



Phase I Preliminary Risk Assessment (PRA)

At

No. 1 Mill Cottage
Mill Lane
Cronton
WA8 5DT

Client: Mr D Jelf

Reference: 34614-SUT-ZZ-00-RP-G-7101

Date: January 2025

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SUTCLIFFE INVESTIGATIONS

Phase I Preliminary Risk Assessment (PRA)

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Executive Summary

INTRODUCTION	Sutcliffe Investigations were instructed by Mr D Jelf to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as No.1, Mill Cottage, Mill Lane, Cronton WA8 5DT at National Grid Reference (NGR) 349750, 388460.
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: 366551079-1-1).  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.
DEVELOPMENT PLANS	The proposed development for the site is to extend the existing cottage and remove the existing barn and replace this with an additional dwelling.
SITE DESCRIPTION	The site is irregular in shape, 0.08ha in area and can be accessed via Mill Lane to the south-east of the site and Hall Lane to the south-west of the site. The site is relatively flat and comprises of a single storey cottage, with a workshop to rear. A potential disused fuel tank is noted on the southern portion of the site and to our knowledge is likely to still be present. The site is relatively open with only a wooden fence between the neighbouring property on Hall Lane and a brick wall between the neighbouring property on Mill Lane.
SITE HISTORY	Onsite It appears the site is undeveloped on the earliest map dated 1849 – 1850, however this is unclear due to the scale of the map. By 1893, structures were noted on site, thought to be residential properties, with one of these structures thought to be the current cottage. Between 1907 and 1908, additional buildings were noted, the purpose of these building was unknown but likely to be residential properties or buildings associated with residential properties. No further change was noted on site until 1959 when three clear structures were clearly annotated, the cottage and two other unknown properties. By 1967 what appears to be the current barn was noted. No further changes were noted on the historical maps to present day, however a site visit and a review of google maps indicated a fuel pump / tank on the southern portion of the site. Offsite Historical maps initially indicate that off-site the surrounding land comprised fields, a disused quarry, farms, a church, a school, ponds, residential properties and local amenities.
GEOTECHNICAL UNCERTAINTY	The site has been subject to previous development and therefore, the potential for relic foundations and obstructions cannot be discounted.

GEOLOGY	Artificial There are no records of any artificial ground onsite or within 500m of the site. Drift The superficial deposits for the site are noted as Devensian Till. Solid The solid geology for the site is largely noted as Chester Formation – Sandstone, Pebbly (Gravelly) with the eastern tip of the site noted as Kinnerton Sandstone Formation – Sandstone.
HYDROGEOLOGY	The Bedrock is classified as a Principal Aquifer with the Superficial Deposits classified as a Secondary Aquifer Undifferentiated. There are eleven groundwater abstraction points listed in the Envirocheck Report within 2000m of the site, the closest of which is 468m North-East of the site, the operator is United Utilities Ltd and the abstraction is for public water supply, no further information has been provided.
FAULTS	A fault is noted to cut across the eastern tip of the site, and consideration of this will need to be required in respect to foundation design. Another fault is noted approximately 150m east of the site.
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 within a coal mining area however, no further action is required to assess the risks associated with coal mining assets.
HYDROLOGY	The nearest surface water feature is noted 271m north-west of the site and relates to a drain. No surface abstractions have been identified within 2000m radius of the site
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.  Further investigation of the potential underground fuel tank  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.

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 Mr D Jelf to undertake a Phase I Preliminary Risk Assessment (PRA) of the site known as No.1, Mill Cottage, Mill Lane, Cronton WA8 5DT.

1.2 Development Proposal & Legislative Context

Development Proposal

The proposed development for the site is to extend the existing cottage and remove the existing barn and replace this with an additional dwelling. The proposed development is presented as *Drawing Number: 1314-003* dated (April 2024) and produced by DK-Architects.

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 189 to 194 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.: 366551079-1-1), 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 – Alex Tosh, on the 8th January 2025. 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: 366551079-1-1), presented in Appendix A.

2.2 Site Location & Setting

The site address is located at No.1, Mill Cottage, Mill Lane, Cronton WA8 5DT at National Grid Reference (NGR) 349750, 388460 and is approximately 3.23km north-west from the centre of Widnes.

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

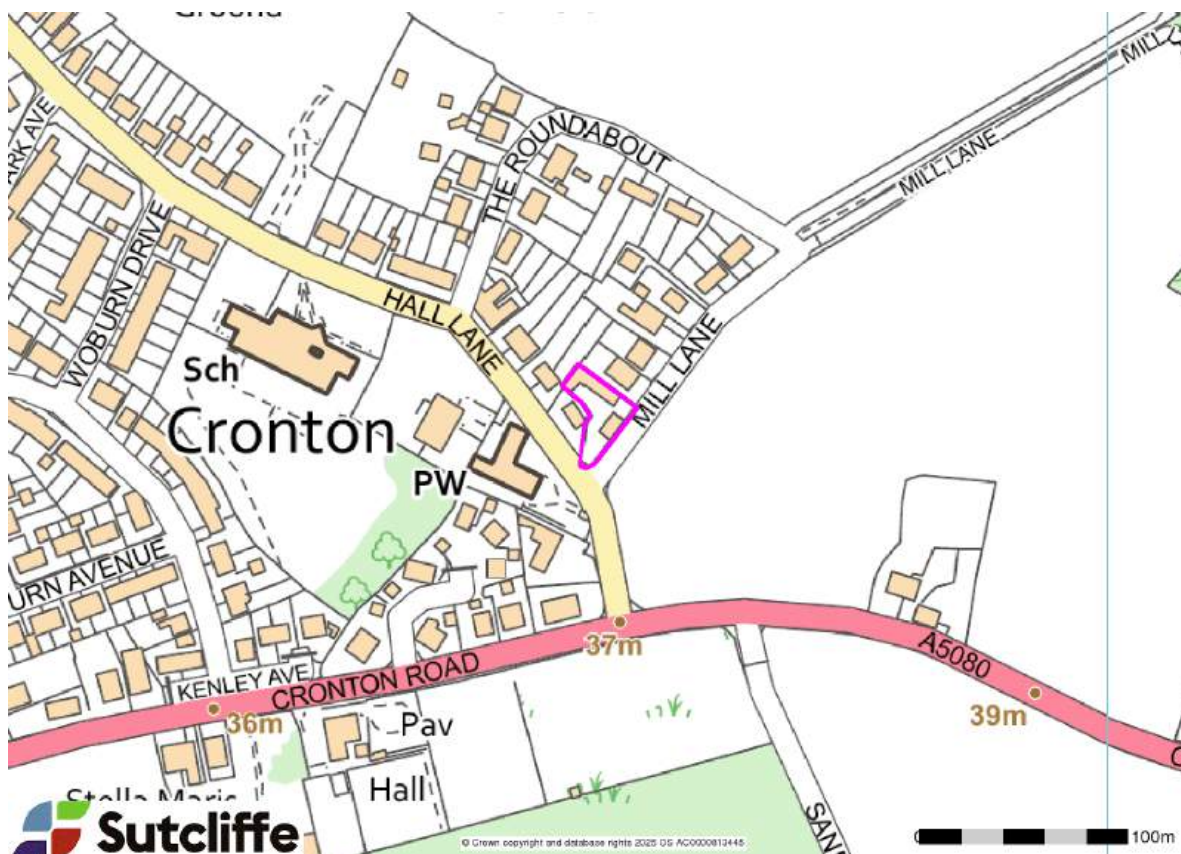


Figure 1: General Location of Site

2.3 Site Description & Walkover

The site is irregular in shape, 0.08ha in area and can be accessed via Mill Lane to the south-east of the site and Hall Lane to the south-west of the site. The site is relatively flat and comprises of a single storey cottage, with a workshop to rear. A potential disused fuel tank is noted on the southern portion of the site and to our knowledge is likely to still be present. The site is relatively open with only a wooden fence between the neighbouring property on Hall Lane and a brick wall between the neighbouring property on Mill Lane. A photographic log of the site is presented as Appendix B.

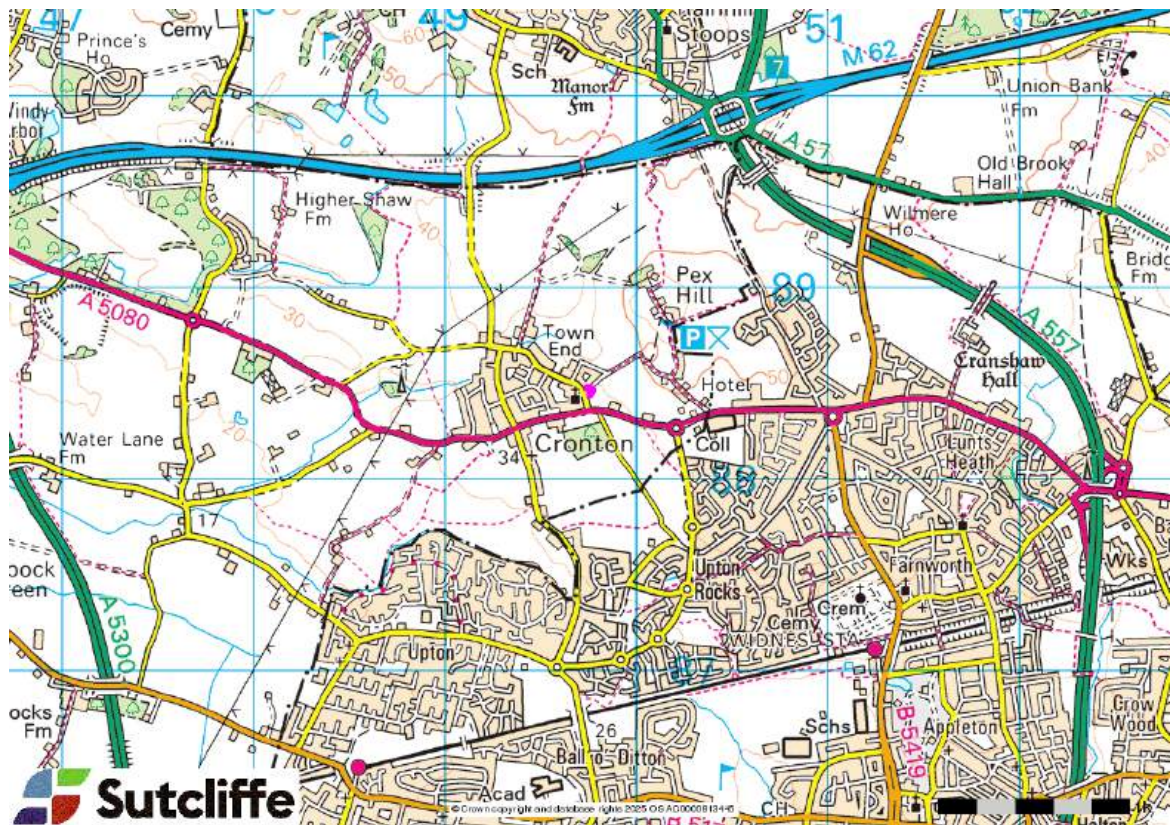


Figure 2: General Site Layout



Figure 3: Aerial Photograph

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	Field Land
South	Residential / Field Land
West	Residential / Local Amenities

2.5 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

It appears the site is undeveloped on the earliest map dated 1849 – 1850, however this is unclear due to the scale of the map. By 1893, structures were noted on site, thought to be residential properties, with one of these structures thought to be the current cottage. Between 1907 and 1908, additional buildings were noted, the purpose of these building was unknown but likely to be residential properties or buildings associated with residential properties. No further change was noted on site until 1959 when three clear structures were clearly annotated, the cottage and two other unknown properties. By 1967 what appears to be the current barn was noted. No further changes were noted on the historical maps to present day, however a site visit and a review of google maps indicated a fuel pump / tank on the southern portion of the site, an image of which is presented below.



Figure 4: Fuel Pump / Tank (Google Maps 2008)

Offsite

The earliest historical map dated 1849 - 1850 indicated that the surrounding area of the site was largely field land with little else of note other than a sandstone quarry approximately 330m north-east of the site. By 1893 the quarry was noted as disused and a small number of residential properties were noted within a 100m radius of the site.

Between 1907 and 1908 again little change was of note other than a farm noted approximately 80m south-west of the site. Between 1927 and 1928 a church was noted approximately 20m south-west of the site, a school was noted approximately 60m west of the site, residential properties and gardens were noted immediately north and north-west of the site and there was also a slight increase in residential properties approximately 140m east and 75m south of the site.

A large pond was noted approximately 300m north-west of the site in 1959 and between 1967 and 1969 there was again an increase in residential properties approximately 350m west of the site in the area of Cronton.

Again, no further changes were noted on maps dated between 1982 and 1999. By 2006 there had again been an increase in residential properties from approximately 580m south-east of the site, Widnes Sixth Form College was noted approximately 600m east of the site and the farm buildings noted approximately 800m north-east of the site were now noted as residential properties.

No further changes were of note.

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

2.6 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 Explosive Sites, no Notification of Installations Handling Hazardous

Substances (NIHHS) sites and no Planning Hazardous Substances Consents or Enforcements within 500m of the site.

Substantiated Pollution Incident Register

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

Landfill Sites

According to the Envirocheck Report there are;

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

Infilled Land

There are no records of Potentially Infilled Land (Non-Water) within 500m of the site, however 8No. records of Potentially Infilled Land (Water) have been noted within 500m of the site, details of the records noted within 250m of the site are provided hereunder:

Table 2.2: Infilled Land (Water)

Distance / Direction (<250m)	Use	Year
61m SE	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1908
97m S	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1908
104m NE	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1908
115m W	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1849
118 SE	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1908
192 N	Unknown Filled Ground (Pond, marsh, river, stream, dock etc)	1955

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 4No. entries located within 500m of the site, with only one of these entries still noted as active, the details of which are presented hereunder:

Table 2.3: Contemporary Industrial Land Uses

Distance / Direction (<500m)	Name	Classification	Status
386m SW	Cronton Motor Services	Garage Services	Inactive

2.7 Historical Contamination Potential

Site

Historical maps have indicated buildings on site from as early as 1893 with one of these buildings thought to be the current cottage. Between 1907 and 1908 additional buildings were noted on the site the purpose of which were unknown but likely to be residential or buildings associated with residential properties. By 1967 the current barn was evident on site. No further changes were noted on the historical maps to present day, however a site visit and a review of google maps indicated a fuel pump / tank on the southern portion of the site

With the exception of made ground potentially being present on site, together with the potential underground fuel tank, 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	120 - 180
Lead	<100
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 97 Runcorn (1977) 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 or within 500m of the site.

Superficial Geology

The superficial drift deposits for the site are noted as Till, Devensian - Clay, sandy, gravelly, silty.

Solid Geology

The solid geology for the site is largely noted as Chester Formation – Sandstone, Pebbly (Gravelly) with the eastern tip of the site noted as Kinnerton Sandstone Formation – Sandstone.

Table 3.2: Geology Summary

Strata	Description	Soil / Rock Type
Artificial Ground	On-site No records	N/a
Drift	Till, Devensian	Clay, sandy, gravelly, silty
Solid	Chester Formation / Kinnerton Sandstone Formation	Sandstone, Pebbly (Gravelly) Sandstone

Faults

A fault is noted to cut across the eastern tip of the site, and consideration of this will need to be required in respect to foundation design. Another fault is noted approximately 150m east of the site.

British Geological Society (BGS) Logs / Records

There are no BGS borehole logs in the vicinity of the site that have data available to see mapped geological conditions in the area 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	Very Low
Landslides	Very Low
Soluble Rocks	No Hazard
Compressible Deposits	No Hazard
Collapsible Deposits	Very Low
Running Sands	Very Low

3.4 Coal Mining & Brine Subsidence

The site does fall within a coal mining area. Based on the Consultants Coal Mining Report (Report Reference: 51003471654001) the following is of note:

-  No Past Underground Mining is noted below site
-  No Probable Unrecorded Shallow Workings are recorded
-  No Spine Roadways are recorded at shallow depth
-  There are no known coal mining entries on or within 50m of the site
-  No Abandoned Mine Catalogue Numbers are noted intersecting with the site boundary

-  No Outcrops are recorded onsite.
-  No Opencast mines are recorded within 500m of the site boundary.
-  No records of Coal Mining subsidence within 50m of the site boundary.
-  There is no record of mine gas emissions recorded within 500m of the site boundary.

The potential risks to the development of the site from historic coal workings and remediation to these features as identified within the Coal Authority Report are summarised below in *Table 3.4*.

Table 3.4: Potential Coal Mining Issues

Coal Mining Issues	Yes	No	Risk Assessment
Underground coal mining (recorded at shallow depths)		✓	Not required
Underground coal mining (probable at shallow depths)		✓	Not required
Mine Entries (shafts and adits)		✓	Not required
Coal mining geology (fissures)		✓	Not required
Record of past mine gas emissions		✓	Not required
Recorded coal mining surface hazard		✓	Not required
Surface mining (opencast workings)		✓	Not required

A full copy of the Coal Authority Mining Report can be found in Appendix D.

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 3.5*, with the designations assigned to the underlying strata of the site in *Table 3.6* hereunder:

Table 3.5: 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.

Designation	Description
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 3.6: Hydrogeology Summary

Strata	Description	Soil / Rock Type	Designation
Superficial	Till, Devensian	Clay, sandy, gravelly, silty	Secondary Aquifer Undifferentiated
Bedrock	Chester Formation / Kinnerton Sandstone Formation	Sandstone, Pebbly (Gravelly) Sandstone	Principal Aquifer

The Envirocheck Report indicates that the site is located within a Zone not located within a Zone II Outer Protection Zone and a Zone III (Total Catchment) area.

There are eleven groundwater abstraction points listed in the Envirocheck Report within 2000m of the site, the closest of which is 468m North East of the site, the operator is United Utilities Ltd and the abstraction is for public water supply, no further information has been provided.

3.7 Hydrology

The following is also of note:

-  The nearest surface water feature is noted 271m north-west of the site and relates to a drain.
-  There are seventeen recorded pollution incidents to controlled waters listed in the Envirocheck Report. The nearest is noted as being 328m north-west of the site, the pollutant was storm sewage with an incident severity of category 3 (minor incident).
-  There are no surface water abstractions listed within the Envirocheck Report within 2000m of the site.
-  There are no biological or chemical quality records noted within the surrounding areas 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 Envirocheck Report, the site is not at risk of flooding from surface water.

According to the BGS Flood GFS Data map, the site is situated within an area that has limited potential for groundwater flooding to occur at the surface.

3.9 Sensitive Land Uses

Ecological Receptors

According to the database, there are 3No. types of Sensitive Land Uses within 1000m of the site, the details of which are provided below:

-  There are 3 Adopted Green Belt Areas, the closet of which is on site with a plan date of the 6th January 2016, the others are noted 484m north-east and 521m south-east of the site.
-  An Unadopted Green Belt is noted 956m northeast of the site with a plan date of 5th March 2020.
-  The site is also noted to fall within a Nitrate Vulnerable Zone.

Significance of Environmental Setting

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

Table 3.7: Environmental Setting Summary

Environmental Setting	Sensitivity	Rationale
Groundwater	Low – Moderate	The site is situated in an area of low-moderate sensitivity with respect to groundwater resources due to the presence of a Secondary Aquifer Undifferentiated and a Principal Aquifer beneath 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	The site is not within 250m of an area at risk of extreme flooding from rivers or sea without defences.
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)	Demolished Buildings / Potential Underground Fuel Tank	All metals, fuel, hydrocarbons and oils and localised ground gas.

S1 (On-site)

Areas of Made Ground are anticipated across the majority of the site associated with the historic use of the site, notably the demolition of former buildings. Made Ground by its nature may contain contaminative material, most commonly heavy metals, PAHs and asbestos.

Additionally, the potential underground fuel tank will require investigation due to the potential risk from TPHs.

Carparking associated with the current development on site is evident, which may be a source of hydrocarbon contamination.

Made Ground is not anticipated to be of significant thicknesses capable of generating significant quantities of permanent gases onsite.

Hydrocarbon contamination may pose a vapour ground gas risk.

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)

The site has been considered for a residential end-use with soft landscaping, and as such is considered a sensitive end-use.

If the identified contaminant sources are present or have migrated to the site, pathways to the receptors are considered possible.

P4 (Leaching & Migration)

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

Historic hydrocarbon spills from car parking onsite or the potential underground fuel tank are considered possible which could migrate, however, volumes anticipated would be unlikely to be significant to impact controlled waters.

Lateral migration off-site may be possible, dependent on the composition of the Glaciofluvial deposits, more specifically the granular / cohesive content of the lateral continuity of any granular horizons. Such migration is considered possible though unlikely.

Downward migration of contaminants to the Principal Aquifer is considered unlikely due to the cohesive Glacial Till and Glaciofluvial Deposits. Glaciofluvial Deposits are typically encountered as interbedded horizons of a wide range of materials, including cohesive Clay and Silt dominant layers. As such, while downward migration may be possible, it is considered ultimately unlikely due to the anticipated cohesive horizons likely to be encountered within the strata.

P5 (Migration of ground gas / vapours)

It is considered pathway from offsite gas sources migrating to site is unlikely due to the widespread Glacial Till mapped retarding potential migration. Due to a combination of the identified potential sources to be unlikely to be actively producing gas and a likely lack of migration pathways, risks from offsite migration of permanent gases to the site is considered to be low.

Hydrocarbon contamination, if present on-site from onsite or offsite sources, may pose a vapour inhalation risk. Downward migration is considered unlikely due to anticipated cohesive deposits on site, and as such hydrocarbon migration may be perched onsite.

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 / Secondary Aquifer Undifferentiated and on-site drainage
R4	Adjacent Site Users	Adjacent site users. Third-party land (i.e. the possibility of contamination migrating off-site onto third party land via 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	
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 5*.

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	Potentially contaminated soil on-site	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	Unlikely	Moderate / Low Risk	
		P4	Leaching and migration of contaminants.	R3/5	Principal aquifer	Medium	Low	Moderate / Low 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	
				R4	Property	Severe	Unlikely	Moderate / Low Risk	

5 Conclusions & Recommendations

5.1 Introduction

Sutcliffe Investigations were instructed by Mr D Jelf, 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 irregular in shape and is bordered by residential properties, field land and local amenities. The site currently consists of a cottage and a barn. The development history of the site has not identified a significant source of environmental concern; however, a potential fuel tank will require further investigation. Additionally, information contained within the environmental database has not highlighted any major concerns. The site is underlain by a Principal Aquifer for the bedrock, with a Secondary Aquifer Undifferentiated for the superficial deposits.

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

The site is irregular in shape, 0.08ha in area and can be accessed via Mill Lane to the south-east of the site and Hall Lane to the south-west of the site. The site is relatively flat and comprises of a single storey cottage, with a workshop to rear. A potential disused fuel tank is noted on the southern portion of the site. The site is relatively open with only a wooden fence between the neighbouring property on Hall Lane and a brick wall between the neighbouring property on Mill Lane.

Historical maps initially indicate that off-site the surrounding land comprised fields, a disused quarry, farms, a church, a school, ponds, residential properties and local amenities.

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 been subject to previous development and therefore, the potential for relic foundations and obstructions cannot be discounted.

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.
-  Further investigation of the potential underground fuel tank
-  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.

Appendix A – Envirocheck Report (Report Reference: 366551079-1-1)

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

366551079_1_1

Customer Reference:

34614LG

National Grid Reference:

349750, 388460

Slice:

A

Site Area (Ha):

0.08

Search Buffer (m):

1000

Site Details:

1, Mill Lane

Cronton

Widnes

WA8 5DT

Client Details:

MR W Baldwin

Sutcliffe Projects Ltd

18-20 Harrington Street

Liverpool

L2 9QA

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	24
Hazardous Substances	-
Geological	26
Industrial Land Use	29
Sensitive Land Use	32
Data Currency	33
Data Suppliers	39
Useful Contacts	40

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		1		15
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 4				1
Local Authority Pollution Prevention and Control Enforcements	pg 5				1
Nearest Surface Water Feature	pg 5			Yes	
Pollution Incidents to Controlled Waters	pg 5			4	13
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register	pg 8				2
Water Abstractions	pg 8			2	(*9)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	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 11	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 11	Yes	n/a	n/a	n/a
Source Protection Zones	pg 11	2		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 11			5	94
Water Framework Directive - Catchment	pg 22	Yes			Yes
Water Framework Directive - Groundwater	pg 23	Yes			
Water Framework Directive - Surface Waters					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 24				1
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 24		6	2	7
Registered Landfill Sites	pg 25				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 26	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 26	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 27			1	
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 27	Yes	n/a	n/a	n/a
Mining Instability	pg 27	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 27	Yes	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 27	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 27	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 28	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 29			4	5
Fuel Station Entries					
Points of Interest - Commercial Services	pg 29			1	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 30			3	5
Points of Interest - Public Infrastructure	pg 30				4
Points of Interest - Recreational and Environmental	pg 31		2		
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 32	1		1	1
Areas of Unadopted Green Belt	pg 32				1
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 32	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	A13NW (E)	0	1	349754 388460
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	226	1	350000 388460
1	Discharge Consents Operator: D A B Stott Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: West View Stp, Chapel Lane, Near Widnes, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990593 Permit Version: 1 Effective Date: 11th March 1985 Issued Date: Not Supplied Revocation Date: 22nd March 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib River Mersey Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13NW (N)	125	2	349700 388600
2	Discharge Consents Operator: W.F. Jones Esquire Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: 2 Dwellings At Chapel Lane, Widnes, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992270 Permit Version: 1 Effective Date: 10th June 1991 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Culverted Trib R. Mersey Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	591	2	349500 387900
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chapel Lane Knowsley Ps (24003) Opp 85 Chapel Lane, Cronton, Widnes, Merseyside, Wa8 4nt Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982071 Permit Version: 1 Effective Date: 1st January 1900 Issued Date: Not Supplied Revocation Date: 1st January 1900 Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Brook Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	650	2	349490 387840
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chapel Lane Knowsley Ps (24003) Opp 85 Chapel Lane, Cronton, Widnes, Merseyside, Wa8 4nt Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01knw0004 Permit Version: 3 Effective Date: 10th June 2016 Issued Date: 10th June 2016 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Trib Of Ditton Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	651	2	349469 387848

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chapel Lane Knowsley Ps (24003) Opp 85 Chapel Lane, Cronton, Widnes, Merseyside, Wa8 4nt Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01KNW0004 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 9th June 2016 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Dog Clog Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	694	2	349470 387800
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chapel Lane Knowsley Ps (24003) Opp 85 Chapel Lane, Cronton, Widnes, Merseyside, Wa8 4nt Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01knw0004 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Sewage Discharges - Unspecified - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	694	2	349470 387800
4	Discharge Consents Operator: Mr J Duncan Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 2 Georges Hall Cottages 279 Cronton Road, Widnes, Cheshire, Cheshire, Wa8 5pz Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: Npswqd002564 Permit Version: 1 Effective Date: 1st July 2008 Issued Date: 1st July 2008 Revocation Date: 1st July 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ditch Lead To Dog Clog Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	898	2	348871 388242
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rainhill Etw Norlands Lane, Rainhill, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016920124 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	904	2	350090 389320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rainhill Etw Norlands Lane, Rainhill, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016920124 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: Not Supplied Revocation Date: 13th June 1989 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18NE (N)	904	2	350090 389320
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rainhill Etw Norlands Lane, Rainhill, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016920124 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: Not Supplied Revocation Date: 13th June 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18NE (N)	904	2	350090 389320
5	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Rainhill Etw Norlands Lane, Rainhill, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016920124 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A18NE (N)	904	2	350090 389320
6	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cronton Stw, Tue Lane, Cronton, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016930120 Permit Version: 1 Effective Date: 12th January 1980 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A12SW (W)	940	2	348800 388450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cronton Stw, Tue Lane, Cronton, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930120 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: Not Supplied Revocation Date: 25th June 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	940	2	348800 388450
6	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Cronton Stw, Tue Lane, Cronton, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016930120 Permit Version: 3 Effective Date: 26th June 1985 Issued Date: Not Supplied Revocation Date: 21st June 1989 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Dog Clog Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	940	2	348800 388450
7	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chetwood Ps, Widnes, Cheshire Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01HAL0070 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Ditton Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	955	2	350640 388060
7	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Chetwood Ps, Widnes, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01hal0070 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Sewage Discharges - Unspecified - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Ditton Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	955	2	350640 388060
8	Local Authority Pollution Prevention and Controls Name: Caldwells Farm Location: Norlands Farm, 114 Norlands Lane, WIDNES, Cheshire, WA8 5AT Authority: Halton Borough Council, Environmental Health Department Permit Reference: Hb/6.9/92/33 Dated: 24th June 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/27 Vegetable matter drying Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	943	3	350642 388833

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Local Authority Pollution Prevention and Control Enforcements Location: Norlands Farm, 114 Norlands Lane, Widnes, Cheshire, Wa8 5at Type: Air Pollution Control Enforcement Notice Reference: HB6.9/92/33 Date Issued: 28th April 2000 Enforcement Date: Not Supplied Details: Emissions Causing Offensive Odour To Pass The Process Boundary Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	943	3	350642 388833
	Nearest Surface Water Feature	A13NW (NW)	271	-	349613 388720
10	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Alder Brook; Pumping Station Sewage Incident Date: 20th February 1995 Incident Reference: 95740346 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	328	2	349500 388700
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Merseyside Authority: Environment Agency, North West Region Pollutant: Unknown Note: Tributary Dog La Bk; None Pollution Found Incident Date: 13th September 1994 Incident Reference: 94742059 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Electrical Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	374	2	349400 388300
12	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Wrong Connection Note: Dog Clogg Brook Incident Date: 16th October 1991 Incident Reference: 91440087 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	408	2	349400 388700
13	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: Crude Sewage Note: Dog Clogg Brook Incident Date: 10th August 1992 Incident Reference: 93440014 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	457	2	349300 388600
14	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: Tributary Dog Clogg Bk Incident Date: 29th March 1994 Incident Reference: 94740403 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	529	2	350300 388400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	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: Unknown Sewage Note: Dog Clog Brook Incident Date: 26th August 1992 Incident Reference: 92440122 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (W)	554	2	349200 388600
16	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: Crude Sewage Note: Alder Brook Incident Date: 26th January 1995 Incident Reference: 95740116 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	676	2	349505 387805
16	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: Crude Sewage Note: Alder Brook Incident Date: 10th February 1995 Incident Reference: 95740275 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	678	2	349500 387805
16	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Cheshire Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Dog Clogg Tributary; Storm Sewage Incident Date: 4th November 1996 Incident Reference: 96742283 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Ineffective Pumping Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	680	2	349495 387805
16	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: Crude Sewage Note: Alder Brook Incident Date: 5th January 1995 Incident Reference: 95740018 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	681	2	349505 387800
16	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: Crude Sewage Note: Dog Clogg Brook Incident Date: 5th December 1994 Incident Reference: 94742660 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	683	2	349500 387800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	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: Crude Sewage Note: Dog Clogg Brook Incident Date: 19th December 1994 Incident Reference: 94742740 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	686	2	349505 387795
16	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: Crude Sewage Note: Dog Clogg Brook Incident Date: 7th December 1994 Incident Reference: 94742676 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	688	2	349500 387795
17	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Acid Note: Alder Brook; Sulphuric Acid Incident Date: 4th June 1993 Incident Reference: 93440073 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	784	2	349000 388200
18	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: Crude Sewage Note: Alder Brook Incident Date: 31st May 1995 Incident Reference: 95741285 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Mechanical Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	842	2	350600 388300
18	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: Crude Sewage Note: Ditch Incident Date: 2nd June 1995 Incident Reference: 95741300 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Mechanical Failure Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	843	2	350600 388295
19	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Acid Note: Dog Clogg/ Bowers; Phosphoric Acid Incident Date: 16th September 1992 Incident Reference: 92430128 Catchment Area: Mersey - Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	984	2	350600 389000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 21st January 2003 Incident Reference: 132273 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Oils - Diesel (Including Agricultural)	A9NW (SE)	583	2	350173 388032
21	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 7th December 2004 Incident Reference: 281639 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A9NE (SE)	872	2	350555 388076
22	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028010 Permit Version: 101 Location: Boreholes (2) At Pex Hill Pumping Station, Whiston, Widnes 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 January Authorised End: 31 December Permit Start Date: 1st September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	468	2	350100 388800
22	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028010 Permit Version: 100 Location: Boreholes (2) At Pex Hill Pumping Station, Whiston, Widnes 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): 9100 Yearly Rate (m3): 2150000 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	468	2	350100 388800
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028009 Permit Version: 101 Location: Boreholes (3) At Stockswell Pumping Station, Whiston 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 January Authorised End: 31 December Permit Start Date: 1st September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1809	2	348200 387500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028009 Permit Version: 100 Location: Boreholes (3) At Stockswell Pumping Station, Whiston 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): 10900 Yearly Rate (m3): 3360000 Details: Boreholes (3) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1809	2	348200 387500
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: 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: Land At Tan House Farm, Cronton 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	(W)	1936	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton 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	(W)	1936	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: 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: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1936	2	347880 387926

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1936	2	347880 387926
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: 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: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1938	2	347880 387920
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1938	2	347880 387920
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028023 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: 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: Land At Alder Lane, Cronton, Widnes Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1938	2	347880 387920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13NW (E)	0	4	349754 388460
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NW (E)	0	4	349754 388460
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NW (E)	0	4	349754 388460
23	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.	A13NE (NE)	0	2	349759 388466
24	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.	A13NW (E)	0	2	349754 388460
25	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13NE (NE)	372	2	350015 388748
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13NW (NW)	273	5	349614 388723
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13NW (NW)	273	5	349614 388723

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NE (W)	379	5	349369 388552
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SW (N)	433	5	349756 388917
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NE (W)	458	5	349284 388520
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	528	5	350148 388086
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 220.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A9NW (SE)	529	5	350132 388067
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	530	5	350148 388082
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	534	5	350190 388127
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	534	5	350190 388127
36	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: Ditton Primacy: 1	A14SW (SE)	542	5	350215 388148

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	544	5	350217 388149
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 544.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	546	5	349346 388068
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	547	5	350246 388187
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	549	5	350250 388189
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 520.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	553	5	349872 387896
42	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: Ditton Primacy: 1	A14SW (SE)	560	5	350221 388127
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	562	5	350224 388126
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (SE)	574	5	350013 387924
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	590	5	350258 388126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 306.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (SE)	593	5	350262 388126
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 140.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (E)	594	5	350359 388361
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (E)	605	5	350376 388403
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	610	5	350152 387975
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 304.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	611	5	350154 387976
51	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	623	5	350395 388520
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	627	5	350397 388532
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SW (N)	629	5	349742 389113
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SW (N)	629	5	349742 389113

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 296.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	632	5	349200 388122
56	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 20.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SW (N)	638	5	349736 389122
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SE (N)	646	5	349758 389131
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 394.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	649	5	349756 387787
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SE (N)	650	5	349762 389134
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	659	5	349736 389143
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	660	5	349713 387776
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	664	5	349486 387826
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	670	5	349735 389154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 352.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Sankey Primacy: 1	A19SW (NE)	671	5	350252 388934
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	696	5	349474 387796
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	696	5	349474 387796
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (SW)	697	5	349472 387797
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	723	5	349871 389196
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	726	5	349874 389199
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	751	5	348989 388477
71	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	759	5	349664 389238
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	762	5	350535 388406

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	770	5	349650 389248
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	774	5	349645 389252
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	781	5	349626 389256
76	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	783	5	349616 389256
77	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	789	5	349470 387698
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	803	5	348992 388165
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	806	5	349449 387688
80	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 50.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	840	5	349433 387657
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	855	5	349302 387708

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7SE (SW)	855	5	349302 387708
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	856	5	349091 387889
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	874	5	349386 387641
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 452.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	874	5	350057 389301
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	874	5	350057 389301
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7SE (SW)	879	5	349305 387677
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NE (SE)	880	5	350563 388073
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NE (SE)	880	5	350563 388073
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7SE (SW)	884	5	349312 387668

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NE (SE)	884	5	350564 388065
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7SE (SW)	885	5	349316 387665
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 297.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	910	5	350012 389354
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	913	5	349326 387626
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	915	5	350058 389345
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	915	5	350058 389345
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7SE (SW)	916	5	349146 387746
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	916	5	349146 387746
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	917	5	349145 387746

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	918	5	349327 387621
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	920	5	349140 387746
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 741.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	921	5	348874 388146
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	921	5	348992 387912
104	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 35.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	923	5	349771 389407
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	930	5	349736 389414
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	942	5	348951 387935
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	943	5	348796 388504
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	943	5	348818 388674

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 171.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	943	5	349105 387747
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	946	5	348794 388491
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	947	5	348948 387930
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	949	5	349649 389428
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	952	5	349641 389430
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (S)	953	5	349391 387553
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	959	5	349328 387574
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	968	5	350005 389417
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NE (N)	968	5	350005 389417

