



**PHASE I PRELIMINARY RISK
ASSESSMENT
ON LAND AT DALZELL STREET
MOOR ROW
(DEVELOPMENT PHASE 2)**

Prepared for:-

**Nigel Kay Homes Ltd
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Table of Contents

1.0	INTRODUCTION.....	1
1.1	Instruction.....	1
1.2	Scope of Works.....	1
1.3	Previous Investigations.....	1
1.4	Reliance and Limitations.....	2
2.0	SITE LOCATION AND DESCRIPTION.....	4
2.1	Site Location.....	4
2.2	Site Reconnaissance.....	4
2.3	Site Description.....	4
2.4	Surrounding Area.....	4
2.5	Future Site Usage.....	4
3.0	SITE HISTORY	5
3.1	General	5
3.2	Aerial Photography.....	5
4.0	ENVIRONMENTAL SETTING.....	8
4.1	General	8
4.2	Published Geology.....	8
4.3	Potential Contamination Sources.....	9
4.4	Radon.....	9
4.5	Hydrogeology.....	10
4.6	Hydrology.....	11
4.7	Mining, Minerals and Geological Hazards.....	11
4.8	Environmentally Sensitive Sites.....	12
5.0	PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT.....	13
5.1	Introduction.....	13
5.2	Risk Assessment Methodology.....	13
5.3	Outline Conceptual Site Model.....	13
5.4	Preliminary Risk Assessment.....	15
6.0	PRELIMINARY MINING RISK ASSESSMENT	20
6.2	Objectives of Risk Assessment.....	20
6.3	Potential Risks Associated with Historic Coal Mining.....	21
6.4	Assessment Criteria.....	21
6.5	Conclusions.....	22
6.6	Recommendations.....	22
7.0	PRELIMINARY GEOTECHNICAL ASSESSMENT.....	23
7.1	General	23
7.2	Discussion	24
8.0	CONCLUSIONS AND RECOMMENDATIONS	25
8.1	Conclusions.....	25
8.2	Recommendations.....	25
8.3	Other Considerations.....	26

9.0	REFERENCES.....	27
9.1	Legislation and Policy.....	27
9.2	Regulator / Government Guidance	27
9.3	Standards and Specifications	27
9.4	Data sources	27

List of Tables

Table 2.1:	Site Surface Covering.....	4
Table 3.1:	Site History	6
Table 4.1:	Sources of Information.....	8
Table 4.2:	Published Geology.....	8
Table 4.3:	Potential Geological Hazards.....	12
Table 5.1:	Preliminary Conceptual Site Model and Potential Pollutant Linkages	18
Table 6.1:	Known Worked Coal Seams.....	20
Table 6.2:	Alternative Cover of Greater Than or Less Than 10 x t.	21
Table 6.1:	Potential Geotechnical Risks	23

APPENDICES

Appendix	Information
A	Drawings
B	Historical Mapping Records
C	Envirocheck Report
D	Coal Mining Report
E	Risk Assessment Matrix

1.0 INTRODUCTION

1.1 Instruction

- 1.1.1 GeoCon Site Investigations Ltd (GeoCon) have been commissioned by Nigel Kay Homes (“the client”) to undertake a Phase I Preliminary Risk Assessment (PRA) on land at Dalzell Street, Moor Row (relating to the proposed development Phase 2).
- 1.1.2 It is understood that a PRA is required to assist with a planning application for a proposed residential at the site.
- 1.1.3 This report is therefore provided to establish the potential for contamination at the site as a result of current and historic land uses both on site and within influencing distance of the site, to understand the potential type of contamination that may be present; and, to identify the potential ground conditions ; and, to establish the potential risks from shallow mining.
- 1.1.4 This Phase I PRA report has been prepared using a source–pathway–receptor conceptual site model and risk management framework in general accordance with Land Contamination Risk Management (LCRM), supported by relevant UK best practice guidance. Supporting documents include the Environment Agency’s Guiding Principles for Land Contamination (GPLC 1–3), CIRIA C552, and the National Planning Policy Framework.

1.2 Scope of Works

- 1.2.1 Prior to commencing the site works the proposed scope of investigation was as follows, however the proposed scope will be subject to change dependent upon site conditions, access, restrictions and obstructions.
 - To appraise the land use history of the site by the examination of available historical plans.
 - To assess the environmental setting of the site with specific reference to geology, mining & quarrying, hydrogeology and hydrology.
 - To gain an understanding of any concerns of the regulatory authorities (Local Authority Planning, Building Control and Environmental Health departments and the Environment Agency) regarding local land filling, flooding, mining, quarrying and other concerns.
 - To produce a Preliminary Conceptual Site Model (CSM).

1.3 Previous Investigations

- 1.3.1 GeoCon have not been provided with any previous investigation reports for the site area and are unaware that any have been carried out to date.
- 1.3.2 A Phase I risk assessment and mining minerals assessment was completed for the adjacent site (Development Phase I). The key findings identified Montreal Colliery and potential pillar coal mining to the north (potentially beneath the site) and wider iron ore mining activities east of the River Keekle and south of the railway yard to the south. The historical review indicated that the existing agricultural field had remained in the same condition since the earliest mapping records, with mining in the wider site area to have ceased by 1920. The railway infrastructure was no longer present by 1980s. The report identified potential contamination within the footprint of the historical railway infrastructure that may pose a risk to human health.
- 1.3.3 A subsequent Phase II and intrusive mining investigation was completed by GeoCon on the adjacent site. The findings indicated that the underlying geology to be topsoil overlying clay to depths between 1.00 and 3.00m. Underlying this was alluvium gravel and cobbles to depths between 4.00 and 12.00mbgl with

underlying bedrock noted as interbedded sandstone and mudstone with limestone in places. Coal was encountered within the former railway yard at the southern and southeastern extents contained shallow intact coal between 22.50 to 23.50mbgl and deeper coal at 36.00 to 39.00mbgl in RO2, and between 44.30 and 45.50mbgl in RO3b, with no other shallow coal or mining features encountered across the site area towards the Development Phase 2 site area and to the west. A gas risk and radon risk was identified with the source attributed to the underlying alluvium and radon containing bedrock deposits. The agricultural field, which is the same field of the Development Phase 2 area, was considered greenfield with natural soils present.

- 1.3.4 A remediation strategy was also completed for the site, with gas protection measures required in construction of new dwellings across the site area, including full radon protection measures. The historical railway land required remedial action with regards to contaminated soils, with a clean cover system required soft landscaped areas within the historical footprint of the railway yard only.

1.4 Reliance and Limitations

- 1.4.1 This report has been prepared using published information and information provided by the Client and their professional advisers which has been made available to GeoCon at the time of writing only. GeoCon accepts no liability for any changes resulting from new information which has become available since this time.
- 1.4.2 This report is provided for the sole use of the client and their professional advisors and is confidential to them unless agreed otherwise in writing. This report may only be used and relied on once the work has been paid for in full. GeoCon owes no duty of care and has no liability to any third party who is not authorised by GeoCon to use this report. Any unauthorised third parties using information contained in this report do so at their own risk.
- 1.4.3 This assessment has been carried out to determine the potential risks posed to future end users, along with other key receptors, resulting from potential contamination at the site, based on the proposed development. Should any revisions in the development proposals result in a change in any assessment parameters detailed in this report, a re-assessment of the risk should be carried out.
- 1.4.4 Whilst this report may reference observations made regarding the presence of features/ issues such as invasive species, Asbestos Containing Materials (ACM), site drainage and evidence of structural abnormalities, this report does not constitute specialist surveys on these matters. Should further specialist surveys be carried out in this regard, the findings of these should be reported to GeoCon so that we may determine if this has any impact on the findings of this report.
- 1.4.5 The assessment and interpretation of the factual data obtained as part of this Phase I Preliminary Risk Assessment has been undertaken in accordance with standard consulting practice and with current national and international guidance.
- 1.4.6 This report presents the observations made during the Phase I Preliminary Risk Assessment and the factual data obtained. The conclusions and recommendations in this report are limited to those which can be made based on the findings of the survey and information provided by third parties. GeoCon assumes all third-party data to be true and correct. No responsibility can be accepted by GeoCon for inaccuracies in the information provided by any other party.
- 1.4.7 This report is written in the context of an agreed scope of works and should not be used in a different context. Furthermore, new information, improved practices, and changes in legislation may require the reinterpretation of the report in whole or in part after its original issue. GeoCon reserve the right to alter their conclusions and recommendations in the light of further information that may become available.

- 1.4.8 It should be noted that ground conditions including contaminant concentrations and groundwater levels may vary spatially with time. This factor should be given due consideration in the event that the information contained within this report is used after any significant period of time has elapsed.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Site Location

2.1.1 The site is located on land at Dalzell Street, Moor Row, at approximate National Grid Reference NGR: 300620, 514750 (centre of the site).

2.1.2 A site location plan is presented as Drawing No. GSI 2573/01 in Appendix A.

2.2 Site Reconnaissance

2.2.1 A site reconnaissance was completed during the Phase II site investigation for the adjacent site, which shares the same field area inspected. No contaminative features were identified during the walkover.

2.3 Site Description

2.3.1 The site is an irregular shaped piece of land with an approximate area of 3.22Ha.

2.3.2 The topography of the site gradually falls to the north, with a slope present to the east down to the River Keekle.

2.3.3 The site is currently undeveloped agricultural land, with grass covering the site area. A drainage ditch is present at the northern site extents, and an area of waterlogged ground in the north and eastern site areas.

2.3.4 An approximate distribution of the surface covering is given below in Table 2.1: Site Surface Covering.

Table 2.1: Site Surface Covering

Type of Surface Cover	Distribution (%)
Soft Ground (grassed and landscaped areas)	100
Hardstanding	-
Roadways	-
Buildings	-
Water (ponds, streams)	-

2.3.5 The site is bound by the River Keekle to the east, a fenceline with sporadic mature trees to the west, a drainage ditch to the north and the southern border, previously undefined, is now the northern extent of a residential development.

2.3.6 Access to the site is via Dalzell Street to the east of the site, and through access roads of the under-construction residential development.

2.4 Surrounding Area

2.4.1 The current surrounding land use to the site is agricultural in all directions, with exception of a residential development to the south presently under construction, and Moor Row village beyond.

2.4.2 The topography of the surrounding area is typical of a river valley, generally falling to the north and to the east River Keekle.

2.5 Future Site Usage

2.5.1 It is currently proposed to construct a residential housing estate with soft landscaped gardens and associated access roads and infrastructure. No proposed development plans have been made available to GeoCon at this time.

2.5.2 This assessment has been carried out with reference to this proposed development description as provided by the client. Any changes to the proposed development may result in this assessment required to be updated accordingly.

3.0 SITE HISTORY

3.1 General

- 3.1.1 The history of the site has been determined from available historical maps obtained as part of the Envirocheck Report and via the Envirocheck Analysis online historical mapping tool. The history of the site and of the surrounding area is summarised overleaf in Table 3.1: Site History. It should be noted that some of the maps come with little to no coverage.
- 3.1.2 The information presented overleaf in Table 3.1: Site History, is given based on the distance and direction from the closest point of each feature to the site. The table presents the data broken down into the following categories: - feature; the potential use of each feature where applicable; the date each particular feature is first observed; the direction of each feature from the site; the approximate distance of each feature from the site; the approximate area of each feature; and any other relevant information regarding the site and surrounding area in general.
- 3.1.3 The historical mapping records are presented in Appendix B.

3.2 Aerial Photography

2000 Aerial Photograph:

- 3.2.1 The 2000 aerial photograph show the site to be open green undeveloped agricultural land set within a wider agricultural setting in all directions, with an active depot present to the south and Moor Row beyond. Footpaths are present along the routes of the former railways.

Recent Aerial Photograph:

- 3.2.2 Recent aerial photography shows the site has not changed since previous aerial photography.

Table 3.1: Site History

Feature	Date first observed	Date no longer shown	Direction (from site)	Distance (from site)	Area (m²)	General notes
Undeveloped Agricultural Land	1863	Present	-	On site	-	NA
Stream	1863	Present	-	On site	52	Issues to the west and sinks to the east
Overhead Power line	1956	Present	-	On site	-	NA
Former River Channel	1863	Present	E	3	-	Shown on mapping records as dry, eventually becoming vegetated
Unknown Feature	1899	1962	NE	5	59	Suspected shaft on route of footpath
River Keekle	1863	Present	E	33	-	Engineered and redirected form natural channel
Depot	1979	2013	SE	64	496	NA
Nor Beck	1863	Present	E	64	-	Tributary to River Keekle
Engine Shed	1899	1967	S	66	10257	Railway sidings and tank present, engine shed no longer present by 1962, railway dismantled by 1967
Unknown feature	1899	1979	N	66	59	Suspected shaft
Depot	1979	2013	SW	74	1262	NA
Sewage works	1925	1979	NE	90	5832	Filter beds, tanks and ponds present
Railway	1863	1985	S	103	10140	Engine shed and sidings present
Residential estate	1994	Present	S	121	20347	NA
Railway Station	1863	1985	SW	122	-	NA
Residential Properties	1899	Present	S	141	4658	Moor Row
Scrap yard	1979	1985	E	166	4617	NA
Reservoirs	1899	1956	E	167	270	Potentially infilled with unknown material
Mineral railway	1899	1979	E	196	-	NA
Pit No. 12	1899	1956	SE	197	1093	Mine shaft with railway and infrastructure forming part of Montreal Iron Ore Mine
Pit No. 4	1899	1956	E	202	842	Mining related to Montreal Iron Ore Mine with railway and infrastructure, disused by 1963
Pond	1962	Present	SE	224	193	NA
Old Mine Shaft (Iron ore)	1899	1962	S	234	39	No longer present from 1962
Site and surrounding area in general	From the earliest mapping records the site is undeveloped agricultural land and has remained in this configuration until present day. From the late 1800's mining activities to the east of the River Keekle and to the south of the railway yard is present, with a railway junction, engine shed and goods yard present until 1980s. Two features north of the site along a footpath are considered attributed to potential mining activities and suspected to be air shafts. Mining beyond the river and south of the railway features a number of iron ore pits and mining infrastructure which are served by mineral railways. The wider site remains in use as agricultural land, with exception to the development of a sewage					

Feature	Date first observed	Date no longer shown	Direction (from site)	Distance (from site)	Area (m²)	General notes
						works. By 1930s the mines appear to no longer be operational, and by 1980s there is little sign left of the mining features with all railways now disused and removed. It is noted by this time that the River Keekle immediately east of the site has been redirected into a straight channel, with the former river meander remaining present but no longer the main channel of flow. In 2025 the site area immediately to the south is a residential estate under construction presently.

4.0 ENVIRONMENTAL SETTING

4.1 General

- 4.1.1 A number of third parties have been approached to collate information relating to the site, its environmental setting, and any issues pertaining. The following third-party sources have been utilised which are outlined below in Table 4.1: Sources of Information:

Table 4.1: Sources of Information

Source	Information
Landmark	Envirocheck Report Geology Report Mining & Ground Stability Report
British Geological Survey (BGS)	BGS Open Geoscience online geological mapping tool
Ordnance Survey	OS Open Data online mapping tool
Mining Remediation Authority	Online Gazetteer of England and Wales Coal Mining Report Consultants Coal Mining Report Mining Remediation Interactive Viewer
Environment Agency (EA) Online	Water Quality Data and Aquifer designation

- 4.1.2 The Landmark Envirocheck report is provided in Appendix C.

4.2 Published Geology

- 4.2.1 The British Geological Survey shows the site to be underlain by the geological succession outlined below in Table 4.2: Published Geology.

Table 4.2: Published Geology

Geology	Description /strata	BGS General Description (Lexicon)
Artificial	None recorded	NA
Superficial	Till (Devensian)	"Consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape (diamicton)."
Bedrock	Whitehaven Sandstone Formation	"Comprises red to deep purple or purplish brown, cross-bedded, micaceous, medium- to coarse-grained sandstone. There are interbeds of pink to red or grey mudstone and siltstone are present locally."
	Brockram	"Matrix and clast-supported breccias; clasts range from small pebble to cobble; the matrix is variously clay, silt and/or sand. The clasts reflect the local source rocks."

- 4.2.2 There is a geological fault located immediately east of the site and orientated north-northwest to south-southeast, dipping to the east.
- 4.2.3 There are borehole records available for the adjacent site which GeoCon completed. Topsoil overlying dense gravel and cobbles were encountered to depths of 12.00mbgl, overlying limestone or sandstone interbedded with mudstone. No shallow coal was present within the agricultural field, but shallow intact coal was present in the southeast in the former railway yard at a depth of 22.50mbgl measuring 1.00m in seam thickness.

