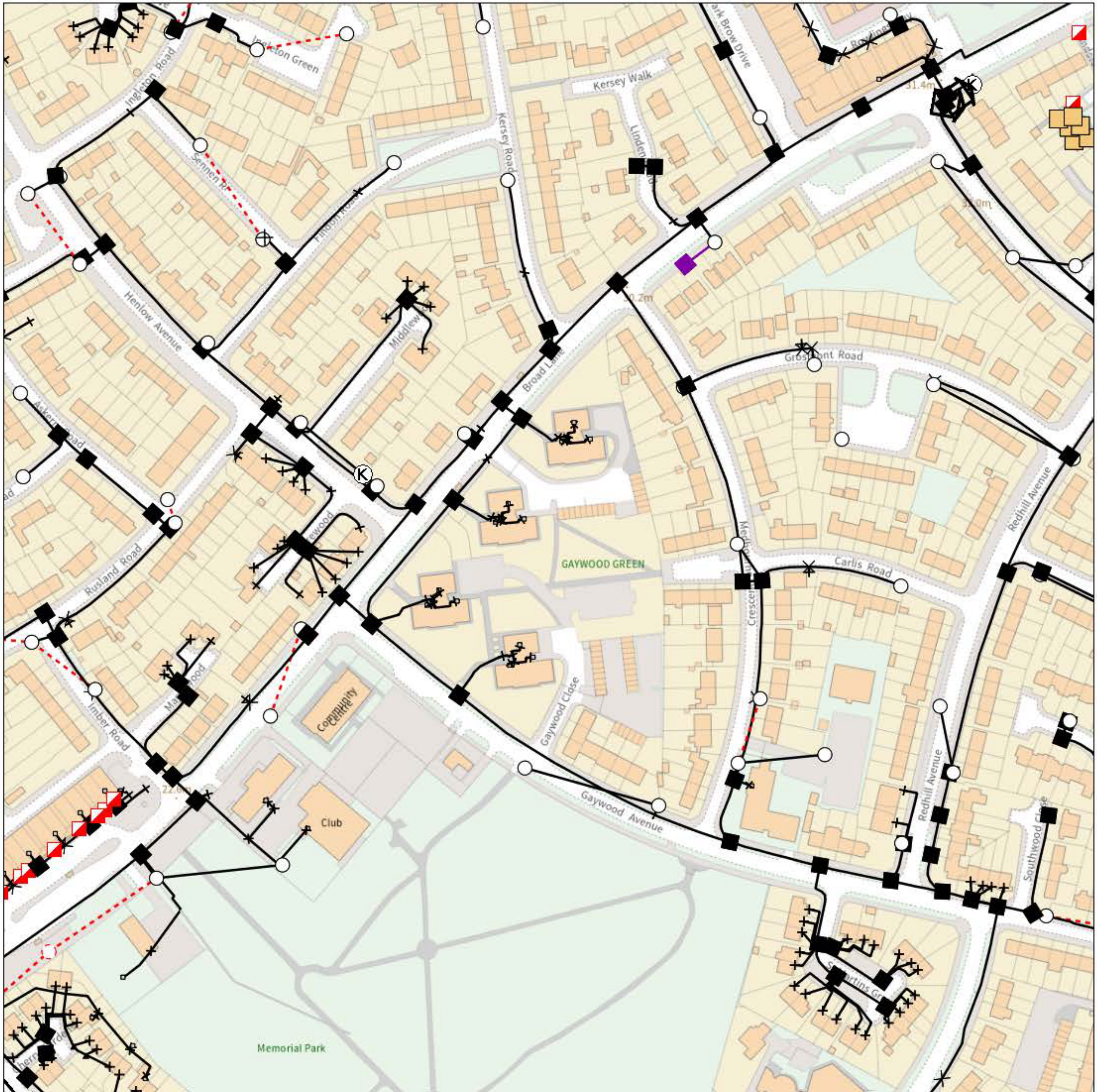
The position of the underground apparatus shown on this plan is approximate only and is given in accordance with the best information currently available. United Utilities Water will not accept liability for any loss or damage caused by the actual position being different from those shown.