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	976	5	349144 387669
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	984	5	349215 387609
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	984	5	349217 387608
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	988	5	349190 387622
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	988	5	349190 387622
123	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 54.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18NW (N)	991	5	349597 389464
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19NW (N)	998	5	350140 389401
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Dog Clog Brook (including Mill Brook) WaterBody ID: GB112069060690 Operational Catchment: Ditton Management: Mersey Lower Catchment: Lower Mersey Catchment Name: Lower Mersey	A13NW (E)	0	2	349754 388460
	Water Framework Directive - Catchment Class Code: Coastal Catchment WaterBody Name: Not Supplied WaterBody ID: 170 Operational Catchment: Sankey Management: Lower Mersey Catchment: Lower Mersey Catchment Name: Not Supplied	A19SW (NE)	562	2	350140 388890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Prescott Brook (Logwood Mill Brook) WaterBody ID: GB112069060710 Operational Catchment: Ditton Management Catchment: Mersey Lower Catchment Name: Lower Mersey	A17SE (NW)	688	2	349170 388860
	Water Framework Directive - Groundwater Waterbody Name: Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers Waterbody ID: GB41201G101700 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB41201G101700 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Poor Year: 2019	A13NW (E)	0	2	349754 388460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	6	349754 388460
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	7	349754 388460
	Local Authority Landfill Coverage Name: Halton Unitary Council - Has no landfill data to supply		481	3	350217 388650
125	Local Authority Recorded Landfill Sites Location: George'S Hall Farm, Cronton, Knowsley Reference: K006/K009 Authority: Merseyside Waste Disposal Authority Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A12SW (W)	912	7	348829 388418
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A13SE (SE)	61	-	349794 388391
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A13SW (S)	97	-	349728 388341
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A13NE (NE)	104	-	349855 388529
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1849	A13NW (W)	115	-	349625 388463
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A13SE (SE)	118	-	349827 388345
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NE (N)	192	-	349820 388662
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12NE (W)	356	-	349389 388540
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (SE)	362	-	349991 388164
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SE (W)	655	-	349092 388381
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NE (E)	819	-	350571 388656
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A14SE (E)	847	-	350590 388233
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NE (E)	909	-	350627 388777
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A14NE (E)	929	-	350669 388716
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SW (S)	934	-	349530 387528
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8SW (S)	939	-	349509 387528

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Registered Landfill Sites Licence Holder: Emitcourt Ltd Licence Reference: 135/01 Site Location: Georges Hall Farm, Cronton, Widnes, Cheshire Licence Easting: 348800 Licence Northing: 388420 Operator Location: 1St Floor, Midland Bank Chambers, ULVERSTON, Cumbria, LA12 7AM Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st September 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Inert Demolition Waste Wood Prohibited Waste: Biodegradable/Putrescible Waste Flammable Waste Liquid Wastes Paper/Cardboard Waste Sawdust/Bark Sludge Wastes Special Wastes Textiles, Rag,Wool,Cloth,Hessian Etc	A12SW (W)	941	2	348800 388420

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NW (E)	0	1	349754 388460
	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	A13NW (E)	0	1	349754 388460
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	0	1	349769 388470
	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 mg/kg	A13NE (E)	228	1	349990 388539
	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 mg/kg	A12NE (NW)	384	1	349392 388637
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SE (W)	547	1	349211 388332
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A14SW (E)	561	1	350335 388446

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 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:	A9NW (SE)	848	1	350382 387867
142	BGS Recorded Mineral Sites Site Name: Pex Hill Quarry Location: Tarbock, Huyton-With-Roby, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 91040 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Chester Pebble Beds Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	359	1	350069 388668
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (E)	0	8	349754 388460
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (E)	0	-	349754 388460
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	228	1	349990 388539
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	231	1	350000 388513
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	226	1	350000 388460
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	228	1	349990 388539
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	231	1	350000 388513
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (E)	0	1	349754 388460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	Contemporary Trade Directory Entries Name: Ian Watson Location: 35, Hampton Drive, Widnes, Cheshire, WA8 5BZ Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	322	-	349418 388486
144	Contemporary Trade Directory Entries Name: Cronton Motor Services Location: 7-9, Chapel Lane, Cronton, Widnes, Cheshire, WA8 4NT Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	385	-	349417 388239
144	Contemporary Trade Directory Entries Name: Cronton Motor Services Location: Chapel Lane, Cronton, Widnes, WA8 4NT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	386	-	349416 388240
145	Contemporary Trade Directory Entries Name: Samputensili Uk Ltd Location: 17-19, Hampton Drive, Widnes, Cheshire, WA8 5BZ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	388	-	349352 388455
146	Contemporary Trade Directory Entries Name: B A B Location: 22, Chapel Lane, Widnes, Cheshire, WA8 4NX Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	865	-	349721 387571
147	Contemporary Trade Directory Entries Name: C E Caldwell (Norlands Farm) Ltd Location: 114, Norlands Lane, Widnes, Cheshire, WA8 5AT Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	925	-	350621 388836
148	Contemporary Trade Directory Entries Name: Baldwin Haulage Ltd Location: 99, Old Upton Lane, Widnes, Cheshire, WA8 9PA Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	943	-	350001 387526
149	Contemporary Trade Directory Entries Name: Cars Location: 4, Chapman Close, Widnes, Cheshire, WA8 9WU Classification: Car Engine Tuning & Diagnostic Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	959	-	349934 387494
150	Contemporary Trade Directory Entries Name: B & L Services Ltd Location: 116, Norlands Lane, Widnes, Cheshire, WA8 5AT Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	991	-	350634 388957
151	Points of Interest - Commercial Services Name: Cronton Motor Services Location: Chapel Lane, Cronton, WA8 4NT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SW (SW)	427	9	349457 388124
152	Points of Interest - Commercial Services Name: Cartune Location: 23 Norlands Park, Widnes, WA8 5BH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NE (E)	856	9	350595 388707
153	Points of Interest - Commercial Services Name: Cars Location: 4 Chapman Close, Widnes, WA8 9WU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	959	9	349934 387494

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	Points of Interest - Commercial Services Name: Cars Location: 4 Chapman Close, Widnes, WA8 9WU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	959	9	349934 387494
154	Points of Interest - Manufacturing and Production Name: Pex Hill Quarry (Disused) Location: WA8 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	351	9	350043 388690
154	Points of Interest - Manufacturing and Production Name: Pex Hill Quarry (Disused) Location: WA8 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13NE (NE)	356	9	350062 388674
154	Points of Interest - Manufacturing and Production Name: Pex Hill Quarry (Disused) Location: WA8 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	361	9	350068 388673
155	Points of Interest - Manufacturing and Production Name: Tank Location: WA8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	726	9	349665 387715
155	Points of Interest - Manufacturing and Production Name: F J Collison & Son Location: 28 Chapel Lane, Widnes, WA8 4NX Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8SW (S)	737	9	349642 387706
156	Points of Interest - Manufacturing and Production Name: Tank Location: WA8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	836	9	350559 388751
156	Points of Interest - Manufacturing and Production Name: Tanks Location: WA8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	887	9	350599 388790
156	Points of Interest - Manufacturing and Production Name: Tank Location: WA8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	915	9	350627 388797
157	Points of Interest - Public Infrastructure Name: Outfall Location: WA8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	696	9	349481 387794
157	Points of Interest - Public Infrastructure Name: Outfall Location: WA8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	697	9	349475 387795
158	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: WA8 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	909	9	350610 388106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	Points of Interest - Public Infrastructure Name: Refuse Tip Location: WA8 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	927	9	348814 388429
160	Points of Interest - Recreational and Environmental Name: Play Area Location: WA8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	159	9	349627 388588
161	Points of Interest - Recreational and Environmental Name: Play Area Location: WA8 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	204	9	349618 388280

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A13SE (SE)	0	6	349765 388453
163	Areas of Adopted Green Belt Authority: Halton Borough Council Plan Name: Halton Unitary Development Plan Status: Adopted Plan Date: 7th April 2005	A14NW (NE)	484	10	350219 388654
164	Areas of Adopted Green Belt Authority: Halton Borough Council Plan Name: Halton Unitary Development Plan Status: Adopted Plan Date: 7th April 2005	A9NW (SE)	521	10	350114 388062
165	Areas of Unadopted Green Belt Authority: Halton Borough Council Plan Name: Delivery And Allocations Status: Submission Draft Plan Date: 5th March 2020	A19SE (NE)	956	10	350613 388922
166	Nitrate Vulnerable Zones Name: Dittton Brook (Halewood To Mersey Estuary) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (E)	0	4	349754 388460

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Halton Borough Council - Environmental Health Department St Helens Metropolitan Borough Council - Environmental Protection Department Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Department of Planning and Development Liverpool City Council - Liverpool Environmental Health & Trading Standards Division	November 2023 October 2017 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2024	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 2024	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 Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 December 2015 February 2015 January 2015 November 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 Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 December 2015 February 2015 January 2015 November 2014	Annual Rolling Update Annually Not Applicable Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Warrington Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Halton Borough Council - Environmental Health Department	December 2014 December 2015 February 2015 January 2015 November 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 2024	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Historical Prosecutions Environment Agency, North West Region	March 2013	Not Applicable
Registered Radioactive Substances Environment Agency - Head Office Environment Agency - North West Region	May 2023 May 2023	
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area	October 2024	Quarterly
Water Abstractions Environment Agency - North West Region	October 2024	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	October 2024	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2024	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	October 2024	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 - South Area	November 2024	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	October 2024	Quarterly
Local Authority Landfill Coverage Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council Warrington Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council Warrington Borough Council - Environmental Health Department	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 - South Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council Warrington Borough Council - Environmental and Regeneration Halton Borough Council	August 2015 February 2016 January 2016 June 2016 March 2023	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council Warrington Borough Council - Environmental and Regeneration	August 2015 August 2015 February 2016 January 2016 June 2016	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	March 2024	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	February 2023	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually

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

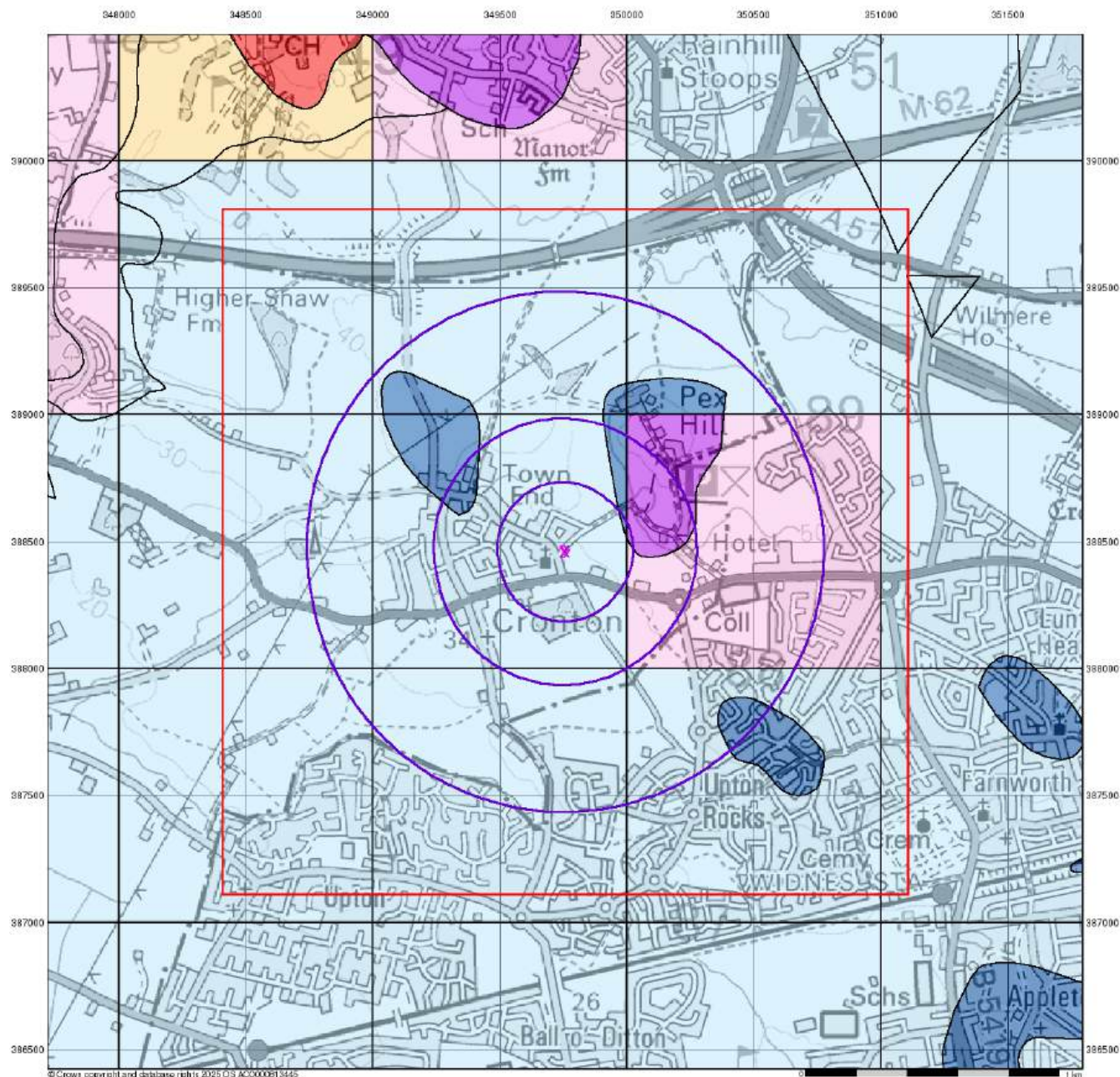
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	November 2024	Bi-Annually
Areas of Adopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council Warrington Borough Council	July 2024 July 2024 July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

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	Halton Borough Council - Environmental Health Department Grosvenor House, Halton Lea, Runcorn, Cheshire, WA7 2GW	Telephone: 0151 424 2061 Fax: 0151 471 7304 Website: www.halton.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.co.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	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Halton Borough Council Municipal Buildings, Kingsway, Widnes, Cheshire, WA8 7QF	Telephone: 0151 424 2061 Fax: 0151 471 7302 Website: www.halton.gov.uk
11	St Helens Metropolitan Borough Council Town Hall, Corporation Street, St Helens, Merseyside, WA10 1HP	Telephone: 01744 456000 Fax: 01744 733337 Website: www.sthelens.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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



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Groundwater Vulnerability

General

- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 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

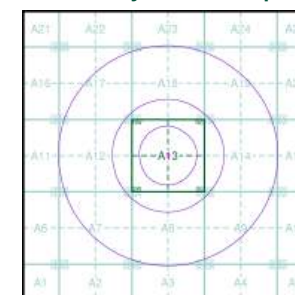
Superficial Aquifers

- 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

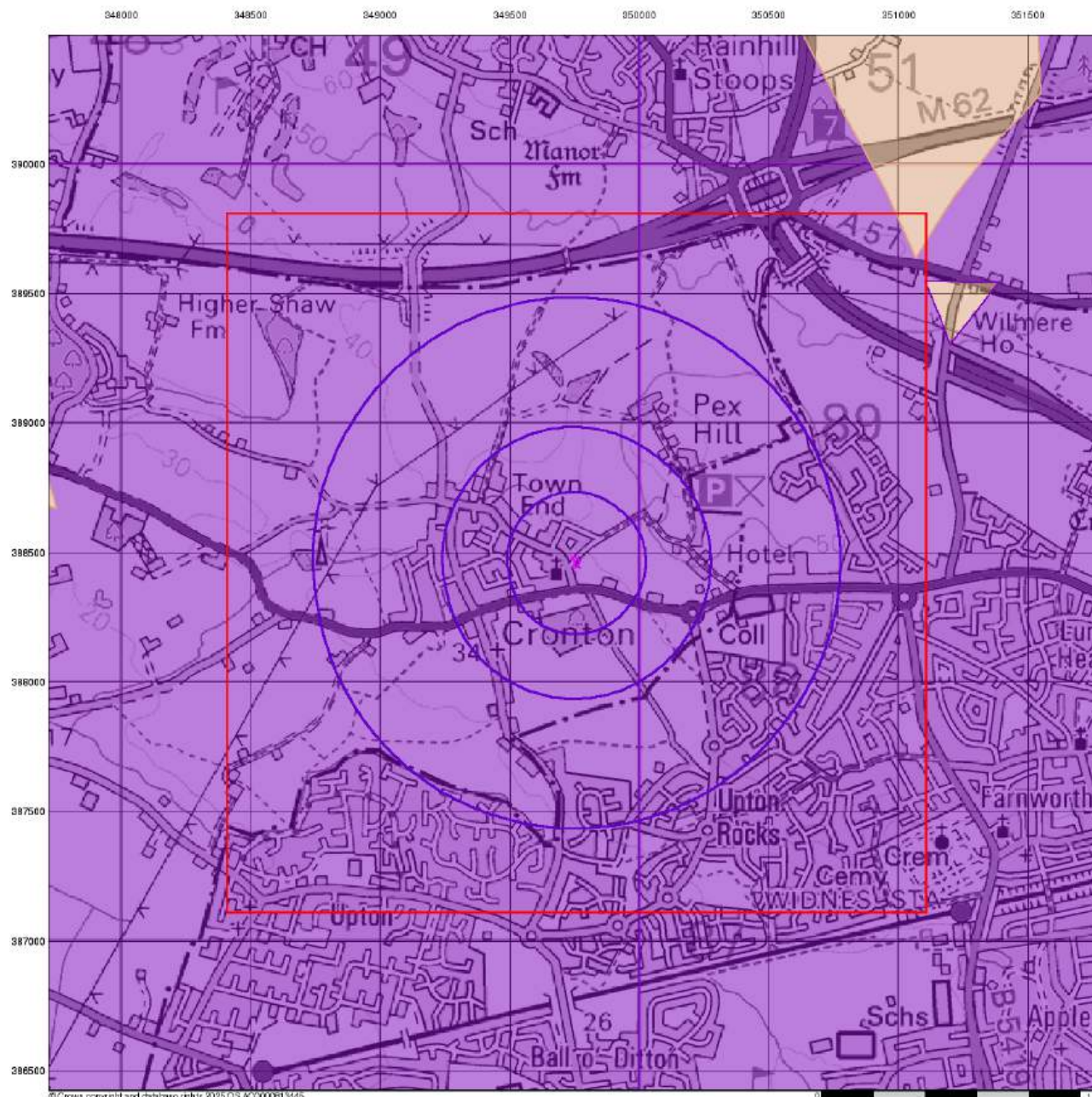
Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

Landmark
 INFORMATION GROUP

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



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Bedrock Aquifer Designation

General

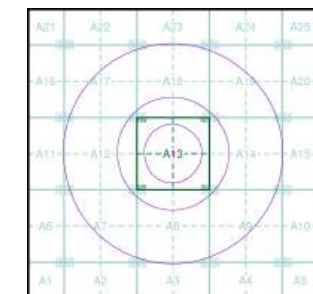
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

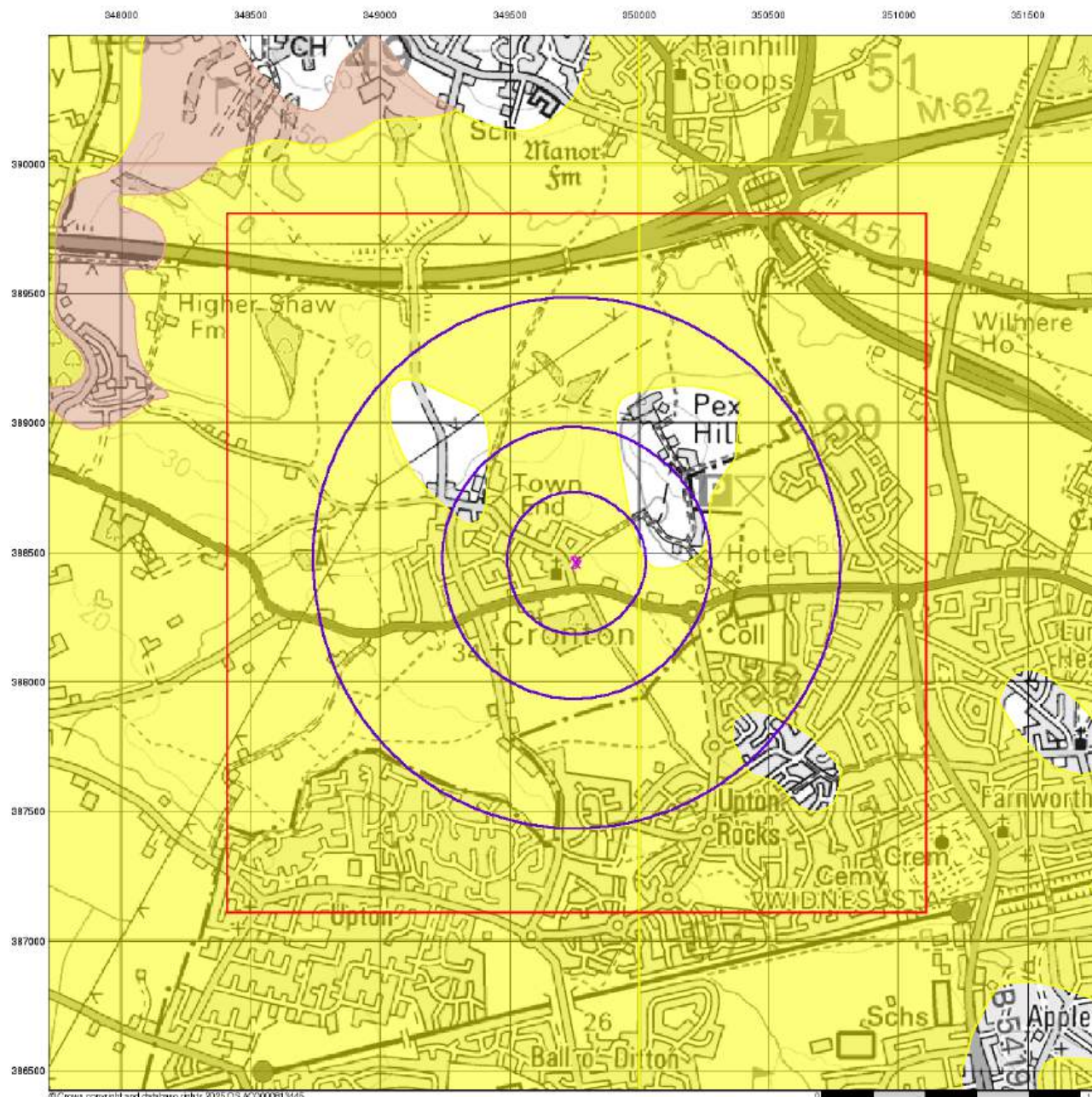
Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

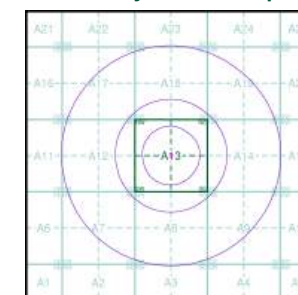
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

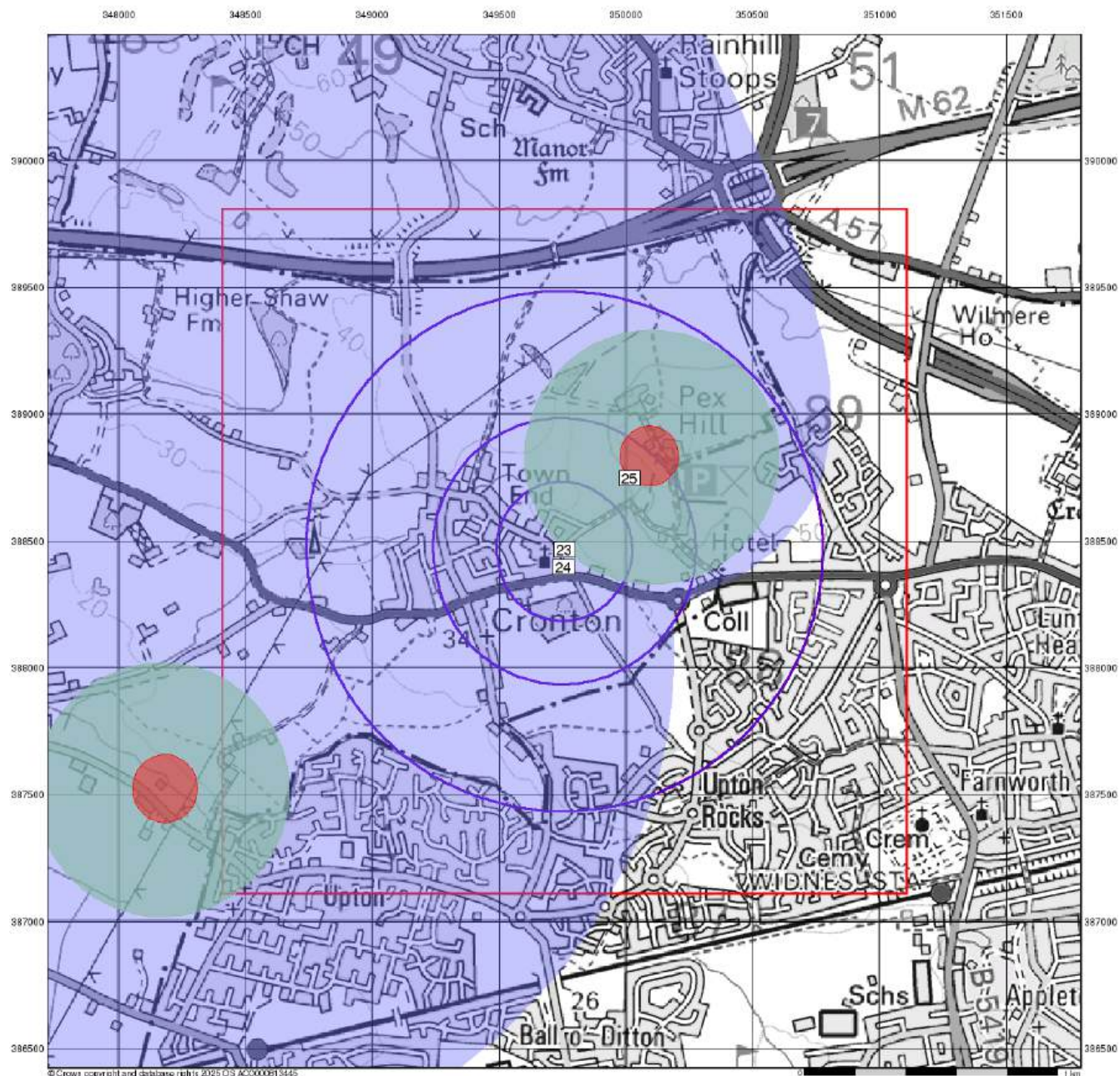
Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

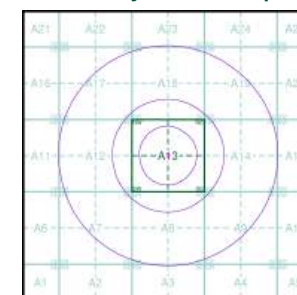
General

- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B 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

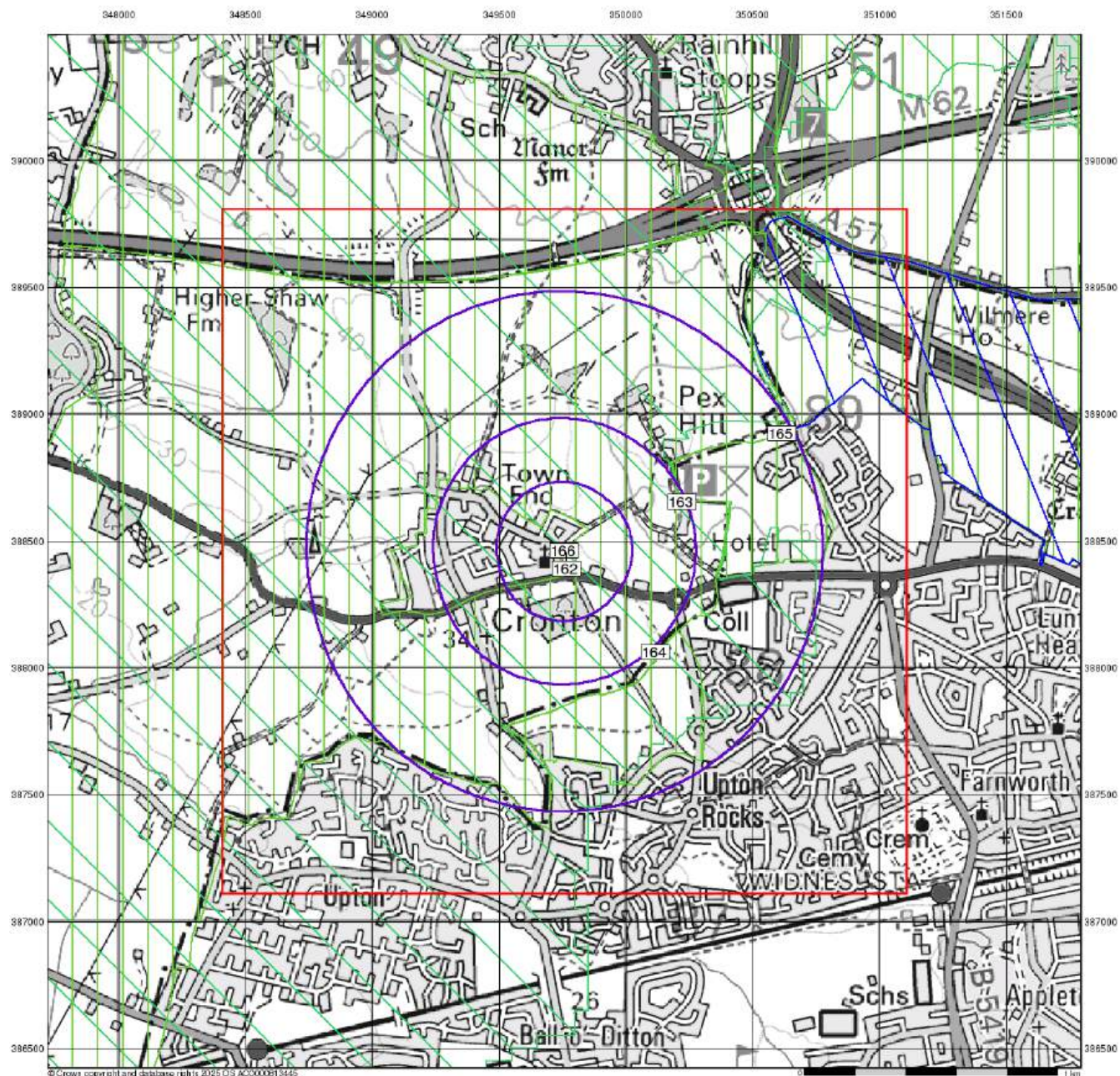
Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

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Sensitive Land Uses

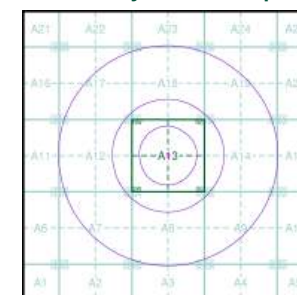
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

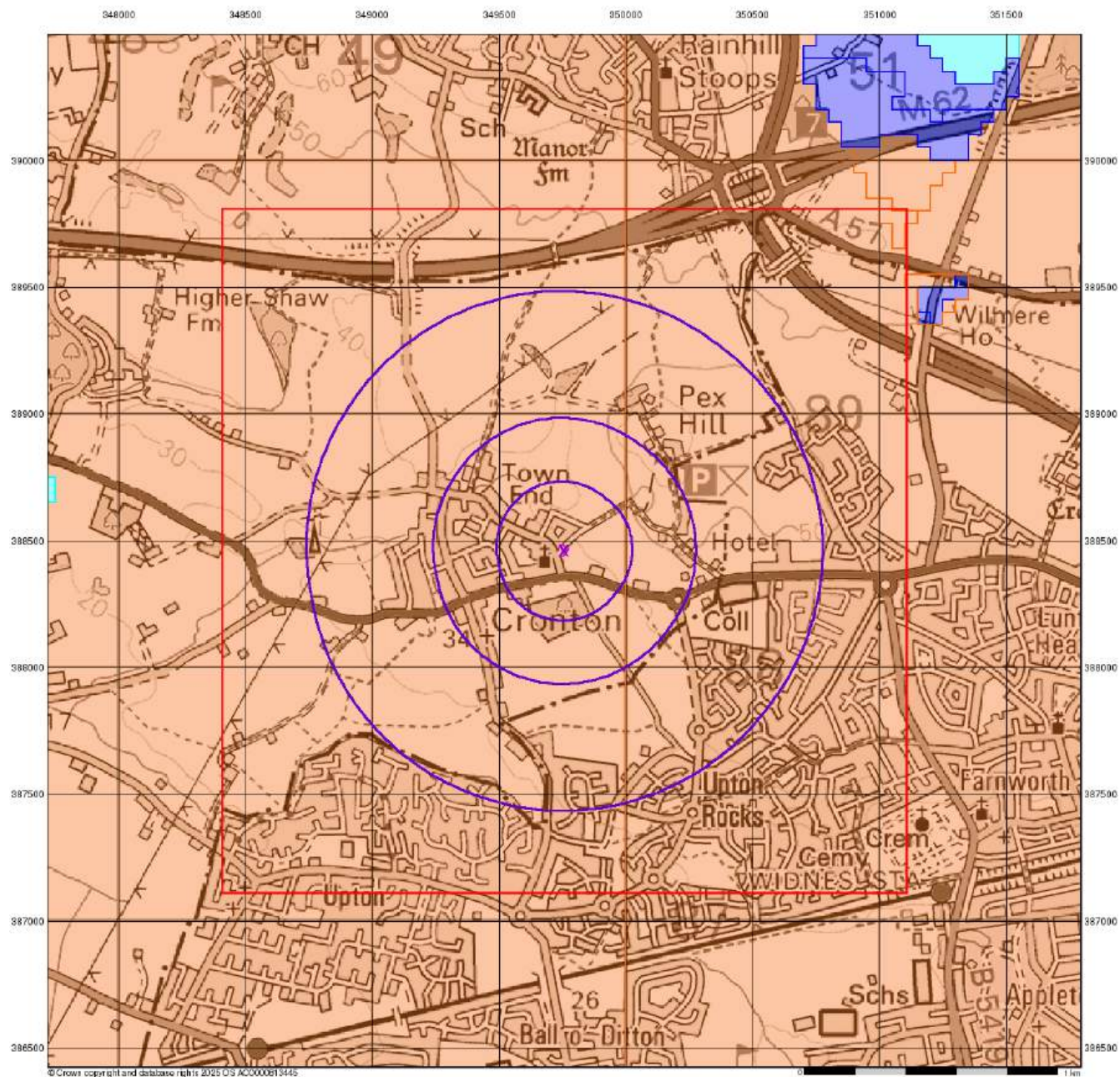
Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

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 Web: www.envirocheck.co.uk



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BGS Flood GFS Data

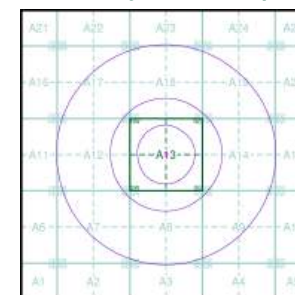
General

- 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: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



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



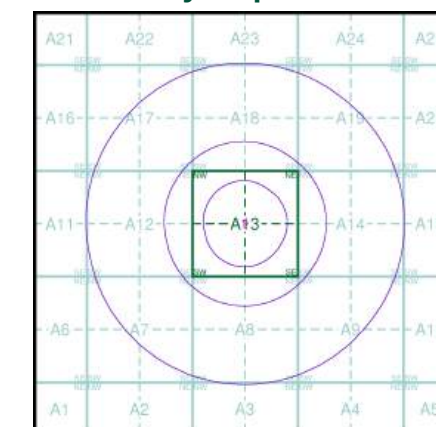
The figure shows a 5x5 grid of points labeled A1 to A25. The points are arranged in a regular grid. A 2x2 square is highlighted with a thick black border, centered on point A13. The square's vertices are at A12, A14, A11, and A15. Point A13 is at the center of the square.