4.3 Potential Contamination Sources

4.3.1 The following potential sources of contamination have been identified.

Fuel Storage

4.3.2 There are no fuel station entries within 500m of the site.

Contemporary Trade Directories

4.3.3 There is one contemporary trade directory within 250m of the site, located 150m southwest related to reclaiming waste products but noted as inactive.

Environmental Pollution Measures

4.3.4 There is one Local Authority Pollution Prevention and Controls within 250m, located 79m southwest related to Station Yard for the blending, packing and use of bulk cement.

4.3.5 There are no hazardous substance uses recorded within 500m of the site.

Landfills and Waste

4.3.6 There are no licensed waste management facilities, local authority recorded landfill sites, registered landfill sites, registered waste transfer sites or registered waste treatment or disposal sites within 250m of the site boundary.

4.3.7 There is one BGS recorded landfill sites and two historical landfill sites Further details are given below:

BGS Recorded Landfill Sites

- Crossfield Tip, 198m southeast – no dates or waste information available.

Historical Landfill Sites

- Crossfield Tip, 198m southeast – first input 1970, deposited waste included commercial waste.
- Montreal Mine, 215m east – first input 1977, deposited waste included industrial, commercial and household waste.

4.3.8 It should be noted that the listings above may represent the same landfill site that has been registered in more than one category.

4.3.9 Information provided by Landmark's Environmental Database indicates that there are two areas within 250m of the site where the potential for infilling is possible. These include former pits or quarries that may have been infilled within unknown materials, located 136m southeast and 238m south, which were both last mapped in 1972.

4.3.10 There are two areas identified on the historical maps within 250m of the site where the potential for infilling is possible which include former pits that are no longer shown on more recent maps indicating that they may have been infilled within unknown materials. These relate to the two features identified along the footpath 5m north and 25m north of the site, last mapped in 1962 and 1979, respectively.

4.3.11 Made Ground is unlikely to be present on the site.

4.4 Radon

4.4.1 The UK Health Security Agency (UKHSA) and the British Geological Survey (BGS) online viewer <https://www.ukradon.org/information/ukmaps> and the Building Research Establishment Report BR211

“Radon: Guidance on Protective Measures for New Dwellings” 2023, indicates that the site is located within an area where the maximum radon potential is 5 – 10%.

4.4.2 According to the latest UKHSA/BGS radon potential map (as published on UKradon.org), the site falls within a radon-affected zone where basic radon protective measures are required under current building regulations.

4.4.3 This assessment has been informed by the UKradon.org radon potential data, which provides the estimated probability of radon levels above the UK action level for the 1 km grid square containing the site.

4.5 Hydrogeology

Superficial Deposits

4.5.1 The Environment Agency aquifer classification scheme indicates that the superficial aquifer designation for the site is classed as Secondary Undifferentiated aquifer which are generally described as having been *‘assigned in 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.’* (EA general description).

4.5.2 The eastern site boundary indicates that the superficial aquifer designation at the boundary and beyond to the east is classed as Secondary A aquifer which are generally described as *‘permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers’* (EA general description).

Bedrock

4.5.3 The Environment Agency aquifer classification scheme indicates that the bedrock aquifer designation for the site is classed as Secondary A aquifer which are generally described as *‘permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers’* (EA general description). This relates to the northwestern site area.

4.5.4 The Environment Agency aquifer classification scheme indicates that the bedrock aquifer designation for the site is classed as Principal Aquifer which are generally described as *‘these are 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’* (EA general description). This relates to the south and eastern portion of the site.

Groundwater Abstractions

4.5.5 There are no licensed groundwater abstraction points within 1000m of the site.

4.5.6 There are no public drinking water abstractions within 2000m of the site.

4.5.7 It is possible that there may be private unlicensed water abstractions that exist locally in the area.

4.5.8 There are no Source Protection Zones (SPZ) within 2000m of the site.

4.6 Hydrology

- 4.6.1 The nearest surface watercourse is a small stream that issues at the northwest boundary of the site and follows the northern site boundary eastwards where it sinks. It is suspected to be in hydraulic connectivity to the River Keekle located 33m east of the site, flowing north to south.
- 4.6.2 There are two active discharge consents within 250m of the site. Further details are as follows:
- Storm sewage overflow into the River Keekle, located 92m southeast.
 - Storm sewage overflow into the River Keekle, located 107m east.
- 4.6.3 There are three pollution incidents to controlled waters within 250m of the site. Further details are as follows:
- Category 3 minor incident, located 79m southwest, relating to accidental spillage of oils/diesel into a tributary of River Keekle in 1994.
 - Category 2 significant incident, located 119m southeast, relating to unknown sewage into the River Keekle in 1993.
 - Category 3 minor incident, located 248m southeast, relating to unknown sewage into the River Keekle in 1993.

Surface Water Abstractions

- 4.6.4 There are no licensed surface water abstraction points within 500m of the site.
- 4.6.5 It is possible that there may be private unlicensed water abstractions that exist locally in the area.

Flooding

- 4.6.6 There is limited potential for groundwater flooding to occur at the site.
- 4.6.7 Land to the north and the east is at risk of extreme flooding from the river without defences (Zone 2).

4.7 Mining, Minerals and Geological Hazards

- 4.7.1 There are four BGS recorded mineral sites within 250m. Further details are as follows:
- Montreal Iron Ore Mine, Pit No 12: Underground mining (ceased), located 211m southeast.
 - Montreal Iron Ore Mine, Pit No 4: Underground mining (ceased), located 224m east.
 - Montreal Iron Ore Mine, Pit No 4 (Air Pit): Underground mining (ceased), located 238m east.
 - Montreal Iron Ore Mine, Pit No 4 (Air Pit): Deep underground coal mining (ceased), located 238m east.
- 4.7.2 The Mining Remediation Authority and Envirocheck Report indicates that the site is located within a coal mining area and that a Coal Mining report should be obtained for the site. Subsequently a Coal Mining report has been commissioned for the site; and the details are given in Section 6.0.
- 4.7.3 The risk from coal mining is considered high.
- 4.7.4 A risk from non-coal mining is present and further investigation is required.
- 4.7.5 The British Geological Survey provide risk ratings for the potential geological hazards outlined below in **Error! Reference source not found..**

Table 4.3: Potential Geological Hazards

Potential Geological Hazard	Hazard Potential
Collapsible Ground	Very low
Compressible Ground	Moderate
Ground Dissolution	No hazard
Landslides	Very low
Running Sands	Low
Shrinking or Swelling Clay	Very low

4.8 Environmentally Sensitive Sites

4.8.1 There are no significant environmentally sensitive sites within 250m of the site.

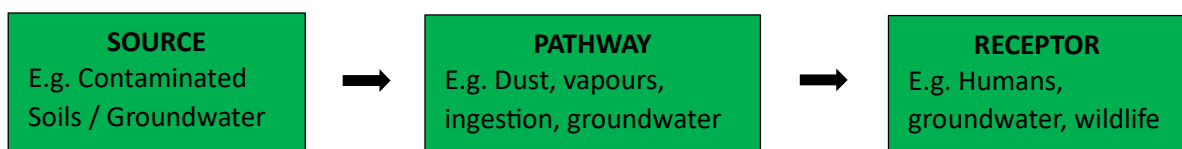
5.0 PRELIMINARY ENVIRONMENTAL RISK ASSESSMENT

5.1 Introduction

- 5.1.1 In statutory guidance regarding potentially contaminated land, risk assessments are used as a technique on a site-specific basis to identify potential environmental issues. As recommended by BS 10175 an Initial Conceptual Generic Model has been formulated which defines the 'pollutant linkage' through source, pathway and receptor methodology. All three must be present in order to pose a risk to the end users and to the environment; i.e., if there is no pathway between the source and the receptor, then there is no 'pollutant linkage' and hence negligible risk to the receptor.

5.2 Risk Assessment Methodology

- 5.2.1 The purpose of a Phase I Preliminary Risk Assessment (PRA) is to obtain information regarding the site to gain a preliminary understanding of potential environmental issues and the potential for land contamination. This information includes existing and proposed site uses, the history of the site and surrounding area, and the environmental setting. The information obtained is used to develop a Conceptual Site Model (CSM), which describes sources (potential hazards), pathways, and receptors, which may be relevant to the site. The following definitions have been adapted from Part IIA of the Environmental Protection Act (EPA) 1990:



- 5.2.2 **Source** – A source can be defined as a potential contaminant, substance, or condition that has the potential to cause harm to the environment, humans or other flora and fauna.
- 5.2.3 **Pathway** – A pathway is defined as the route by which a source is brought into contact with a receptor. This can include the transport of contamination via groundwater, wind borne dust, vapours, excavation and deposition, dermal contact, ingestion and inhalation.
- 5.2.4 **Receptor** – Receptors are defined as anything that can be affected by a source such as human beings, flora and fauna, other living organisms, groundwater and surface water, physical systems and built structures.
- 5.2.5 Some of the above, such as groundwater, surface water, flora, and fauna can be considered as both pathways and receptors.
- 5.2.6 A risk may be considered present if all three of the above exist and thereby form a “**pollutant linkage**”.

5.3 Outline Conceptual Site Model

- 5.3.1 As part of this Phase I Preliminary Risk Assessment, the following potential sources, pathways and receptors have been considered and are discussed below.

Potential Sources (on and off site):

- 5.3.2 The following are potential sources of contamination that have been considered: -

- ▲ Made Ground / reworked soils and rock beneath the site associated with construction and demolition on site and of the surrounding area.

- Potential for contamination to have occurred at the site as a result of historical and contemporary land uses and processes on the site and within influencing of the distance.
- Potential for mobile and leachable contamination at the site associated with historical and contemporary land uses and processes both on site and within influencing of the distance.
- Potential for volatile and semi-volatile contamination at the site associated with historical and contemporary land uses and processes both on site and within influencing of the distance.
- Historic electrical substations on the site and within influencing of the distance.
- Potential for hazardous ground gasses associated with any Made Ground, landfill sites and other areas of potentially infilled land both on site and within influencing distance of the site.

Potential Pathways

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

- Ingestion of contaminated soils.
- Inhalation of site generated particulates.
- Dermal contact with contaminated materials.
- Ingestion of home grown produce.
- Inhalation of hazardous ground gasses.
- Build-up of hazardous ground gasses in confined spaces.
- Groundwater.
- Surface water courses within influencing of the distance.

Potential Receptors

5.3.4 The following potential receptors have been identified:

- Current site end users.
- Future site end users.
- Construction workers.
- Members of the public and neighbouring site users.
- Neighbouring land.
- Aquifers and drinking water.
- Surface water courses within influencing of the distance.
- Flora and fauna.
- Other ecosystems.

5.4 Preliminary Risk Assessment

- 5.4.1 The Preliminary Risk Assessment has been evaluated using a probability / consequence matrix, which is provided in Appendix E.
- 5.4.2 The proposed development comprises construction of a residential housing estate complete with soft landscaped gardens and associated access roads and infrastructure.
- 5.4.3 The underlying geology of the site and surrounding area is indicated to be Till overlying breccia and sandstones of the Whitehaven Sandstone Formation or Breckam which are of low to medium permeability respectively.
- 5.4.4 The following risk assessment has been based on the above information and the proposed development as detailed in Section 2.0.
- 5.4.5 The discussion below assesses the likelihood of potential Contaminants of Concern (CoC's) with a justification on whether they would likely be present.
- 5.4.6 The CSM in Table 5.1 then provides a risk rating for the site.

Land Contamination

- 5.4.7 From the information available, the site itself has had no historical use. It is therefore unlikely that Made Ground will be present beneath the site. Therefore, the probability for heavy metals, metalloids & inorganics, and PAH to be present on or beneath the site is considered to be **unlikely**.
- 5.4.8 No historical or contemporary land uses likely to produce mobile, organic and leachable contamination both on the site and within influencing distance have been identified. Therefore, the probability for mobile, organic and leachable contamination to be present at the site is considered to be **unlikely**.
- 5.4.9 No historical and contemporary land uses likely to produce volatile contamination (VOC's & SVOC's) both on the site and within influencing distance have been identified. Therefore, the probability for VOC's & SVOC's to be present at the site is considered to be **unlikely**.
- 5.4.10 There are no known electric substations or other sources of Polychlorinated Biphenyls contamination (PCB's) within influencing distance of the site. Therefore, the probability for PCBs to be present at the site is considered to be **unlikely**.
- 5.4.11 It is possible that further electric substations or former electric substations are present within influencing distance to the site associated with the surrounding area that have not been identified on the historical maps.
- 5.4.12 Asbestos fibres and Asbestos Containing Materials (ACM's) could be present within any Made Ground and or shallow natural soils beneath the site as a result of historic site uses, and phases of construction and demolition. Therefore, the probability for ACM's to be present at the site is considered to be **unlikely**.
- 5.4.13 Based on the above, the site history, and the environmental information available, the potential contaminants identified on this site are unlikely to include heavy metals, metalloids & inorganics, PAH's; and asbestos, and the risk to human health is considered to be **Very Low** at this stage.

Hazardous Ground Gases and Vapours

- 5.4.14 There are no mine entries within 100m of the site, however, the site may be affected by shallow underground mining which may give rise to mine gas.
- 5.4.15 There are two historical landfills within 250m of the site, however, they are located east of the River Keekle and high elevation than the site, therefore the risk from these features is negligible. There are two identified areas of infilled land, however, given the dates of infilling these are not considered a viable source of gas generation.
- 5.4.16 Gas monitoring undertaken on the adjacent site indicated the natural gravels present beneath the site give rise to some gas generation and a Characteristic Situation 2 was assigned the site, with gas protection measures necessary. Basic Radon measures were also required.
- 5.4.17 Considering the distances between the features and the site, and the variable permeability of the underlying geology beneath the site, the probability of hazardous gases being present beneath the site is likely, and therefore the risk from hazardous ground gases is considered to be **Moderate**.
- 5.4.18 Landmark indicates that the site is within an intermediate probability radon area, with 5-10% of homes above the action level. Therefore, basic radon protection measures are necessary in the construction of new dwellings or extensions.

Groundwater

- 5.4.19 The superficial aquifer was designated as Superficial A at the eastern extents and Unproductive over much of the site area. The underlying bedrock aquifer was designated as principal aquifer across much of the site, with remaining site area classified as Secondary A aquifer.
- 5.4.20 The potential contaminants identified on this site include heavy metals, metalloids and inorganics; PAH's.
- 5.4.21 Based on the above, the environmental information available, and considering the variable permeability of the underlying geology, the absence of the nearest potable groundwater abstraction point and associated SPZ, the probability for contamination at the site to impact the groundwater is unlikely, and therefore the risk to groundwater is considered to be **Very Low** at this stage.

Surface Water

- 5.4.22 The nearest surface water receptor to the site is a small stream along the northern boundary which connects to the River Keekle 33m east of the site.
- 5.4.23 No historical activities are recorded on the site which may give rise to contamination. It is considered that construction activities may impact these receptors due to ingress of silts, therefore it is required that all construction activities must include for silt trap and barriers to protect the surface waters.
- 5.4.24 Based on the above, the environmental information available, and implementation of silt traps during construction works, and the proximity of the nearest surface water feature, the probability for contamination at the site to impact the surface water courses is unlikely, and therefore the risk to surface water courses is considered to be **Very Low** at this stage.

Plants and Native Grasses

- 5.4.25 Any plants that may be grown at the site in areas of landscaping may potentially be at risk from phytotoxic elements in any artificial soils beneath the site.

- 5.4.26 All plant growth appeared normal across the site during the site reconnaissance.
- 5.4.27 Based on the above, the site history, and the environmental information available, the potential contaminants identified on this site may include heavy metals, metalloids & inorganics, the risk to plants is considered to be **Very Low** at this stage.

Water Supply / Plastic Pipes

- 5.4.28 Any organic contamination present in the soils or groundwater beneath the site would pose a risk of premature failure to below ground services via chemical reaction.

Preliminary Conceptual Site Model

- 5.4.29 From the above information a CSM has been produced showing the preliminary conceptual model and potential pollutant linkages for the site and is presented overleaf in Table 5.1: Preliminary Conceptual Site Model and Potential Pollutant Linkages.
- 5.4.30 At this stage only contaminants of concern that are considered potentially present from the information available have been included in the CSM.