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Refno	Cover	Func	Invert	Size x	Shape	Matl	Length	Grad	Refno	Cover	Func	Invert	Size x	Shape	Matl	Length	Grad
5902	22.4	SW	225	225	VC	78.4918	1 in 70	7160	27.59	FO	29.49	0	300	VC	36.12478	1 in 90	7901
5905	25.51	SW	23.79	225	VC	54.58937	1 in 37	7605	27.59	FO	29.49	0	300	VC	56.85068	1 in 40	7902
5907	27.39	SW	23.94	225	VC	42.15448	1 in 80	8005	27.67	FO	25.51	150	VC	19.90741	1 in 40	7903	
5912	23.17	FO	21.41	225	VC	11.93311	1 in 37	8020	27.67	FO	25.51	150	VC	49.47727	1 in 40	7904	
5913	24.63	FO	21.41	225	VC	43.82976	1 in 37	8025	27.67	FO	25.51	150	VC	17.13729	1 in 40	7905	
5916	24.45	FO	22.75	225	VC	10.66668	1 in 70	8030	27.67	FO	25.51	150	VC	7.735272	1 in 40	7906	
5917	24.45	FO	22.75	225	VC	25.84224	1 in 56	8035	27.67	FO	25.51	150	VC	29.42788	1 in 40	7907	
5918	24.45	FO	22.75	225	VC	20.14073	1 in 56	8040	27.67	FO	25.51	150	VC	21.26029	1 in 40	7908	
5919	24.45	FO	22.75	225	VC	9.877552	1 in 123	8045	27.67	FO	25.51	150	VC	24.19079	1 in 40	7909	
5920	24.45	FO	22.75	225	VC	22.2038	1 in 123	8050	27.67	FO	25.51	150	VC	60.60397	1 in 40	7910	
5921	24.45	FO	22.75	225	VC	16.52717	1 in 123	8055	27.67	FO	25.51	150	VC	50.32892	1 in 40	7911	
5922	24.45	FO	22.75	225	VC	5.014688	1 in 123	8060	27.67	FO	25.51	150	VC	5.704846	1 in 40	7912	
5923	24.45	FO	22.75	225	VC	27.01851	1 in 63	8065	27.67	FO	25.51	150	VC	28.10917	1 in 40	7913	
5924	24.45	FO	22.75	225	VC	47.41308	1 in 63	8070	27.67	FO	25.51	150	VC	34.43335	1 in 40	7914	
5925	24.45	FO	22.75	225	VC	6.483259	1 in 63	8075	27.67	FO	25.51	150	VC	60.41533	1 in 40	7915	
5926	24.45	FO	22.75	225	VC	9.877552	1 in 63	8080	27.67	FO	25.51	150	VC	12.62081	1 in 40	7916	
5927	24.45	FO	22.75	225	VC	6.483259	1 in 63	8085	27.67	FO	25.51	150	VC	18.28906	1 in 40	7917	
5928	24.45	FO	22.75	225	VC	9.877552	1 in 63	8090	27.67	FO	25.51	150	VC	34.88953	1 in 40	7918	
5929	24.45	FO	22.75	225	VC	10.43038	1 in 63	8095	27.67	FO	25.51	150	VC	51.73973	1 in 40	7919	
5930	24.45	FO	22.75	225	VC	30.10406	1 in 153	8100	27.67	FO	25.51	150	VC	11.99515	1 in 40	7920	
5931	24.45	FO	22.75	225	VC	24.16609	1 in 105	8105	27.67	FO	25.51	150	VC	26.48715	1 in 40	7921	
5932	24.45	FO	22.75	225	VC	38.89515	1 in 70	8110	27.67	FO	25.51	150	VC	55.63284	1 in 40	7922	
5933	24.45	FO	22.75	225	VC	11.96997	1 in 105	8115	27.67	FO	25.51	150	VC	28.17285	1 in 40	7923	