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Plot Buffer (m): 100

1, Mill Lane, Cronton, Widnes, WA8 5DT

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Historical Prosecutions
 - Prosecutions
 - Registered Radioactive Substance
 - River Network or Water Feature
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- 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)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A

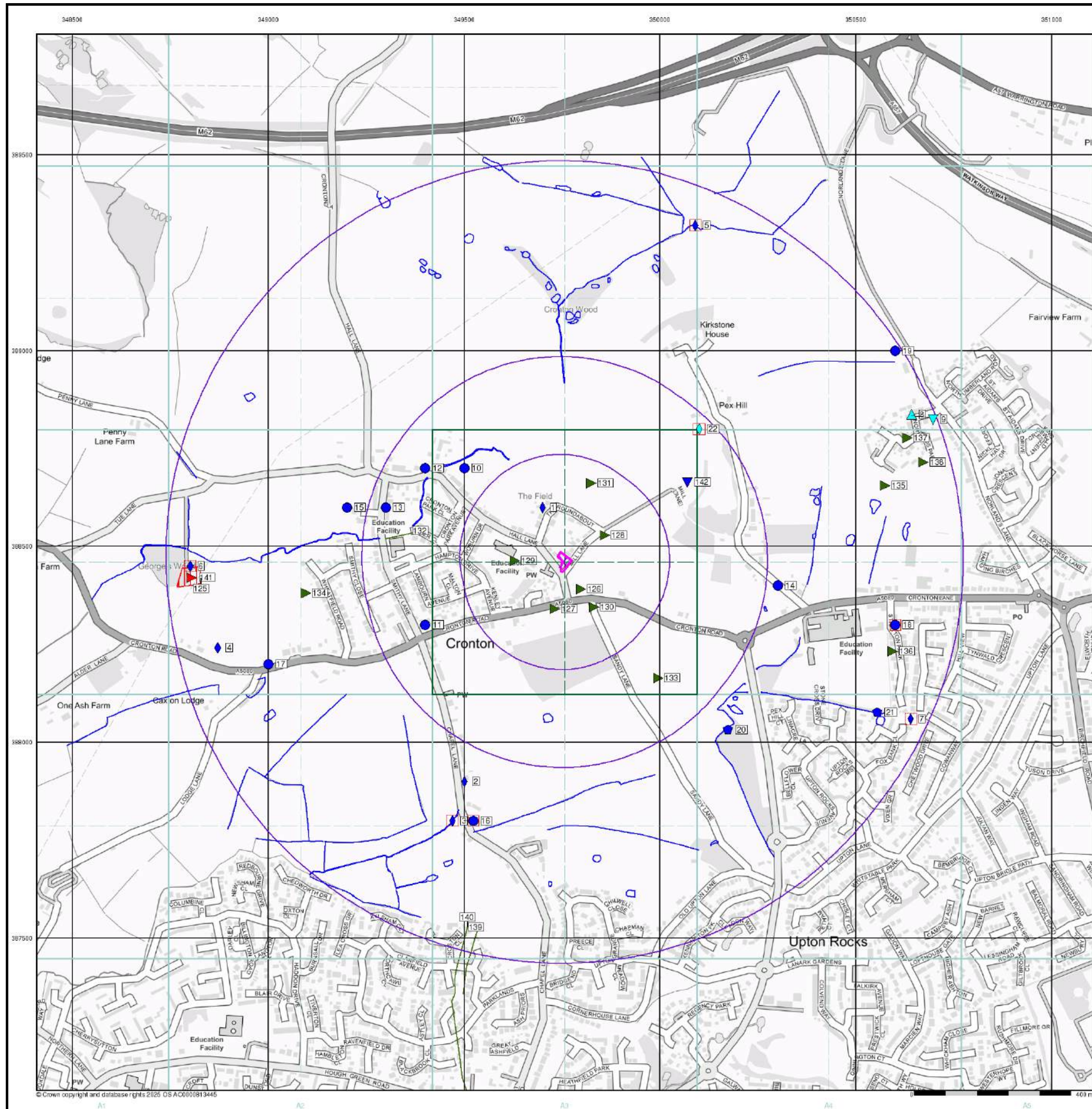


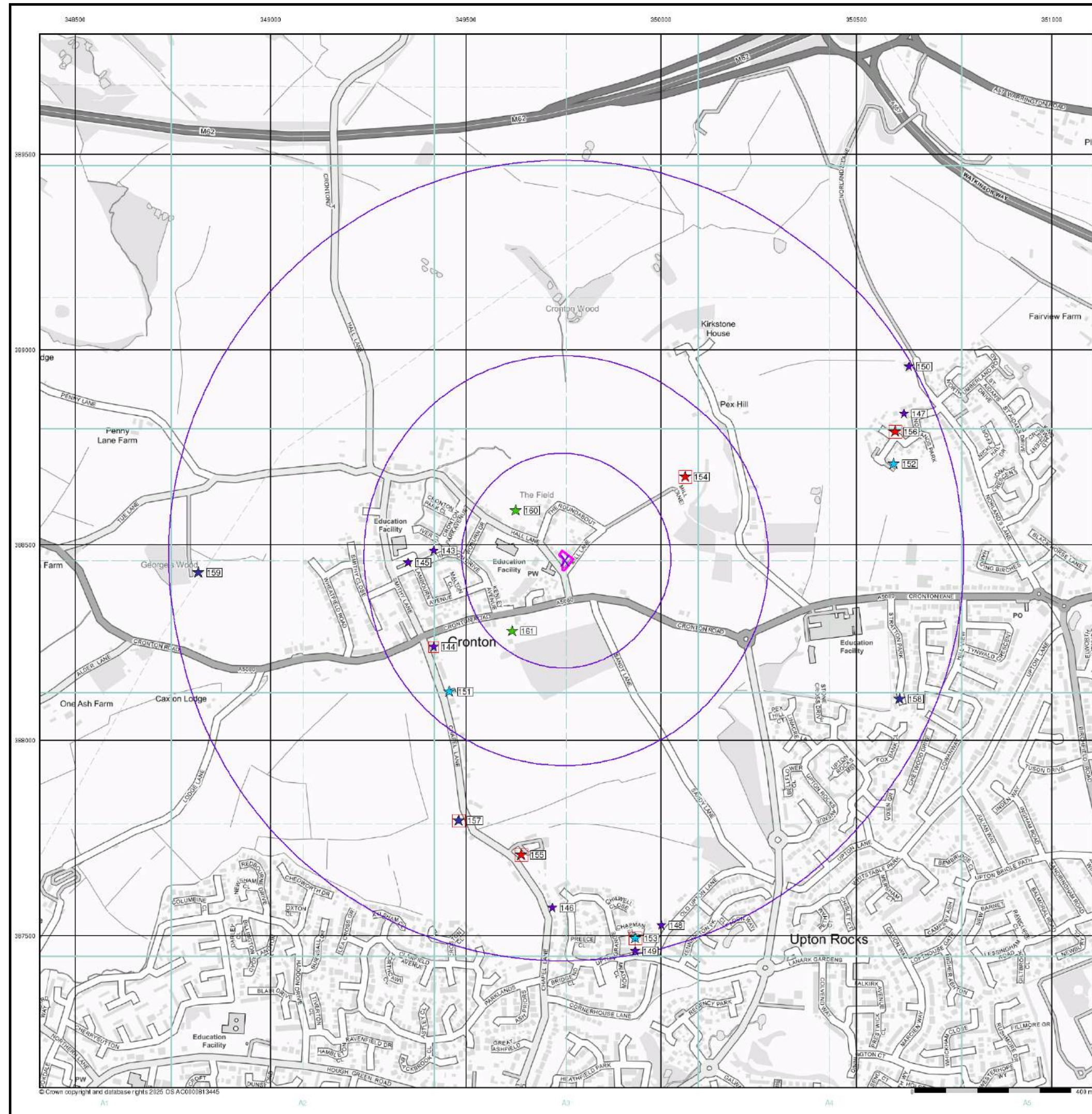
Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

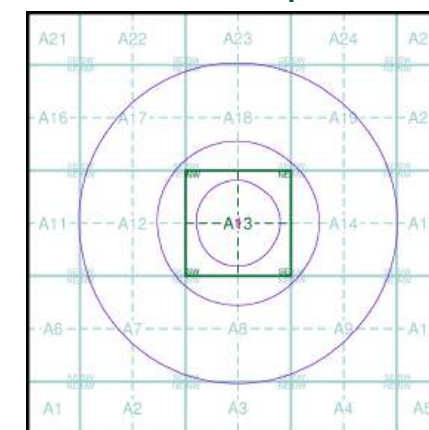
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- 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

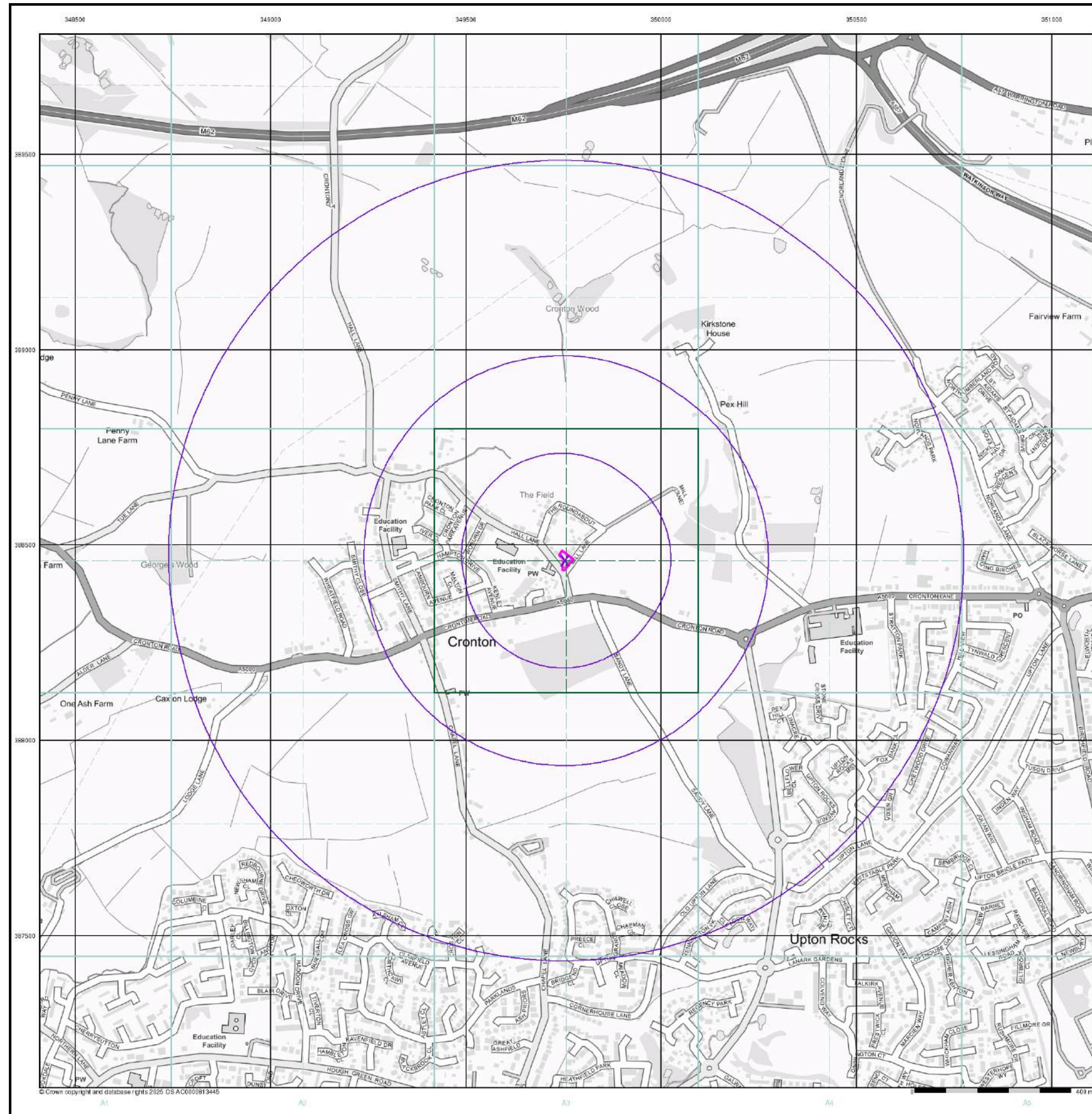
Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



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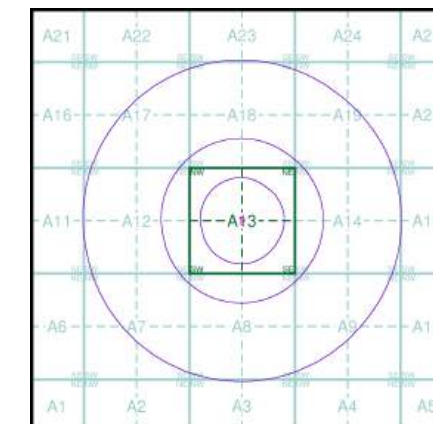
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

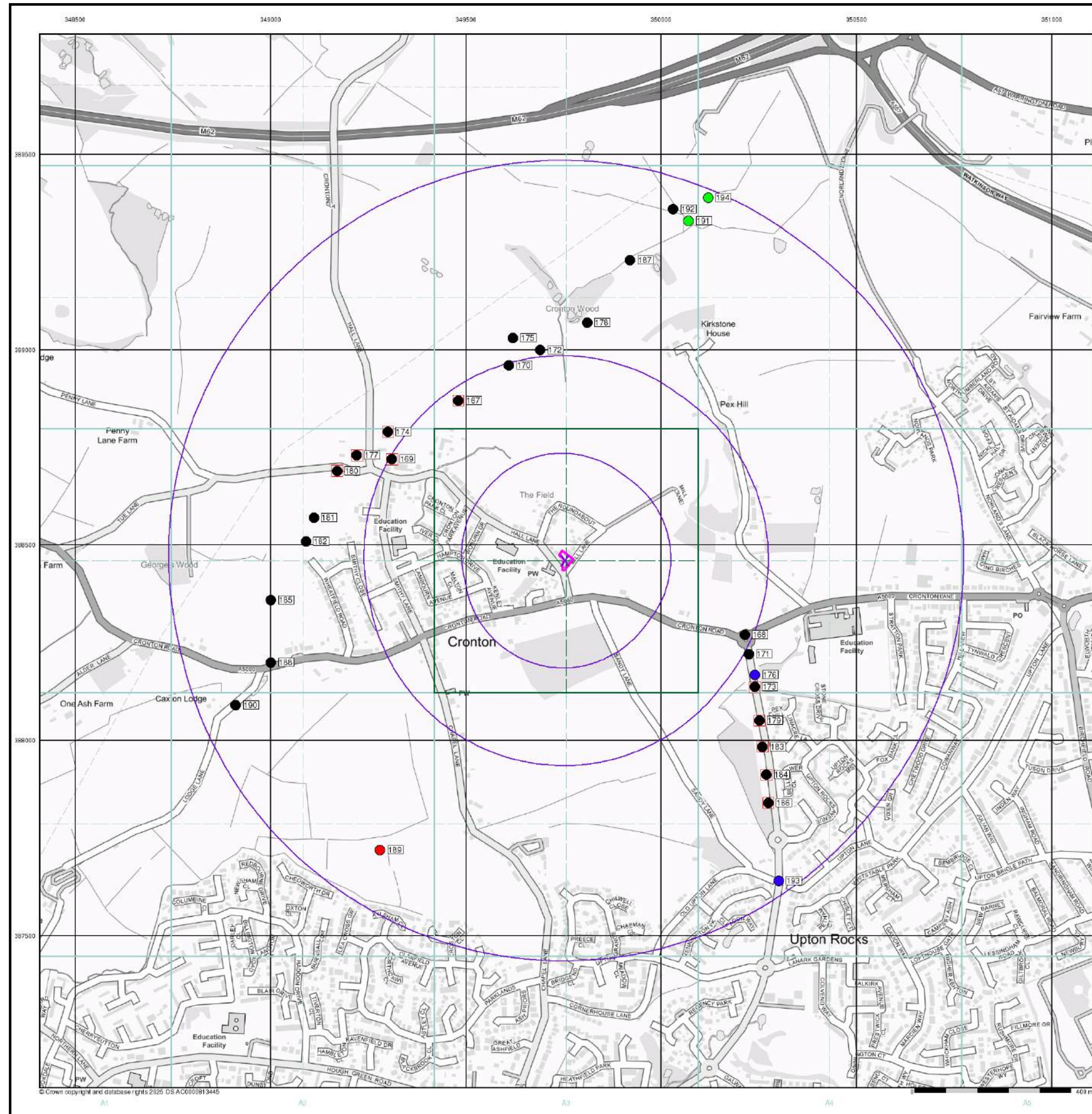


Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



General

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

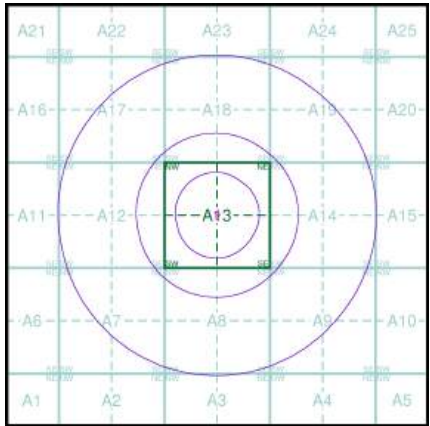
Agency and Hydrological (Boreholes)

- 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: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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General

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

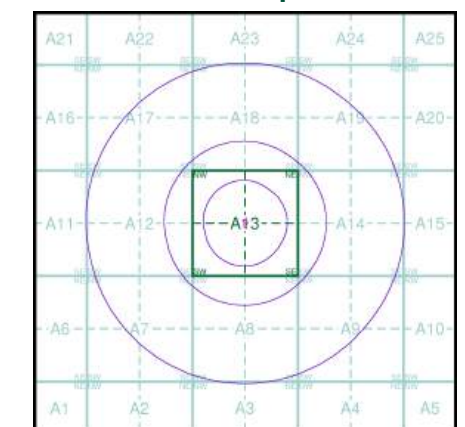
OS Water Network Data

- | | |
|--|---|
|  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  MLW  MHW
- Spot Height  167.3

OS Water Network Map - Slice A

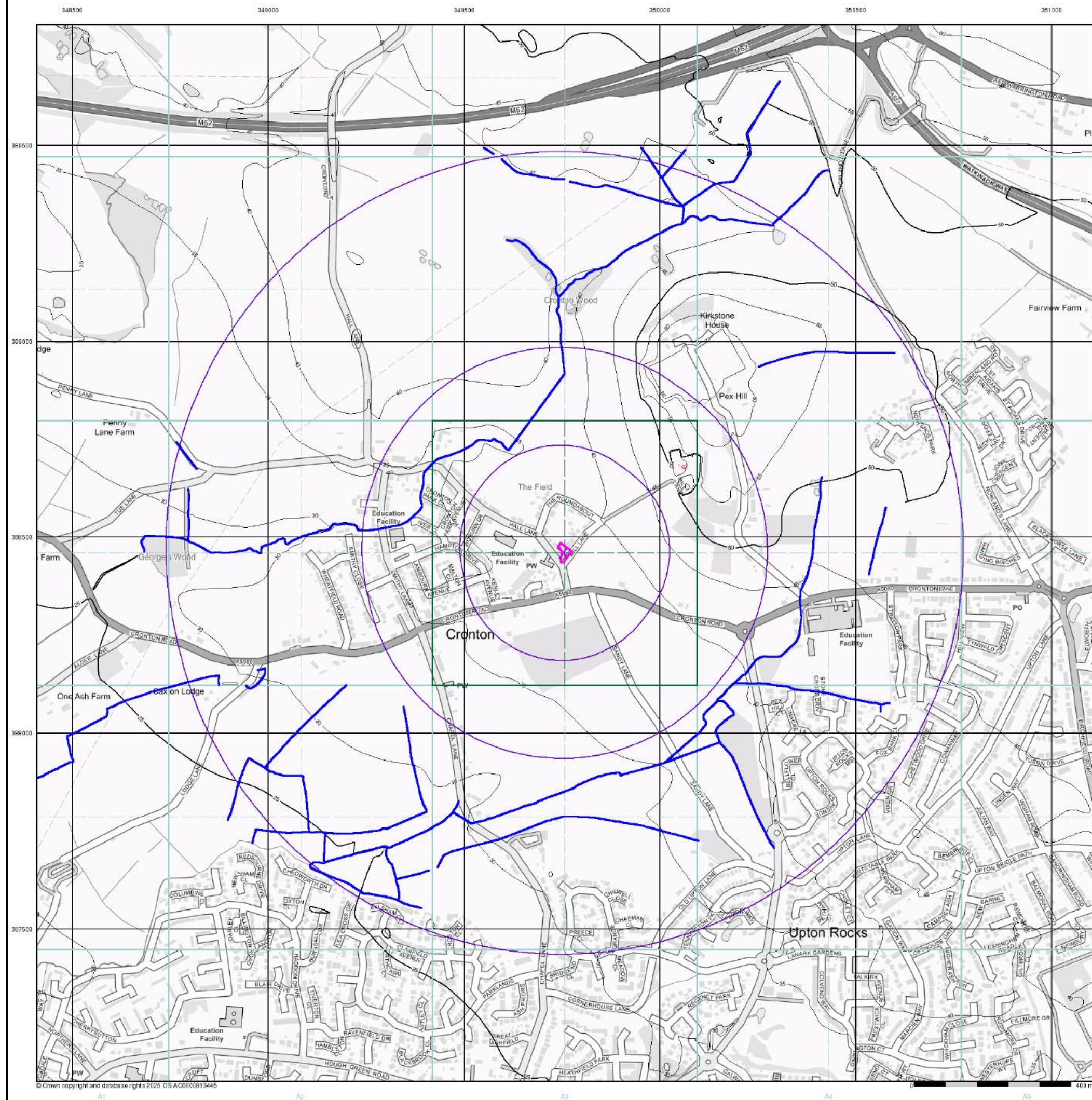


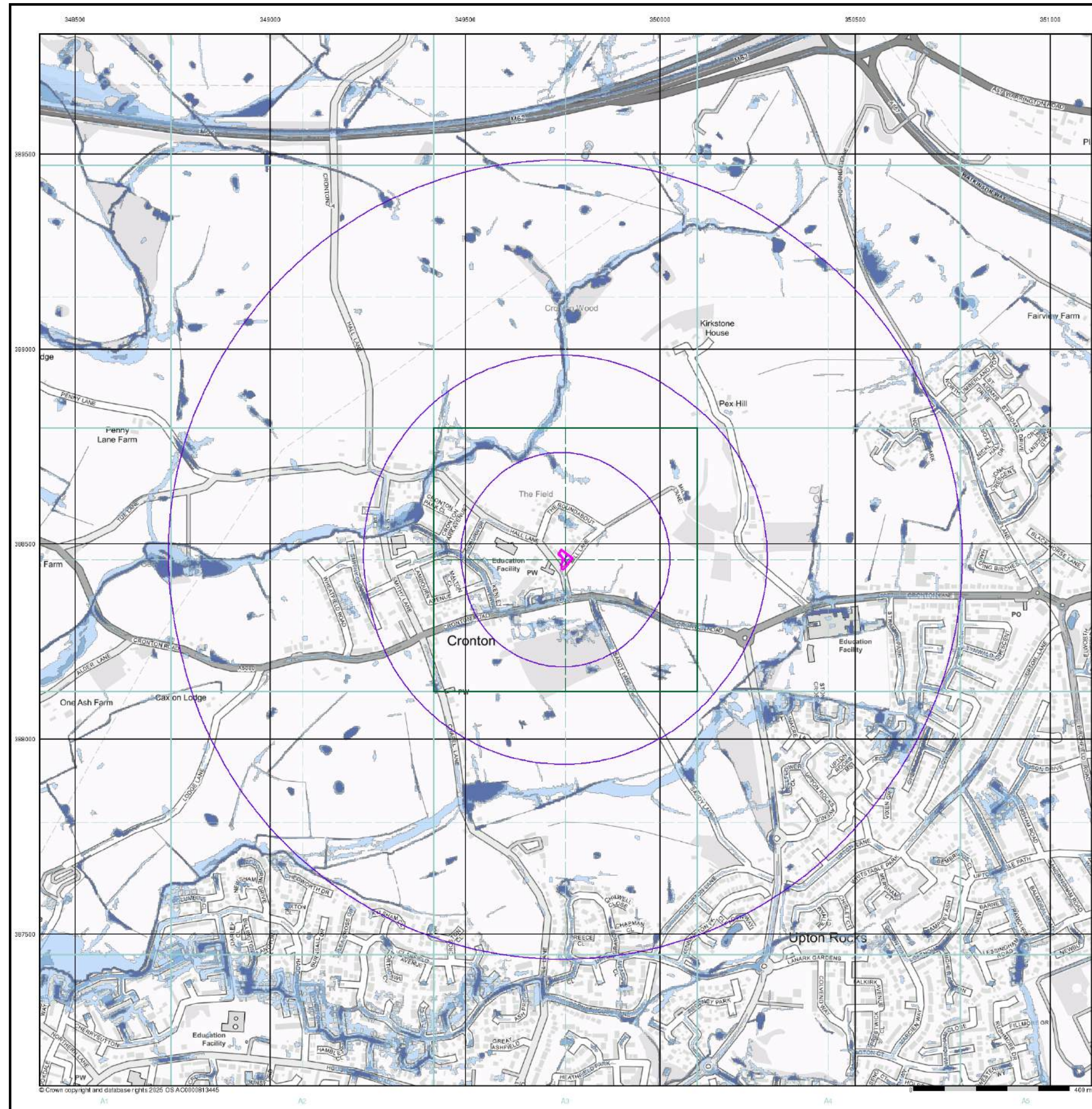
Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT





General

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

Risk of Flooding from Surface Water

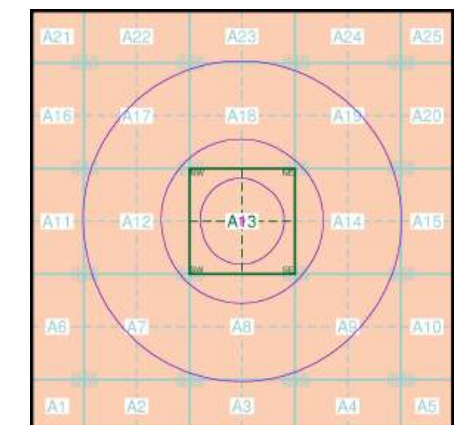
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EANRW Suitability Map - Slice A



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

WFD Surface Waters Map

General

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

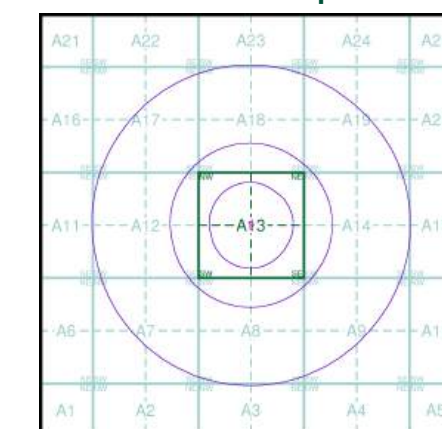
Water Framework Directive - Surface Water Quality

-  High
-  Good
-  Moderate
-  Poor
-  Bad

Contours (height in meters)

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

WFD Surface Waters Map - Slice A

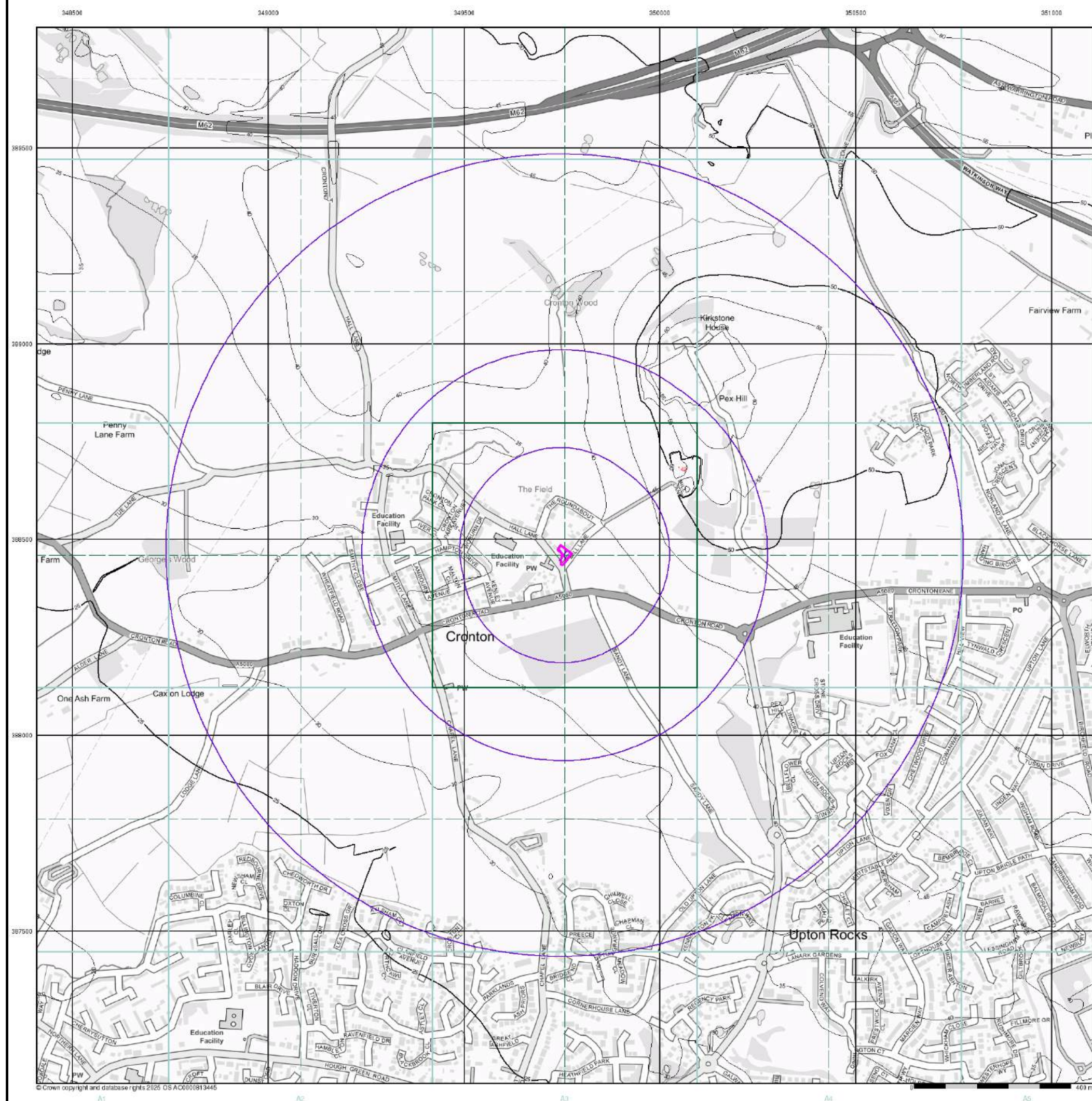


Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

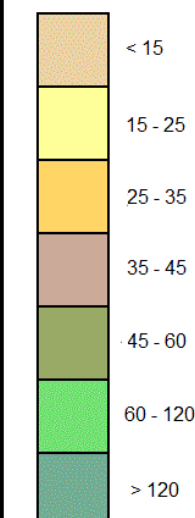


General

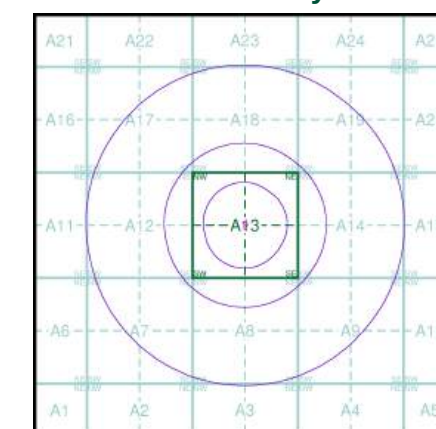
○ Specified Site
 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

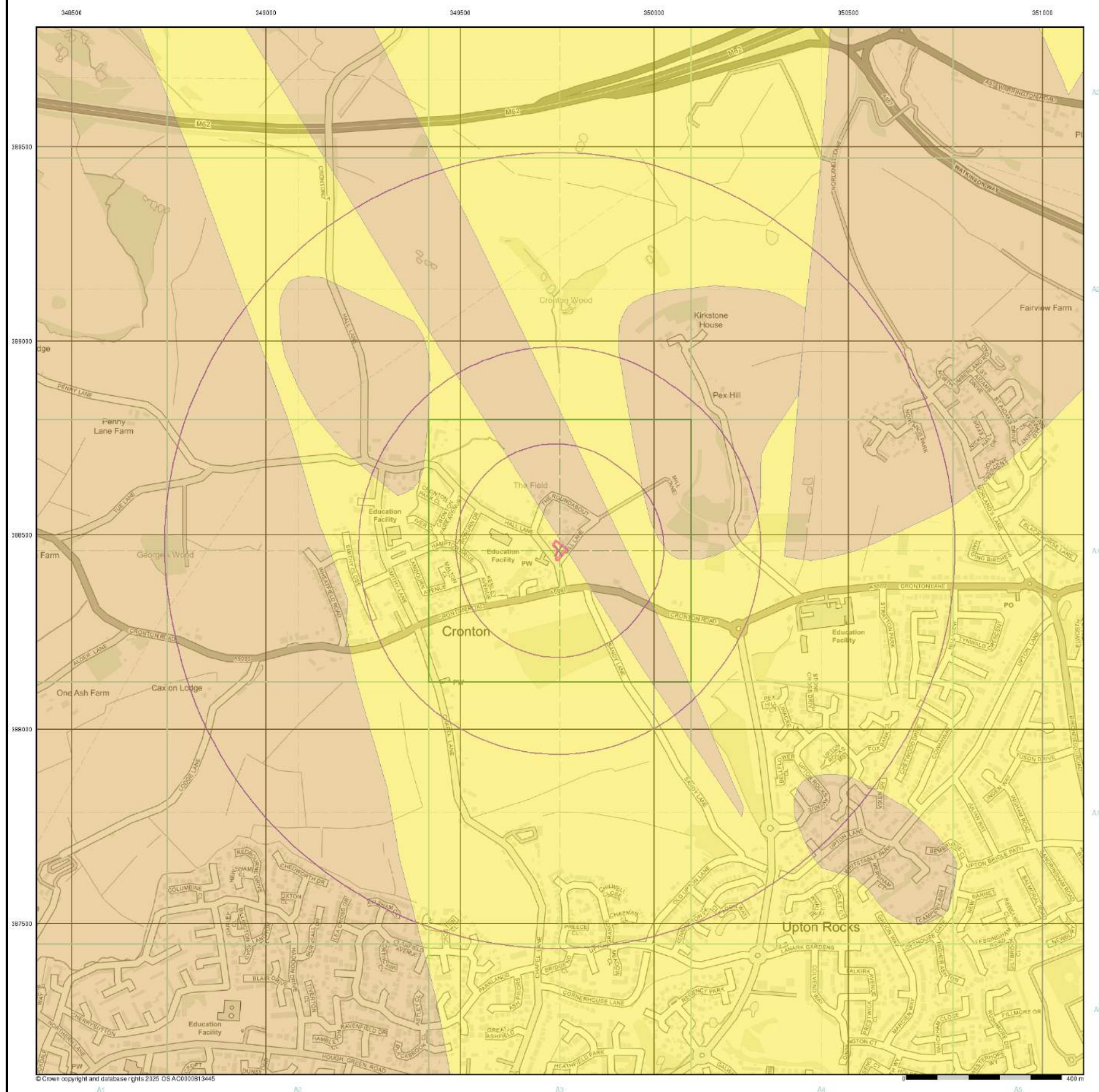


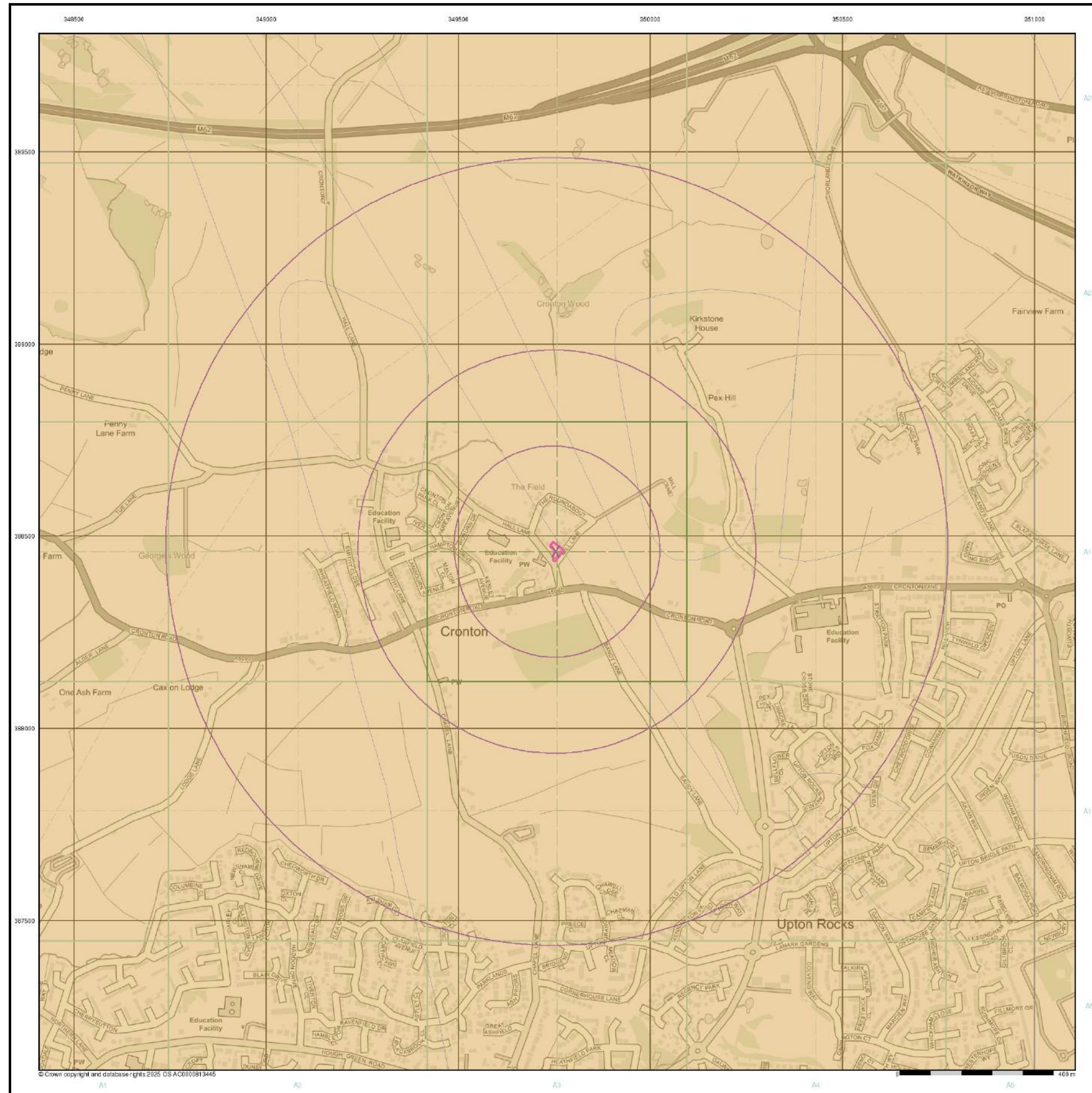
Order Details

Order Details: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



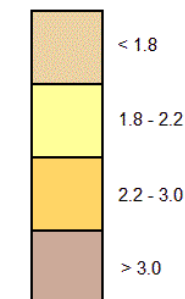


General

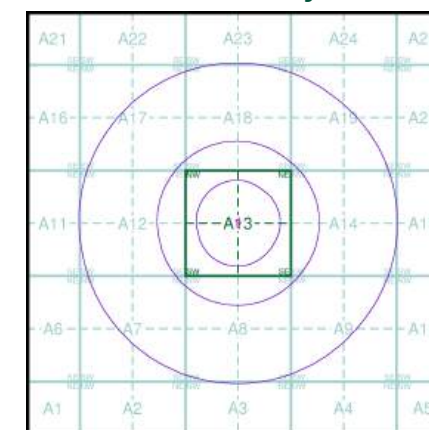
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