Table 5.1: Preliminary Conceptual Site Model and Potential Pollutant Linkages

Potential Sources	Contaminants of Concern	Potential Pathway	Potential Receptor	Potential Pollutant Linkage	Probability	Consequence	Risk Classification	Action / Mitigation / Justification
Made Ground both on site and within influencing distance of the site Current and former land uses both on site and within influencing distance of the site	Heavy metals, sulphates and inorganics PAH's Asbestos	Ingestion Inhalation Dermal Contact	Human health Including current site users, future site users	Considered potentially active	Unlikely	Mild	Very low	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.
			Human health Construction workers	Considered potentially active	Unlikely	Mild	Very low	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.
			Human health Neighbouring residents	Considered potentially active	Unlikely	Mild	Very low	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.
Landfill sites Potentially infilled Land (ponds, quarries, reservoirs etc) Made Ground Natural organic soils Coal mining Fuel Stations (on and off-site sources)	Hazardous ground gases including CO₂, CH₄ CO, H₂S Vapours	Inhalation Explosion	Human health Including current site users, future site users, neighbouring residents and constructions workers Buildings	Considered potentially active	Likely	Severe	Moderate	Site investigation to install gas monitoring wells with subsequent monitoring in accordance with CIRIA 665 should be carried out at the site.
Made Ground on site Current and former land uses on site	Heavy metals, sulphates and inorganics	Lateral and vertical migration and leaching of contaminants into local groundwater	Underlying Aquifer (Potable water)	Considered potentially active	Unlikely	Mild	Very low	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.

Potential Sources	Contaminants of Concern	Potential Pathway	Potential Receptor	Potential Pollutant Linkage	Probability	Consequence	Risk Classification	Action / Mitigation / Justification
Made Ground on site Current and former land uses on site	Heavy metals, sulphates and inorganics	Lateral and vertical migration and leaching of contaminants into surface water bodies via permeable strata and features.	Local water courses and associated flora and fauna	Considered potentially active	Unlikely	Mild	Very low	No historical activities are recorded on the site which may give rise to contamination. It is considered that construction activities may impact these receptors due to ingress of silts, therefore it is required that all construction activities must include for silt trap and barriers to protect the surface waters
Made Ground beneath the site Current and former site uses	Phytotoxic elements	Plant uptake	Plants and vegetation	Unlikely	Unlikely	Mild	Very low	No further action, however, if Made Ground or any visual or olfactory evidence of contamination is encountered on site then this risk will need to be reassessed.

6.0 PRELIMINARY MINING RISK ASSESSMENT

6.1.1 The Mining Remediation Authority indicates that the site is located within a coal mining area and that a Mining Remediation Authority mining report is required for the site. Subsequently a Consultants Mining Remediation Authority mining report has been commissioned for the site; and the details are summarised below.

6.1.2 There are seven coal seams beneath the site that have been worked in the past. Further details are given below in Table 6.1: Known Worked Coal Seams.

Table 6.1: Known Worked Coal Seams

Coal Seam	Depth (mbgl)	Direction to working	Dipped direction of seam worked)	Extraction Thickness (cm)	Year Last Worked
SLATEY	9	Beneath Site	SW	144	1918
UPPER TEN QUARTERS	13	Beneath Site	-	120	1912
UPPER TEN QUARTERS	62	Beneath Site	SW	144	1894
MAIN	95	Beneath Site	SW	310	1918
BRICK (BANNOCK)	96	Beneath Site	S	208	1918
BRICK (BANNOCK)	102	Beneath Site	SW	208	1918
MAIN	121	Beneath Site	W	310	1918

6.1.3 There are no probable unrecorded shallow workings beneath the site.

6.1.4 There are no spine roadway recorded at shallow depth beneath the site.

6.1.5 There are no recorded mine entries within 100m of the site.

6.1.6 There are no outcrops beneath the site.

6.1.7 There are no opencast mines within 500m of the site.

6.1.8 Any ground movement due to coal mining activity should now have ceased.

6.1.9 The property is not within the likely zone of influence from any coal workings from any present or future planned underground coal mining or any present or future planned opencast or underground coal mining.

6.1.10 The Coal Authority has not received any damage notices for the property or properties within 50 m of the site since 31st October 1994.

6.1.11 There is no record of any mine gas emissions requiring action by the Coal Authority at the site.

6.1.12 The property has not been subject to remedial works by or on behalf of the Coal Authority.

6.1.13 The Coal Mining Report is presented in Appendix D.

6.2 Objectives of Risk Assessment

6.2.1 Prior to 1840, there was no requirement for mining plans to be prepared and it was not until 1850 that the Inspection of Coal Mines Act 1850 required a coal mine owner to keep a plan at each mine.

6.2.2 In 1872, the Coal Mines Regulation Act and the Metalliferous Mines Regulation Act made the deposition of plans of abandoned mines with the Secretary of State a statutory requirement. Non-coal mines were not required to deposit plans if there had been less than 12 men employed below ground and this relaxation was perpetuated in all subsequent legislation until 1993. All that was required to be shown on these plans were the boundaries of the mine workings up to the time of abandonment. There was

no requirement for orientation with the surface, depth of workings or section extracted information to be show.

6.2.3 The results of this preliminary coal mining risk assessment, it may be a requirement for further intrusive investigation, and if necessary potential mitigation measures such as drilling and grouting of historic workings and / or mine shaft treatment.

6.2.4 It is also possible that if unrecorded historic coal workings are identified, then unrecorded historic mine entries may also be present.

6.3 Potential Risks Associated with Historic Coal Mining

6.3.1 The potential risk associated with historic coal mining are:

- Collapse of former coal workings resulting in structural failure of any new or existing buildings.
- Consolidation and settlement of both former coal workings and overlying strata resulting in structural failure of any new or existing buildings.
- Migration of hazardous mine gases into buildings and confined spaces resulting in asphyxiation and or explosion.
- Spontaneous combustion of historic mine workings.

6.4 Assessment Criteria

6.4.1 The acceptable cover criterion is generally represented as 'ht', where 'h' is the thickness of the rock above the workings expressed as a multiple of t, where 't' is the worked seam thickness.

6.4.2 The worked thickness includes the coal seam, and both overlying and underlying strata associated with spine roads.

6.4.3 A generally accepted rule of thumb is a suitable cover of $10 \times t$ is adequate.

6.4.4 There are circumstances where alternative cover of greater than or less than $10 \times t$ can be considered in relation to crown hole collapse. These are given below in Table 6.2: Alternative Cover of Greater Than or Less Than $10 \times t$.

Table 6.2: Alternative Cover of Greater Than or Less Than $10 \times t$.

Ground Factor	Circumstance
Strata Dip	Greater than 20°
Groundwater	Groundwater flow and / or change in groundwater level
Extraction Ratio	Residual void
Multiple Seam Extractions	Interacting workings
Roof Strata	Where the upward migration of the void is effectively inhibited by a non-degradable massive (very thickly bedded) roof bearing of other rigid strata.
Low Residual Voidage	Where significant infilling is indicated to have taken place within the mine, or collapse has already occurred.
Engineering Factor	Circumstance
Site Investigation Information	Where uncertainty remains regarding gathered information
Project Sensitivity	Exacting Serviceable Limits
Tolerable Ground Movements	Where the magnitude of surface movement can be reasonably assessed and justified and are within defined limits of safety and serviceability, and where maintenance consequences are acceptable technically and financially
Foundation Design	For new-build structures where foundations can be designed span or cantilever over the potential surface subsidence

6.4.5 The risks associated with coal mining are as follows:

- Risk of settlement, cracking and or collapse of buildings, structures services and associated infrastructure on site from potential historic underground coal workings at shallow depths.
- Risk to future residents and buildings on site from potential mine gas emissions from former mine workings beneath the site and influencing surrounding area.
- Spontaneous combustion of historic mine workings.

6.4.6 In accordance with CIRIA C758D investigation boreholes should be advanced to achieve a depth whereby, either:

- The absence of coal can be proven to a depth where a suitable depth of cover will be present even if worked coal is present beyond the depth of the investigation, or.
- Any seams present within influencing depth can be proven.

6.4.7 Where superficial deposits are present, then investigation boreholes should be advanced to a greater depth to achieve the above.

6.5 Conclusions

6.5.1 A review of the above information indicates that the site is located in an area where shallow coal is likely to be present and could have been worked at some time in the past. Any proposed structures could therefore potentially be at risk of total and differential settlement and or collapse due to voids associated with shallow worked coal seams beneath the site.

6.6 Recommendations

6.6.1 It is therefore recommended that an Intrusive Mining Site Investigation is carried out at the site to establish the presence or otherwise of any former shallow coal seams and subsequent workings beneath the site.

6.6.2 In addition to the above it may be necessary to install gas monitoring standpipes with subsequent monitoring to assess the risk from hazardous ground gasses.

6.6.3 It is recommended that the above conclusions and recommendations are agreed in principle with the Local Planning Authority (LPA) to gain their approval prior to commencement of the development to avoid unnecessary complications or delays at a later stage.

7.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

7.1 General

- 7.1.1 The underlying shallow geology is likely to consist of Till overlying Whitehaven Sandstone Formation or Breckam, which generally comprise clays, sands and gravels, and sandstone and breccia respectively.
- 7.1.2 Based upon the information reviewed, a list of potential geotechnical risks has been outlined below in Table 7.1: Potential Geotechnical Risks, which presents a summary of the likely geotechnical risks potentially present at the site.

Table 7.1: Potential Geotechnical Risks

Features of Concern	Geotechnical Consideration	Geotechnical Risk to Proposed Development	Likelihood
Made Ground	Any potential Made Ground beneath the site.	Made Ground can cause total and differential settlement of any new structures.	Unlikely
Trees and vegetation	Large mature trees on site or within close proximity to the site boundaries.	Tree roots have the potential to cause clay soils to shrink causing settlement of new structures.	Likely
Shrinkage and expansion of clay soils	Clay soils beneath the site.	Potential for shrinkage and / or heave of clay soils causing damage to new structures.	Possible
Groundwater ingress	Shallow groundwater beneath the site.	Shallow ground water can have an impact on construction and foundation excavations. Pumping and / or dewatering may be required.	Possible
Existing / former foundations and underground structures	New buildings may be situated upon the sites of former demolished buildings or buildings that will be demolished as part of the proposed development.	Uneven founding, inconsistent ground conditions, and unsuitable bearing capacity for new structures.	Unlikely
Aggressive ground	Chemical content of the soils beneath the site.	Chemically aggressive ground may have the potential to attack buried concrete.	Possible
Soft / loose / weak soils and / or rock beneath the site	Unsuitable founding strata beneath the site.	Soft and loose soils or weak rock may be inadequate to found on. A suitable foundation option should be selected based on the actual ground conditions beneath the site.	Possible
Embankments / Slopes / Retaining Walls	Unstable slopes and embankments. Failing retaining walls.	Collapse onto or into any new developments. Slope failure beneath development.	Unlikely
Shallow mine workings beneath the site	Coal seams or mine entries present on or beneath the site which may have been worked in the past. Non coal related mining.	Worked mine seams or areas of mineral extraction leave voids underground that have the potential to settle when new loads are placed above them.	Likely
Ground Dissolution	Dissolution of carbonaceous geology beneath the site.	Carbonaceous ground beneath the site can dissolve over time with groundwater percolating through causing sink holes giving rise to settlement or complete collapse of structures.	Negligible
Brine Extraction	Areas of brine extraction beneath the site at shallow depths.	Affected areas may leave voids underground that have the potential to settle when new loads are placed above them.	Negligible

7.2 Discussion

Structures

- 7.2.1 The nature and distribution of geotechnical properties of the near surface strata have not been fully identified within this study, therefore it is not possible at this stage, to give meaningful advice as to the type, nature, and construction of any foundations for the proposed development.
- 7.2.2 A suitable geotechnical site investigation should be carried out at the site to confirm ground conditions, geotechnical parameters, details of the groundwater regime, and other general site details to facilitate suitable foundation and substructure design.

Sustainable Drainage

- 7.2.3 In accordance with National Planning and Policy Framework (NPPF) and Local Planning Guidance, the Local Planning Authority (LPA) will require that surface water drainage from the proposed development complies with current design practices for Sustainable Drainage Systems (SuDS) construction of separate drainage systems for foul and surface water. Surface water shall be required to be attenuated to Greenfield runoff rates or better and attenuation up to the 1 in 100 year storm event plus 40% for climate change will be required on site.
- 7.2.4 Based on the indicative ground conditions encountered it is **possible** that soakaways would be suitable at the site,. If sustainable drainage is to be considered, it is recommended that soak-away testing is carried out in accordance with BRE 365 at the site to establish the sites suitability for sustainable drainage.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

Environmental

- 8.1.1 A review of the preliminary information reveals that future end users of the site are potentially at **Very Low** risk of being affected by contamination in soils and / or groundwater beneath this site.
- 8.1.2 Risks to construction workers from the site are considered to be **Very Low** at this stage.
- 8.1.3 Risks to neighbouring residents from the site are considered to be **Very Low** at this stage.
- 8.1.4 The risks of hazardous ground gasses affecting the site are considered to be **Moderate** at this stage.
- 8.1.5 Basic radon protection measures are necessary in the construction of new dwellings or extensions.
- 8.1.6 The risks to drinking water and groundwater are considered to be **Very Low** at this stage.
- 8.1.7 The risks to surface waters are considered to be **Very Low** at this stage.
- 8.1.8 Risks to plants and native grasses are considered to be **Very Low** at this stage.

Geotechnical

- 8.1.9 The nature and distribution of geotechnical properties of the near surface strata have not been fully identified within this study, therefore it is not possible at this stage, to give meaningful advice as to the type, nature, and construction of any foundations for the proposed development.
- 8.1.10 Inadequately designed buried concrete may be at risk from potentially elevated sulphates and low pH in the soils and groundwater beneath the site.
- 8.1.11 The site is considered to be affected shallow coal mining. Therefore, risks from shallow coal mining are considered to be **Moderate** at this stage.
- 8.1.12 The site is not considered to be affected by brine extraction. Therefore, risks from brine extraction are considered to be **Very Low** at this stage.
- 8.1.13 The site is not considered to be affected by ground dissolution. Therefore, risks from ground dissolution are considered to be **Very Low** at this stage.
- 8.1.14 Based on the indicative ground conditions identified it is possible that sustainable drainage would be suitable at the site. If sustainable drainage is to be considered, it is recommended that soak-away testing is carried out in accordance with BRE 365 at the site to establish the sites suitability for sustainable drainage.

8.2 Recommendations

- 8.2.1 It is recommended that a suitable combined phase II environmental, intrusive mining investigation and geotechnical site investigation is carried out at the site to establish the gas risk and to provide a Generic Quantitative Risk Assessment (GQRA); and, to identify the ground conditions and provide details of their engineering properties in order to facilitate foundation design for the proposed development; and, to establish the potential risks from shallow mining.
- 8.2.2 It is recommended that the above conclusions and recommendations are agreed in principle with the Local Planning Authority (LPA) to gain their approval prior to commencement of the development to avoid unnecessary complications or delays at a later stage.

8.3 Other Considerations

Soakaways

- 8.3.1 In accordance with National Planning and Policy Framework (NPPF) and Local Planning Guidance, the LPA will require that surface water drainage from the proposed development complies with current design practices for Sustainable Drainage Systems (SuDS) construction of separate drainage systems for foul and surface water.
- 8.3.2 Infiltration testing should be considered to determine the suitability for sustainable drainage at the site.

Plastic Water Pipes

- 8.3.3 Any organic contamination present in the soils or groundwater beneath the site would pose a risk of premature failure to below ground services via chemical reaction.
- 8.3.4 Any subsequent Phase II Site Investigation would be primarily concerned with human health risk assessment.
- 8.3.5 Considerations should be given to specific sampling and chemical analysis of the materials that any plastic water supply pipes will be laid in.
- 8.3.6 It is also likely that the water utilities provider will require their own risk assessment to be completed.