5934	24.45	FO	22.75	225	VC	5.161395	1 in 118	8120	27.67	FO	25.51	150	VC	24.88906	1 in 40	7924	
5935	24.45	FO	22.75	225	VC	19.96025	1 in 118	8125	27.67	FO	25.51	150	VC	29.47124	1 in 40	7925	
5936	24.45	FO	22.75	225	VC	96.30275	1 in 118	8130	27.67	FO	25.51	150	VC	42.52058	1 in 40	7926	
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5938	24.45	FO	22.75	225	VC	33.51628	1 in 47	8140	27.67	FO	25.51	150	VC	42.52058	1 in 40	7928	
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5941	24.45	FO	22.75	225	VC	9.877552	1 in 150	8155	27.67	FO	25.51	150	VC	42.52058	1 in 40	7931	
5942	24.45	FO	22.75	225	VC	28.53564	1 in 151	8160	27.67	FO	25.51	150	VC	27.47336	1 in 40	7932	
5943	24.45	FO	22.75	225	VC	59.67622	1 in 105	8165	27.67	FO	25.51	150	VC	34.20526	1 in 40	7933	
5944	24.45	FO	22.75	225	VC	51.73973	1 in 62	8170	27.67	FO	25.51	150	VC	19.32408	1 in 40	7934	
5945	24.45	FO	22.75	225	VC	33.54427	1 in 36	8175	27.67	FO	25.51	150	VC	31.5562	1 in 40	7935	
5946	24.45	FO	22.75	225	VC	33.13608	1 in 47	8180	27.67	FO	25.51	150	VC	21.9455	1 in 40	7936	
5947	24.45	FO	22.75	225	VC	12.94911	1 in 63	8185	27.67	FO	25.51	150	VC	50.08176	1 in 40	7937	
5948	24.45	FO	22.75	225	VC	12.67639	1 in 26	8190	27.67	FO	25.51	150	VC	22.59781	1 in 40	7938	
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5950	24.45	FO	22.75	225	VC	29.42788	1 in 27	8200	27.67	FO	25.51	150	VC	9.936766	1 in 40	7940	
5951	24.45	FO	22.75	225	VC	45	0	8205	27.67	FO	25.51	150	VC	53.31727	1 in 40	7941	
5952	24.45	FO	22.75	225	VC	33.85989	1 in 17	8210	27.67	FO	25.51	150	VC	17.80449	1 in 40	7942	
5953	24.45	FO	22.75	225	VC	11.4674	1 in 85	8215	27.67	FO	25.51	150	VC	28.86174	1 in 40	7943	
5954	24.45	FO	22.75	225	VC	11.91868	1 in 85	8220	27.67	FO	25.51	150	VC	60.42277	1 in 40	7944	
5955	24.45	FO	22.75	225	VC	39.5997	1 in 72	8225	27.67	FO	25.51	150	VC	4.73726	1 in 40	7945	
5956	24.45	FO	22.75	225	VC	10.414	1 in 85	8230	27.67	FO	25.51	150	VC	20.47214	1 in 40	7946	
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5958	24.45	FO	22.75	225	VC	60.80156	1 in 49	8240	27.67	FO	25.51	150	VC	55.03635	1 in 40	7948	
5959	24.45	FO	22.75	225	VC	15.6209	1 in 82	8245	27.67	FO	25.51	150	VC	50.17319	1 in 40	7949	
5960	24.45	FO	22.75	225	VC	8.78591	1 in 31	8250	27.67	FO	25.51	150	VC	28.86174	1 in 40	7950	
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5962	24.45	FO	22.75	225	VC	25.70992	1 in 54	8260	27.67	FO	25.51	150	VC	10.78887	1 in 40	7952	