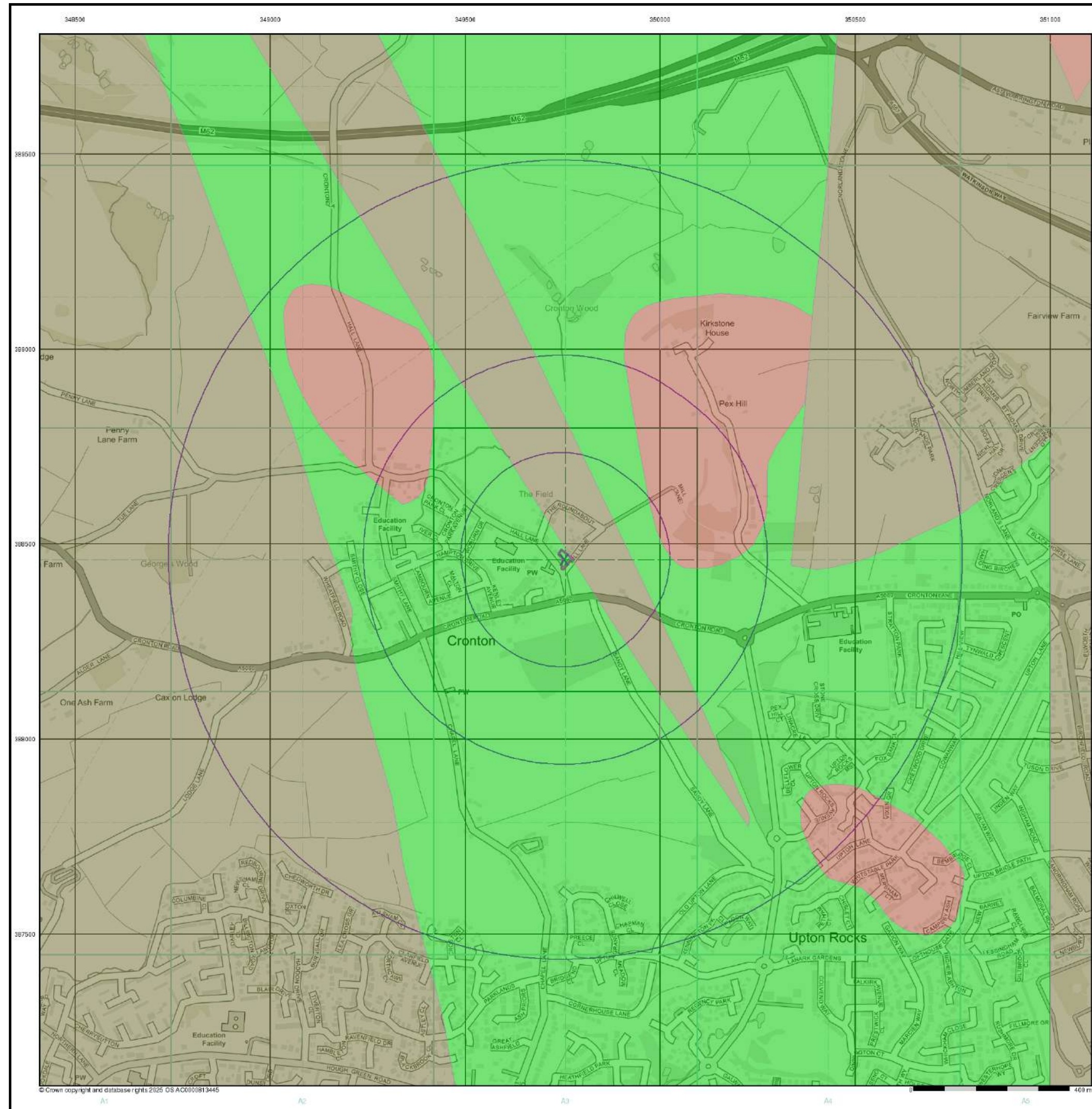
Order Details: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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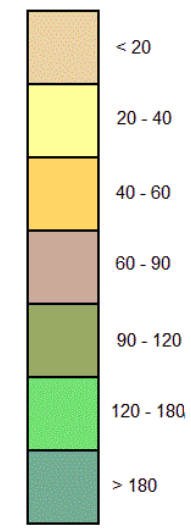


General

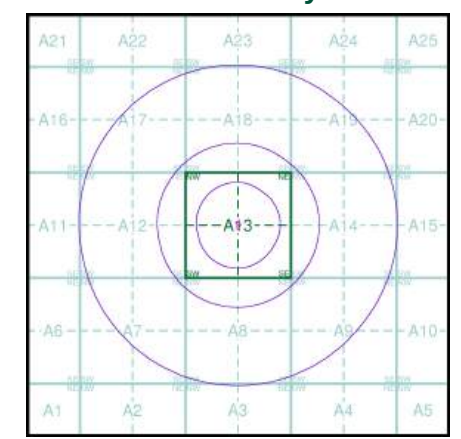
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



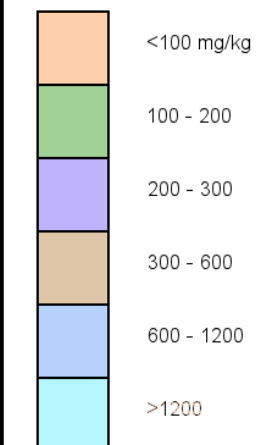
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

General

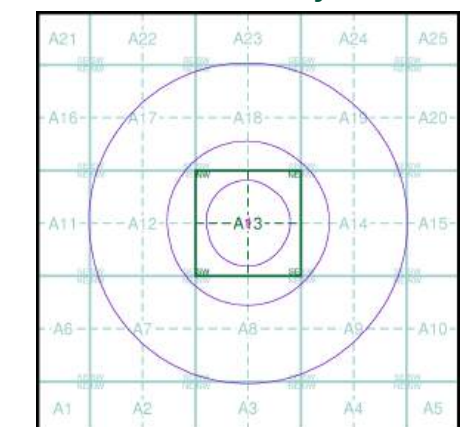
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

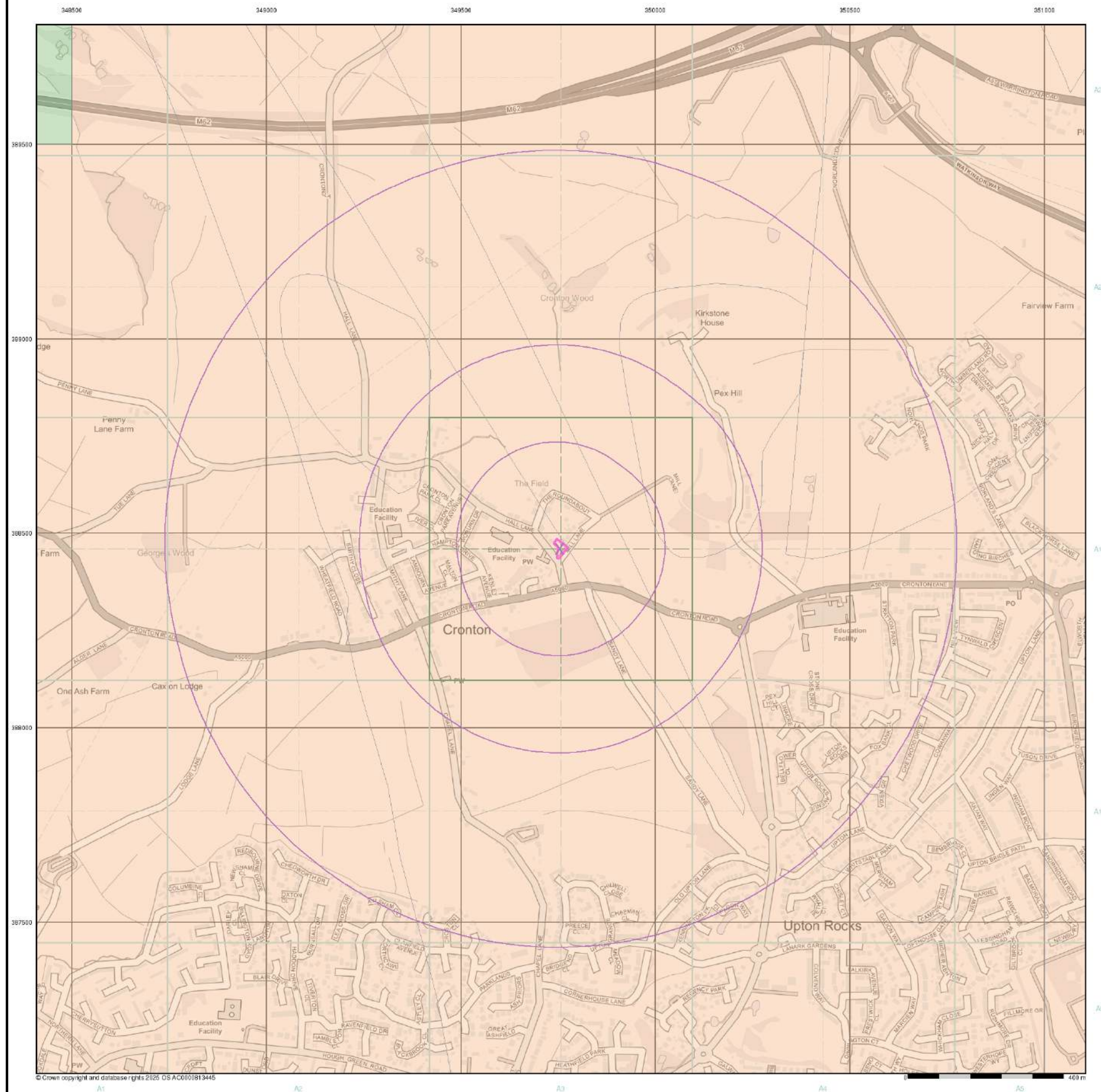


Order Details

Order Details: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

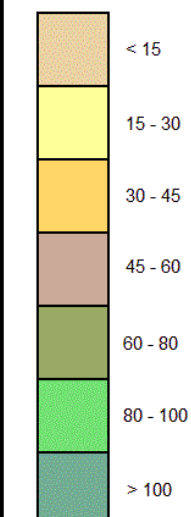


General

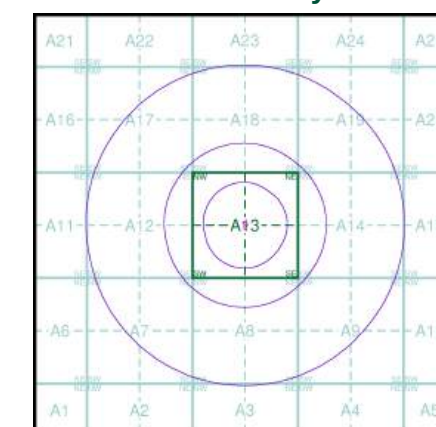
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

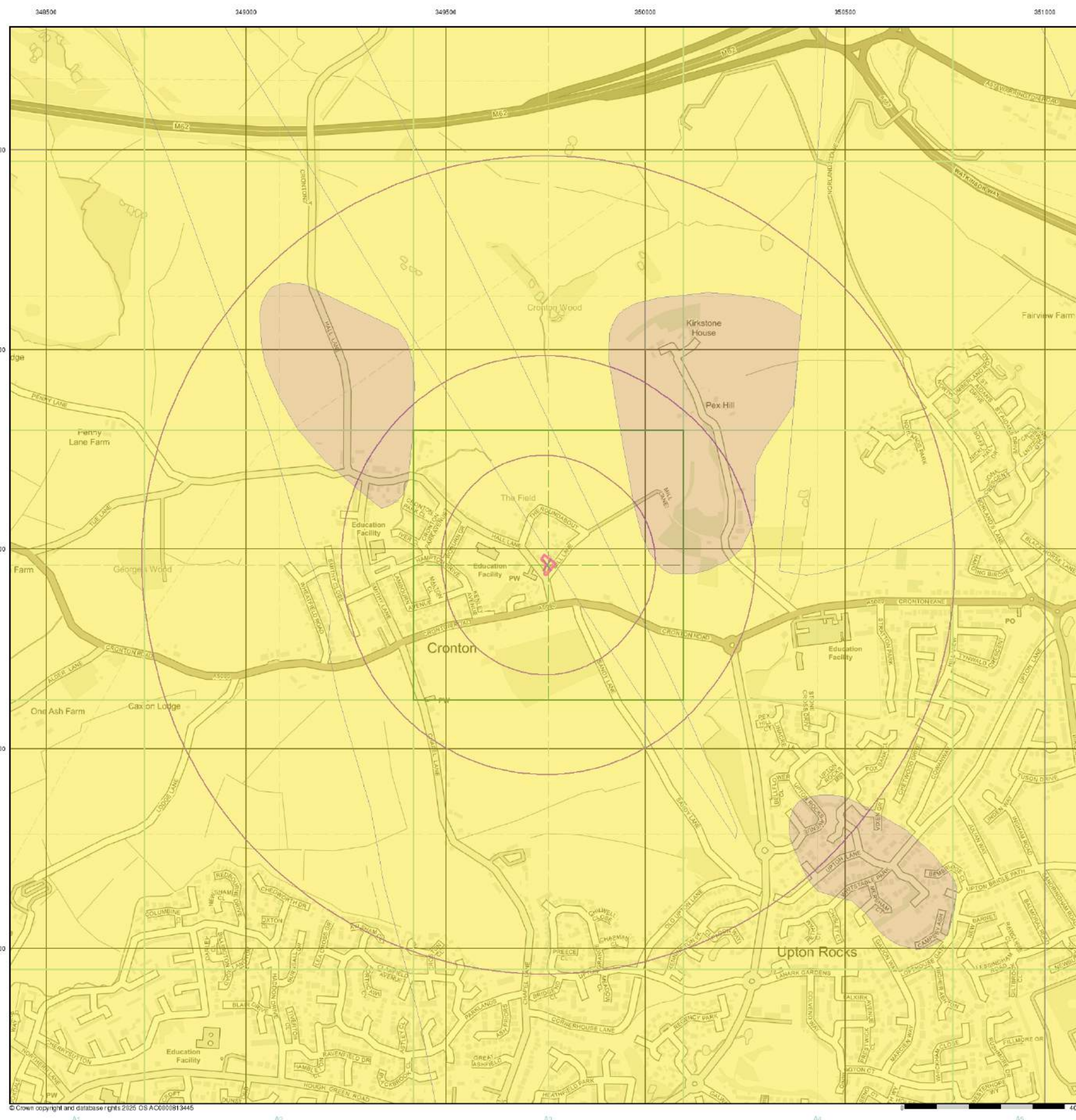


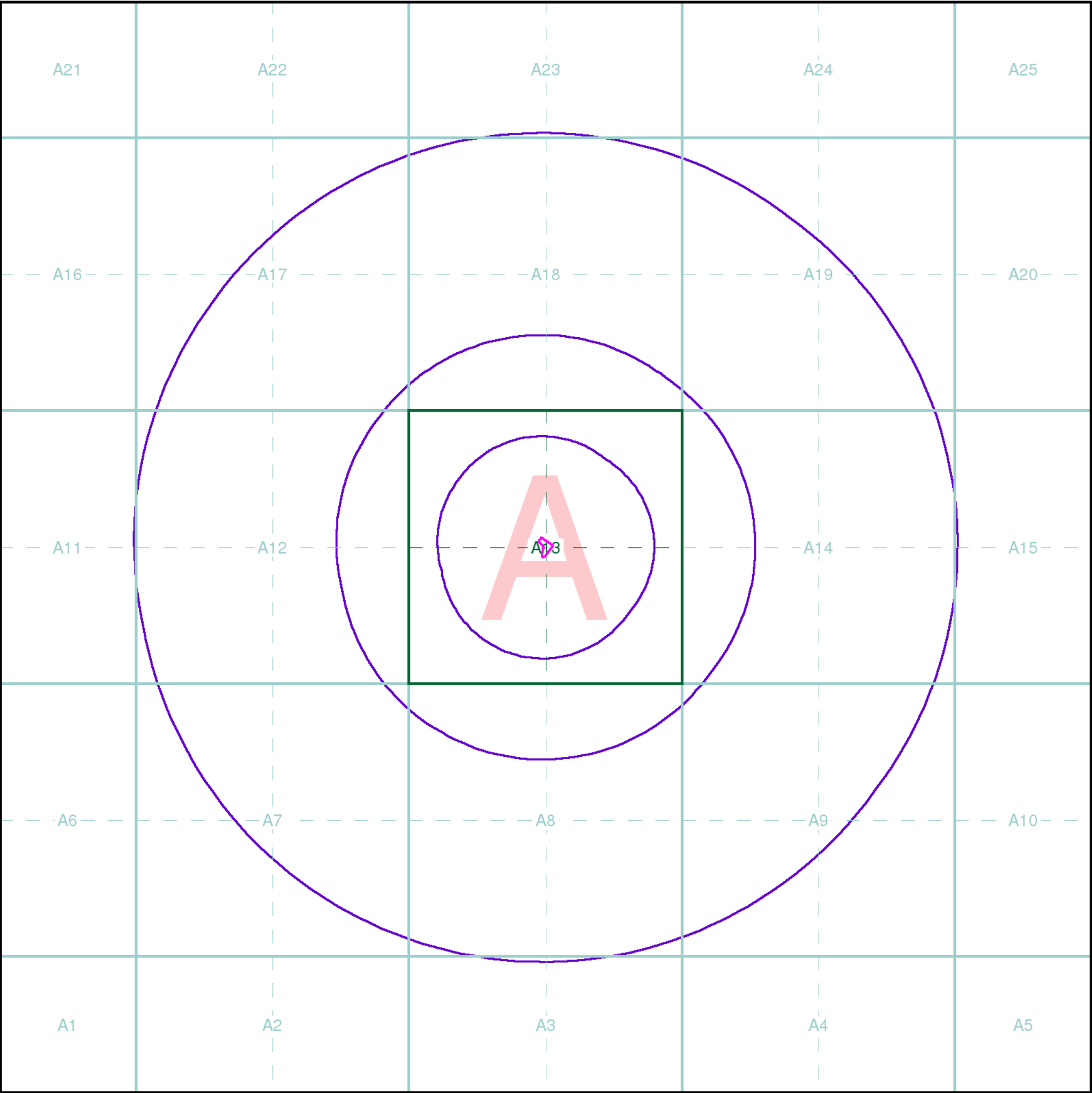
Order Details

Order Details: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT





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: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349760, 388460
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

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



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit

Sand Pit

Other Pits

Quarry

Shingle

Orchard

Osiers

Reeds

Marsh

Mixed Wood

Deciduous

Brushwood

Fir

Furze

Rough Pasture

Arrow denotes flow of water

Trigonometrical Station

Site of Antiquities

Bench Mark

Pump, Guide Post, Signal Post

Well, Spring, Boundary Post

-285 Surface Level

Sketched Contour

Instrumental Contour

Main Roads

Fenced

Un-Fenced

Minor Roads

Fenced

Un-Fenced

Sunken Road

Raised Road

Road over Railway

Railway over River

Railway over Road

Level Crossing

Road over River or Canal

Road over Stream

Road over Stream

County Boundary (Geographical)

County & Civil Parish Boundary

Administrative County & Civil Parish Boundary

County Borough Boundary (England)

County Borough 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

Coppice

Bracken

Heath

Rough Grassland

Marsh

Reeds

Saltings

Building

Glasshouse

Sloping Masonry

Pylon

Electricity Transmission Line

Pole

Cutting

Embankment

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
Shown only when not coincident with other boundaries

Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS Boundary Post or Stone

Ch Church

CH Club House

F E Sta Fire Engine Station

FB Foot Bridge

Fn Fountain

GP Guide Post

MP Mile Post

MS Mile Stone

Pol Sta Police Station

PO Post Office

PC Public Convenience

PH Public House

SB Signal Box

Spr Spring

TCB Telephone Call Box

TCP Telephone Call Post

W Well

1:10,000 Raster Mapping

Gravel Pit

Refuse tip or slag heap

Rock

Rock (scattered)

Boulders

Boulders (scattered)

Shingle

Mud

Sand

Sand Pit

Slopes

Top of cliff

General detail

Underground detail

Overhead detail

Narrow gauge railway

Multi-track railway

Single track railway

County boundary (England only)

Civil, parish or community boundary

District, Unitary, Metropolitan, London Borough boundary

Constituency boundary

Area of wooded vegetation

Non-coniferous trees

Non-coniferous trees (scattered)

Coniferous trees

Coniferous trees (scattered)

Positioned tree

Orchard

Coppice or Osiers

Rough Grassland

Heath

Scrub

Marsh, Salt Marsh or Reeds

Water feature

Flow arrows

MHW(S) Mean high water (springs)

MLW(S) Mean low water (springs)

Telephone line (where shown)

Electricity transmission line (with poles)

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

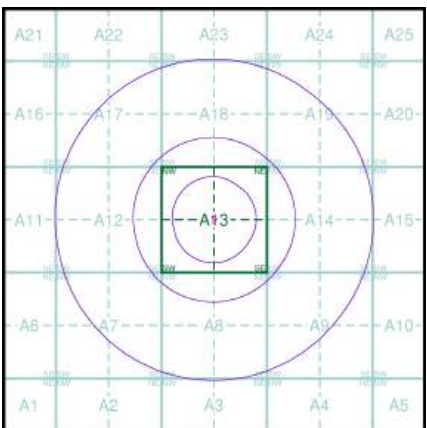
Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1908	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938 - 1939	8
Lancashire And Furness	1:10,560	1951	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1967 - 1969	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1977	13
St Helens	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Historical Map - Slice A



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



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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 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

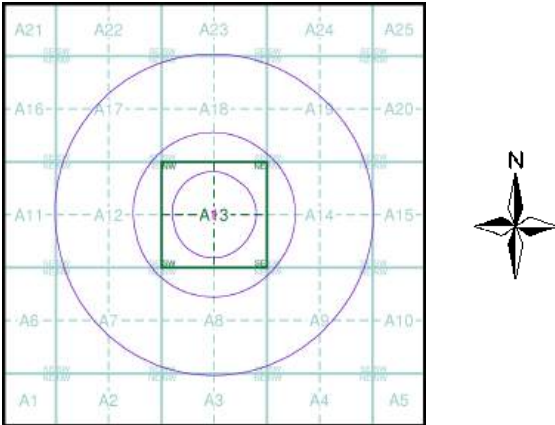
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
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Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938 - 1939	8
Lancashire And Furness	1:10,560	1951	9
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Ordnance Survey Plan	1:10,000	1967 - 1969	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1977	13
St Helens	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2024	19

Russian Map - Slice A



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1849 - 1850

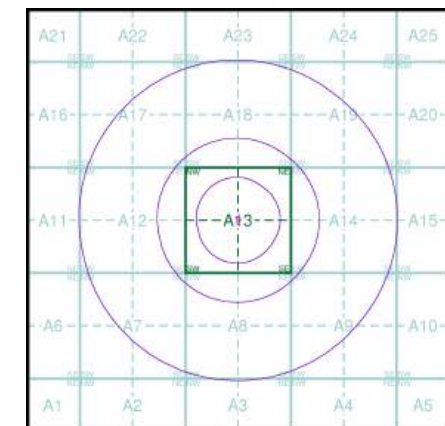
Source map scale - 1:10,560

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)

10700 1850 1:10,560	10800 1849 1:10,560
11400 1849 1:10,560	11500 1849 1:10,560

Historical Map - Slice A



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

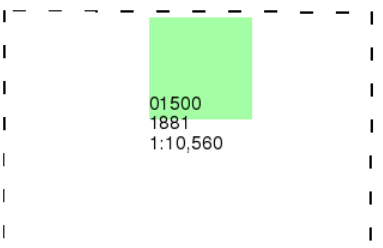
Site Details

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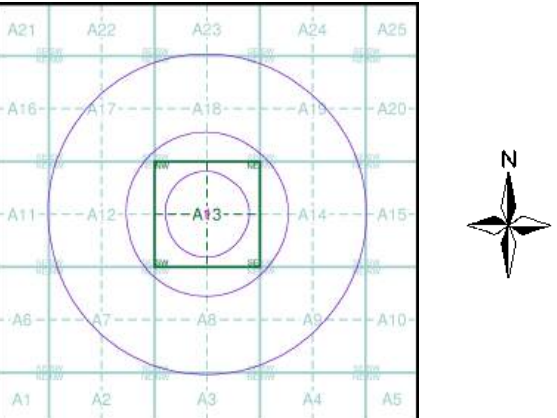
Cheshire
Published 1881
Source map scale - 1:10,560

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)



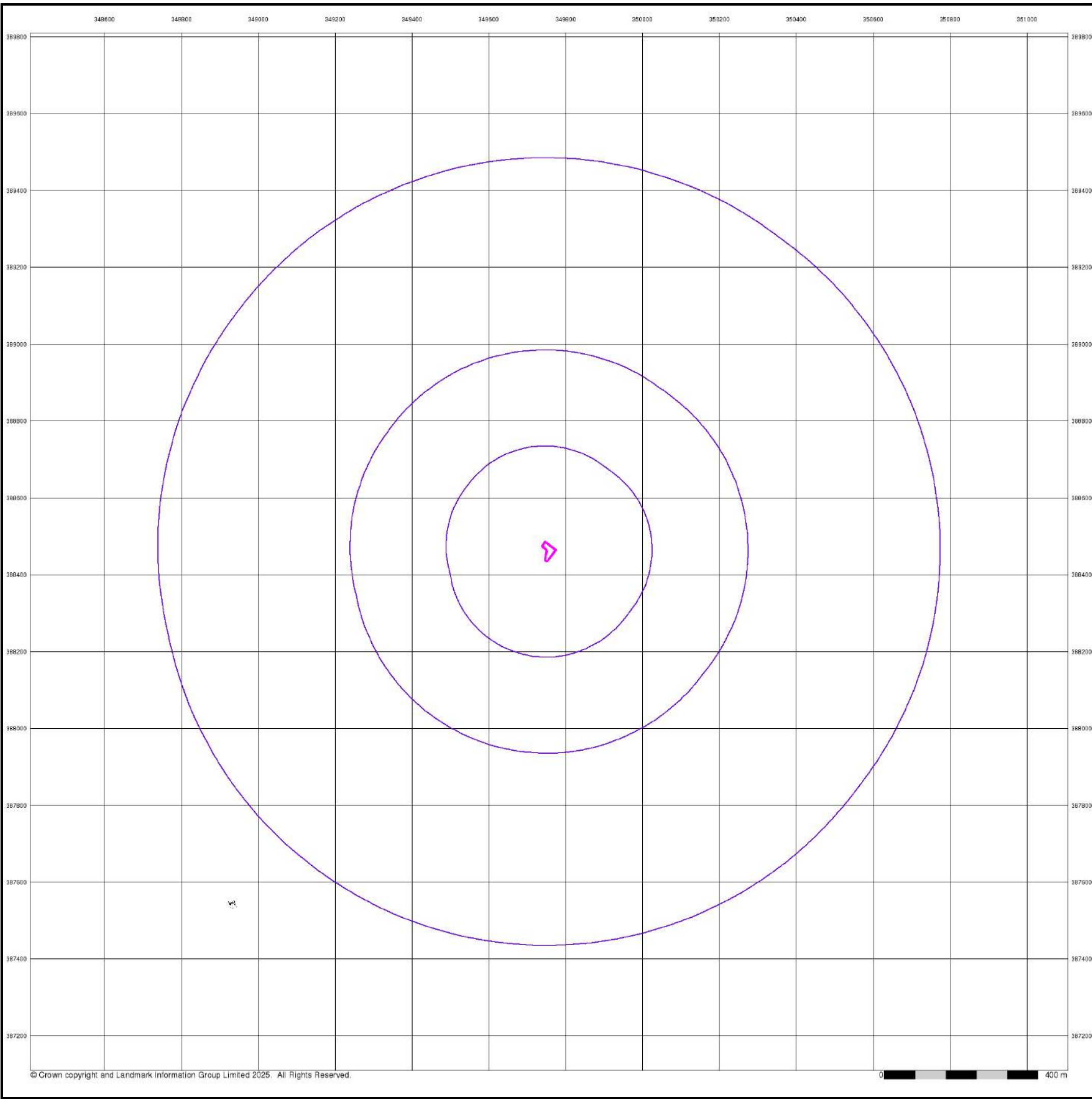
Historical Map - Slice A

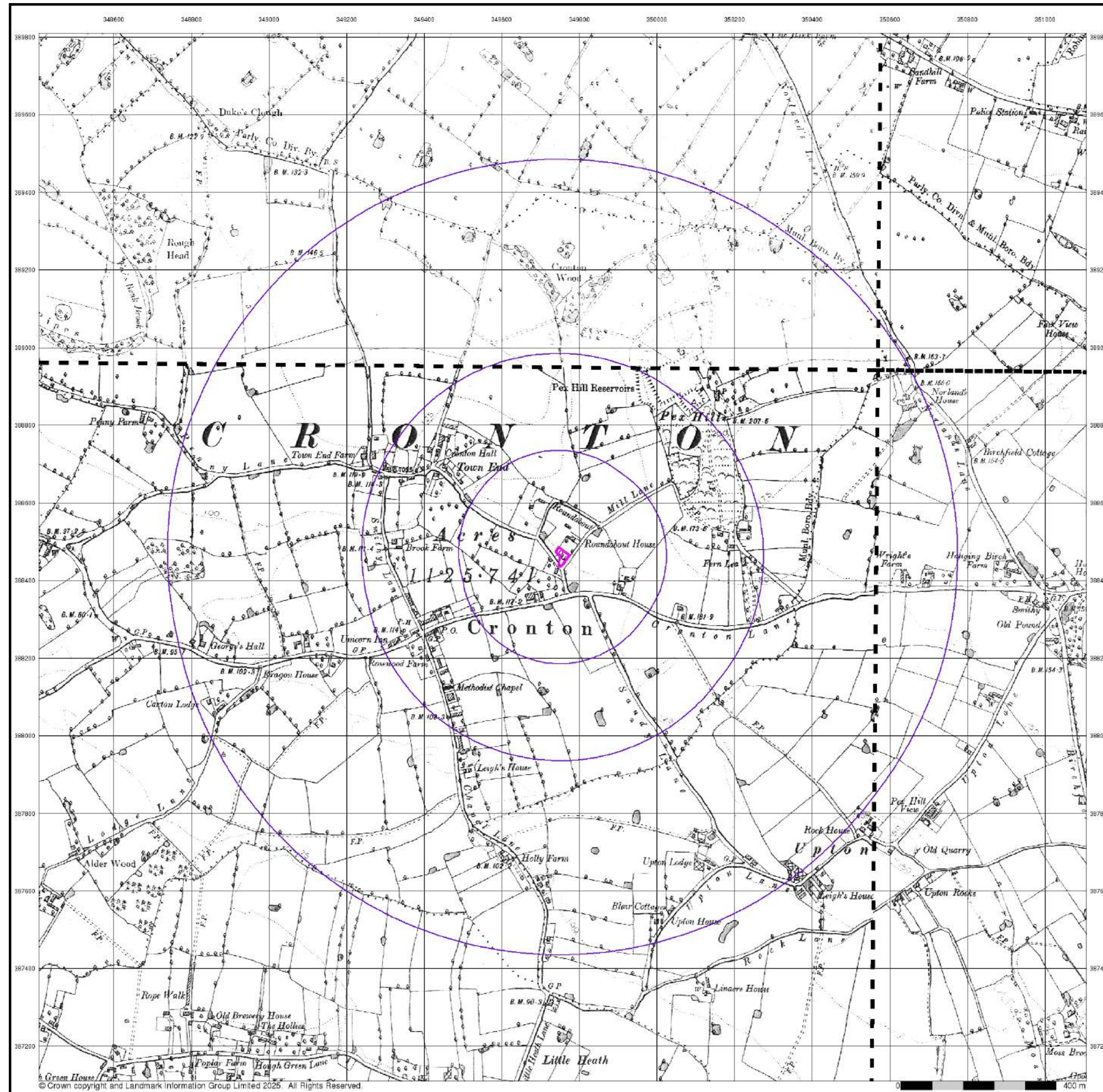


Order Details

Order Number:	366551079_1_1
Customer Ref:	34614LG
National Grid Reference:	349750, 388460
Slice:	A
Site Area (Ha):	0.08
Search Buffer (m):	1000

Site Details
1, Mill Lane, Cronton, Widnes, WA8 5DT





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Lancashire And Furness

Published 1894

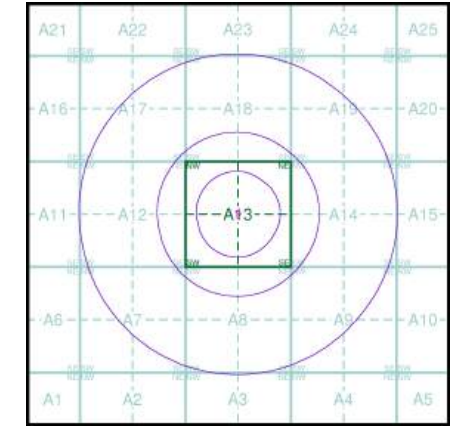
Source map scale - 1:10,560

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)

107SE 1894 1:10,560	108SW 1894 1:10,560
114NE 1894 1:10,560	115NW 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
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Lancashire And Furness

Published 1908

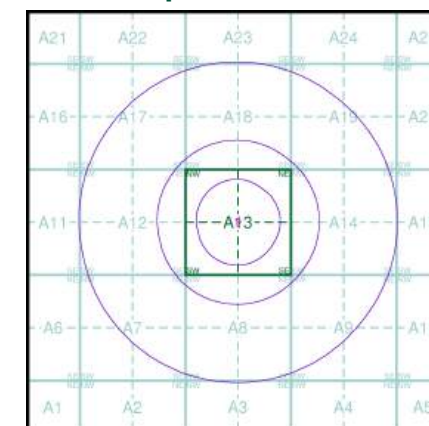
Source map scale - 1:10,560

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)