9.0 REFERENCES

9.1 Legislation and Policy

- *Environmental Protection Act 1990, Part IIA.*
- *National Planning Policy Framework (NPPF).*
- *The Contaminated Land (England) Regulations 2006 (as amended).*

9.2 Regulator / Government Guidance

- *Department of the Environment (DOE) Industry Profiles.*
- *Environment Agency: Contaminated Land Exposure Assessment (CLEA) framework (latest version at time of writing).*
- *Environment Agency. Guidance and position statements on PFAS (latest at time of writing).*
- *Guiding Principles for Land Contamination (GPLC) 1 – 3.*
- *Land Contamination Risk Management (LCRM).*
- *Manchester City Council: Contaminated Land Strategy 2020 – 2025.*
- *Manchester City Council: Planning and Contaminated Land 2021.*
- *Yorkshire and Lincolnshire Pollution Advisory Group: Technical Guidance for Developers Landowners and Consultants V12.2 2023.*

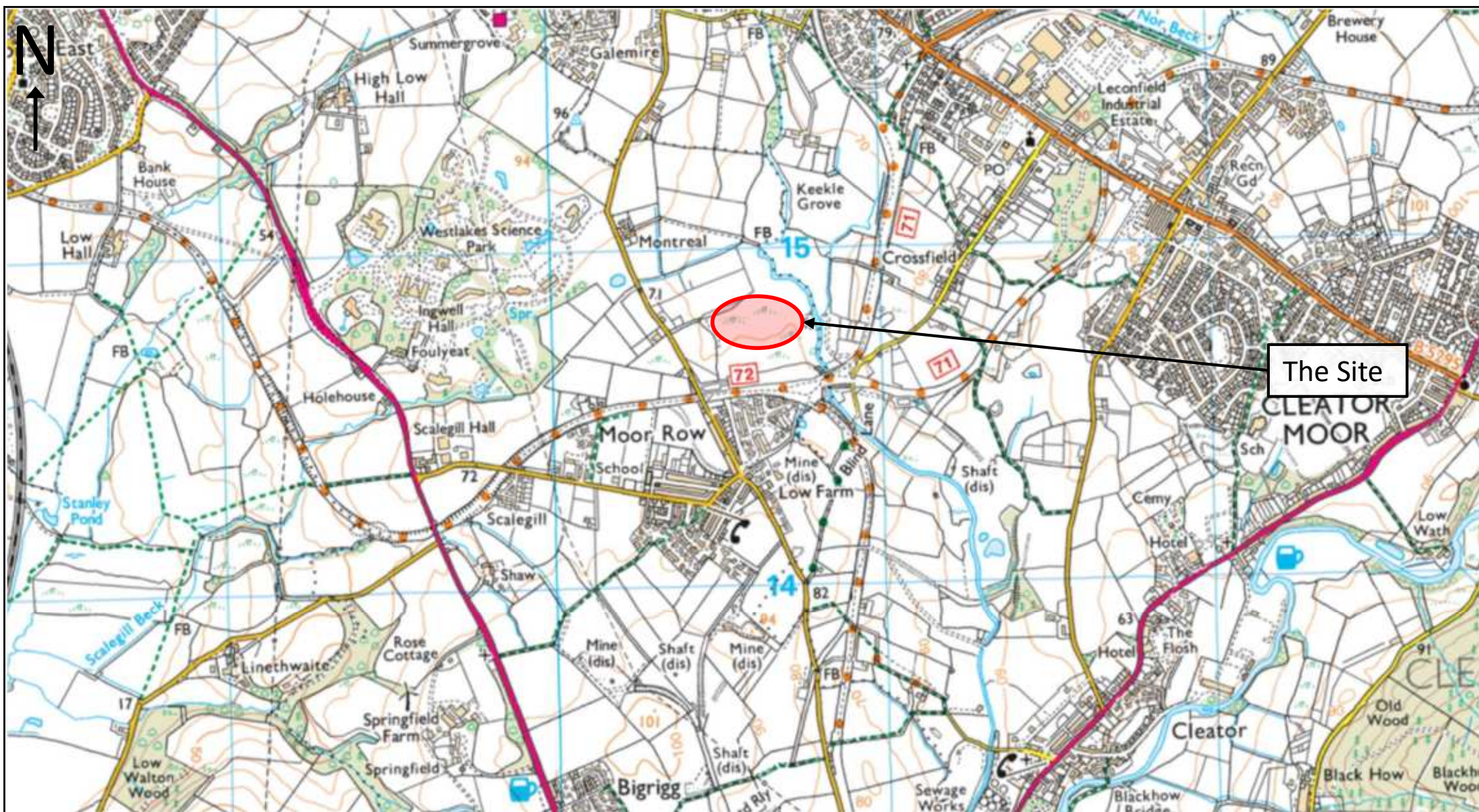
9.3 Standards and Specifications

- *BS 5930:2015 A1-2020 Code of Practice for Ground Investigations.*
- *BS 8485:2015+A1:2019 Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.*
- *BS 8576:2013 Guidance on investigations for ground gas. British Standards Institution.*
- *BS 10175:2011 + A2:2017: Investigation of potentially contaminated sites — Code of practice.*
- *BRE 211 Radon: Guidance on protective measures for new buildings.*
- *BRE 365: Soakaway Design.*
- *CIRIA C552: Contaminated Land Risk Assessment; A Guide to Good Practice 2001.*
- *CIRIA C665: Assessing the Risks Posed by Hazardous Ground Gases for Buildings 2007.*
- *CIRIA C753: The SuDS Manual 2015.*
- *CIRIA C758D: Abandoned Mine Workings Manual.*
- *ICE Publishing: UK Specification for Ground Investigation 3rd Edition 2022.*

9.4 Data sources

- *British Geological Survey (BGS): 1:50,000 geological maps of the area.*
- *British Geological Survey (BGS): 1:10,000 geological maps of the area (where available).*
- *British Geological Survey (BGS): Open geoscience and GeoIndex (onshore) online mapping tool.*
- *Cheshire Brine Subsidence Compensation Board: Cheshire Salt Search.*
- *Landmark: Envirocheck report and Envirocheck analysis online historical mapping tool.*
- *Mining Remediation Authority Map Viewer.*
- *Mining Remediation Authority: Mining Remediation Authority Coal Mining Report.*
- *Ordnance Survey: OS Landranger map for the area; OS open data online mapping tool.*
- *UK Health Security Agency (UKHSA) and the British Geological Survey (BGS): <https://www.ukradon.org/information/ukmaps>*

APPENDIX A
DRAWINGS



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PROJECT DETAILS

GSi 2573: LAND OFF DALZIELL ST, MOOR ROW
 (DEV. PHASE 2)

TITLE

SITE LOCATION PLAN

DRAWING NUMBER

GSi 2573/01

DATE

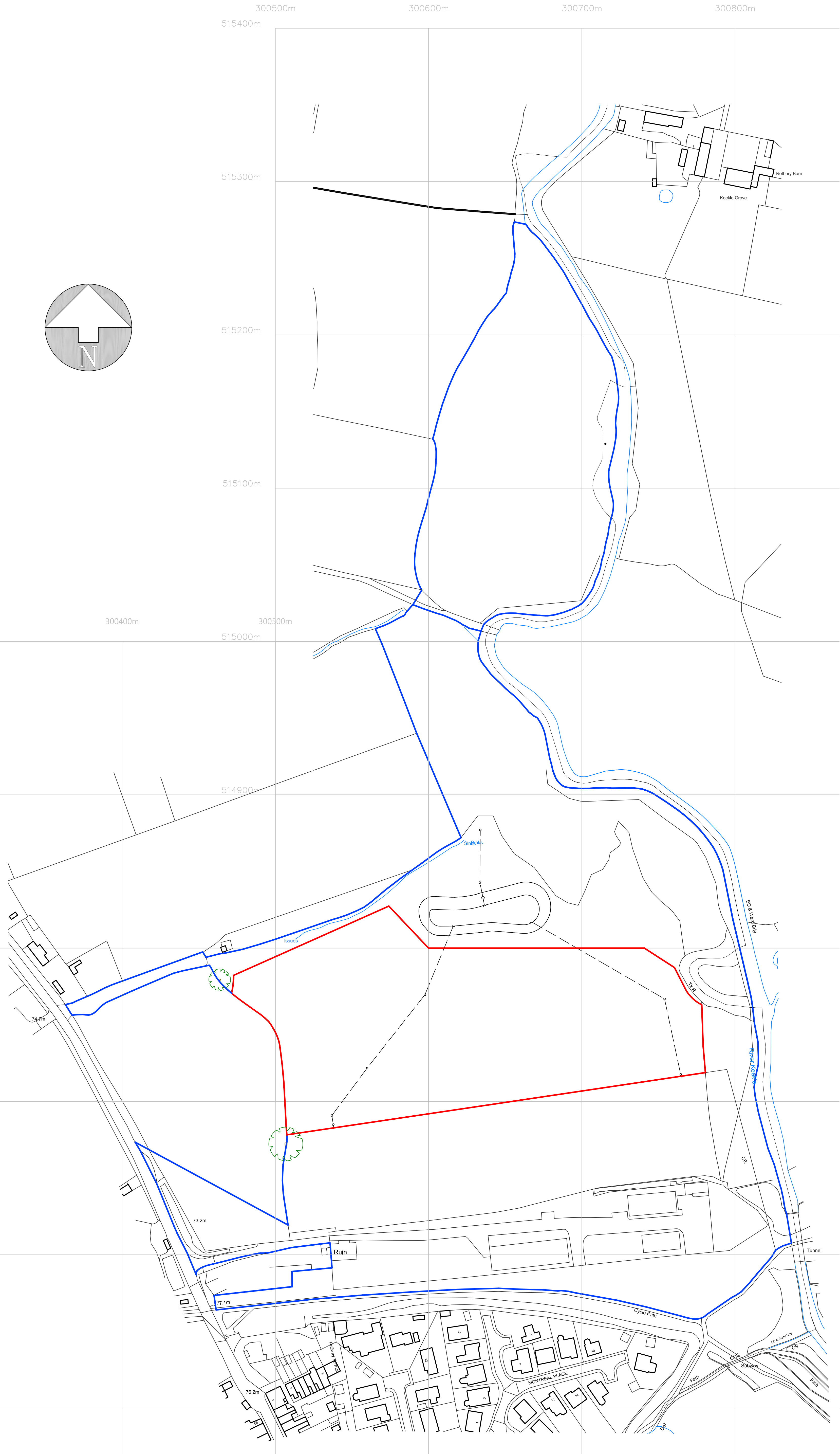
MAR 2026

SCALE

N.T.S

DRAWN BY

LD



No.	Date	Revision	Initial

ALPHA DESIGN
Architectural Services
Member of the Chartered Institute of
Architectural Technologists
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Project

**RESIDENTIAL DEVELOPMENT,
LAND OFF DALZELL STREET,
MOOR ROW,
EGREMONT**

Client

NIGEL KAY HOMES LTD.

Drawing

LOCATION PLAN - PHASE 2

Scale 1:1250 @ A1 (P) Drawn GB

Checked Date JULY 2025

Drawing No.
22/07/1026 - 100

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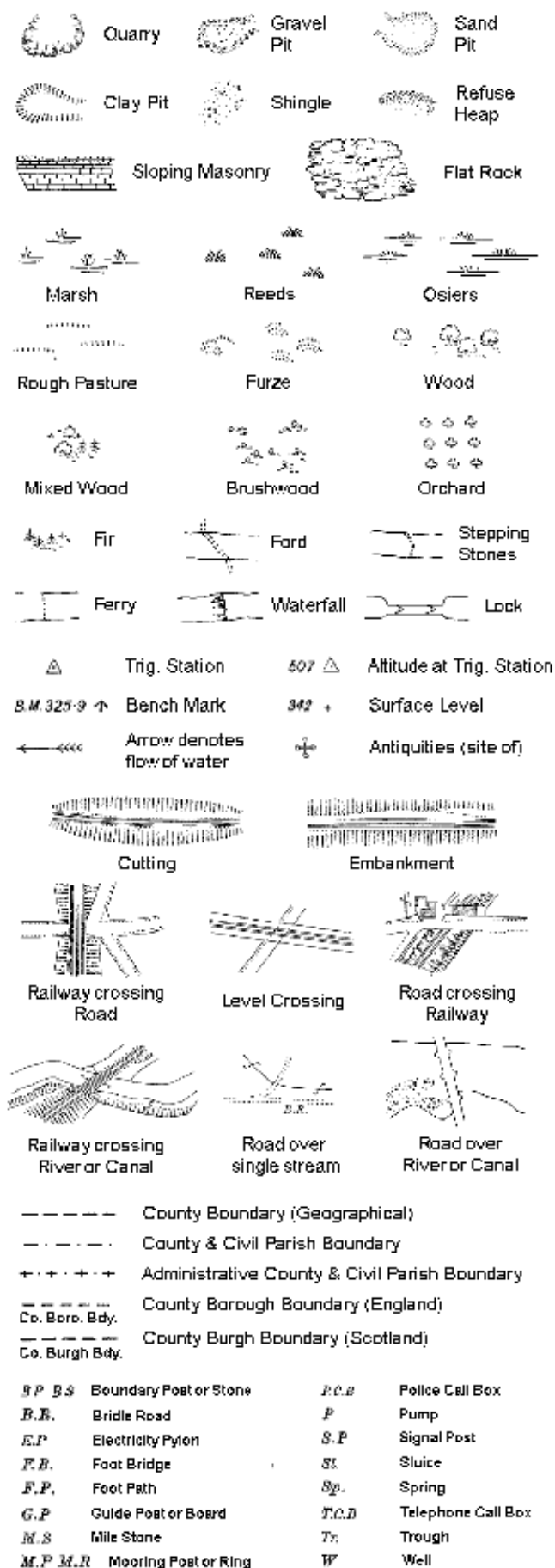
APPENDIX B

HISTORICAL MAPPING

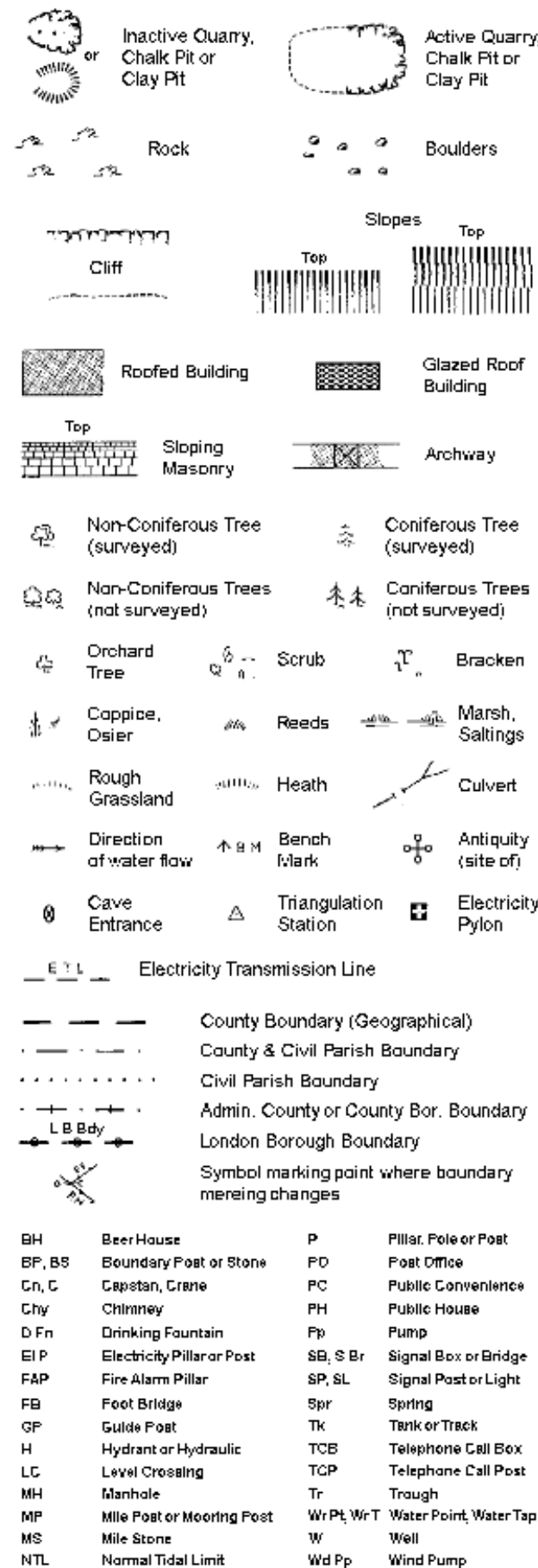
RECORDS

Historical Mapping Legends

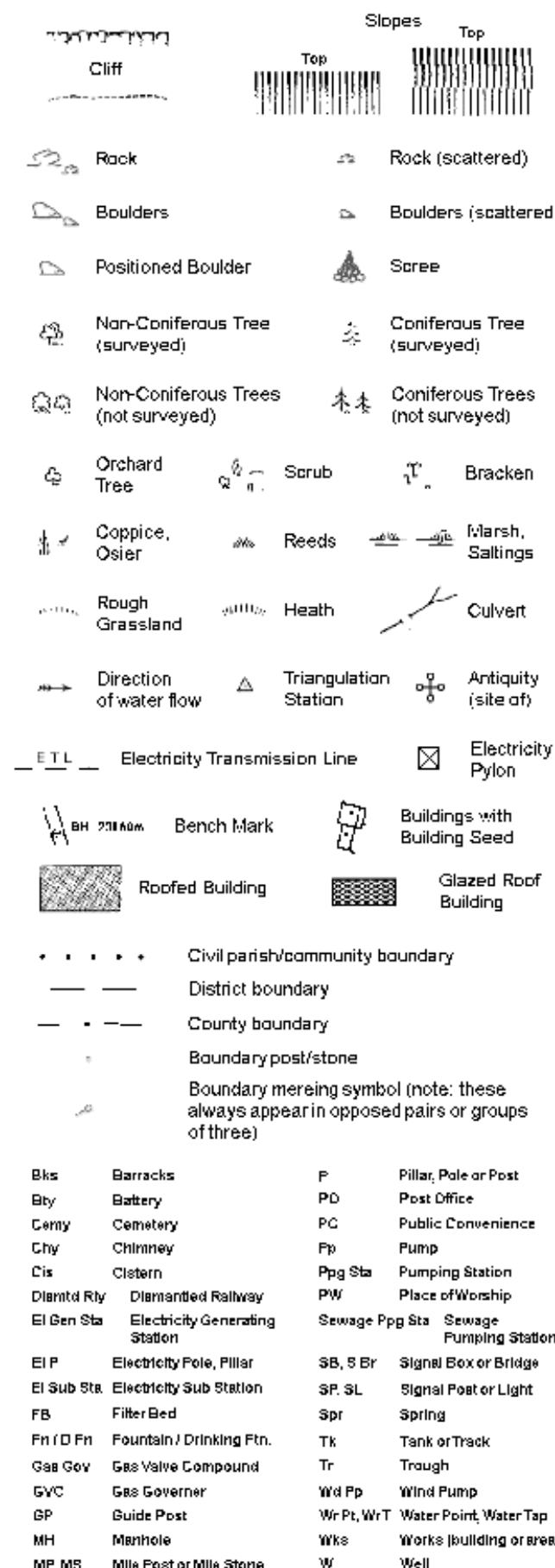
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