5963	24.45	FO	22.75	225	VC	79.02531	1 in 54	8265	27.67	FO	25.51	150	VC	60.41533	1 in 40	7953	
5964	24.45	FO	22.75	225	VC	6.602497	1 in 191	8270	27.67	FO	25.51	150	VC	38.28376	1 in 40	7954	
5965	24.45	FO	22.75	225	VC	14.5216	1 in 191	8275	27.67	FO	25.51	150	VC	11.38152	1 in 40	7955	
5966	24.45	FO	22.75	225	VC	15.8882	1 in 191	8280	27.67	FO	25.51	150	VC	23.07899	1 in 40	7956	
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5968	24.45	FO	22.75	225	VC	49.0408	1 in 133	8290	27.67	FO	25.51	150	VC	18.04416	1 in 40	7958	
5969	24.45	FO	22.75	225	VC	11.92607	1 in 8	8295	27.67	FO	25.51	150	VC	17.11724	1 in 40	7959	
5970	24.45	FO	22.75	225	VC	11.4041	1 in 8	8300	27.67	FO	25.51	150	VC	17.11724	1 in 40	7960	
5971	24.45	FO	22.75	225	VC	16.86882	1 in 33	8305	27.67	FO	25.51	150	VC	19.55924	1 in 40	7961	
5972	24.45	FO	22.75	225	VC	37.36308	1 in 225	8310	27.67	FO	25.51	150	VC	14.09842	1 in 40	7962	
5973	24.45	FO	22.75	225	VC	33.30105	1 in 81	8315	27.67	FO	25.51	150	VC	10.41411	1 in 40	7963	
5974	24.45	FO	22.75	225	VC	14.88006	1 in 31	8320	27.67	FO	25.51	150	VC	62.1289	1 in 40	7964	
5975	24.45	FO	22.75	225	VC	4.133532	1 in 261	8325	27.67	FO	25.51	150	VC	31.5562	1 in 40	7965	
5976	24.45	FO	22.75	225	VC	32.70406	1 in 123	8330	27.67	FO	25.51	150	VC	29.02078	1 in 40	7966	
5977	24.45	FO	22.75	225	VC	43.93177	1 in 163	8335	27.67	FO	25.51	150	VC	14.59509	1 in 40	7967	
5978	24.45	FO	22.75	225	VC	5.845243	1 in 261	8340	27.67	FO	25.51	150	VC	14.59509	1 in 40	7968	
5979	24.45	FO	22.75	225	VC	39.82462	1 in 82	8345	27.67	FO	25.51	150	VC	14.59509	1 in 40	7969	
5980	24.45	FO	22.75	225	VC	50.77421	1 in 82	8350	27.67	FO	25.51	150	VC	27.29469	1 in 40	7970	
5981	24.45	FO	22.75	225	VC	27.29469	1 in 82	8355	27.67	FO	25.51	150	VC	42.52058	1 in 40	7971	
5982	24.45	FO	22.75	225	VC	21.23635	1 in 82	8360	27.67	FO	25.51	150	VC	21.01264	1 in 40	7972	
5983	24.45	FO	22.75	225	VC	8.844003	1 in 82	8365	27.67	FO	25.51	150	VC	27.65963	1 in 40	7973	
5984	24.45	FO	22.75	225	VC	10.91424	1 in 82	8370	27.67	FO	25.51	150	VC	60.60397	1 in 40	7974	
5985	24.45	FO	22.75	225	VC	48.297	1 in 82	8375	27.67	FO	25.51	150	VC	14.79603	1 in 40	7975	
5986	24.45	FO	22.75	225	VC	15.86046	1 in 110	8380	27.67	FO	25.51	150	VC	6.70308	1 in 40	7976	
5987	24.45	FO	22.75	225	VC	37.53665	1 in 110	8385	27.67	FO	25.51	150	VC	14.98434	1 in 40	7977	
5																	

Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



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email cbyd@openreach.co.uk

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(Office hours: Monday - Friday 08.00 to 17.00)
www.openreach.co.uk/cbyd

Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings	
PCP			Split Coupling	×	Built	
Pole			Duct Tee	▲	Planned	
Box			Building		Inferred	
Manhole			Kiosk	(K)	Duct	
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.			
	Pending Add	In Place	Pending Remove	Not In Use		
Power Cable						
Power Duct				N/A		

BT Ref : ARE02566A

Map Reference : (centre) SJ4181097660

Easting/Northing : (centre) 341810,397660

Issued : 12/01/2023 14:57:02

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WARNING: IF PLANNED WORKS FALL INSIDE HATCHED AREA IT IS ESSENTIAL BEFORE PROCEEDING THAT YOU CONTACT THE NATIONAL NOTICE HANDLING CENTRE. PLEASE SEND E-MAIL TO: nnhc@openreach.co.uk

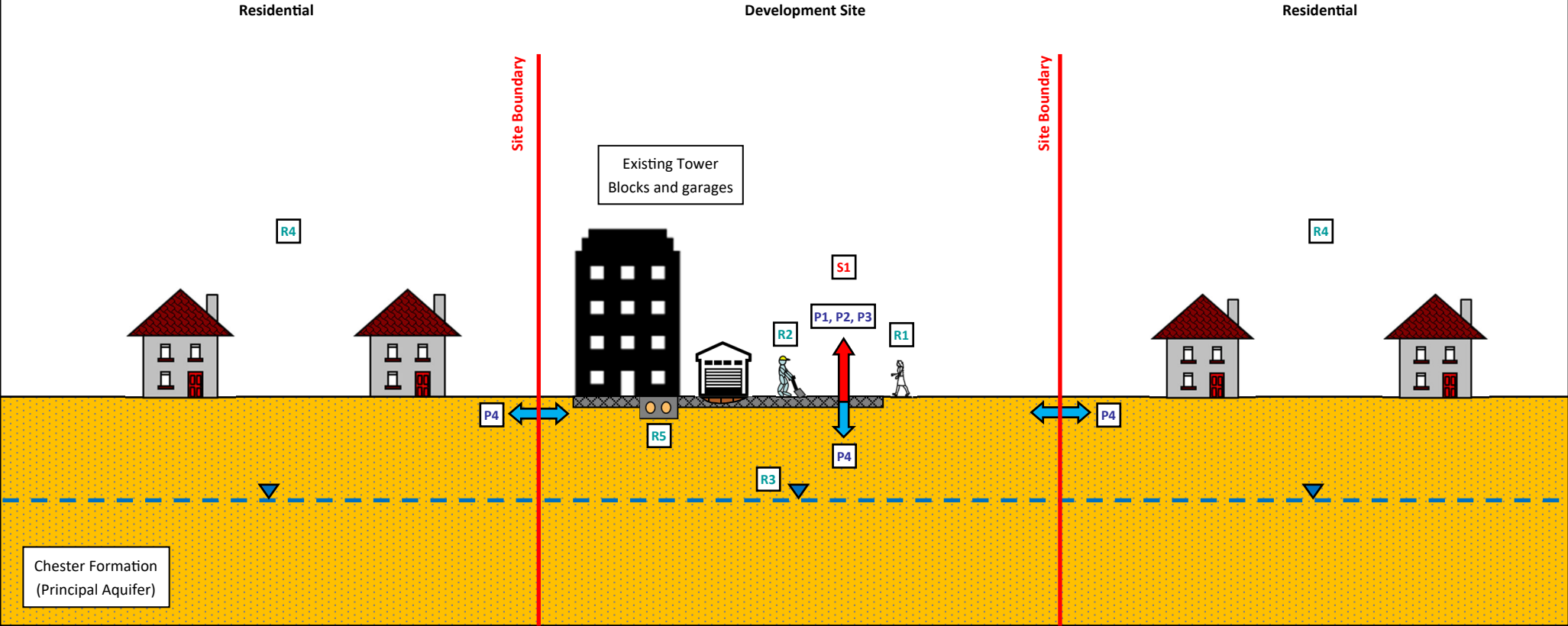
Appendix D – Detailed Site Historical Review