107SE 1908 1:10,560	108SW 1908 1:10,560
114NE 1908 1:10,560	115NW 1908 1:10,560

Historical Map - Slice A

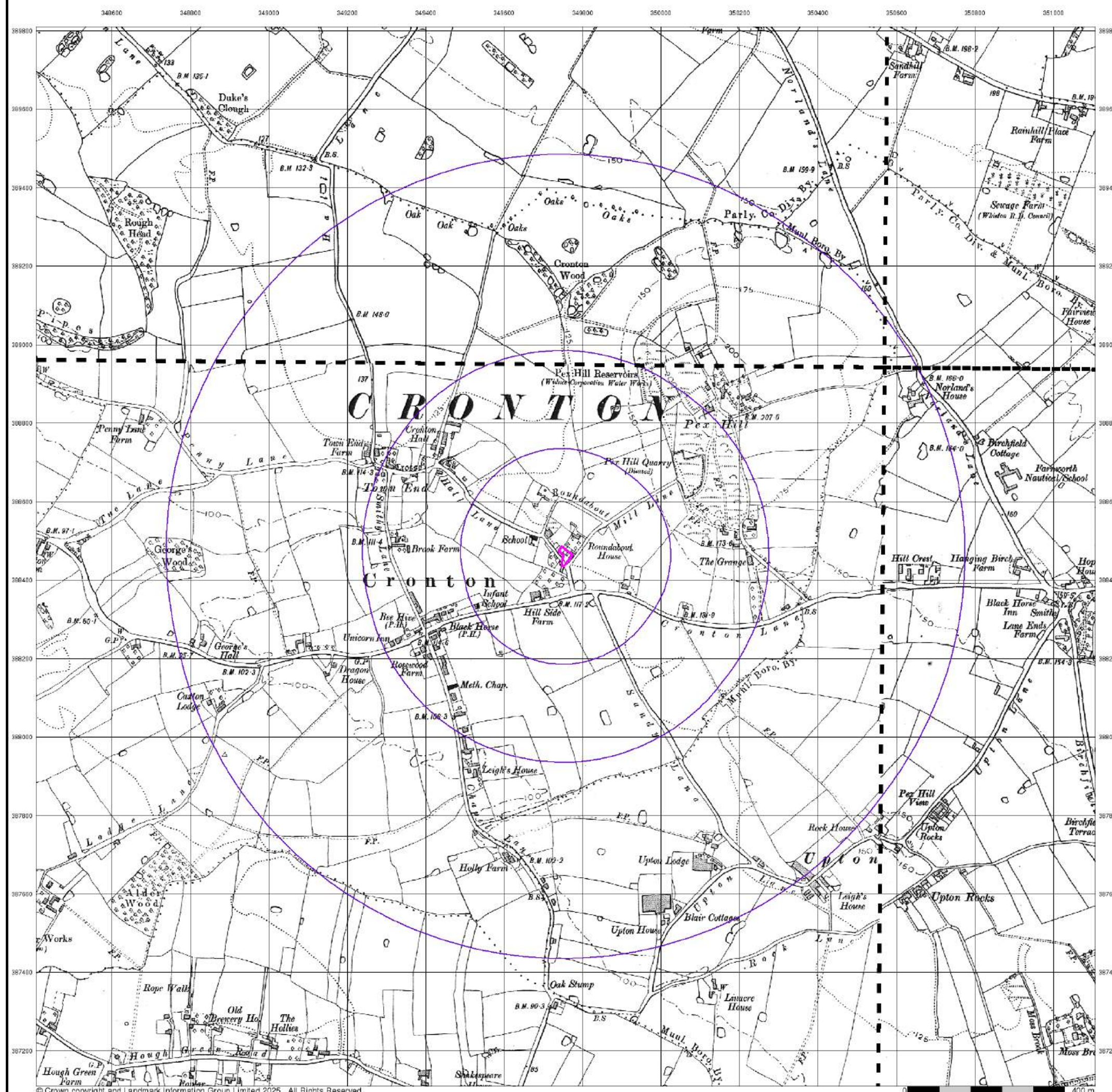


Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1928

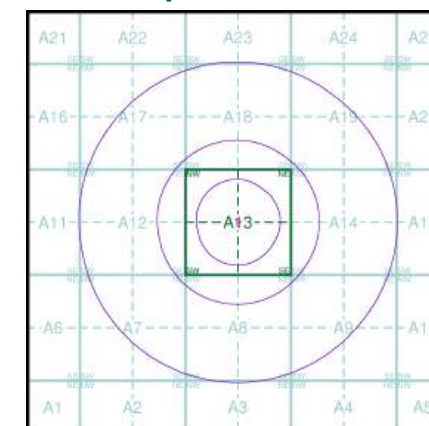
Source map scale - 1:10,560

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)

107SE 1928 1:10,560	108SW 1928 1:10,560
114NE 1928 1:10,560	115NW 1928 1:10,560

Historical Map - Slice A

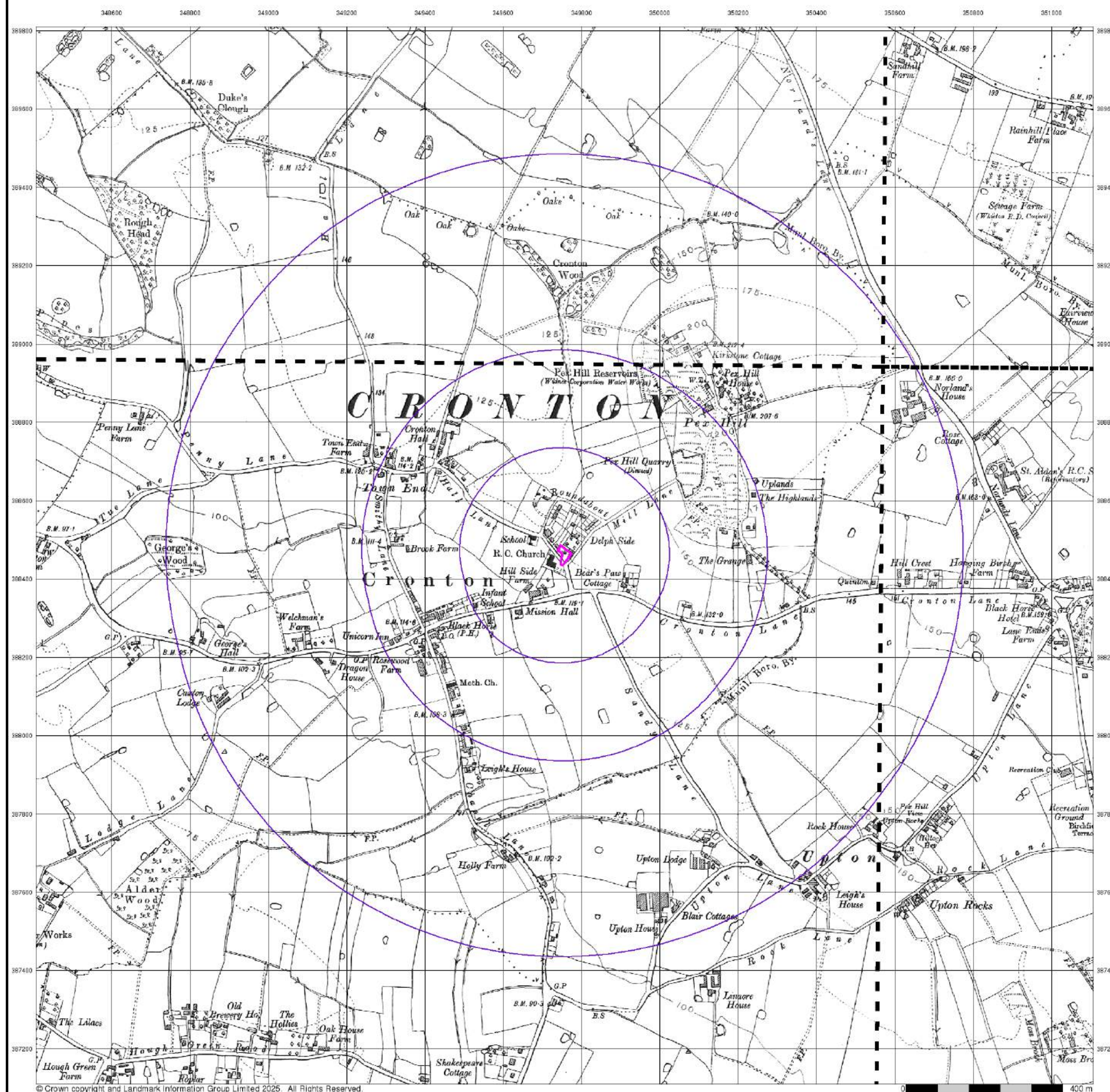


Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



Lancashire And Furness

Published 1938 - 1939

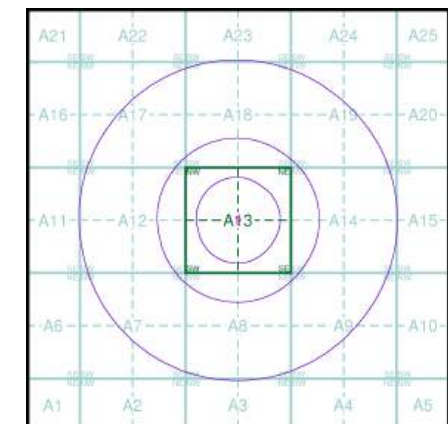
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

107SE 1938 1:10,560	108SW 1938 1:10,560
114NE 1938 1:10,560	115NW 1939 1:10,560

Historical Map - Slice A

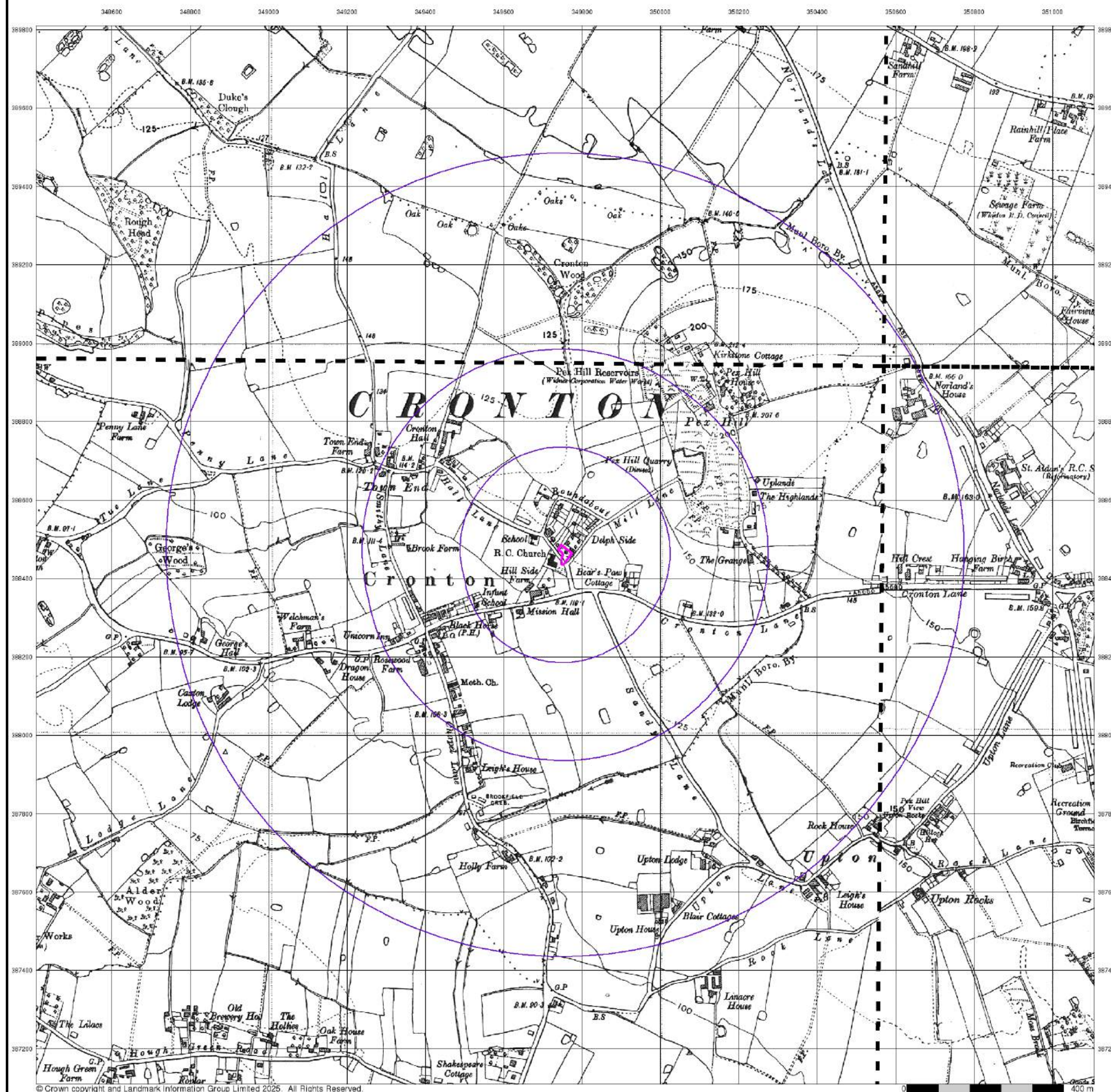


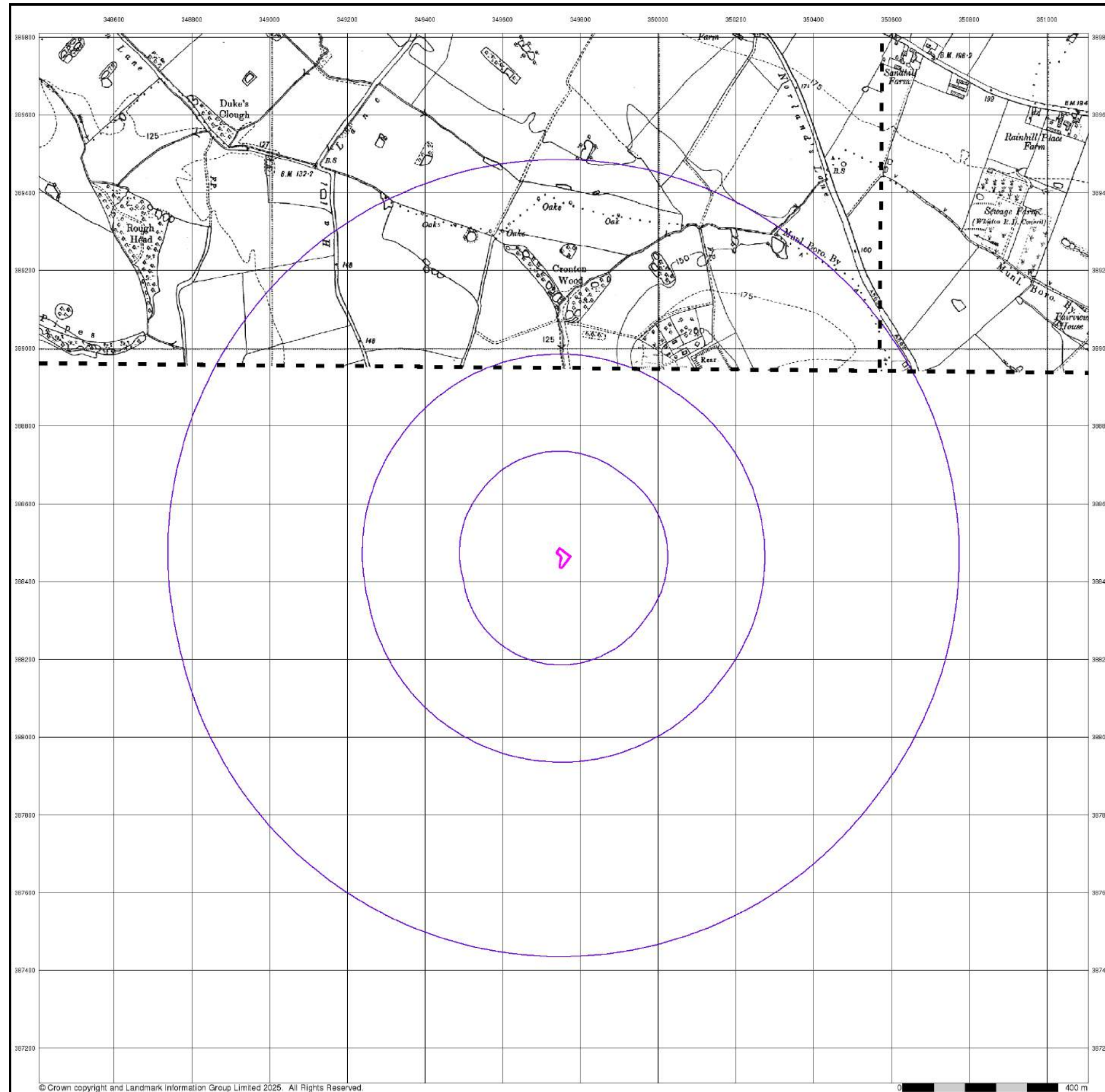
Order Details

Order Number: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details

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Lancashire And Furness

Published 1951

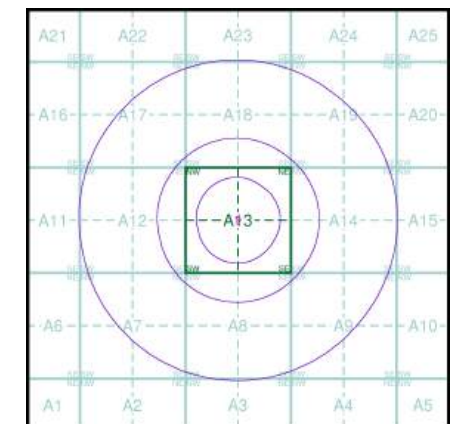
Source map scale - 1:10,560

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)

107SE 1951 1:10,560	108SW 1951 1:10,560
---------------------------	---------------------------

Historical Map - Slice A



Order Details

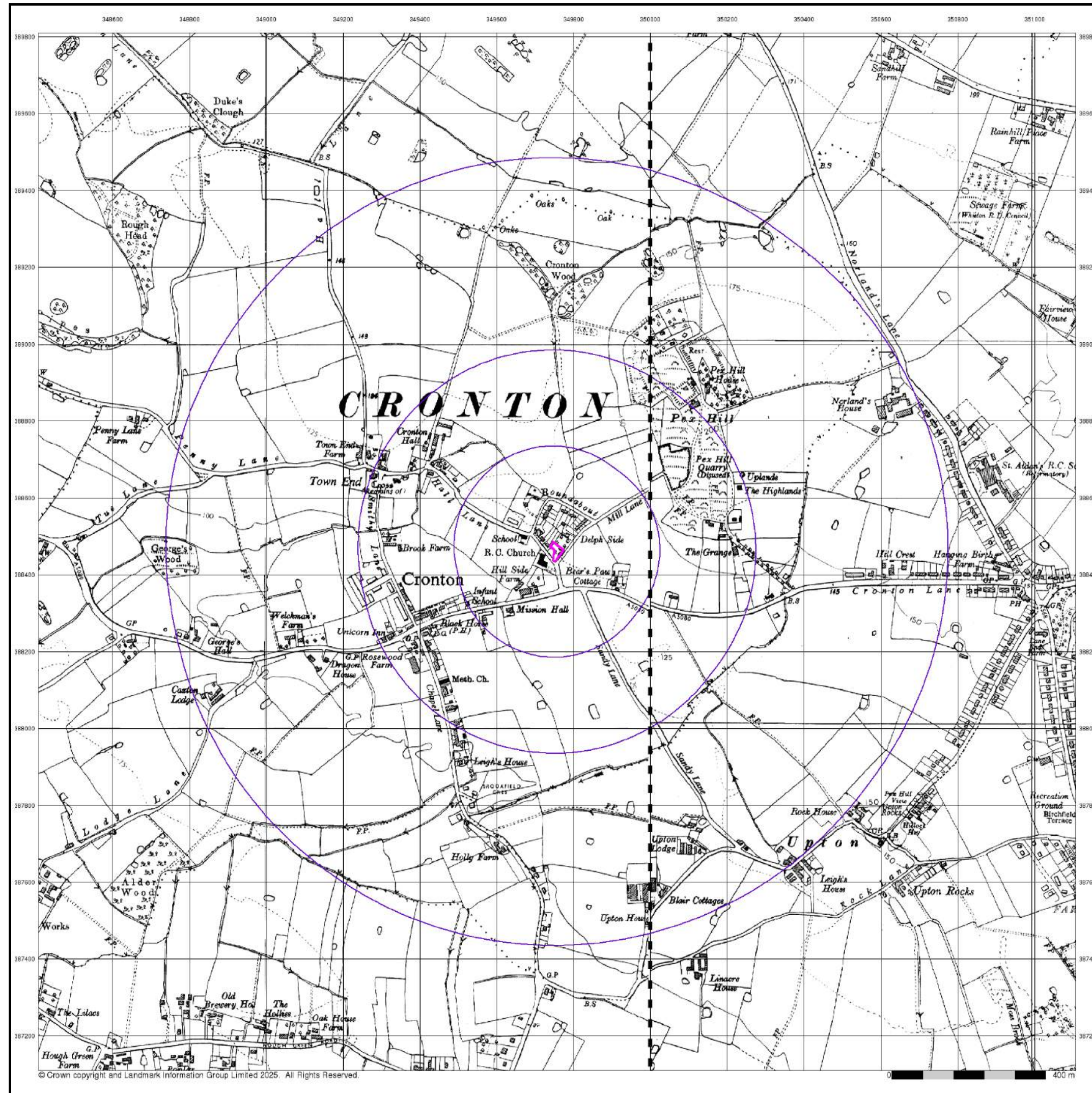
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Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

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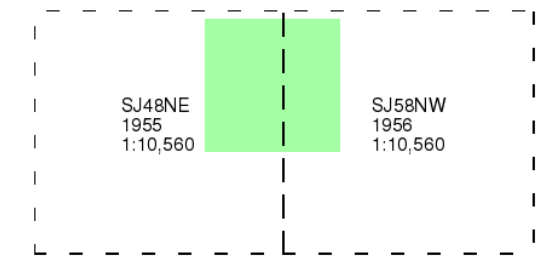
Ordnance Survey Plan

Published 1955 - 1956

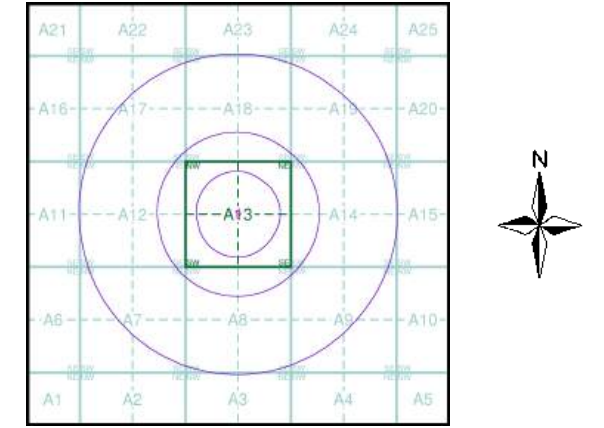
Source map scale - 1:10,000

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

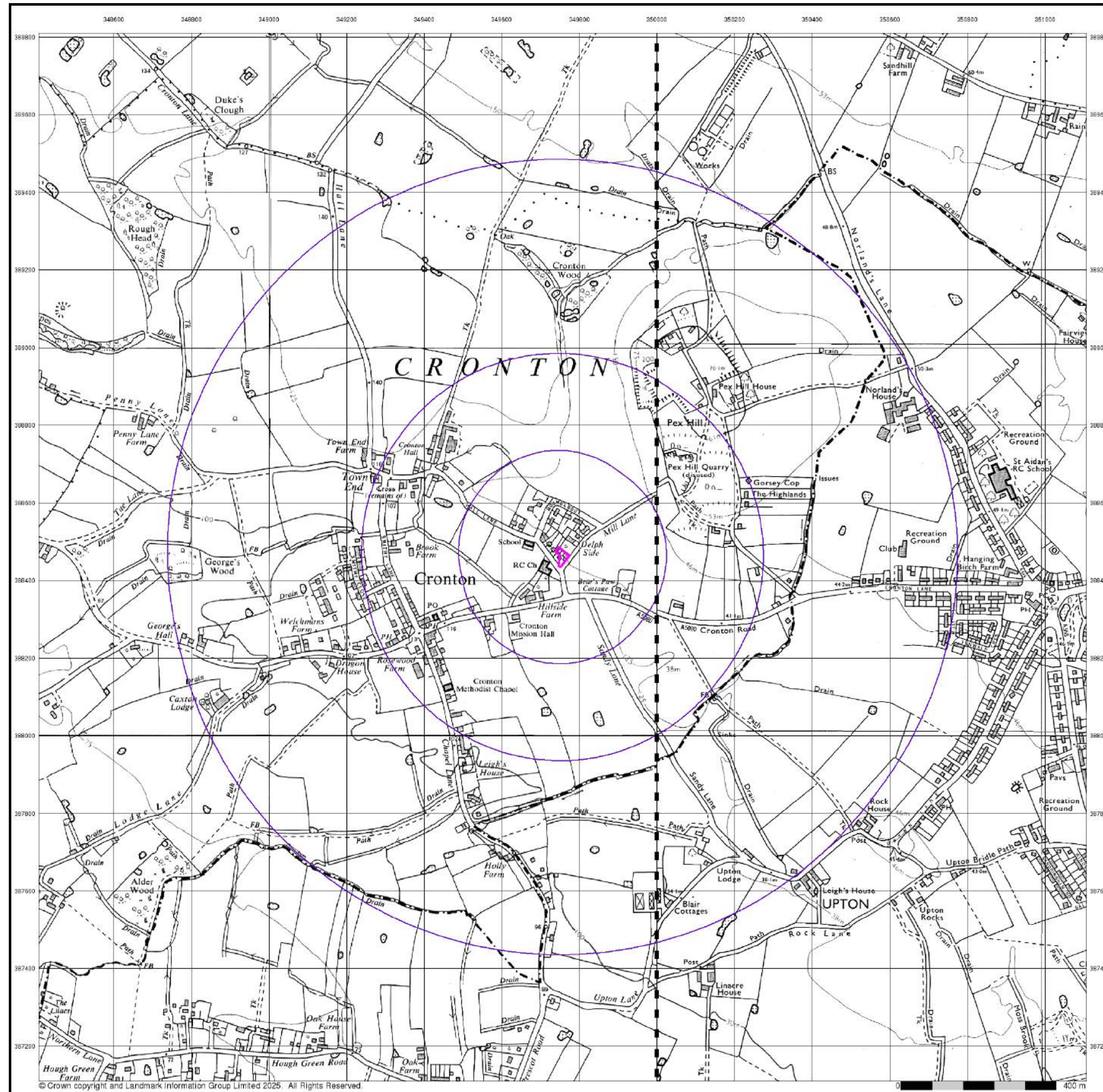
Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
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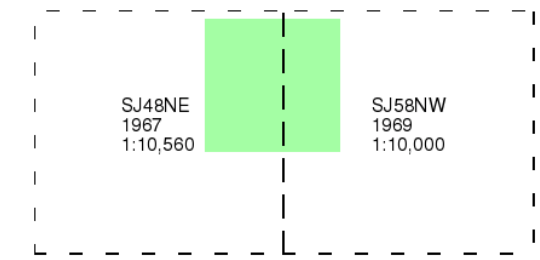
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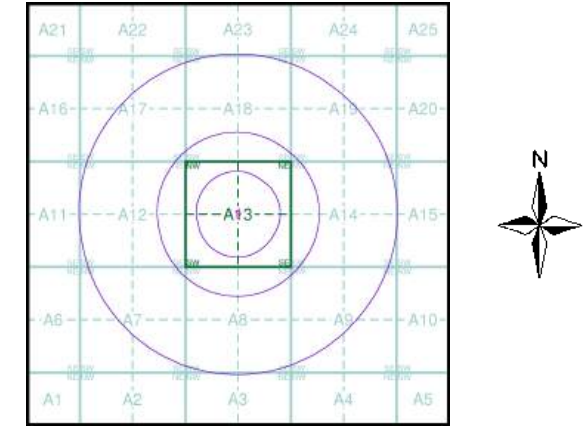
Ordnance Survey Plan
Published 1967 - 1969
Source map scale - 1:10,000

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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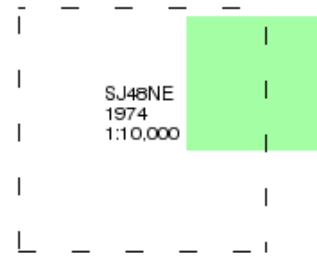


Liverpool
Published 1974

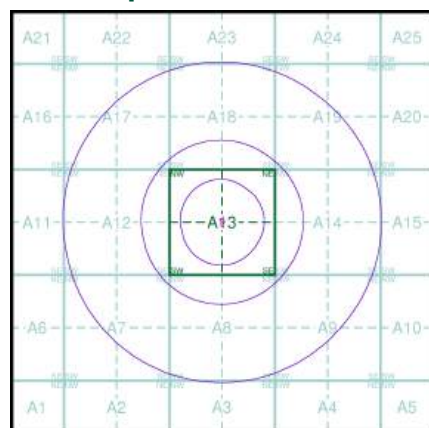
Source map scale - 1:10,000

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)



Russian Map - Slice A



Order Details

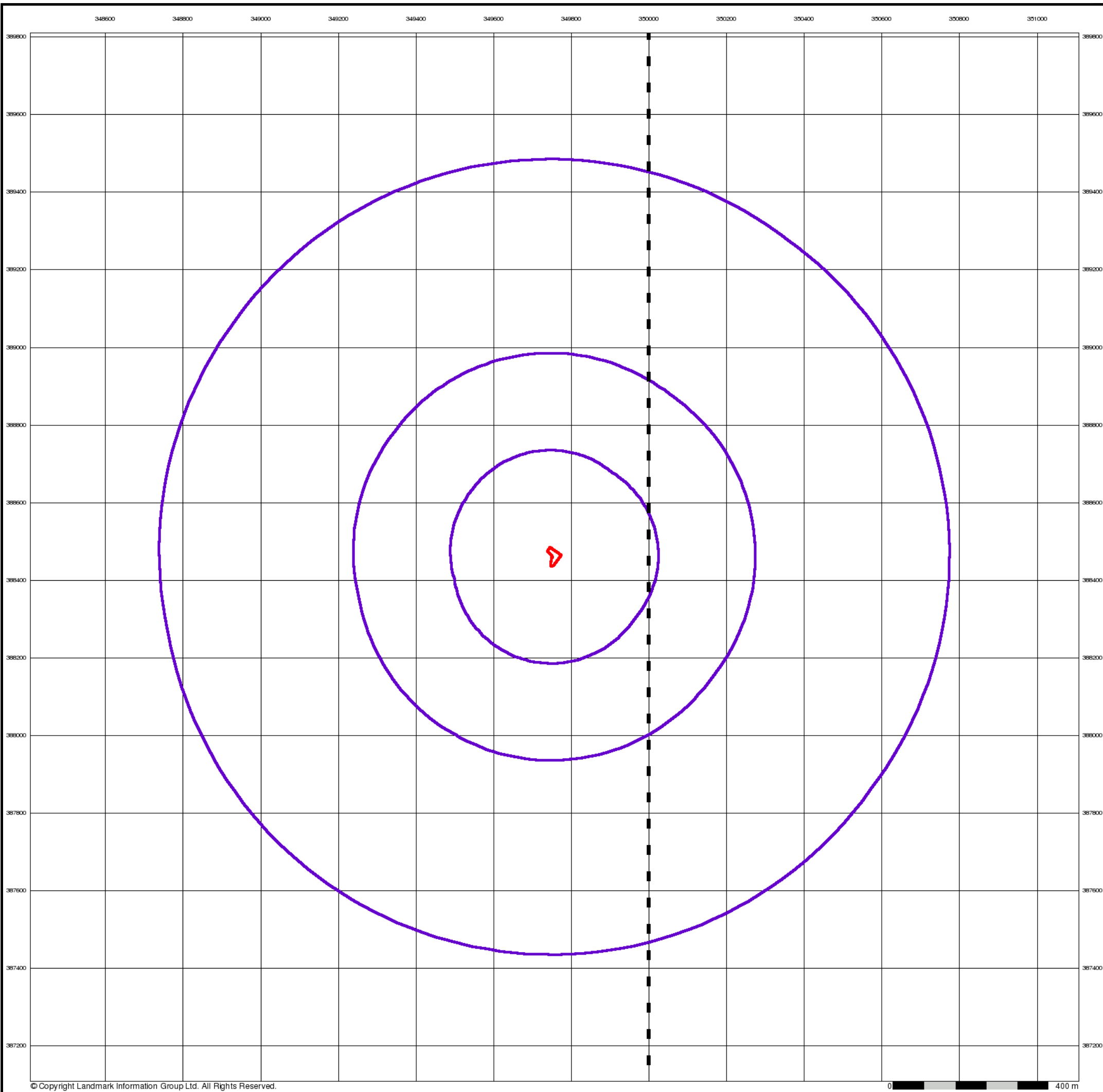
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Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