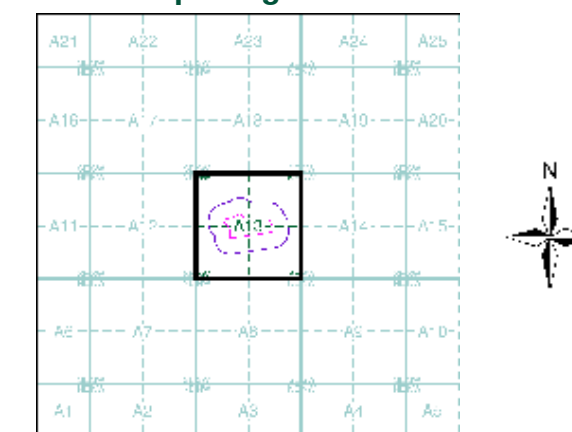
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863 - 1865	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1967 - 1970	6
Ordnance Survey Plan	1:2,500	1985 - 1989	7
Additional SIMs	1:2,500	1985 - 1989	8
Additional SIMs	1:2,500	1989 - 1991	9
Additional SIMs	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Historical Aerial Photography	1:2,500	2000	13

Historical Map - Segment A13



Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 100

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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 Fax: 0844 844 9951
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Cumberland

Published 1863 - 1865

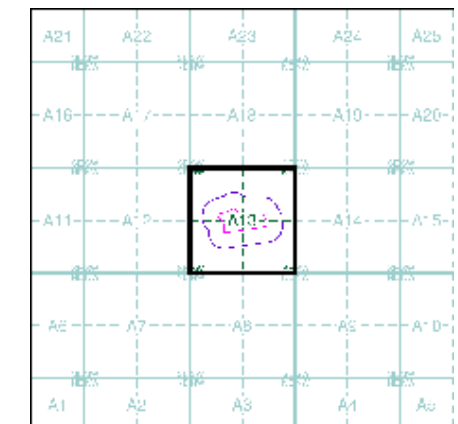
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

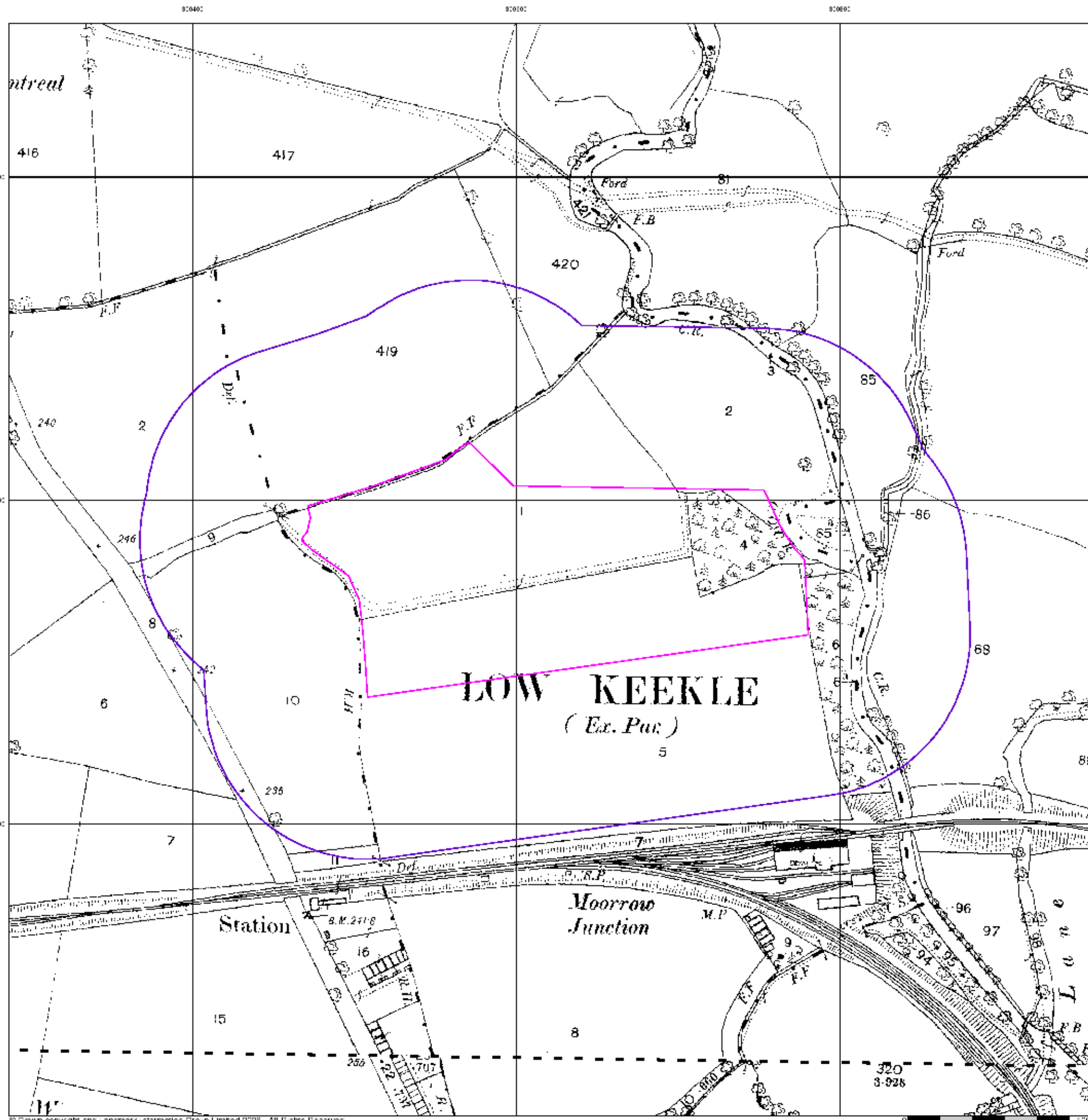
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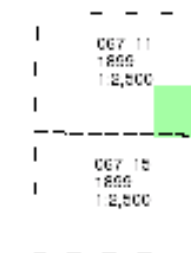
Cumberland

Published 1899

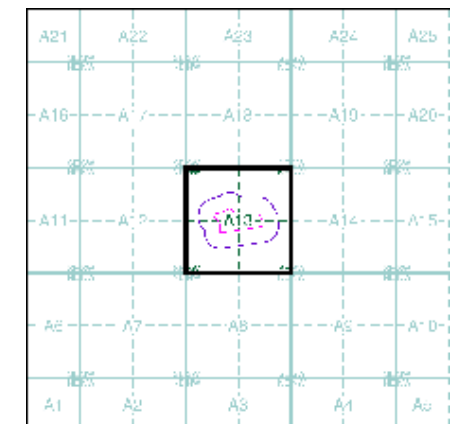
Source map scale - 1:2,500

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.

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Historical Map - Segment A13



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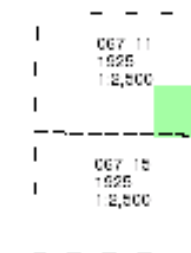
Cumberland

Published 1925

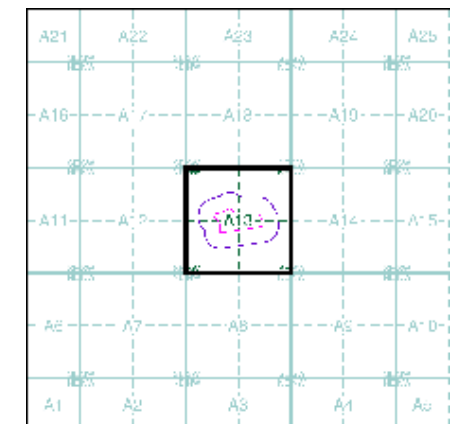
Source map scale - 1:2,500

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.

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Historical Map - Segment A13



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Landmark
INFORMATION GROUP

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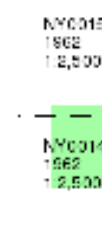
Ordnance Survey Plan

Published 1962

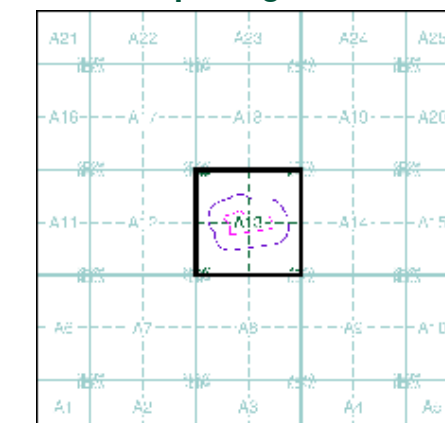
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



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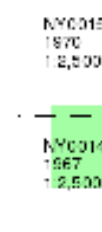
Ordnance Survey Plan

Published 1967 - 1970

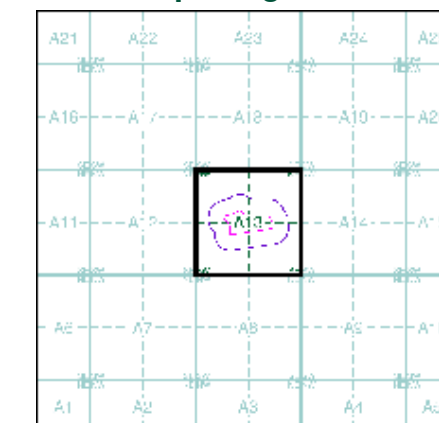
Source map scale - 1:2,500

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.

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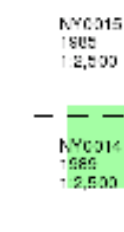
Additional SIMs

Published 1985 - 1989

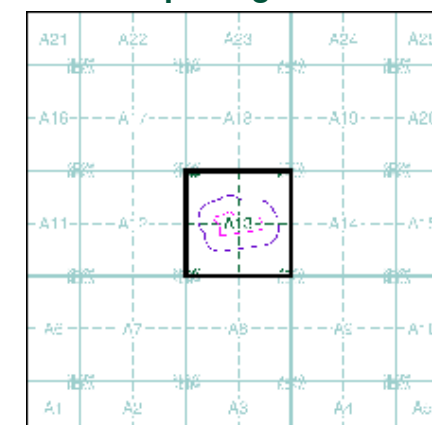
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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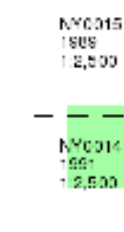
Additional SIMs

Published 1989 - 1991

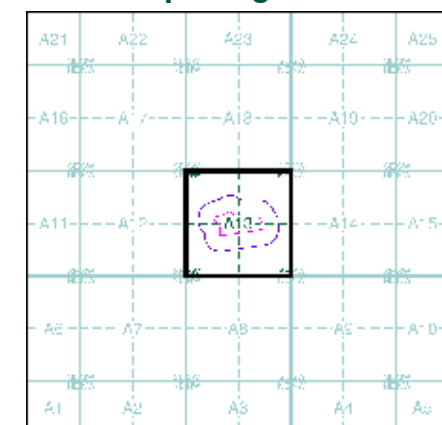
Source map scale - 1:2,500

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

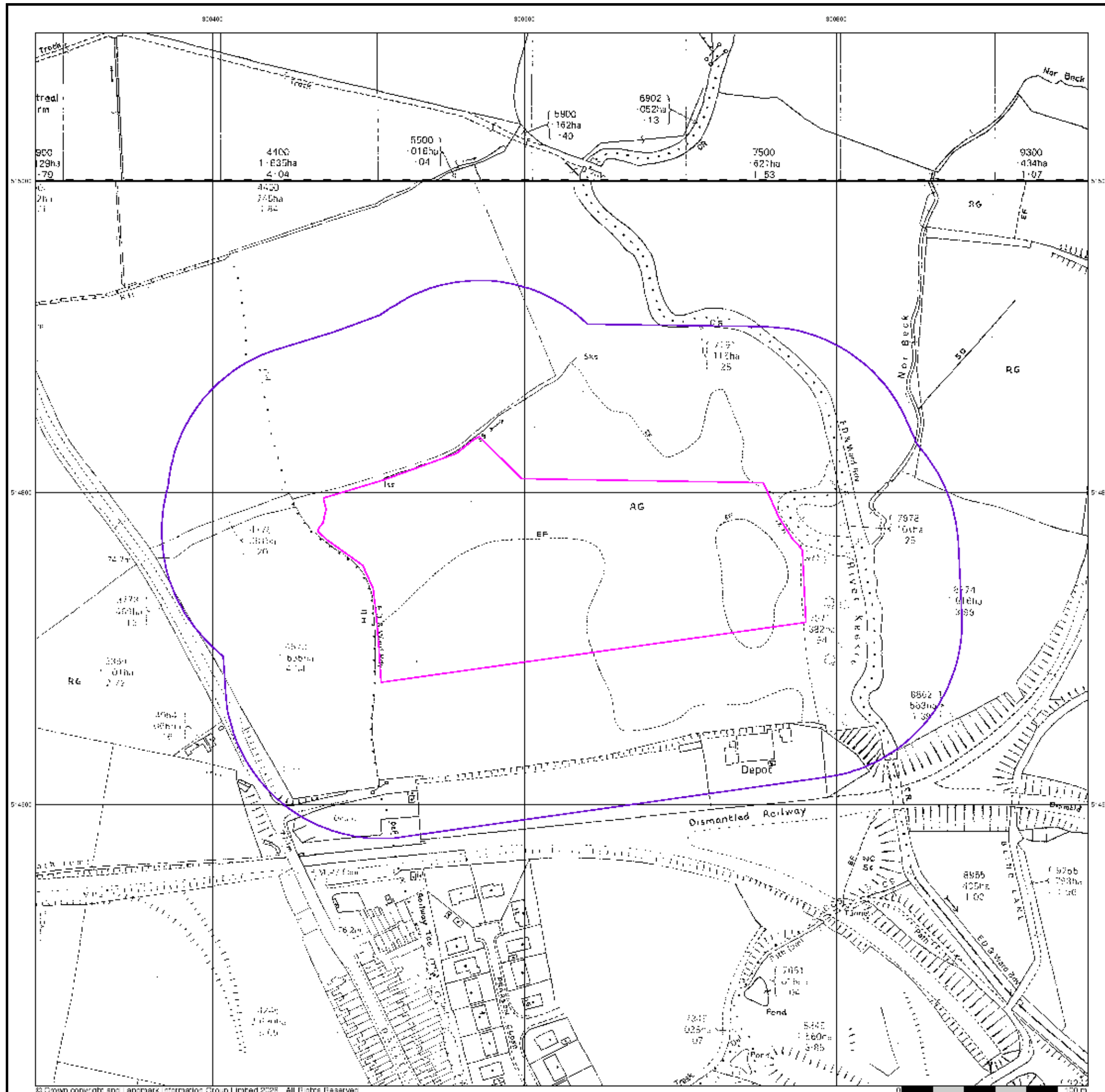
Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
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Site Details

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Additional SIMs

Published 1992

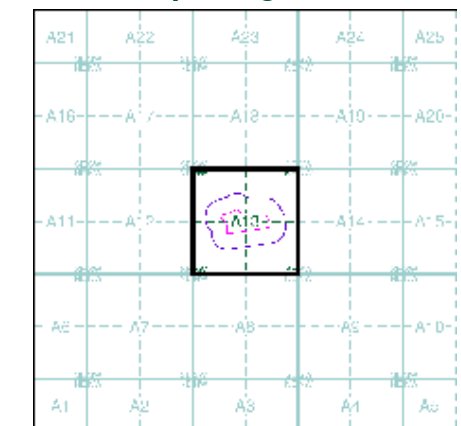
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