Appendix D – Detailed Historical Maps Review		
Date/Scale	Features On-site	Features Off-site
1850 1:10,560	The site comprises mainly farmland with woodland known as Wignall's Plantation in the southern part of the site.	The surrounding area predominantly comprises farmland, Wignall Plantation immediately south of the site and sporadic dwellings. Road Lane is noted 15m north-west of the site. A stream is noted 50m south of the site. A gravel pit is noted 165m east of the site. Ponds are noted 215m south-west, 220m south-west, and 250m south-west of the site.
1893 1:2,500	No significant changes.	The ponds noted 215m south-west, 220m south-west, and 250m south-west of the site are no longer mapped.
1894 1:10,560		
1908 1:2,500	No significant changes.	The gravel pit noted 165m east of the site is longer mapped.
1909 1:10,560		
1927 1:2,500	No significant changes.	No significant changes.
1928 1:10,560		
1938 1:10,560 (Partial Coverage)	No significant changes.	No significant changes.
1939 1:10,560 (Partial Coverage)		
1956 1:10,000	No significant changes.	No significant changes.
1960 – 1961 1:1,250 (Site within 1961 map)	Farmland and woodland are no longer mapped on-site. The site is within an area known as	Significant residential expansion is noted in the surrounding areas of the site. Residential properties are noted immediately north, east and

Appendix D – Detailed Historical Maps Review		
Date/Scale	Features On-site	Features Off-site
1960 – 1962 1:2,500 (Site within 1961 map)	Southdene.	west of the site. Gaywood Avenue and a park are noted south of the site. A clinic is noted 80m south-west of the site. Factories are noted 525m south-east, 570m east, 585m south-east of the site. Surrounding farmland, as well as Wignall's Plantation and the stream noted south of the site are no longer mapped.
1966 1:10,000	No significant changes.	No significant changes.
1967 – 1984 1:1,250 (Site within 1974 map)	By 1974 four tower blocks with associated rows of garages appear on-site. The site has also been relabelled to 'Gaywood Green'.	Residential properties are noted immediately south of the site. An electricity sub-station and a community centre are noted 25m south-west of the site.
1974 1:10,000		
1978 1:10,000	No significant changes.	No significant changes.
1990 1:10,000	No significant changes.	No significant changes.
1993 1:1,250	No significant changes.	No significant changes.
1999 1:10,000	No significant changes.	Residential properties 25m west of the site are no longer mapped.
2001 Historical Aerial Photography	Aerial photography shows four tower blocks and associated garages, but site is predominantly covered by grass with trees dotted throughout the site.	No significant changes.
2006 1:10,000	No significant changes.	Residential properties are noted 25m west of the site.
2022 1:10,000	No significant changes.	No significant changes.

Figure 4 – Preliminary Conceptual Site Model

Preliminary Conceptual Site Model (CSM)



Contamination Source	
S1	Made Ground / Hydrocarbon Spill — Onsite
Legend	
	Infilled / Made Ground
	Hydrocarbon Spill
	Underground Services
	Inferred Water Table

Receptor	
R1	Future Site Users
R2	Construction Workers
R3	Controlled Waters
R4	Adjacent Site Users
R5	Infrastructure & Buried Services

Pathway	
	Direct Contact / Ingestion
	Leachate Migration
	Ground Gas Migration
P1	Direct Contact
P2	Ingestion
P3	Inhalation
P4	Leaching & Migration
P5	Vertical & Lateral migration of Ground Gas

	Client: Ridge and Partners LLP		
	Project: 32996-SUT-ZZ-00-RP-G-7101		
	Site: Gaywood Green Tower Blocks, Kirkby		
Preliminary Conceptual Site Model (CSM)	Draft	1	Scale (at A3): Not to scale
	Issue	1	
Issuing Office: Liverpool	Drawing number: 1		Version: A
Telephone: 0151 227 3155			