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Web: www.envirocheck.co.uk



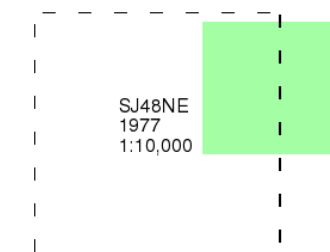
Ordnance Survey Plan

Published 1977

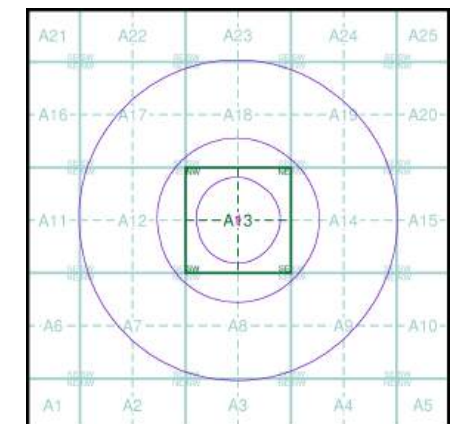
Source map scale - 1:10,000

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

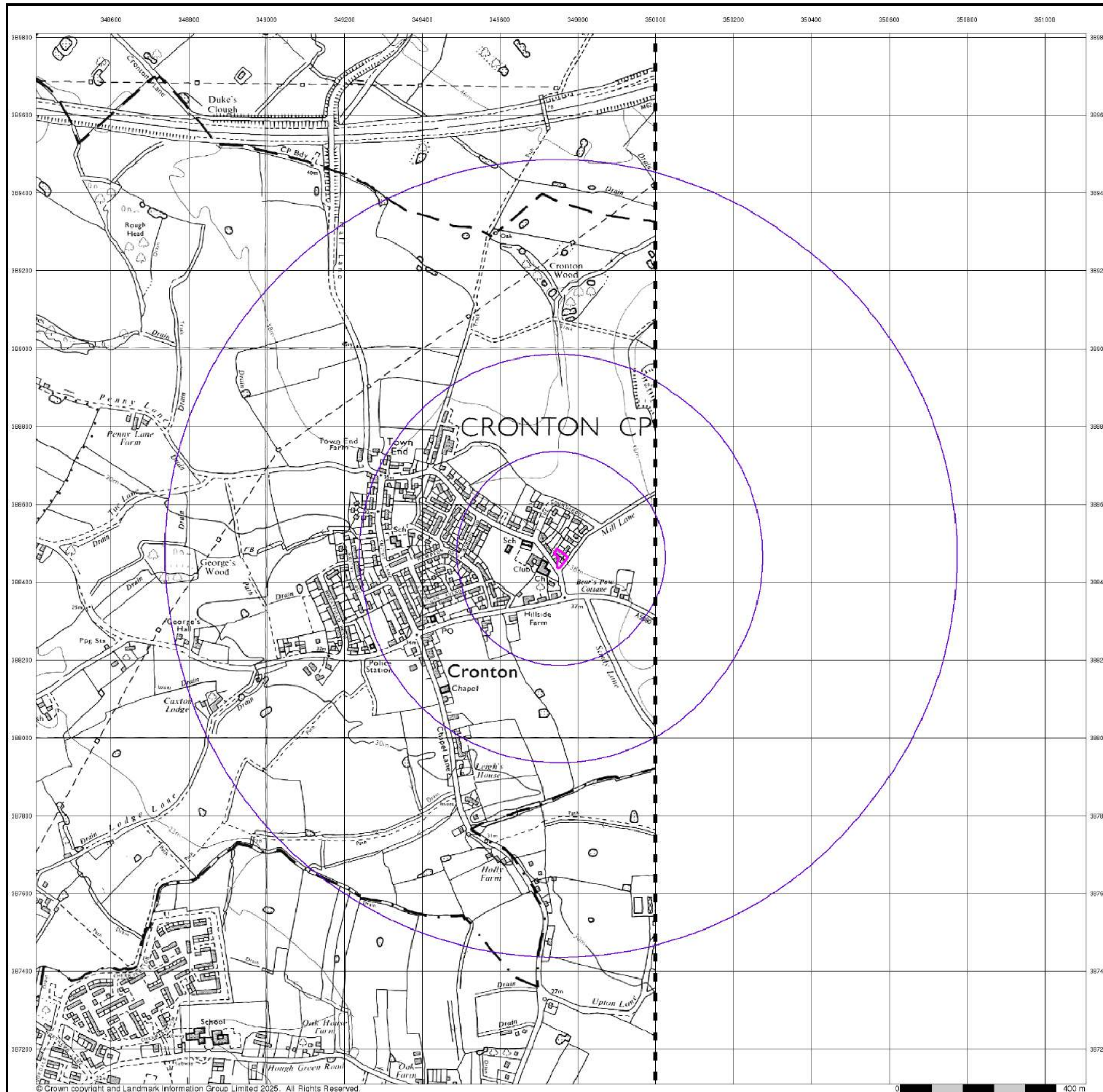


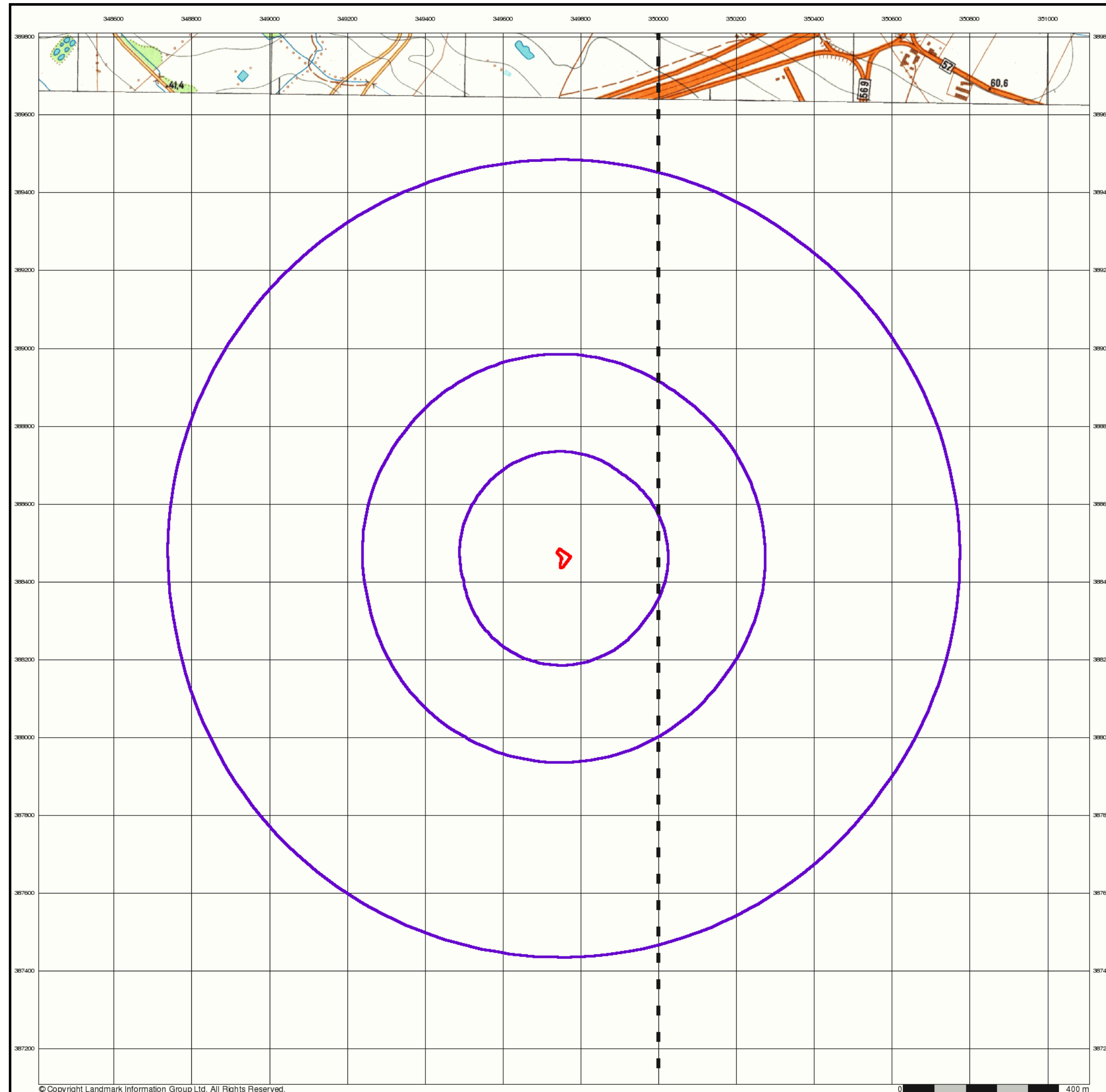
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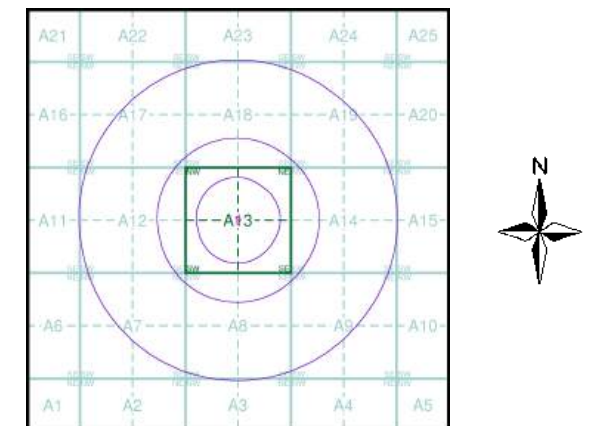
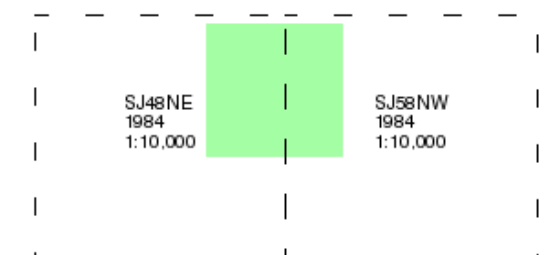
1, Mill Lane, Cronton, Widnes, WA8 5DT





Published 1984

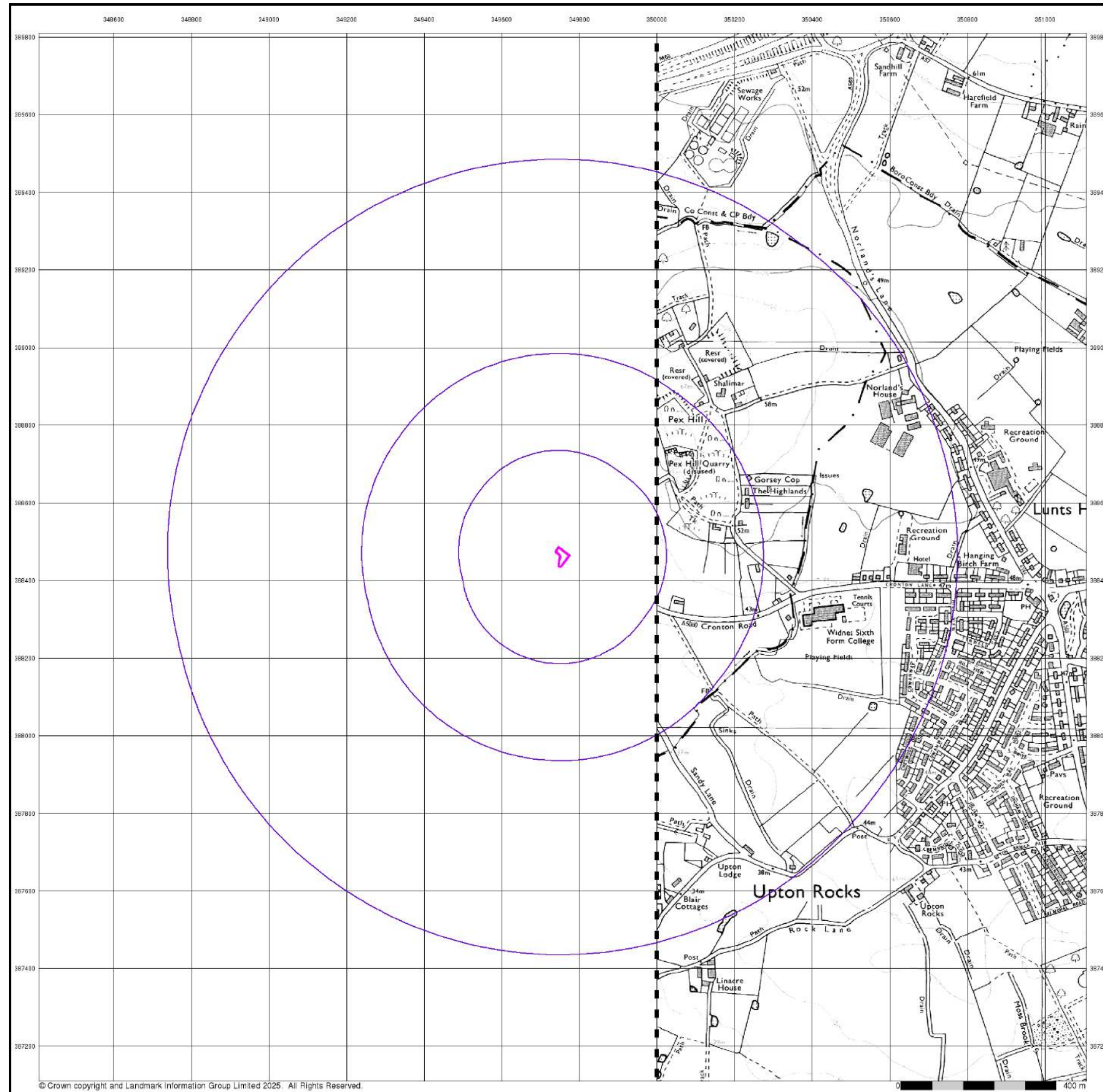
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed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



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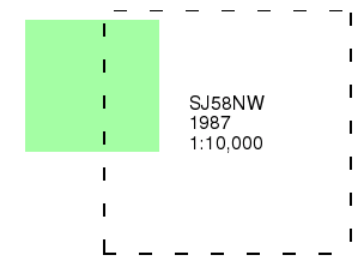
Ordnance Survey Plan

Published 1987

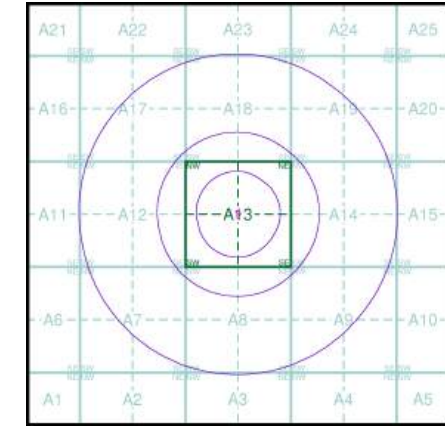
Source map scale - 1:10,000

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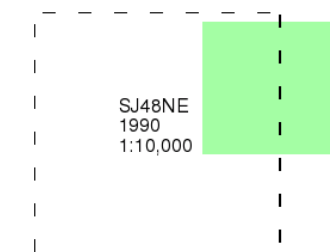
Ordnance Survey Plan

Published 1990

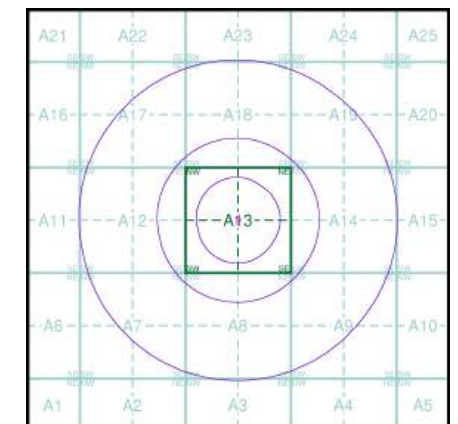
Source map scale - 1:10,000

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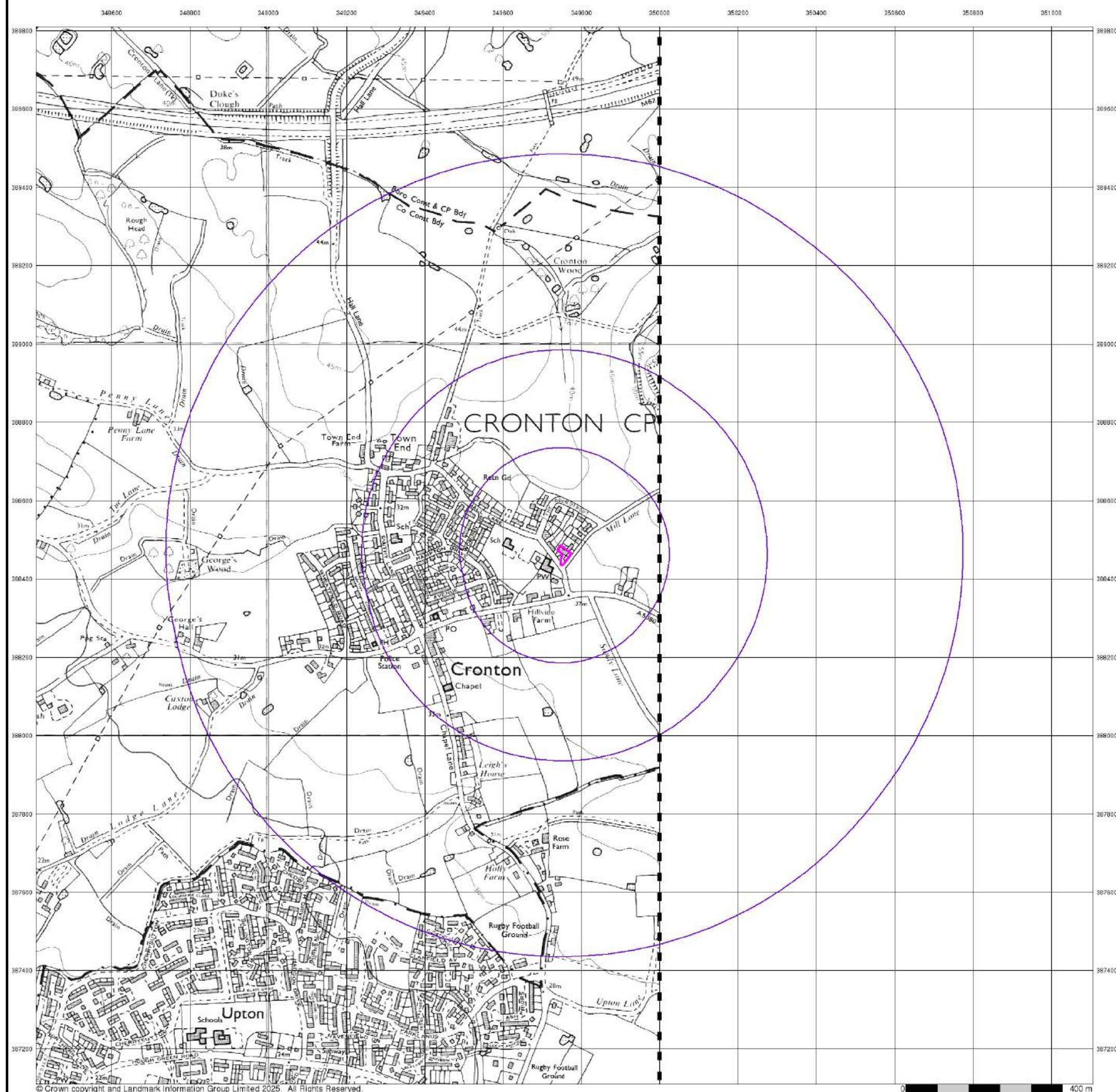


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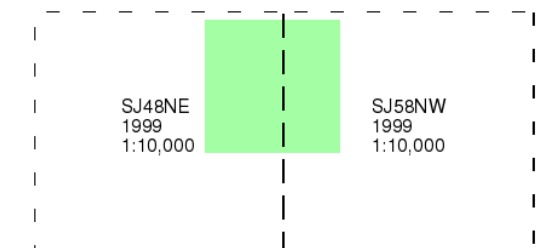
10k Raster Mapping

Published 1999

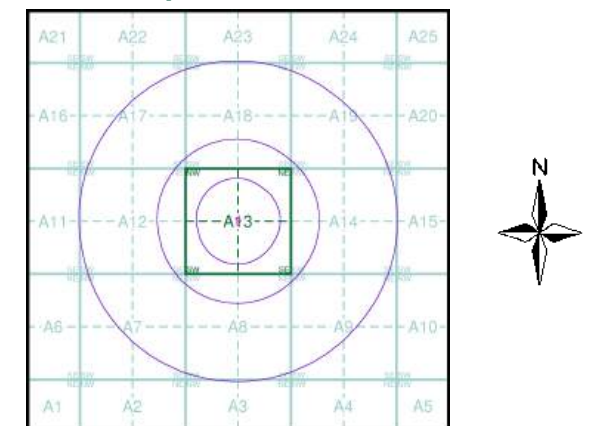
Source map scale - 1:10,000

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

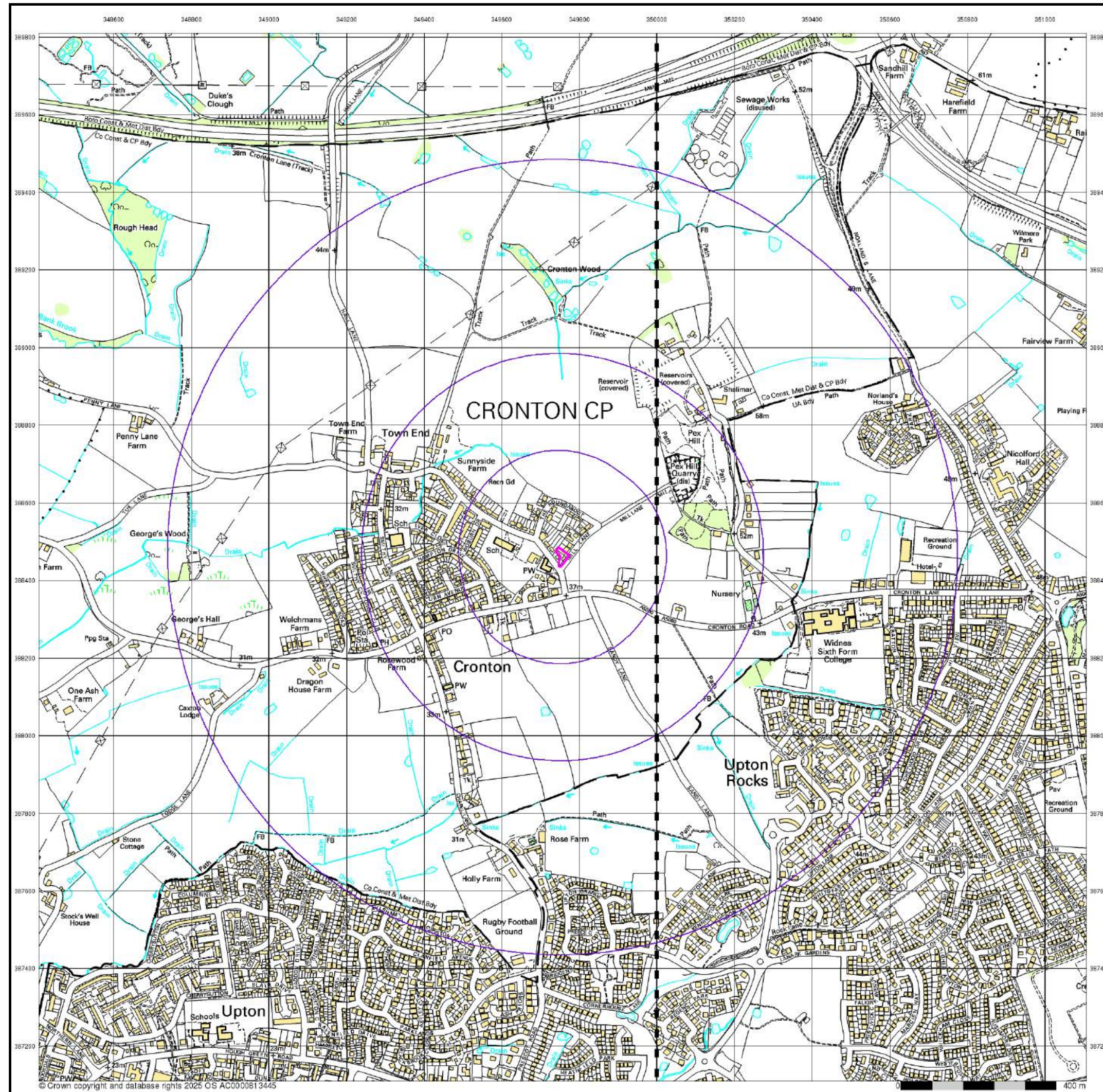


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Site Area (Ha): 0.08
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Site Details

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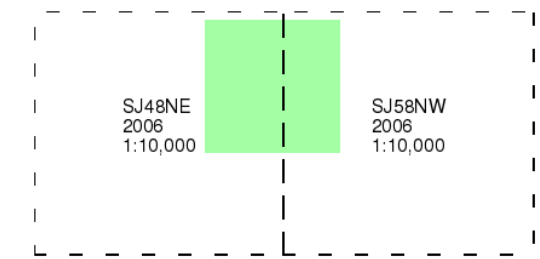
10k Raster Mapping

Published 2006

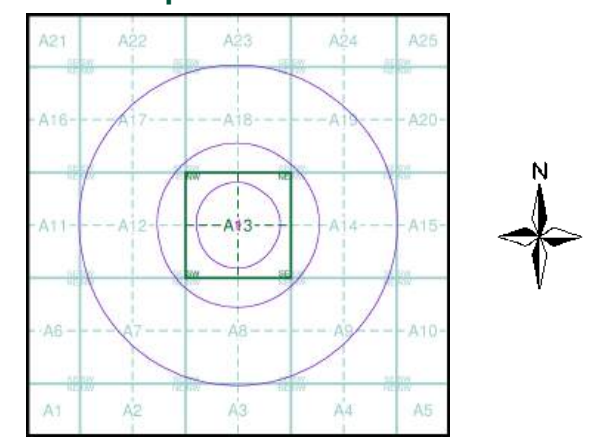
Source map scale - 1:10,000

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)



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Historical Mapping Legends

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

	Quarry		Gravel Pit		Sand Pit
	Clay Pit		Shingle		Refuse Heap
	Sloping Masonry		Flat Rock		
	Marsh		Reeds		Osiers
	Rough Pasture		Furze		Wood
	Mixed Wood		Brushwood		Orchard
	Fir		Ford		Stepping Stones
	Ferry		Waterfall		Lock
	Trig. Station		Altitude at Trig. Station		
	B.M. 325.9		Bench Mark		Surface Level
	Arrow denotes flow of water		Antiquities (site of)		
	Cutting		Embankment		
	Railway crossing Road		Level Crossing		Road crossing Railway
	Railway crossing River or Canal		Road over single stream		Road over River or Canal
	County Boundary (Geographical)		County & Civil Parish Boundary		Administrative County & Civil Parish Boundary
	County Borough Boundary (England)		County Burgh Boundary (Scotland)		
	B.P. B.S. Boundary Post or Stone		P.C.B. Police Call Box		
	B.R. Bridle Road		P. Pump		
	E.P. Electricity Pylon		S.P. Signal Post		
	F.B. Foot Bridge		S.L. Sluice		
	F.P. Foot Path		Sp. Spring		
	G.P. Guide Post or Board		T.C.B. Telephone Call Box		
	M.S. Mile Stone		Tr. Trough		
	M.P. M.R. Mooring Post or Ring		W. Well		

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

	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
	Rock		Boulders
	Cliff		Slopes
	Roofed Building		Glazed Roof Building
	Sloping Masonry		Archway
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Bench Mark
	Cave Entrance		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	County Boundary (Geographical)		County & Civil Parish Boundary
	County Boundary		Boundary post/stone
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	BH Beer House		P Pillar, Pole or Post
	BP, BS Boundary Post or Stone		PO Post Office
	Cn, C Capstan, Crane		PC Public Convenience
	Chy Chimney		PH Public House
	D Fn Drinking Fountain		Pp Pump
	EI P Electricity Pillar or Post		SB, S Br Signal Box or Bridge
	FAP Fire Alarm Pillar		SP, SL Signal Post or Light
	FB Foot Bridge		Spr Spring
	GP Guide Post		Tk Tank or Track
	H Hydrant or Hydraulic		TCB Telephone Call Box
	LC Level Crossing		TCP Telephone Call Post
	MH Manhole		Tr Trough
	MP Mile Post or Mooring Post		Wr Pt, Wr T Water Point, Water Tap
	MS Mile Stone		W Well
	NTL Normal Tidal Limit		Wd Pp Wind Pump

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

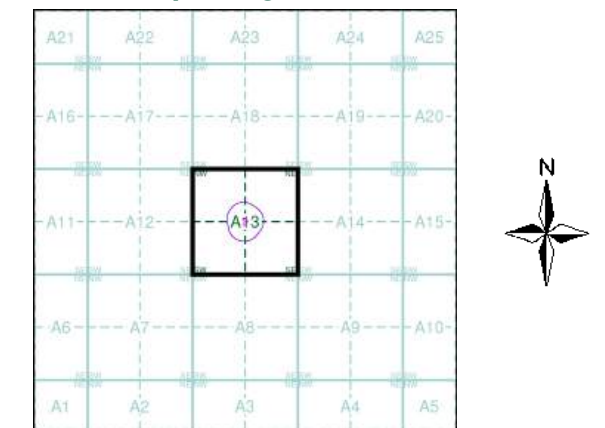
	Cliff		Slopes
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	Bench Mark		Buildings with Building Seed
	Roofed Building		Glazed Roof Building
	Civil parish/community boundary		
	District boundary		
	County boundary		
	Boundary post/stone		
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Bks Barracks		P Pillar, Pole or Post
	Bty Battery		PO Post Office
	Cem Cemetery		PC Public Convenience
	Chy Chimney		Pp Pump
	Cis Cistern		Ppg Sta Pumping Station
	Disntd Rly Dismantled Railway		PW Place of Worship
	El Gen Sta Electricity Generating Station		Sewage Ppg Sta Sewage Pumping Station
	EI P Electricity Pole, Pillar		SB, S Br Signal Box or Bridge
	El Sub Sta Electricity Sub Station		SP, SL Signal Post or Light
	FB Filter Bed		Spr Spring
	Fn / D Fn Fountain / Drinking Ftn.		Tk Tank or Track
	Gas Gov Gas Valve Compound		Tr Trough
	GVC Gas Governor		Wd Pp Wind Pump
	GP Guide Post		Wr Pt, Wr T Water Point, Water Tap
	MH Manhole		Wks Works (building or area)
	MP, MS Mile Post or Mile Stone		W Well



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1907	3
Lancashire And Furness	1:2,500	1927	4
Ordnance Survey Plan	1:2,500	1959	5
Ordnance Survey Plan	1:2,500	1969	6
Additional SIMs	1:2,500	1982 - 1985	7
Additional SIMs	1:2,500	1988 - 1990	8
Large-Scale National Grid Data	1:2,500	1993	9
Large-Scale National Grid Data	1:1,250	1993	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:1,250	1994	12
Large-Scale National Grid Data	1:1,250	1996	13
Historical Aerial Photography	1:2,500	2000	14

Historical Map - Segment A13



Order Details

Order Number: 366551079_1_1
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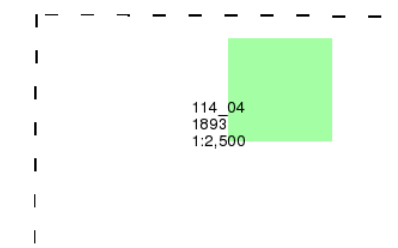
Lancashire And Furness

Published 1893

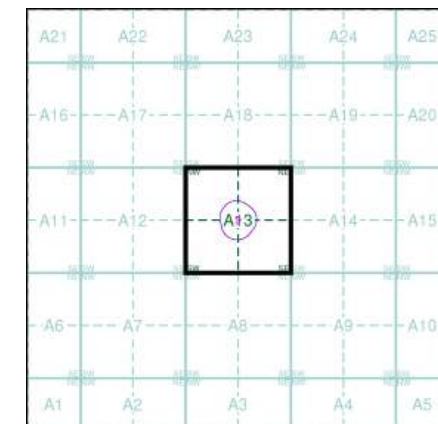
Source map scale - 1:2,500

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

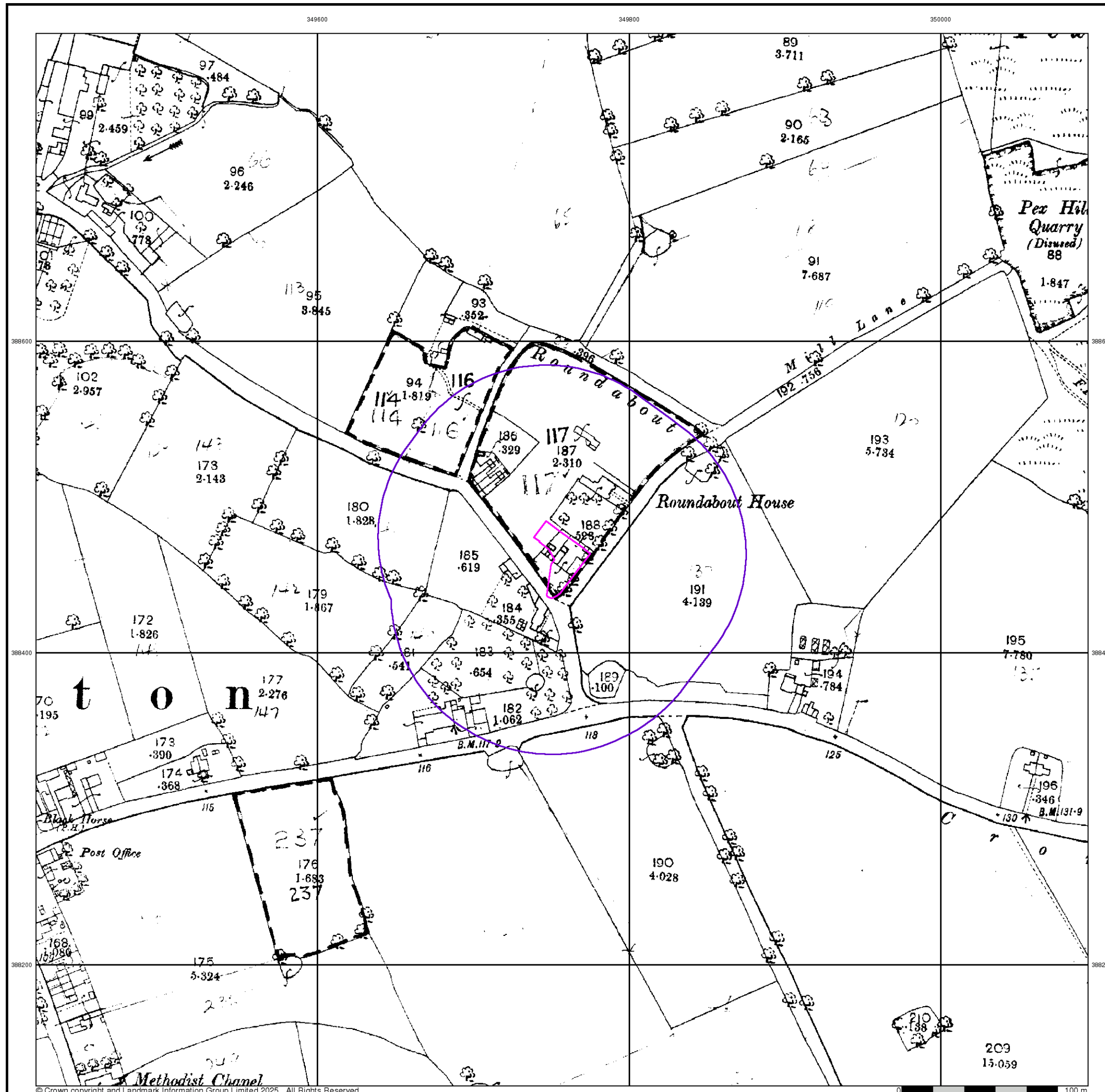


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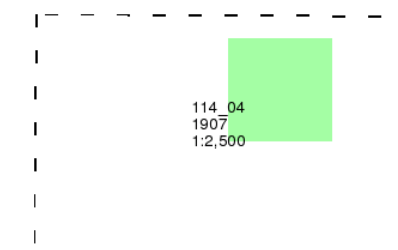
Lancashire And Furness

Published 1907

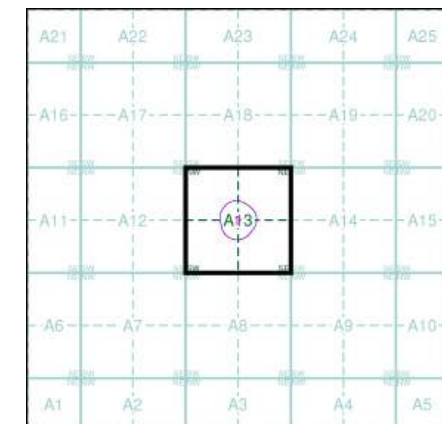
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Historical Map - Segment A13

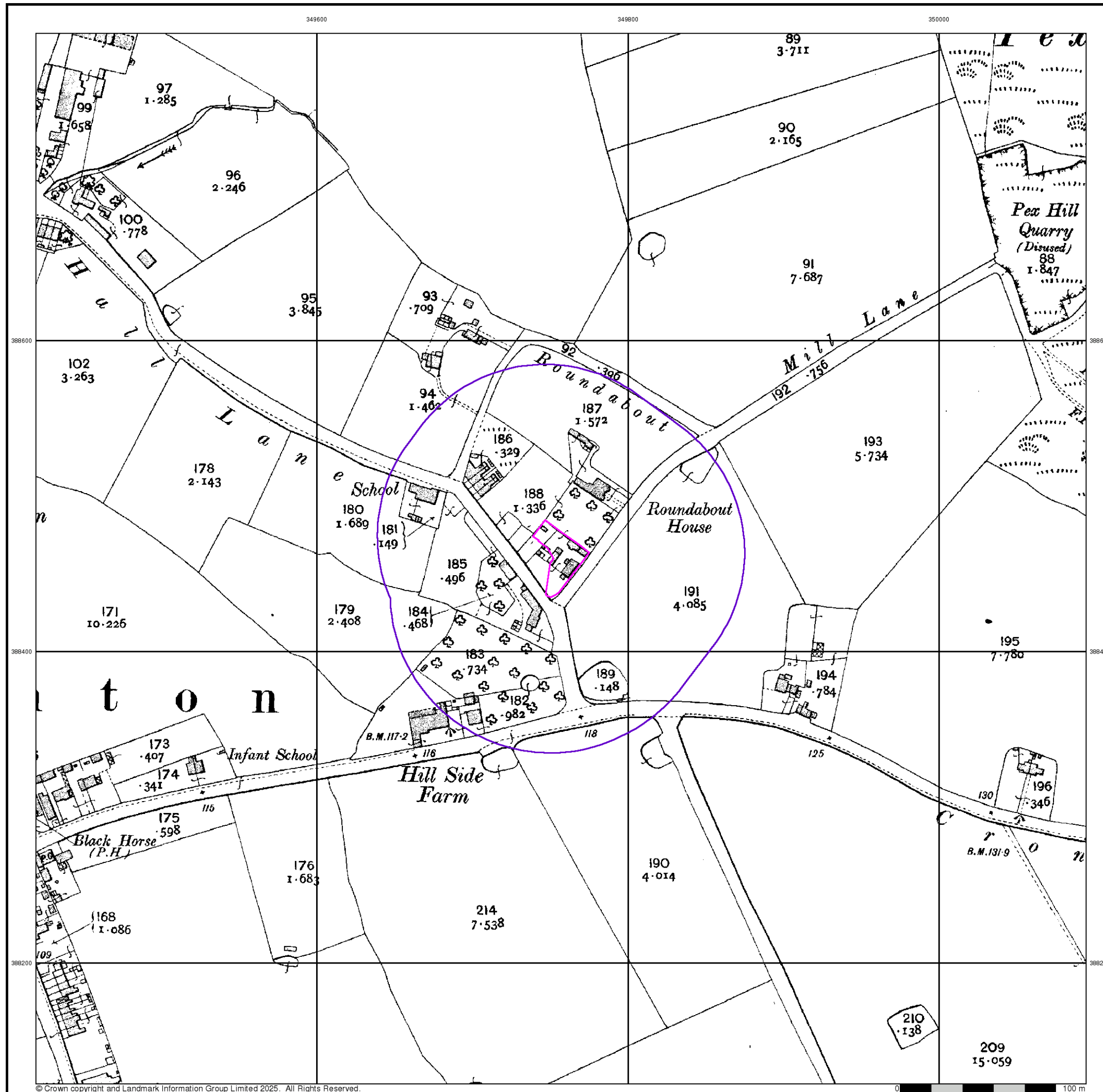


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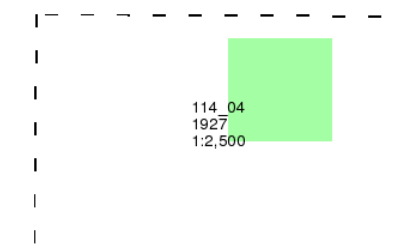
Lancashire And Furness