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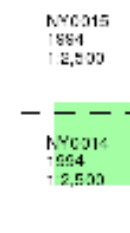
Large-Scale National Grid Data

Published 1994

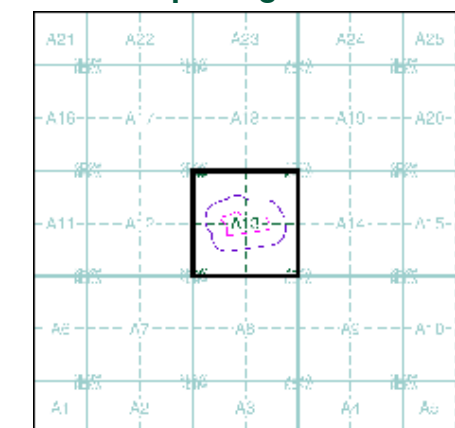
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

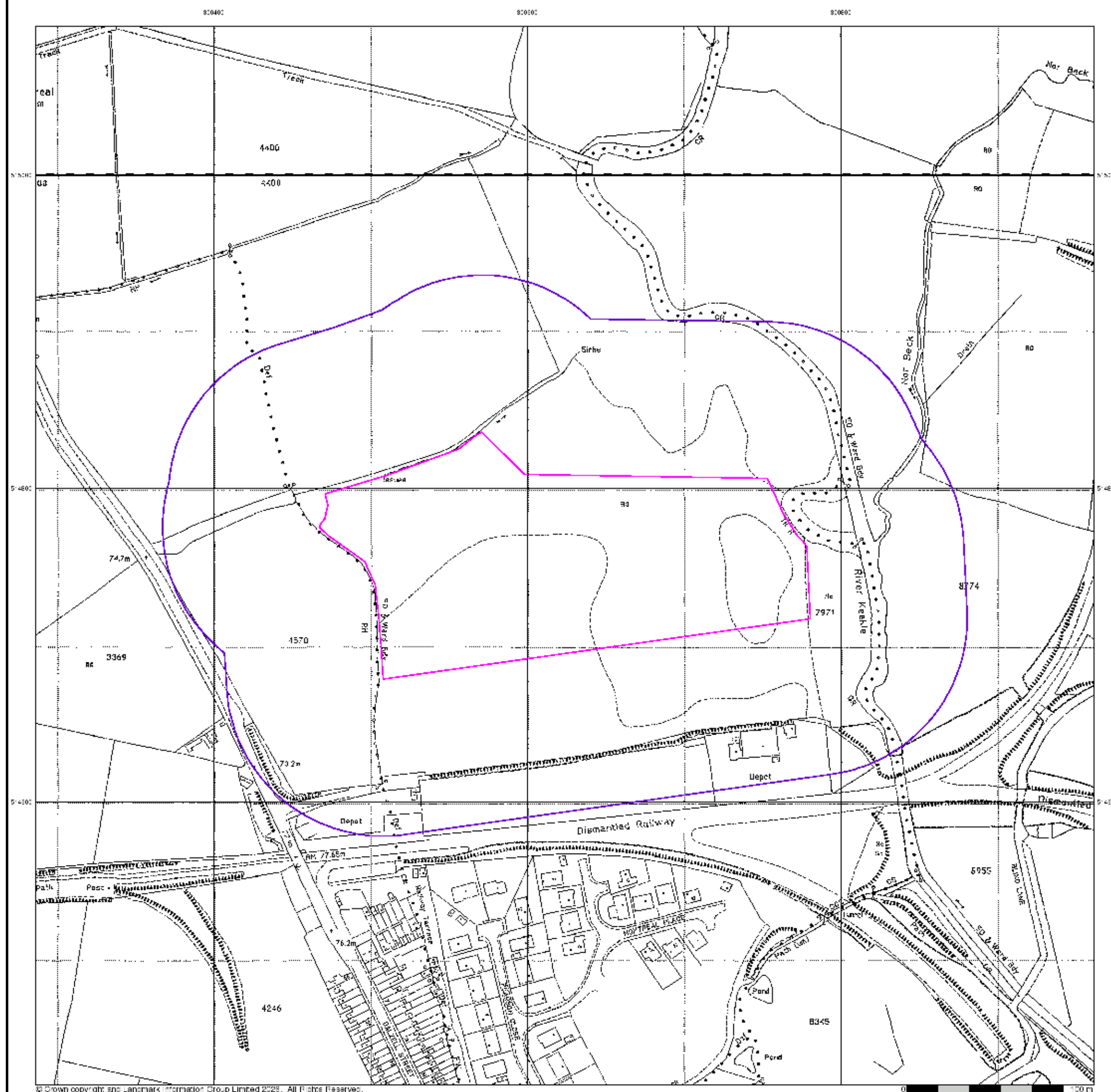
Order Number: 397250357_1_1
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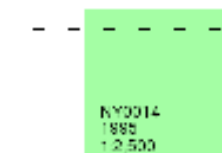
Large-Scale National Grid Data

Published 1995

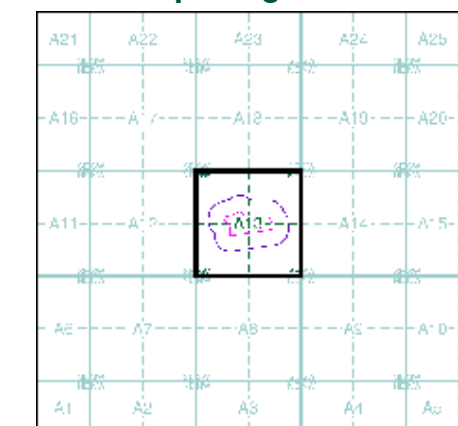
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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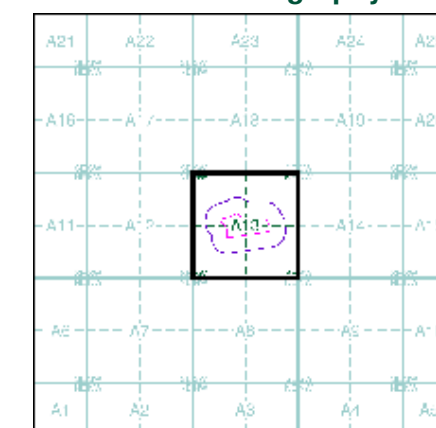


Historical Aerial Photography

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: 397250357_1_1
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Slice: A
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

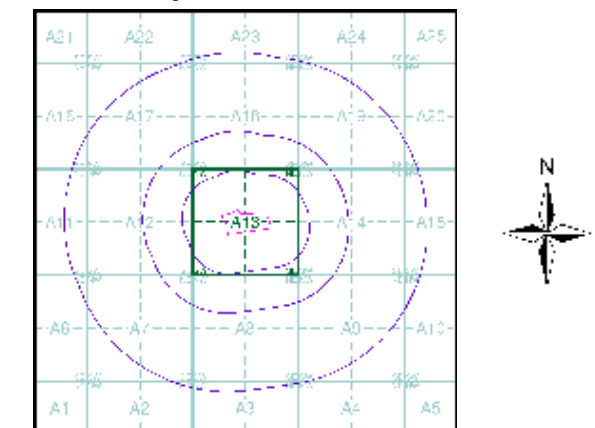
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:10,560	1867	2
Cumberland	1:10,560	1900	3
Cumberland	1:10,560	1926	4
Cumberland	1:10,560	1938	5
Ordnance Survey Plan	1:10,000	1956 - 1957	6
Ordnance Survey Plan	1:10,000	1967	7
Ordnance Survey Plan	1:10,000	1971 - 1979	8
Ordnance Survey Plan	1:10,000	1988	9
Ordnance Survey Plan	1:10,000	1993	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2025	13

Historical Map - Slice A



Order Details

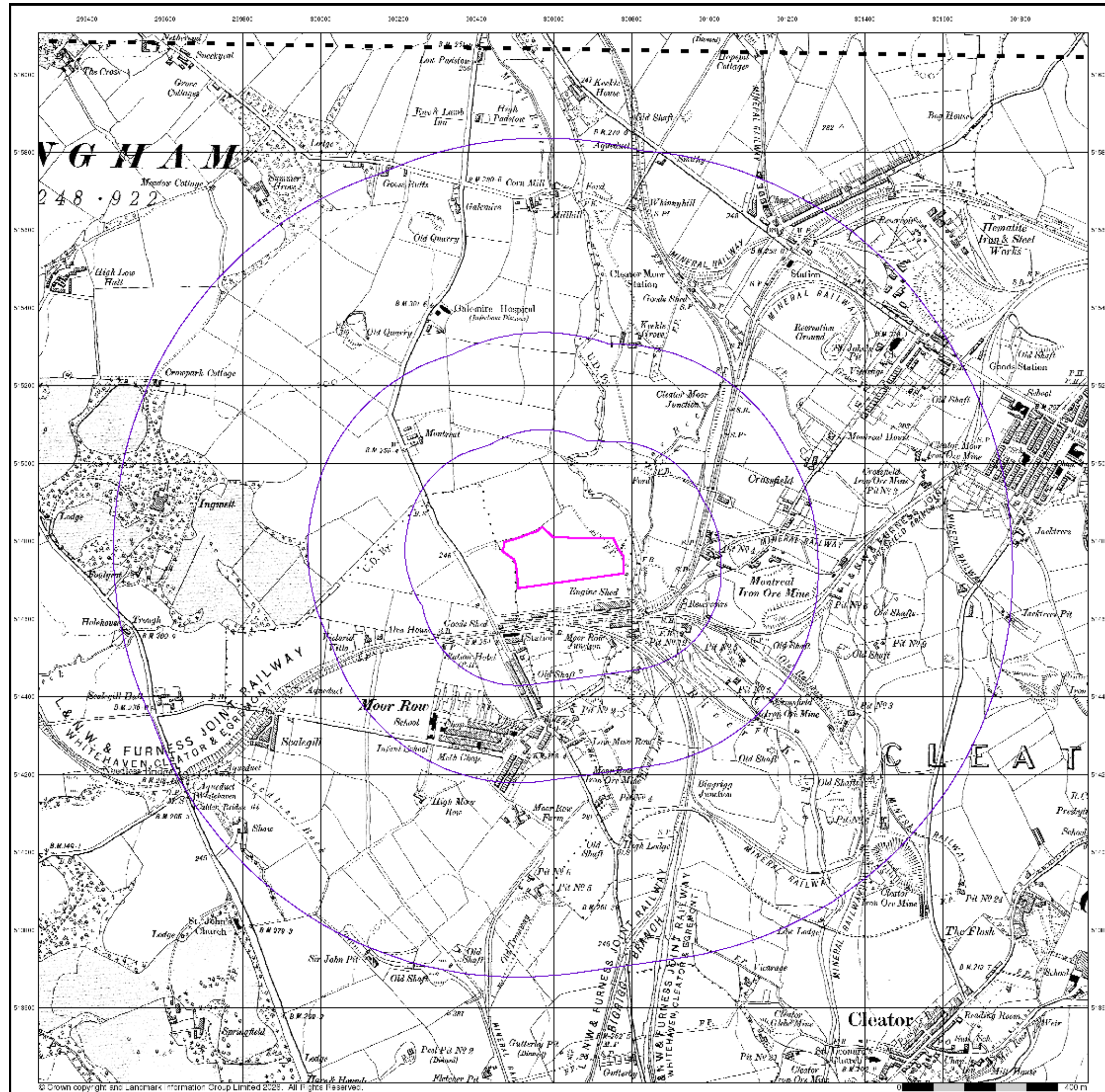
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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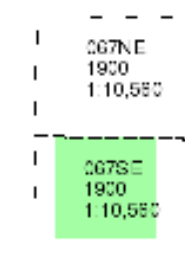
Cumberland

Published 1900

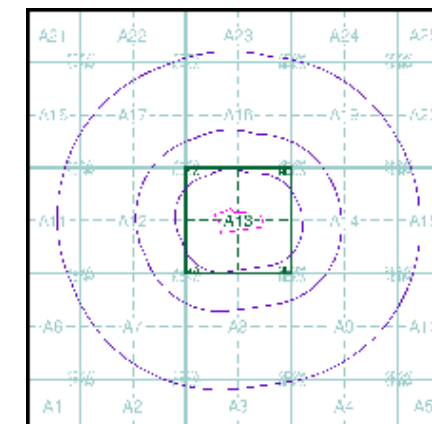
Source map scale - 1:10,560

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: 397250357_1_1
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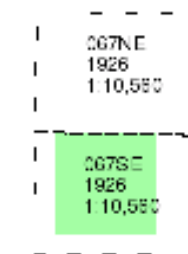
Cumberland

Published 1926

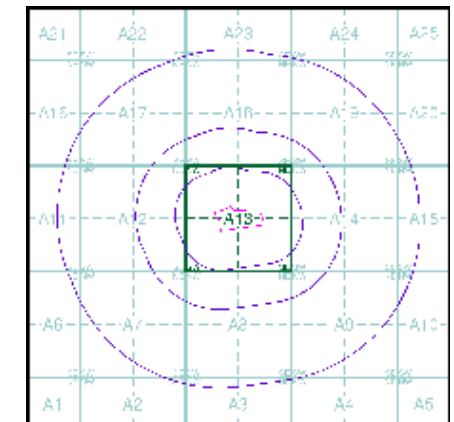
Source map scale - 1:10,560

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

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Historical Map - Slice A



Order Details

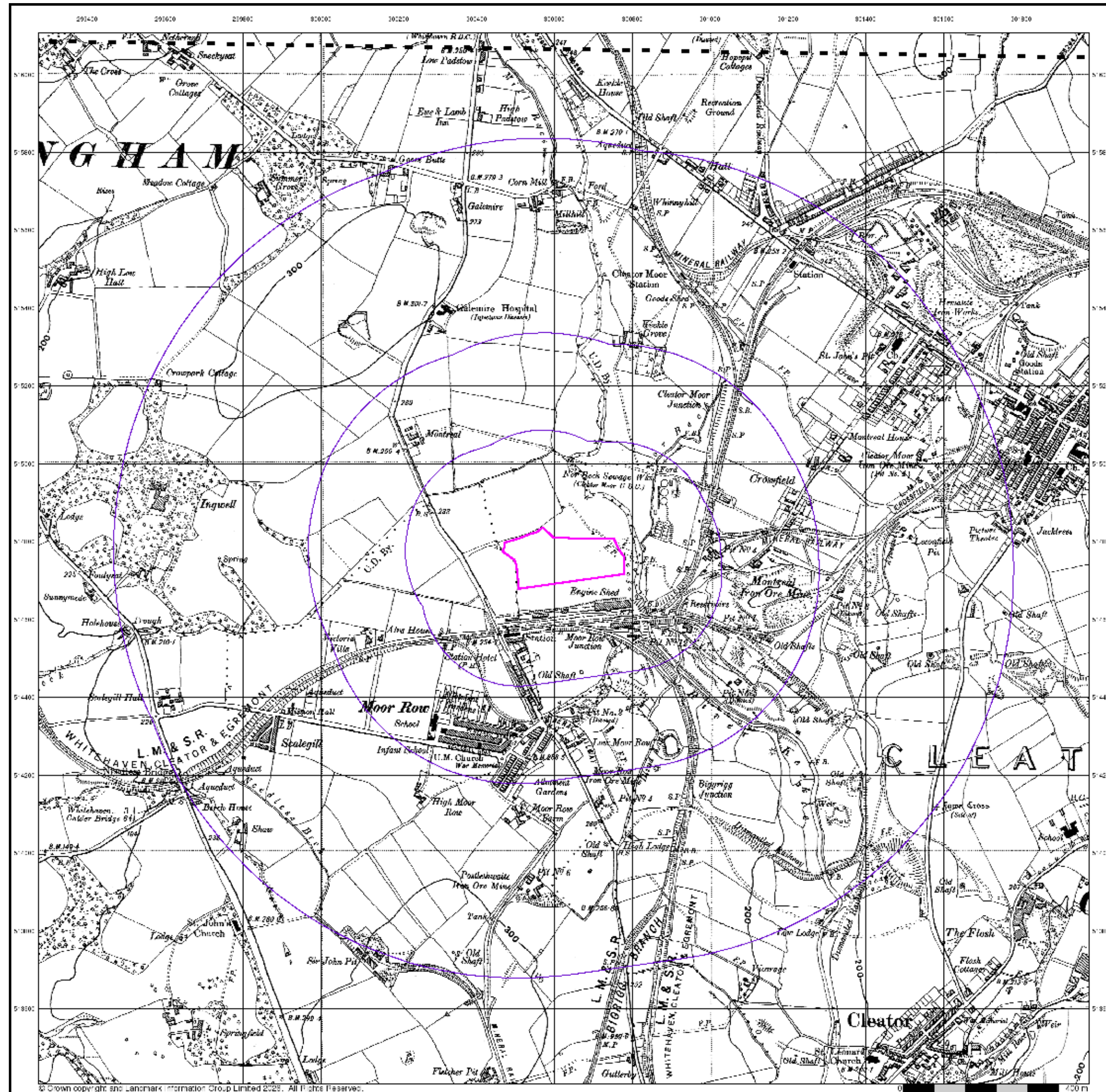
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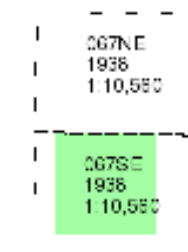
Cumberland

Published 1938

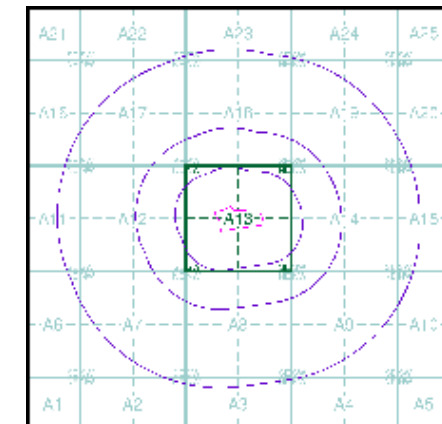
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

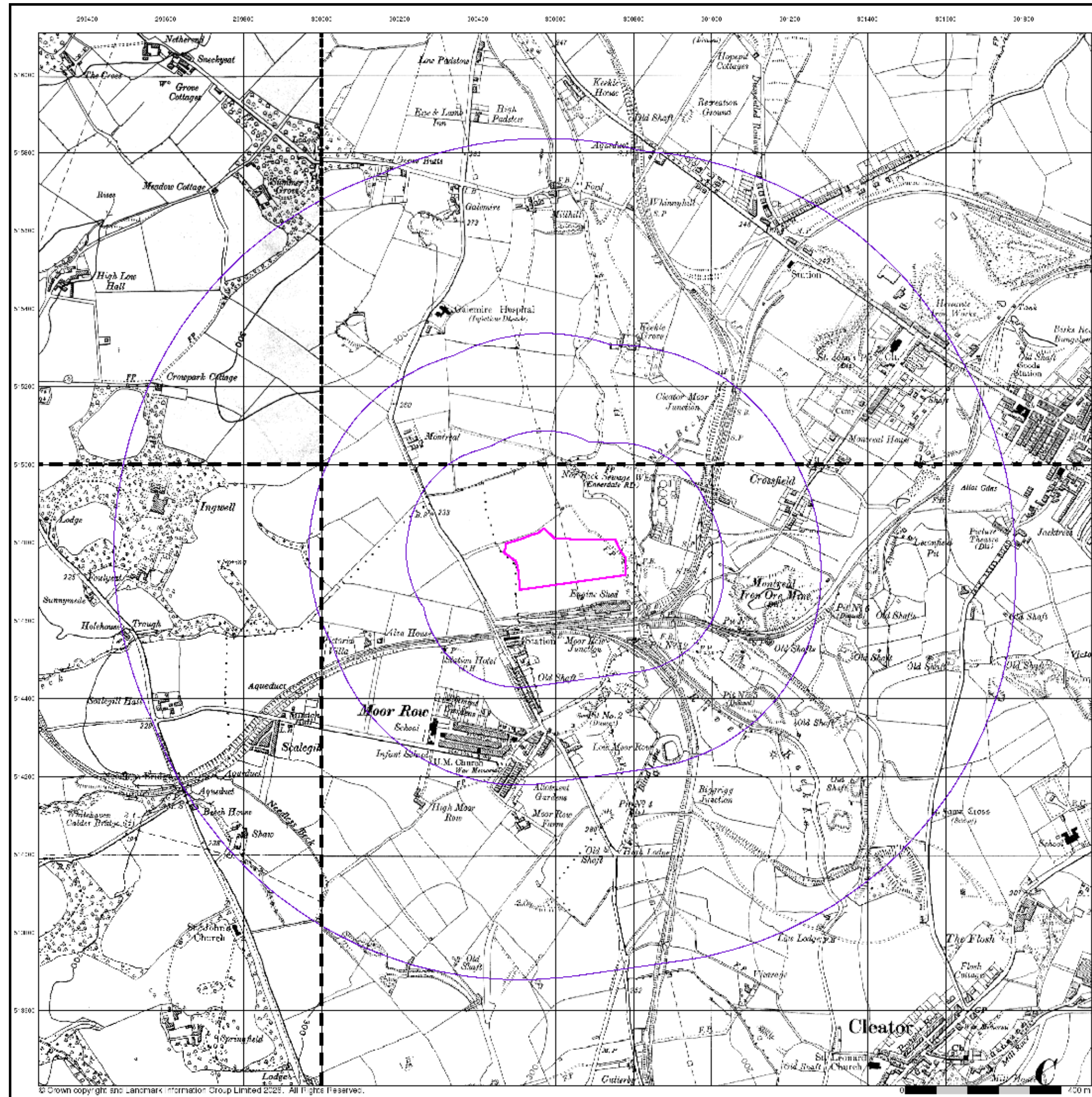
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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Ordnance Survey Plan

Published 1956 - 1957

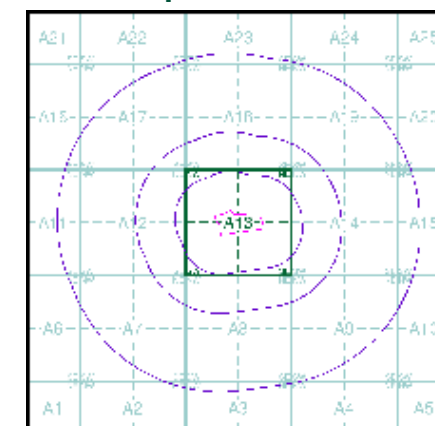
Source map scale - 1:10,000

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)

NX91NE	NY91NW
1957	1957
1:10,560	1:10,560
NX91SE	NY91SW
1957	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

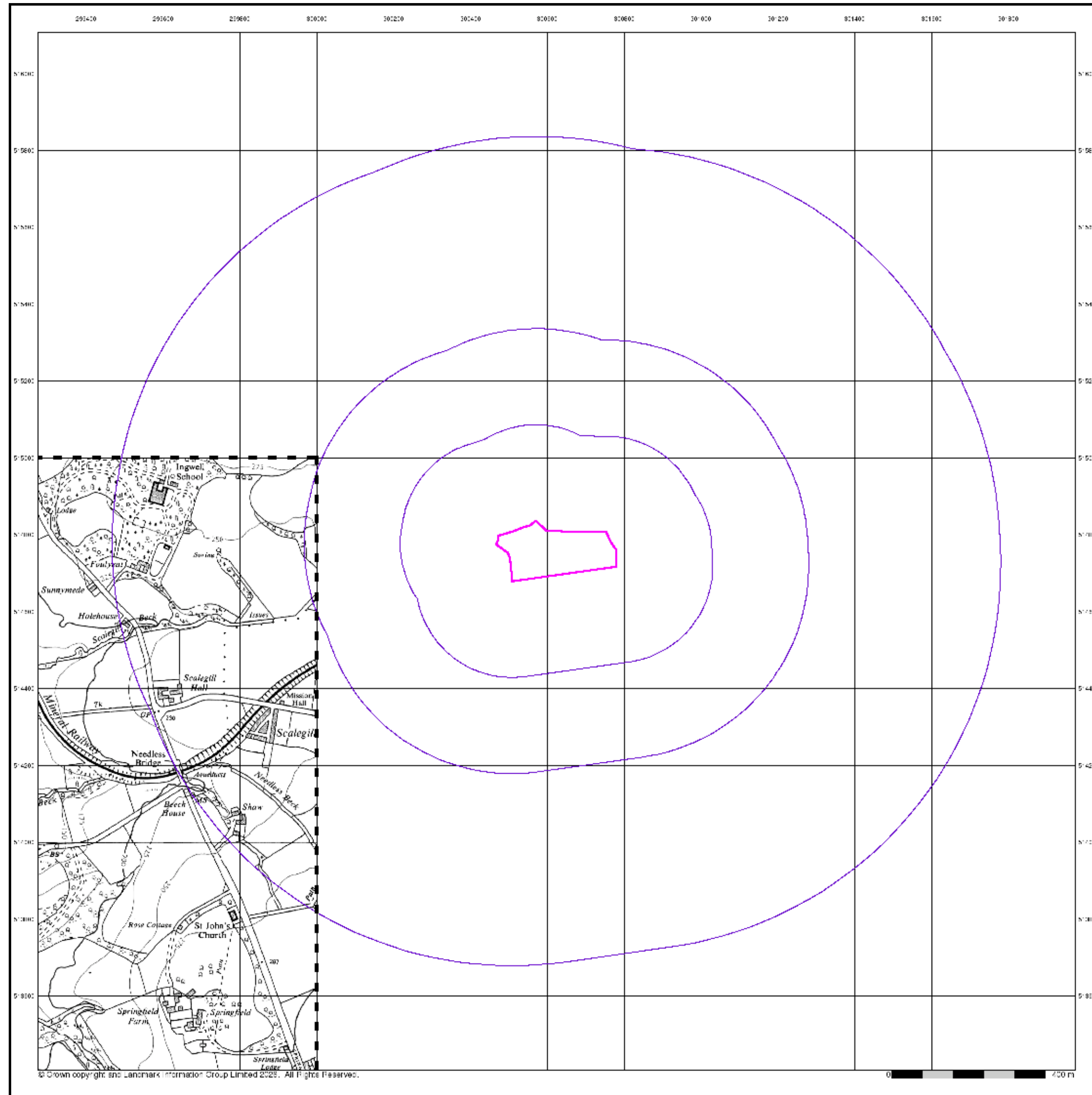
Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
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Site Details

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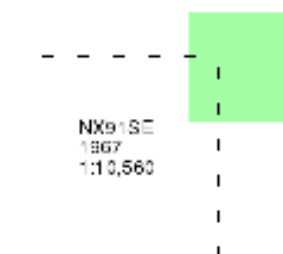
Ordinance Survey Plan

Published 1967

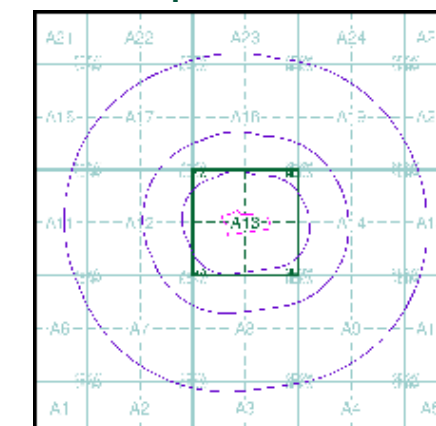
Source map scale - 1:10,000

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: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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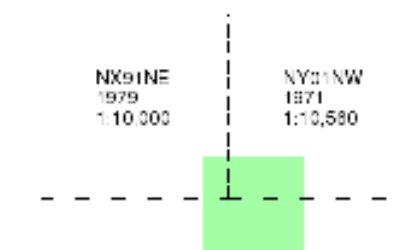
Ordnance Survey Plan

Published 1971 - 1979

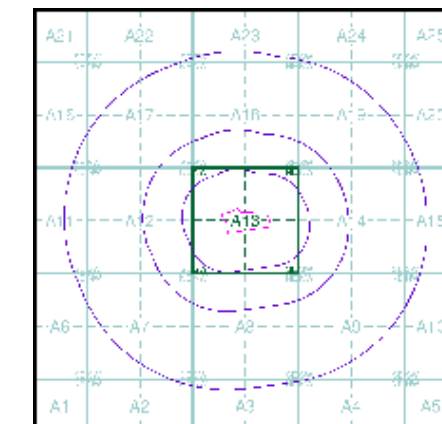
Source map scale - 1:10,000

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

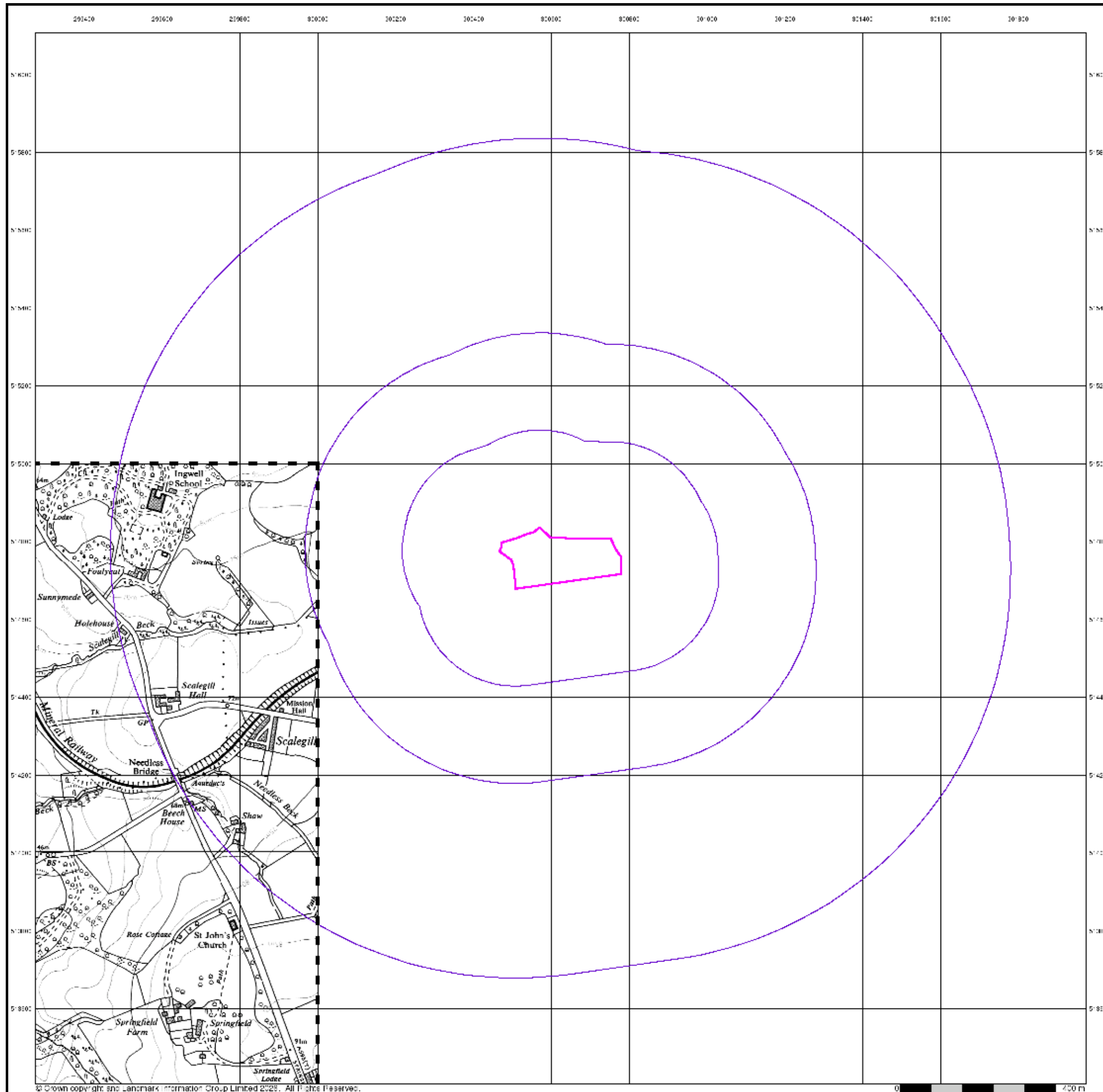
Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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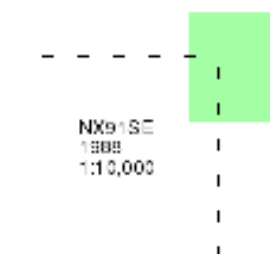
Ordnance Survey Plan