Published 1927

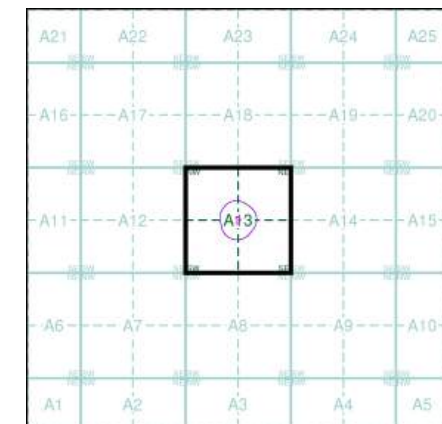
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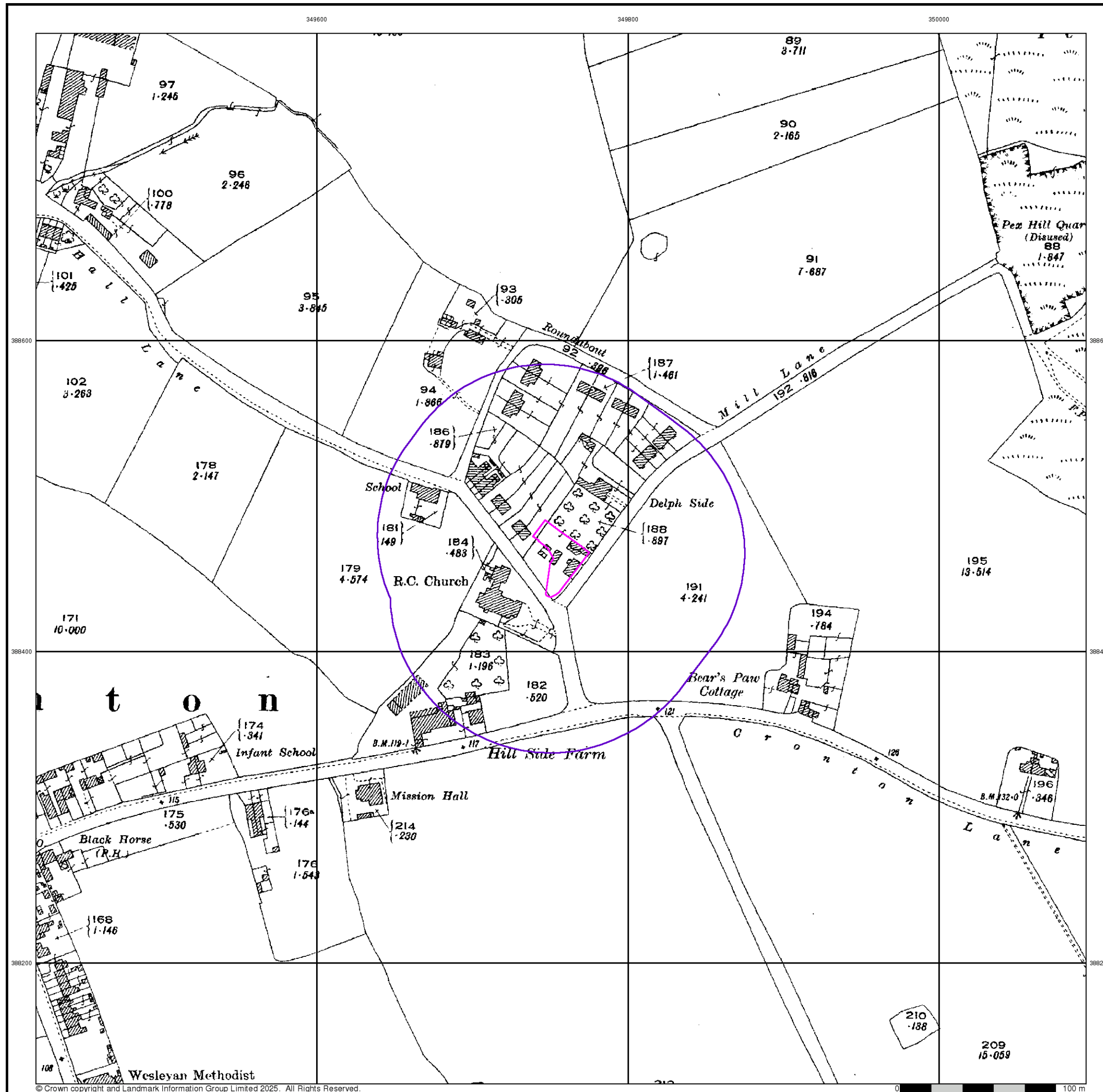


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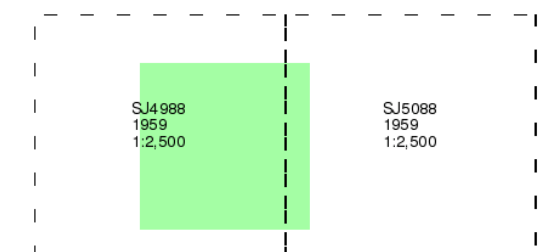
Ordnance Survey Plan

Published 1959

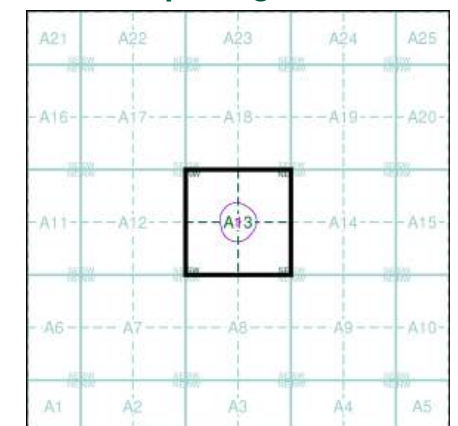
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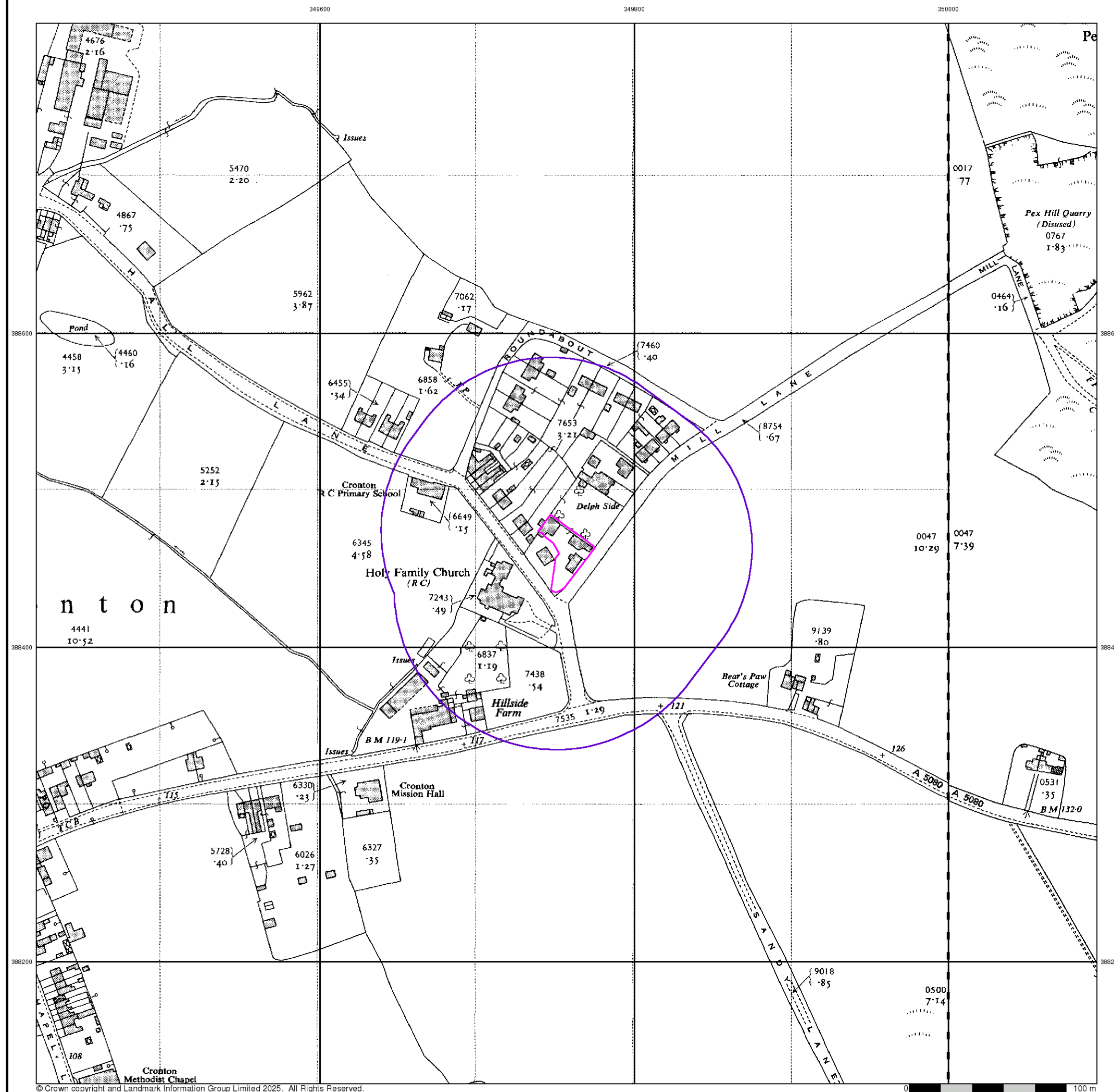


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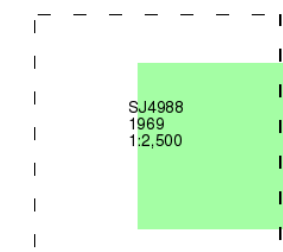
Ordnance Survey Plan

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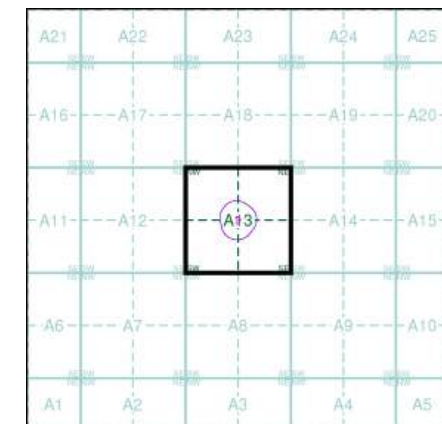
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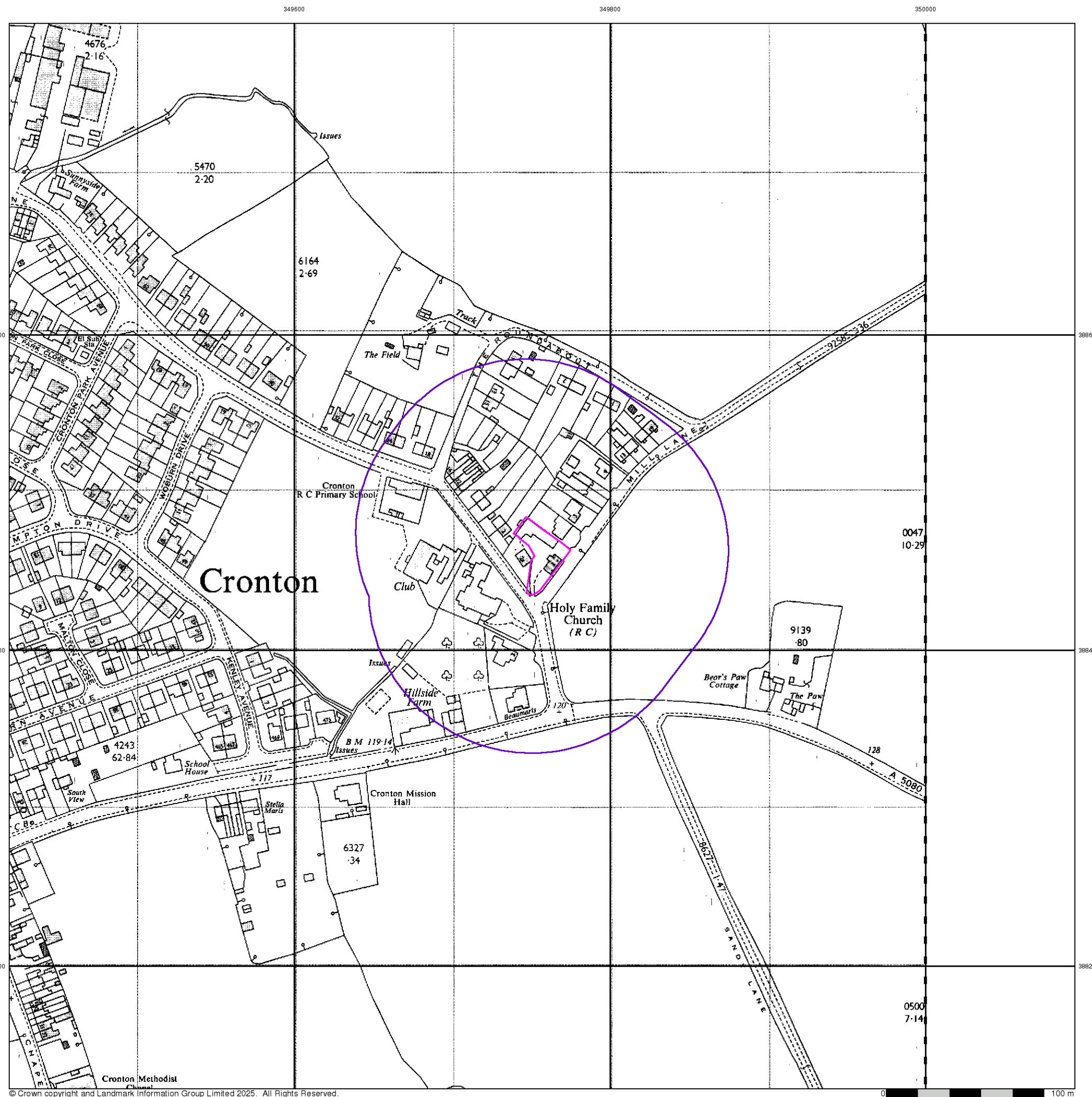


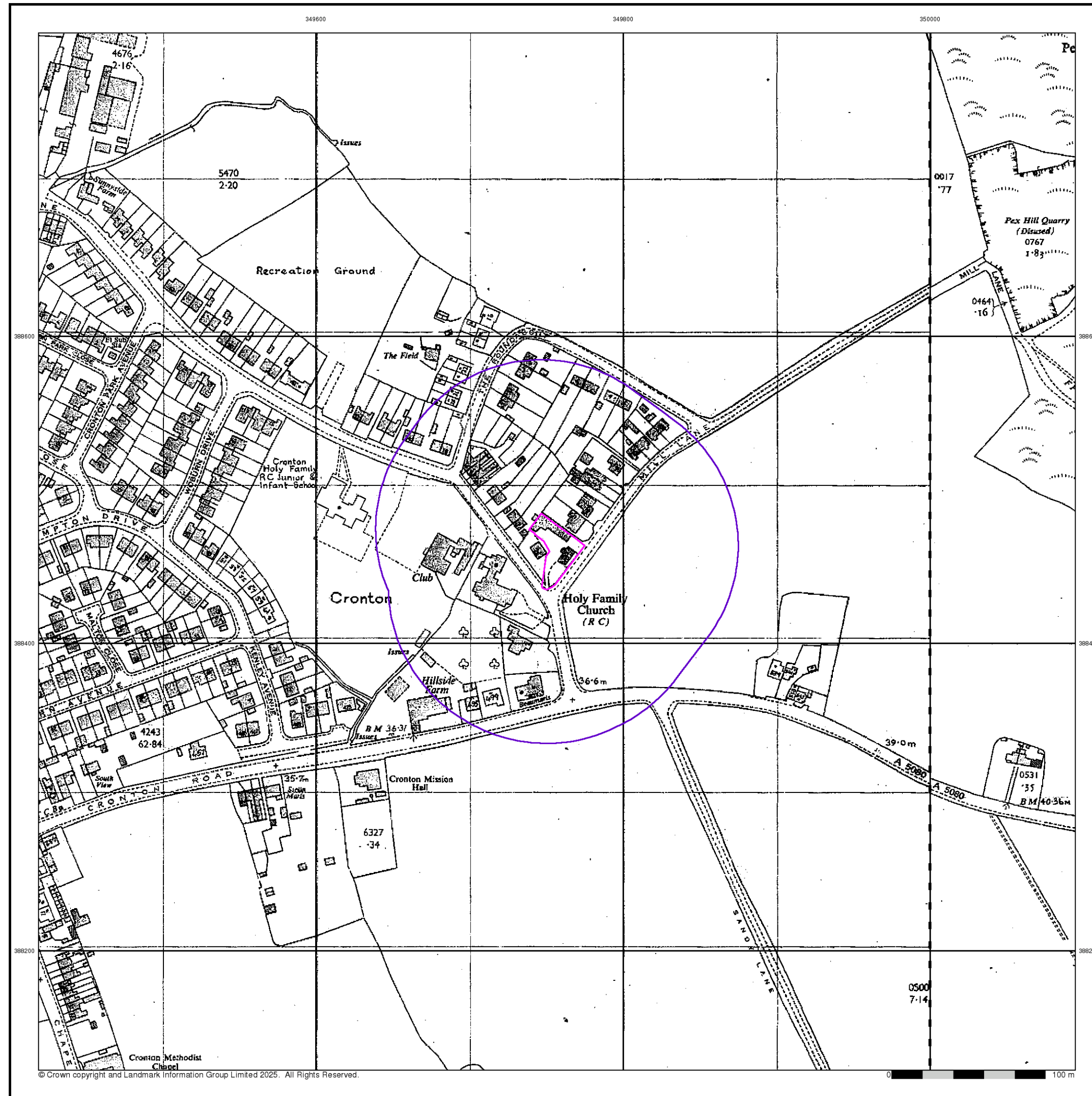
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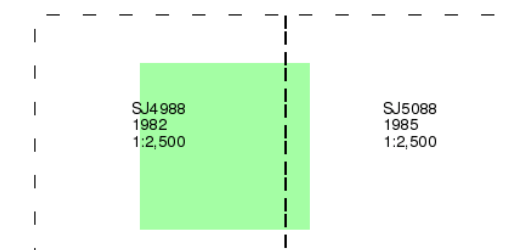
Additional SIMs

Published 1982 - 1985

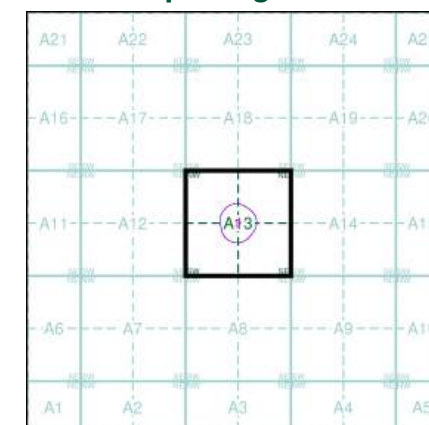
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 100

Site Details

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Web: www.envirocheck.co.uk

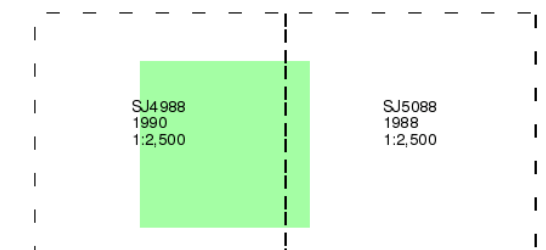
Additional SIMs

Published 1988 - 1990

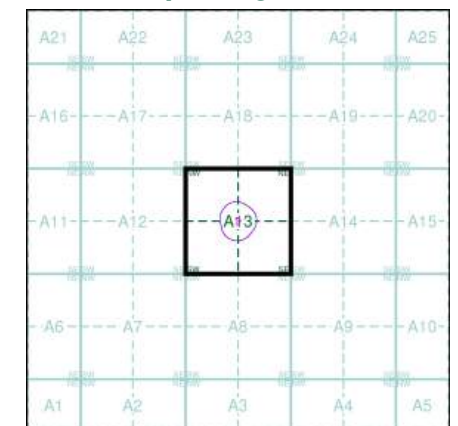
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

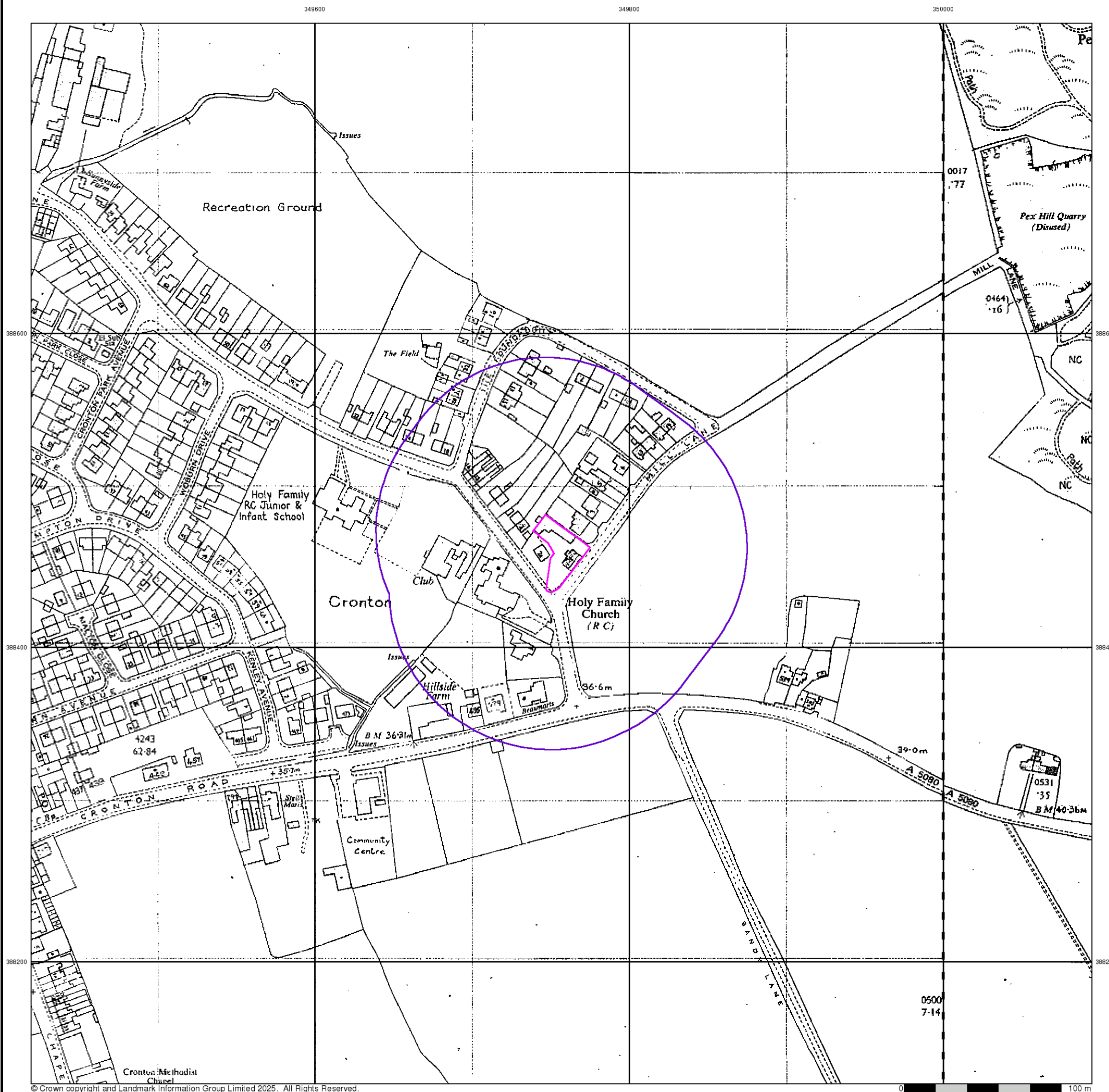


Order Details

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 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
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 Site Area (Ha): 0.08
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Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



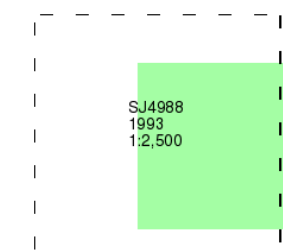
Large-Scale National Grid Data

Published 1993

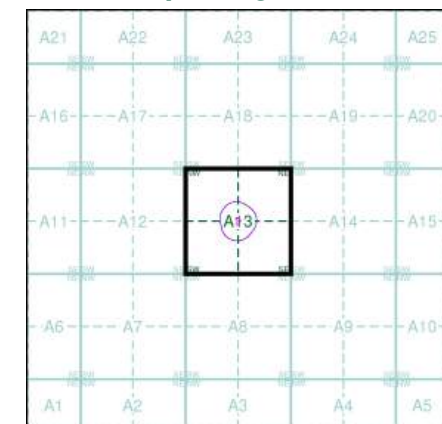
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

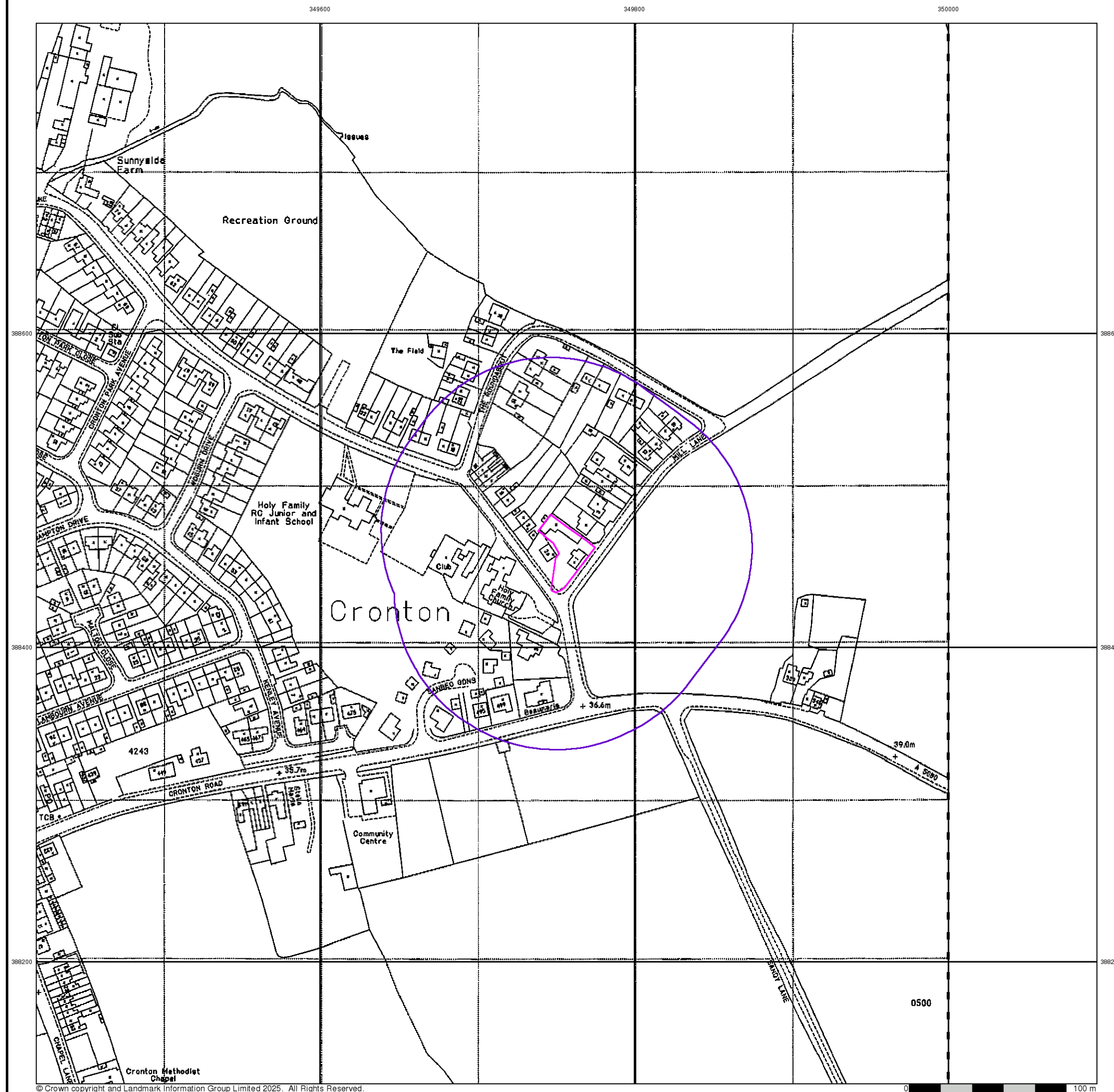


Order Details

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 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
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Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



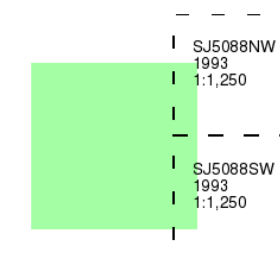
Large-Scale National Grid Data

Published 1993

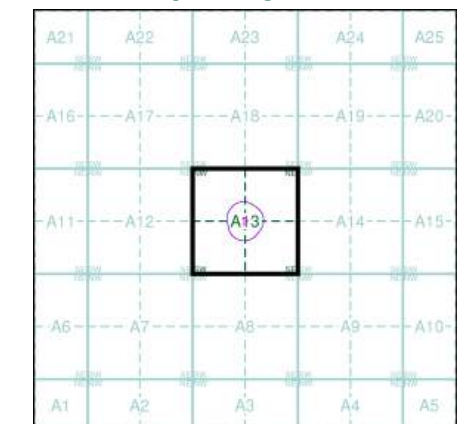
Source map scale - 1:1,250

'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)



Historical Map - Segment A13



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Customer Ref: 34614LG
National Grid Reference: 349750, 388460
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Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT

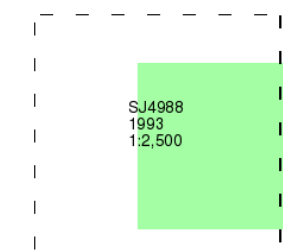
Large-Scale National Grid Data

Published 1993

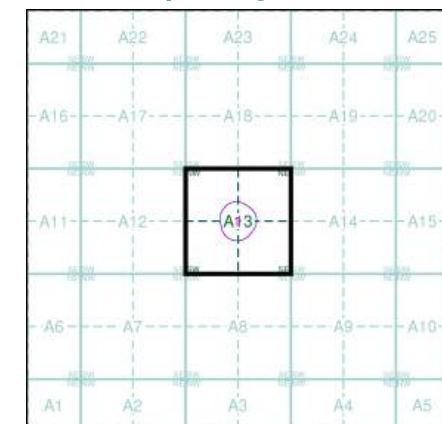
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Map Name(s) and Date(s)



Historical Map - Segment A13

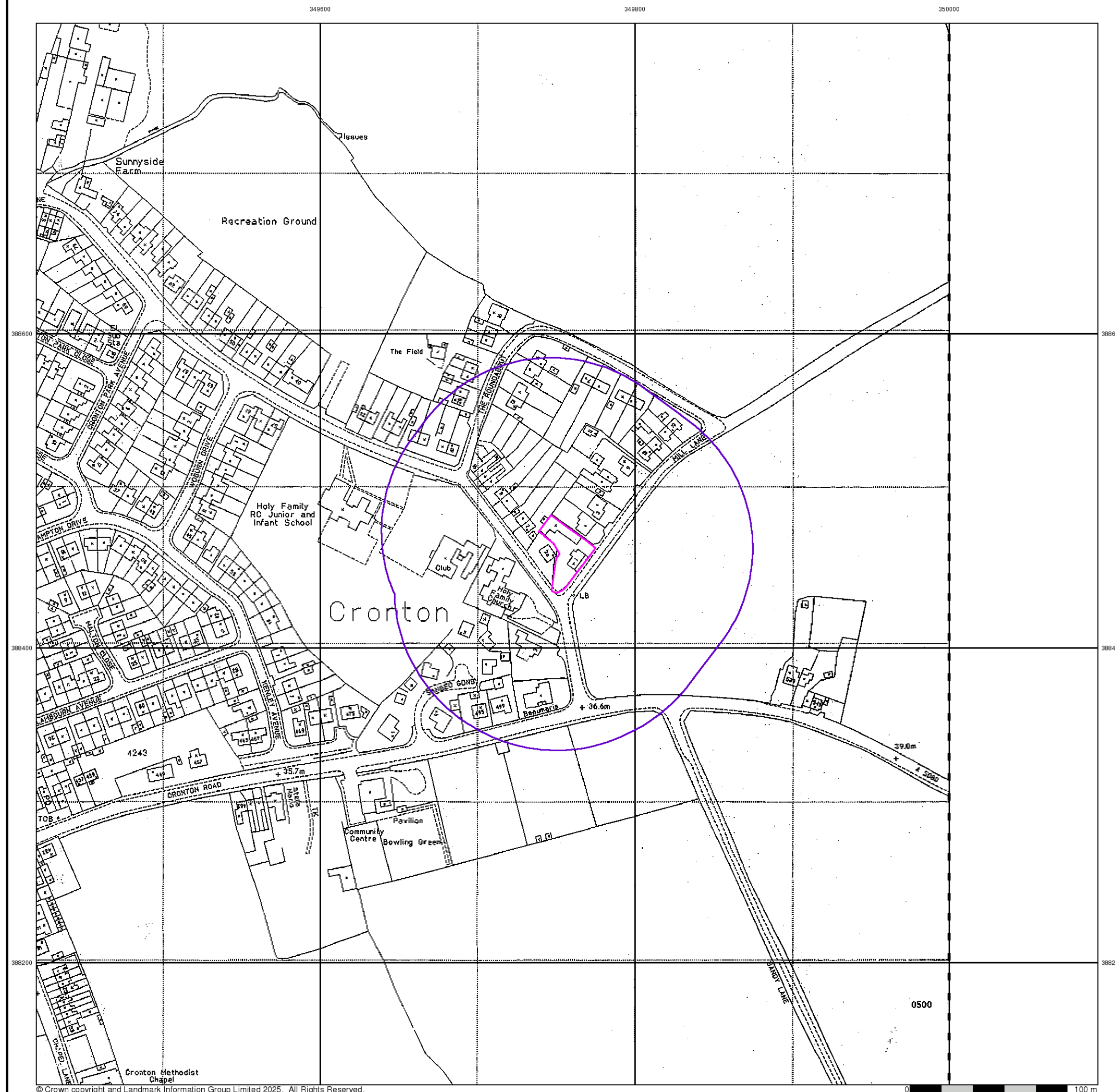


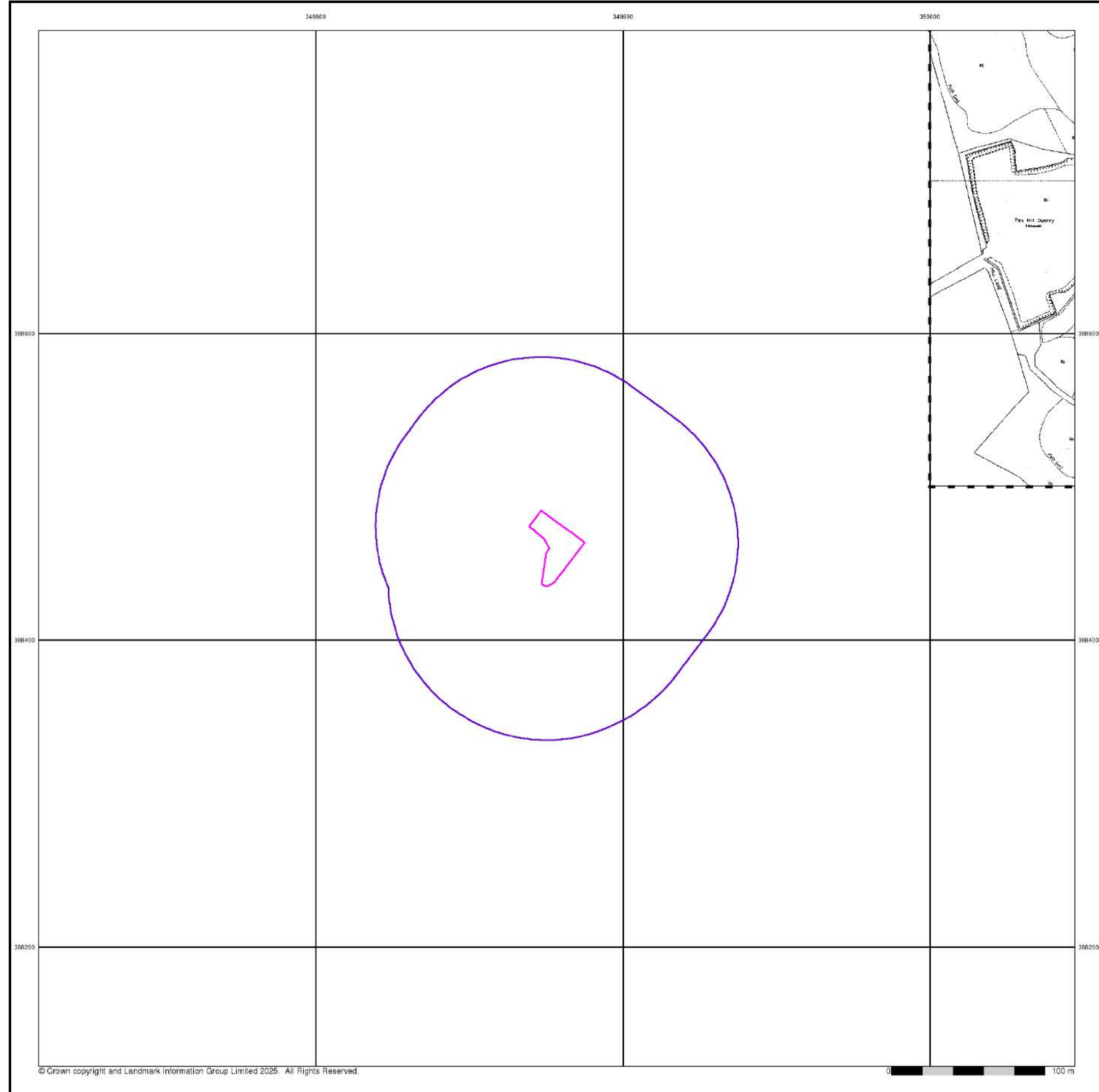
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 Customer Ref: 34614LG
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Site Details

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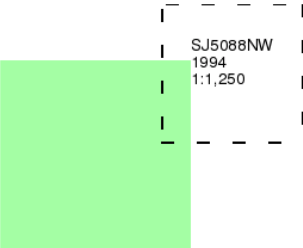
Large-Scale National Grid Data

Published 1994

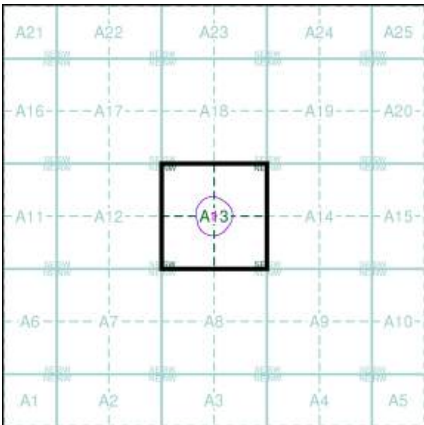
Source map scale - 1:1,250

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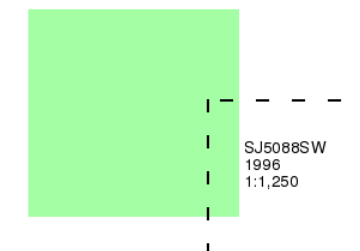
Large-Scale National Grid Data

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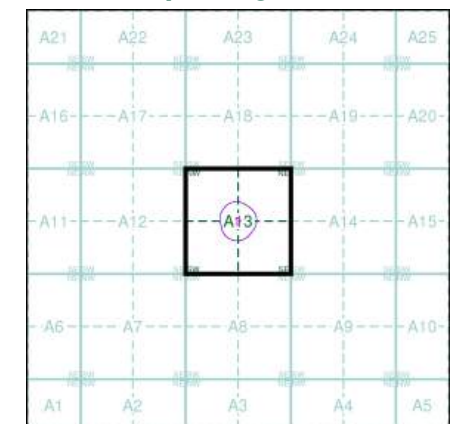
Source map scale - 1:1,250

'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



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Order Number: 366551079_1_1
Customer Ref: 34614LG
National Grid Reference: 349750, 388460
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Site Area (Ha): 0.08
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Site Details

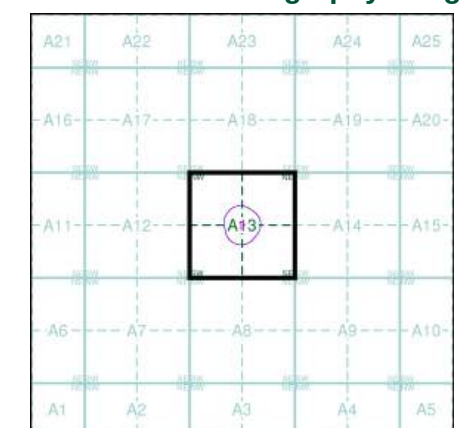
1, Mill Lane, Cronton, Widnes, WA8 5DT

Historical Aerial Photography

Published 2000

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: 366551079_1_1
 Customer Ref: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 100

Site Details

1, Mill Lane, Cronton, Widnes, WA8 5DT



Geology 1:50,000 Maps Legends

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
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone, Pebbly (Gravelly)	Not Supplied - Olenekian
	KNSF	Kinnerton Sandstone Formation	Sandstone	Not Supplied - Early Triassic
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	ETM	Etruria Formation	Mudstone, Sandstone and Conglomerate	Not Supplied - Westphalian
		Faults		



Geology 1:50,000 Maps

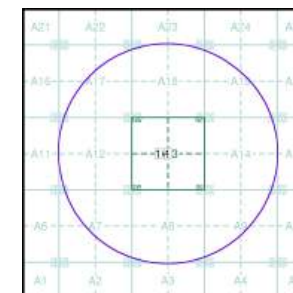
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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: 097
 Map Name: Runcorn
 Map Date: 1977
 Bedrock Geology: Available
 Superficial Geology: Available
 Artificial Geology: Not Available
 Faults: Not Supplied
 Landslip: Not Available
 Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

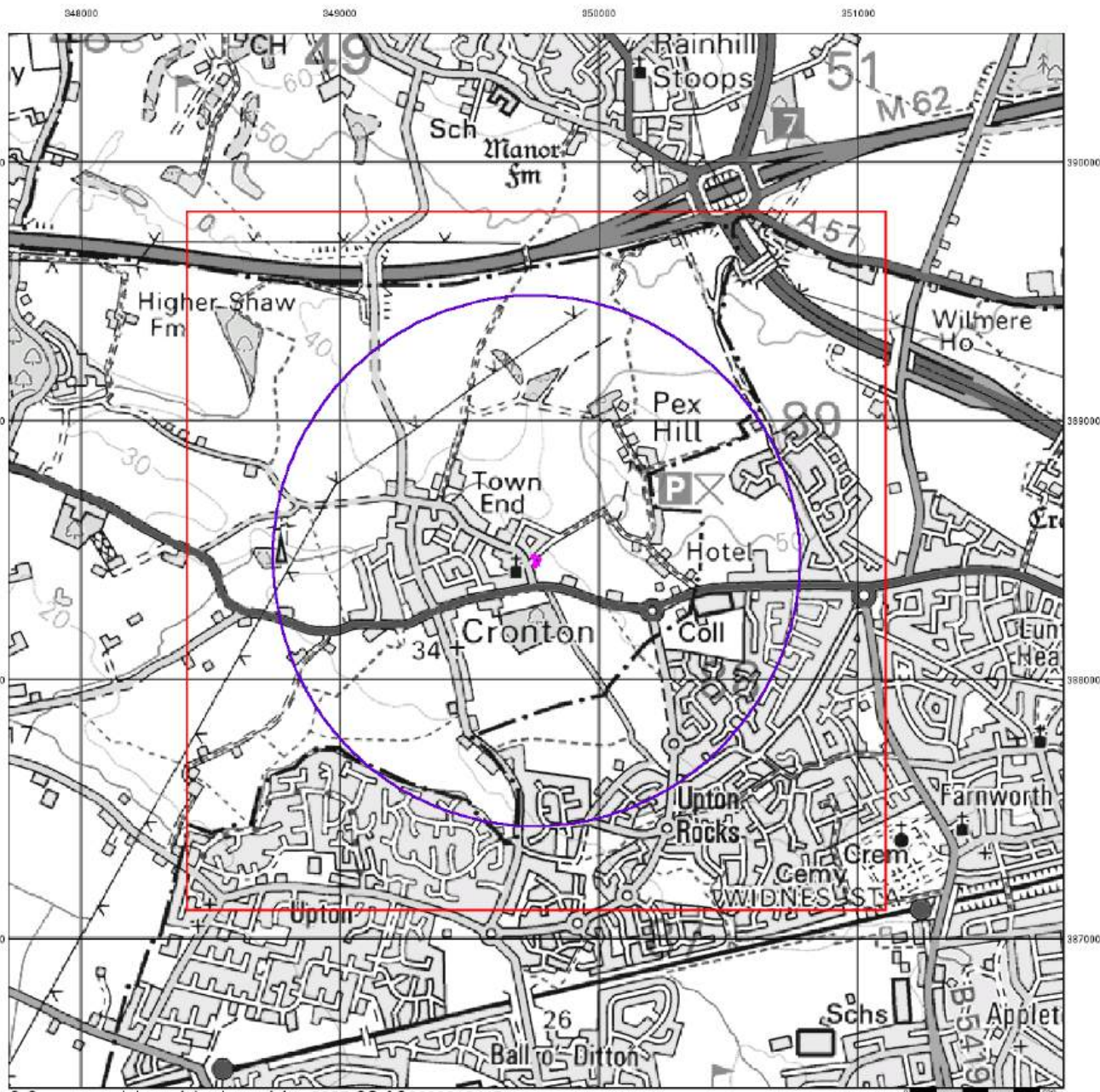
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 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details:

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Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9951
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Artificial Ground and Landslip

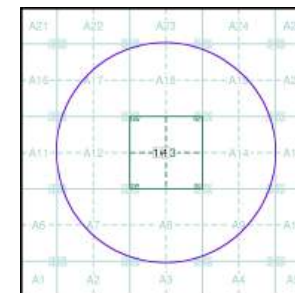
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions 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: 366551079_1_1
 Customer Reference: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
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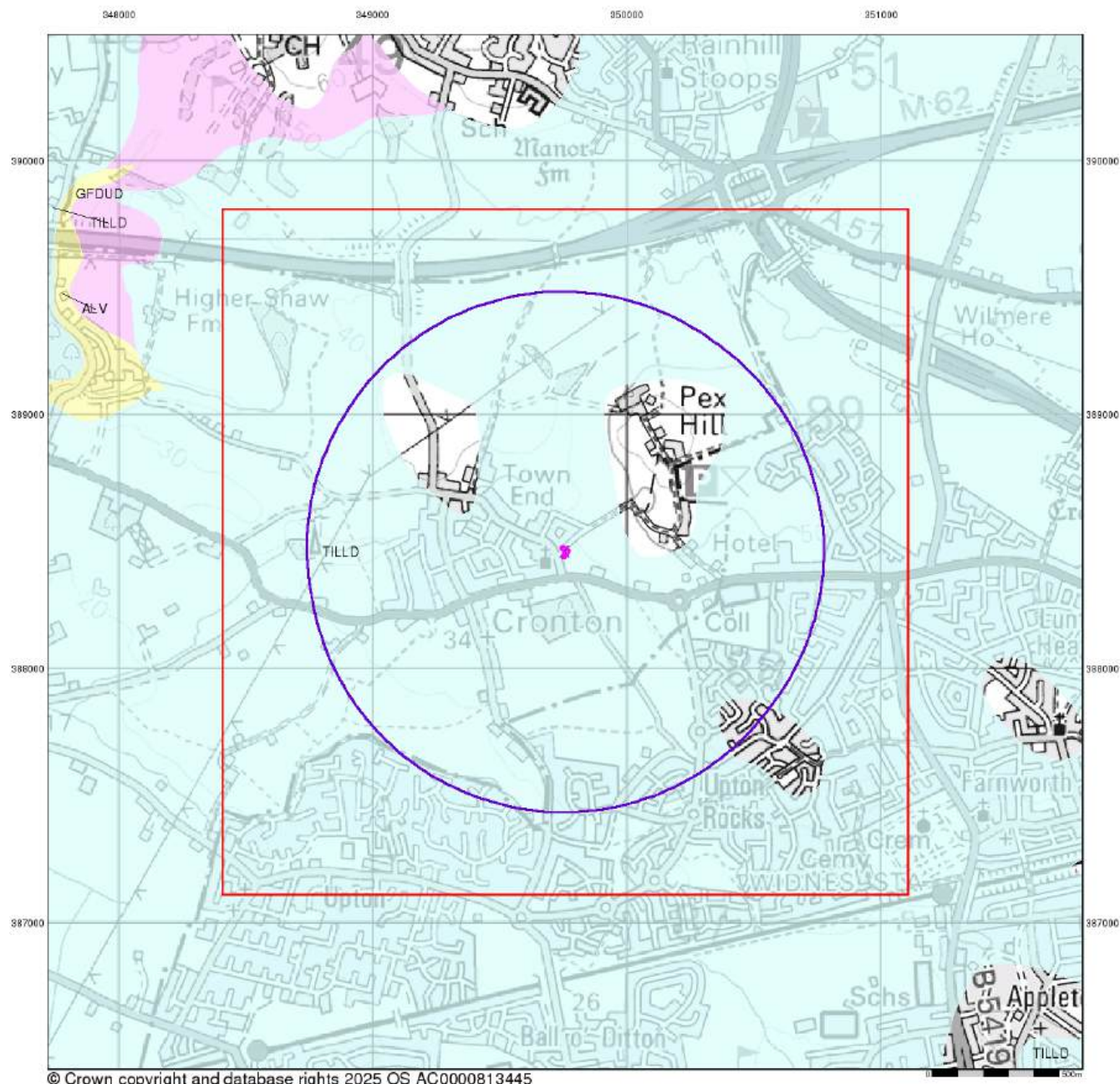
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v15.0 07-Jan-2025

Page 2 of 5



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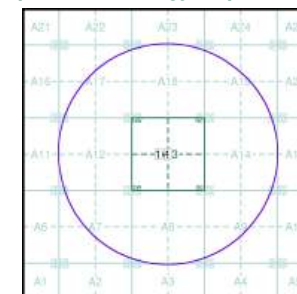
Superficial Geology

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: 366551079_1_1
Customer Reference: 34614LG
National Grid Reference: 349750, 388460
Slice: A
Site Area (Ha): 0.08
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Site Details:

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Bedrock and Faults

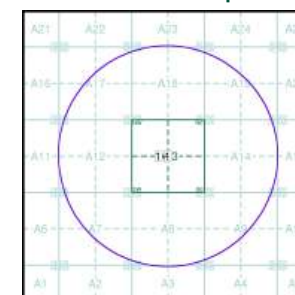
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

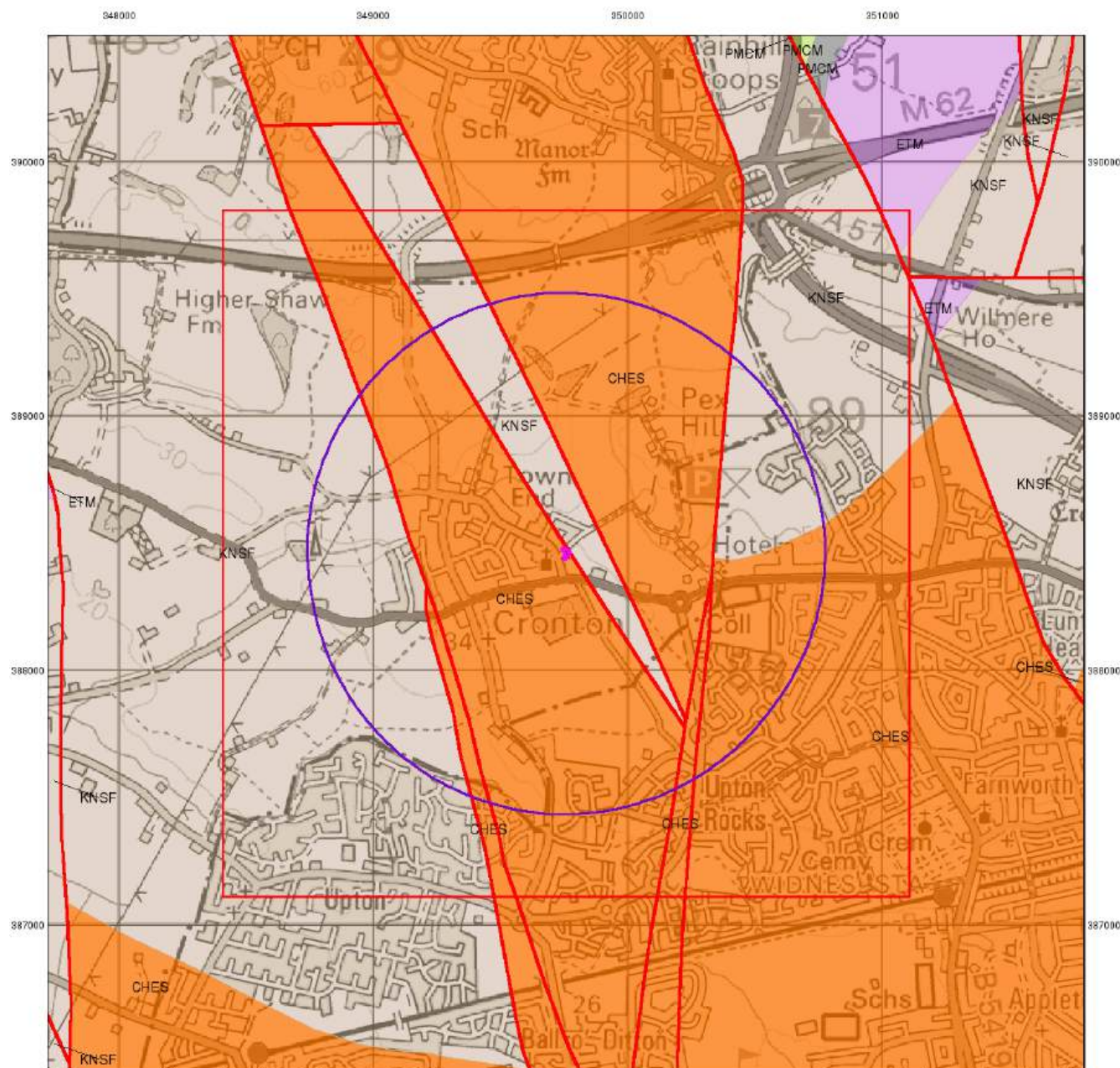


Order Details:

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 Customer Reference: 34614LG
 National Grid Reference: 349750, 388460
 Slice: A
 Site Area (Ha): 0.08
 Search Buffer (m): 1000

Site Details:

1, Mill Lane, Cronton, Widnes, WA8 5DT



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.

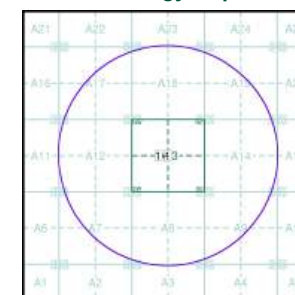
Additional Information

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
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Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A

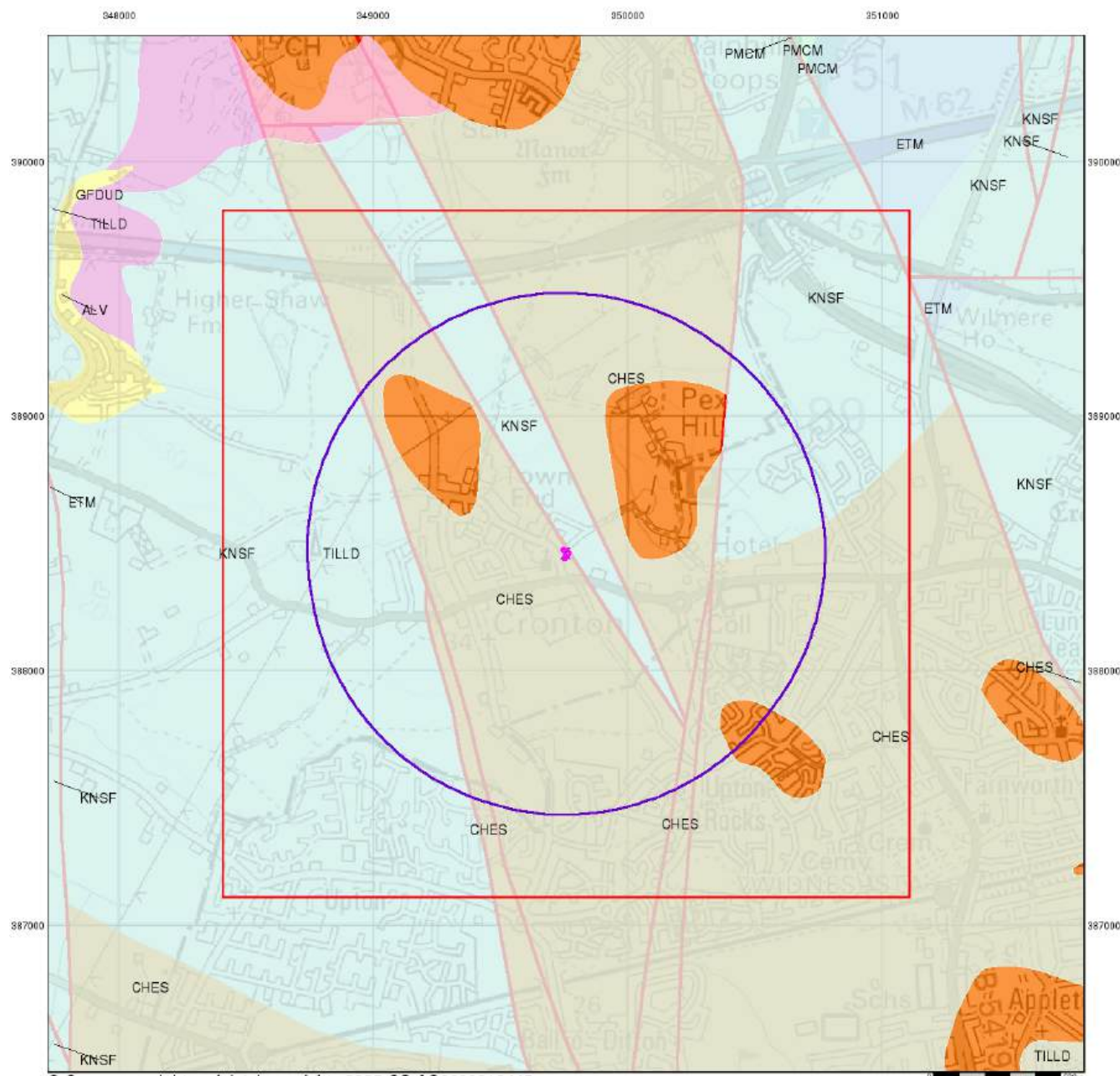


Order Details:

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Customer Reference: 34614LG
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Slice: A
Site Area (Ha): 0.08
Search Buffer (m): 1000

Site Details:

1, Mill Lane, Cronton, Widnes, WA8 5DT



Appendix B – Photographic Log

Photographic Log – Mill Cottage, Cronton



Plate 1- looking north east along the access road, showing the cottage (back right) remains of the fuel pump (centre) and wooden barns (rear)



Plate 2 - looking north east along access road, showing the cottage (right) and wooden barns (rear)



Plate 3 – showing rear yard area and wooden barn



Plate 4 – showing rear yard area and wooden barns



Plate 5 – looking west showing the cottage and rear yard



Plate 6 – Looking north showing the cottage



Plate 7 – Detail of former fuel pump



Plate 8 – Detail of former fuel pump

Appendix C – Detailed Site Historical Review

Appendix C - Detailed Historical Maps Review		
Date/Scale	Features On-site	Features Off-site
1849 - 1850 1:10,560	Although unclear due to the scale of the map, it appears the site is undeveloped.	The surrounding area is largely FIELD LAND with little else of note. A SANDSTONE QUARRY was noted approximately 330m north-east of the site.
1893 1:2,500	Features are now noted on site thought to be RESIDENTIAL PROPERTIES with one of these features thought to be the current cottage.	Little change is of note. The QUARRY is now noted as DISUSED and a small number of RESIDENTIAL PROPERTIES are now noted within a 100m radius of the site.
1907 1:2,500 1908 1:10,560	Additional BUILDINGS are now noted. The purpose of the other buildings is unknown but likely to residential or buildings associated with residential properties.	Little change is noted in the surrounding areas of the site other than a FARM noted approximately 80m south-west of the site.
1927 1:2,500 1928 1:10,560	No change is evident on site.	A CHURCH is noted approximately 20m south-west of the site. A SCHOOL is noted approximately 60m west of the site. RESIDENTIAL PROPERTIES & GARDENS are now noted immediately north and north-west of the site. There has also been a slight increase in RESIDENTIAL PROPERTIES approximately 140m east and 75m south.
1938 - 1939 1:10,560	No change is evident on site.	Little change is noted in the surrounding areas of the site.
1959 1:2,500	Three clear structures are now noted on site, including the current cottage and two other unknown property in the north-eastern and north-western corner.	A large POND is noted approximately 300m north-west of the site. No further changes were noted.
1967 - 1969 1:10,000 1969 1:2,500	Along with the cottage, what appears to be the current barn is now noted on the site.	There has started to become an increase in RESIDENTIAL PROPERTIES approximately 350m west of the site in the area known as Cronton.
1982 - 1985 1:2,500	No change is evident on site.	Little change is noted in the surrounding areas of the site.
1988 - 1990 1:10,000	No change is evident on site.	Little change is noted in the surrounding areas of the site.
1993 1:2,500	No change is evident on site.	Little change is noted in the surrounding areas of the site.

Appendix C - Detailed Historical Maps Review		
Date/Scale	Features On-site	Features Off-site
1999 1:10,000	No change is evident on site.	Little change is noted in the surrounding areas of the site.
2006 1:10,000	No change is evident on site.	There has been an increase in RESIDENTIAL PROPERTIES from approximately 580m south-east of the site. WIDNES SIXTH FORM COLLEGE is also noted approximately 600m east of the site. Farm building noted approximately 800m north-east of the site are now also noted as RESIDNETIAL PROPERTIES.
2024 1:10,000	No change is evident on site.	Little change is noted in the surrounding areas of the site.

Appendix D – Coal Mining Report (Report Reference: 51003471654001)



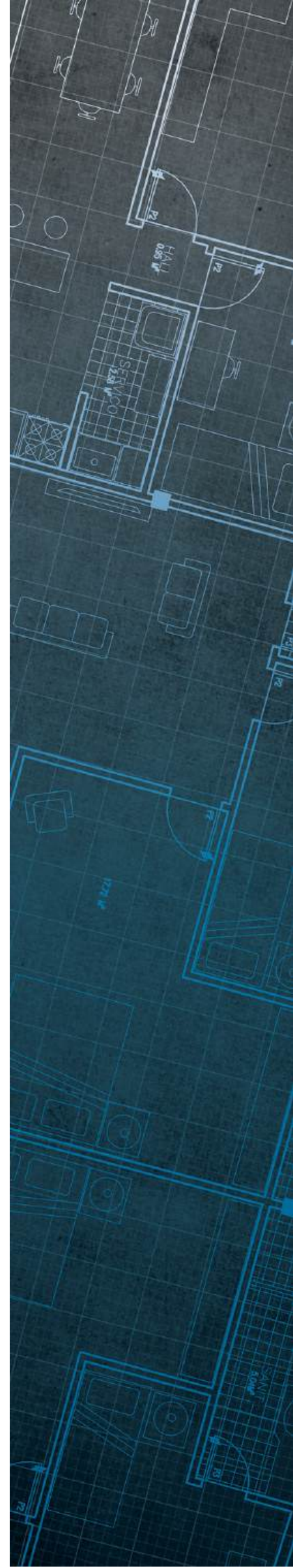
The Coal
Authority

Consultants Coal Mining Report

Mill Lane
1 Cronton
Widnes
Cheshire

Date of enquiry:	7 January 2025
Date enquiry received:	7 January 2025
Issue date:	7 January 2025

Our reference:	51003471654001
Your reference:	366551079_2



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

NLIS Hub

Enquiry address

Mill Lane
1 Cronton
Widnes
Cheshire

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

None available.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

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

Payments to owners of former copyhold land

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

Section 4 – Further information

Based on the responses in this report, no further information has been highlighted.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 

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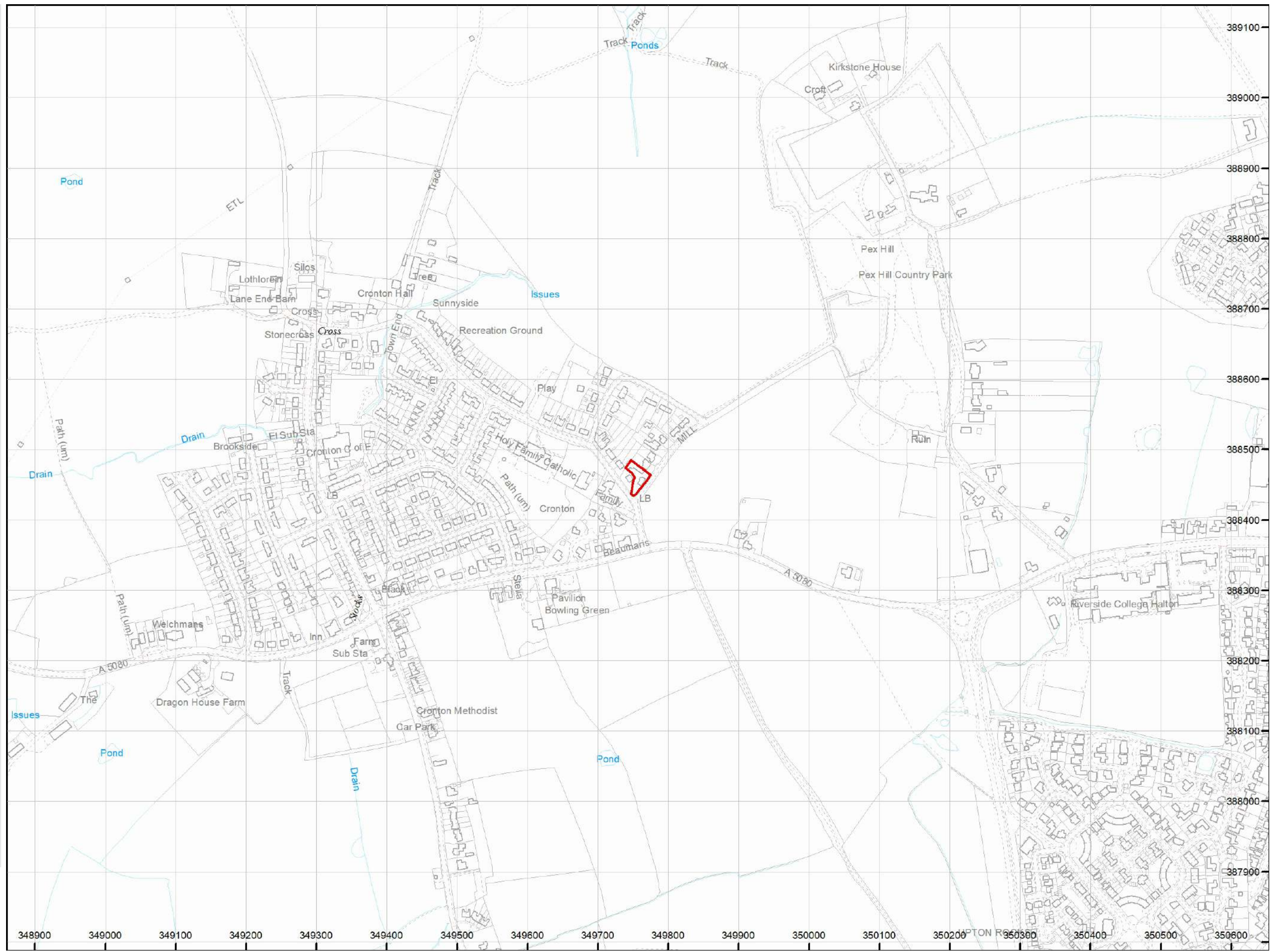
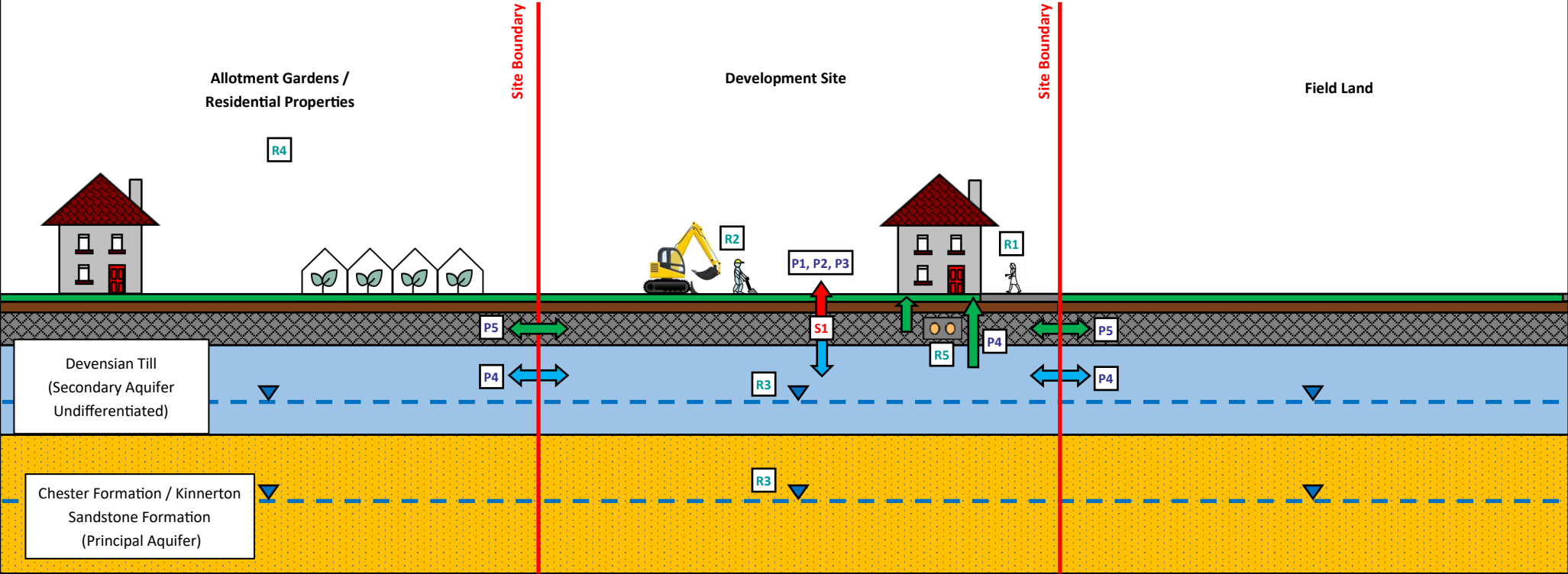


Figure 5 – Preliminary Conceptual Site Model

Preliminary Conceptual Site Model (CSM)



Contamination Source	
S1	Made Ground / Peat —Onsite
S2	Offsite Sources
Legend	
	Infilled / Made Ground
	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: Mr D Jelf		
	Project: 34614SUT-ZZ-00-RP-G-7101		
	Site: No. 1 Mill Cottage, Cronton		
Preliminary Conceptual Site Model (CSM)	Draft	1	Scale (at A3): Not to scale
	Issue	1	
Issuing Office: Liverpool	Drawing number: 5		Version: A
Telephone: 0151 227 3155			

Drawing Ref. – 1314-003 Proposed Site Plan



Key	
—	Site Boundary
---	Covenant land (02 Hall Lane access to service yard)
Schedule	
Plot Size	
Plot 01	271m2
Plot 01a	408m2
shared drive	93m2
Accommodation Schedule	
Plot 01	2B4P 72.1m2
Plot 01a	3B6P 101.4m2

Drawing Title: Proposed Site Plan - Roofs
Date: 12/04/2024
Drawing no: 1314-003
Scale: 1:200 @ A3
Drawn: EC

revision: D
revision notes: D 24/12/2024 Alterations following Pre App comments.
C 08/10/2024 Alteration to proposed dwelling to single storey following Case Officer's comments
B 11/09/2024 Reduction of height of secondary element to single storey



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