Published 1988

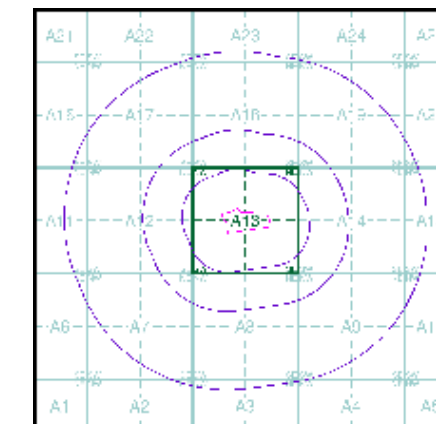
Source map scale - 1:10,000

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

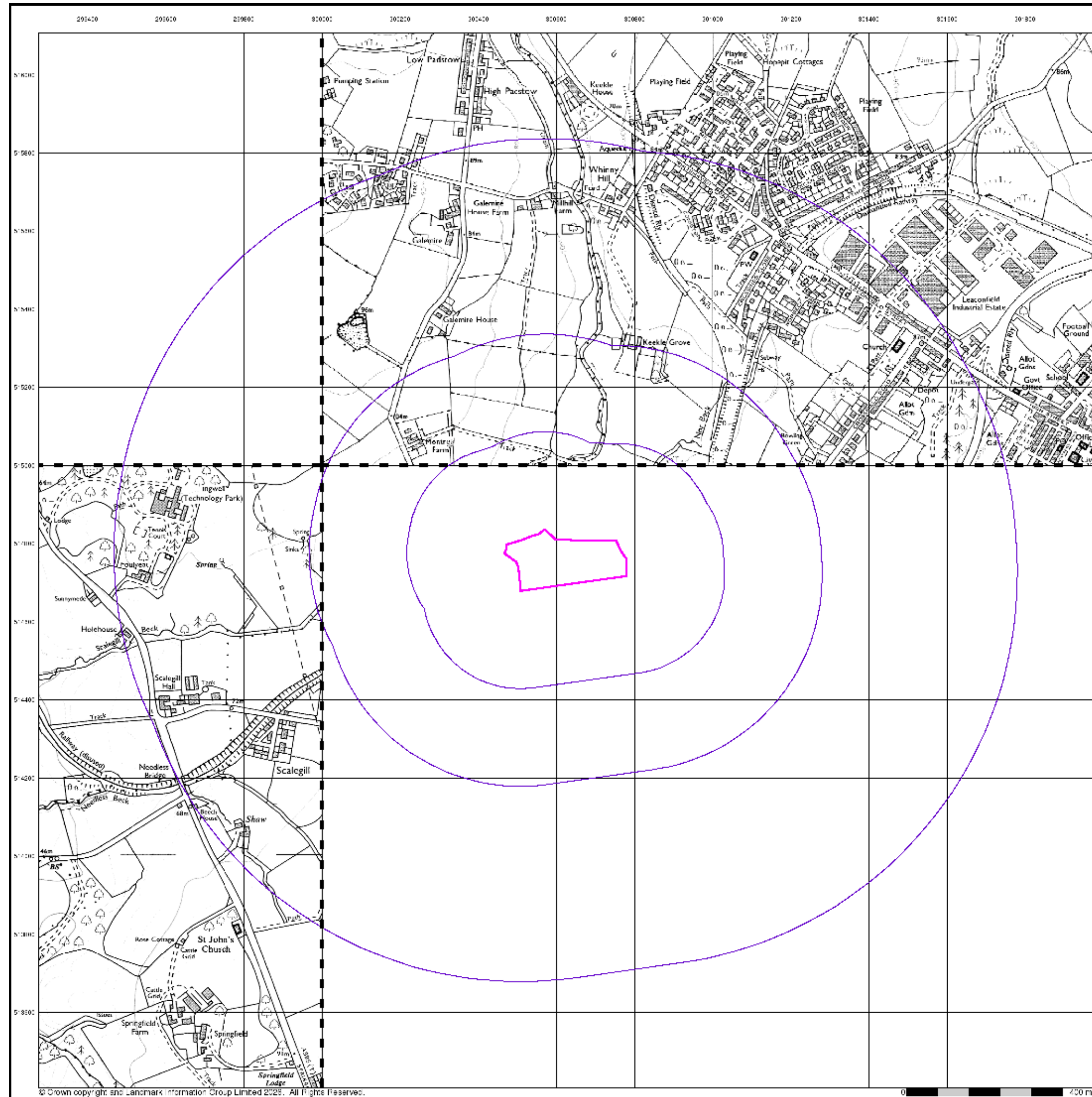
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
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Site Details

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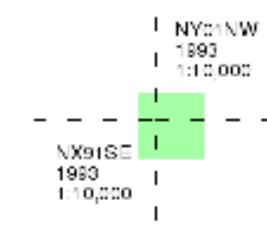
Ordnance Survey Plan

Published 1993

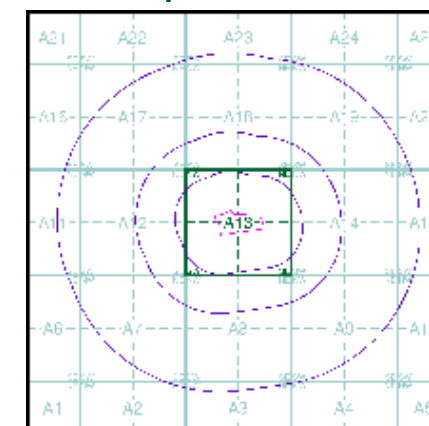
Source map scale - 1:10,000

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

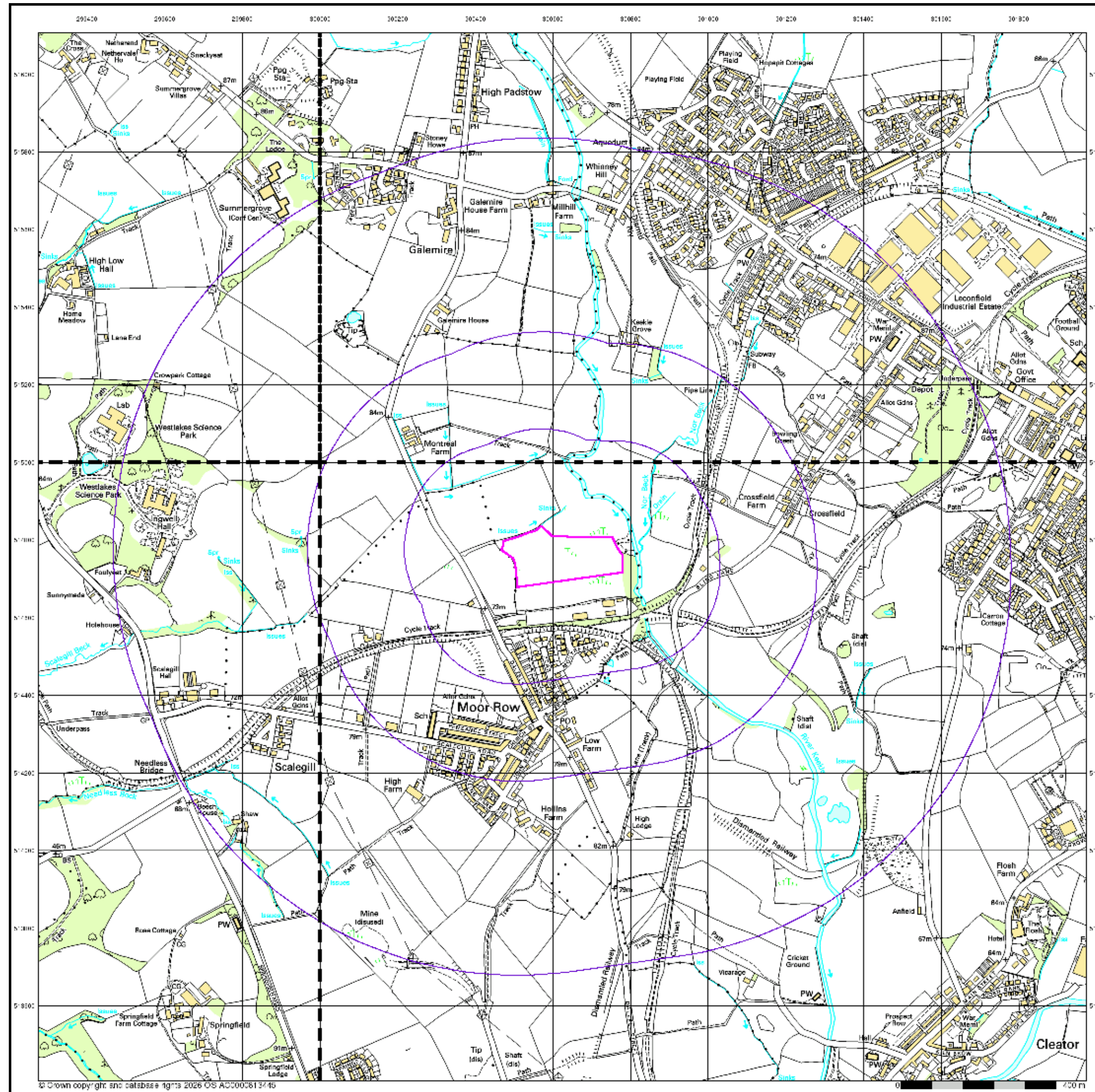
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2000

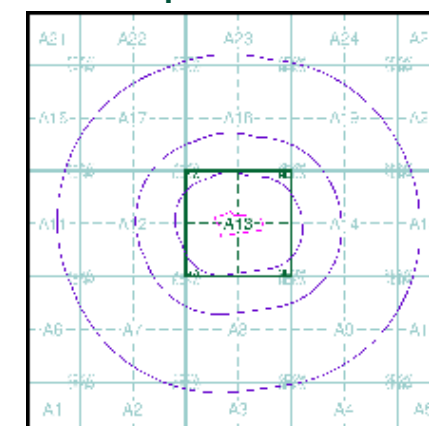
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NX81NE	NX81NW
2000	2000
1:10,000	1:10,000
NX81SE	NX81SW
2000	2000
1:10,000	1:10,000

Historical Map - Slice A



Order Details

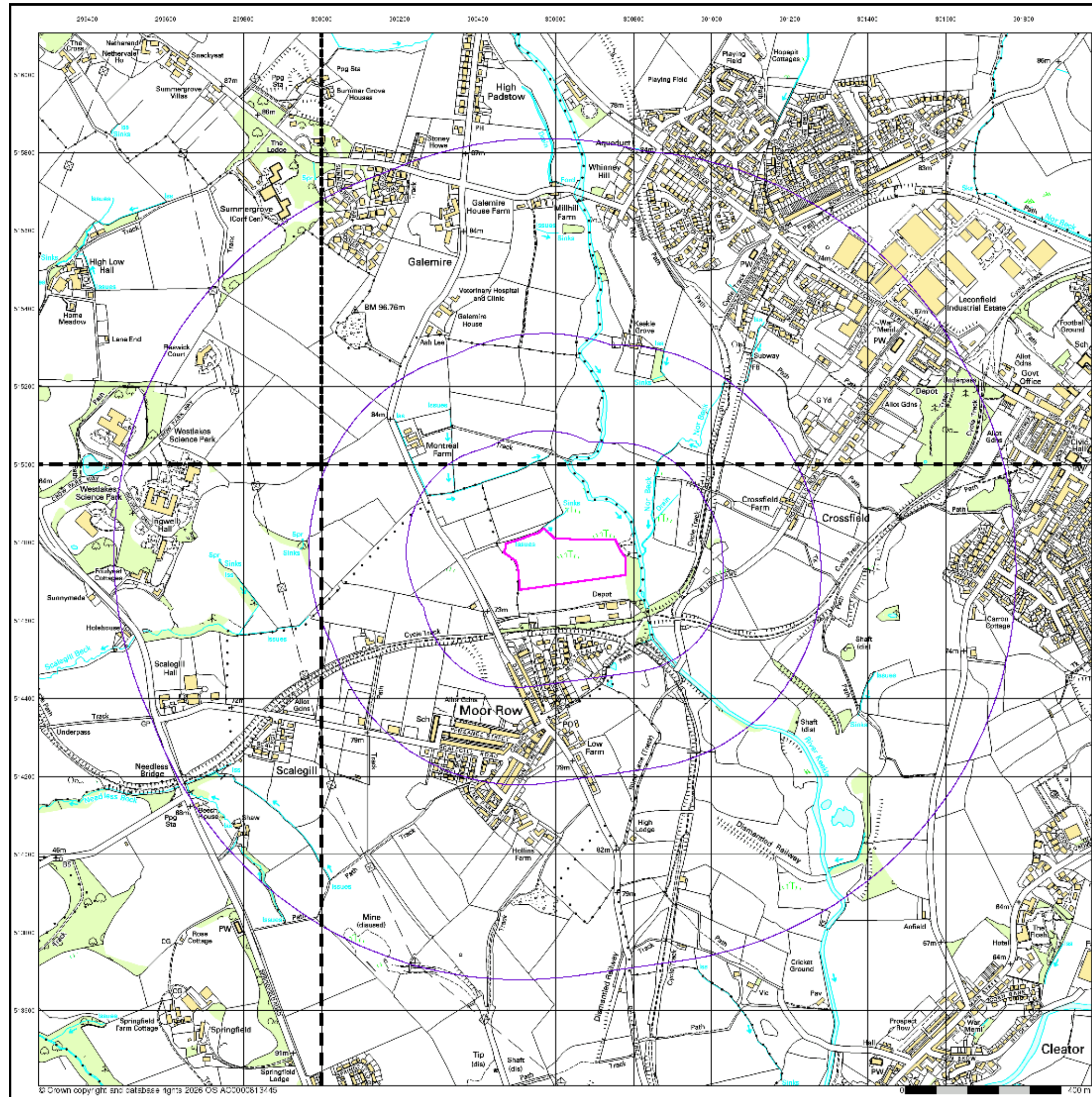
Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH

Landmark
INFORMATION GROUP

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



10k Raster Mapping

Published 2006

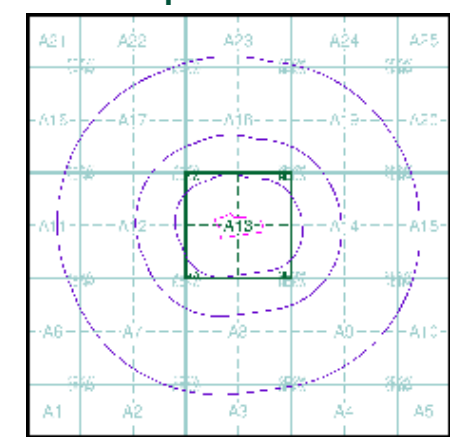
Source map scale - 1:10,000

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)

NX81NE	NX81NW
2006	2006
1:10,000	1:10,000
NX81SE	NX81SW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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VectorMap Local

Published 2025

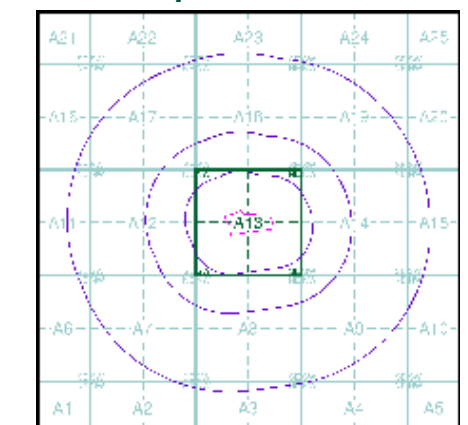
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NX01NE	NY01NW
2025	2025
Variable	Variable
NX01SE	NY01SW
2025	2025
Variable	Variable

Historical Map - Slice A



Order Details

Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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APPENDIX C
ENVIROCHECK REPORT



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

397250357_1_1

Customer Reference:

GSI 25673

National Grid Reference:

300620, 514750

Slice:

A

Site Area (Ha):

3.22

Search Buffer (m):

1000

Site Details:

Land at Dalzell Street

Moor Row

CA24 3LH

Client Details:

Mr I Walker

Geocon Site Investigations

Suite 2 Marple House,

39 Stockport Road,

Marple,

Stockport

Cheshire

SK6 6BD

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	22
Hazardous Substances	-
Geological	30
Industrial Land Use	42
Sensitive Land Use	-
Data Currency	47
Data Suppliers	52
Useful Contacts	53

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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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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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	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		5	8	7
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 7		1		1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7	Yes			
Pollution Incidents to Controlled Waters	pg 7		3	2	8
Historical Prosecutions					
Registered Radioactive Substances	pg 10				3
Substantiated Pollution Incident Register					
Water Abstractions	pg 10				4
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 11	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 12	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 12	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 12	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 12	Yes	Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 12	1	17	8	46
Water Framework Directive - Catchment	pg 20	Yes	Yes		Yes
Water Framework Directive - Groundwater	pg 21	Yes			
Water Framework Directive - Surface Waters	pg 21		Yes		

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 22		1		1
Historical Landfill Sites	pg 22		2		3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 23				2
Licensed Waste Management Facilities (Locations)	pg 23				1
Local Authority Landfill Coverage	pg 23	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 24				3
Potentially Infilled Land (Non-Water)	pg 24		2	3	16
Potentially Infilled Land (Water)	pg 25				3
Registered Landfill Sites	pg 26			2	5
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 30	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 30	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 33		4	7	19
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 38	Yes	n/a	n/a	n/a
Mining Instability	pg 38	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 38			1	7
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 39	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 40	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 40	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 40		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 40	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 41	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 41	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 42		1	9	15
Fuel Station Entries	pg 44				1
Points of Interest - Commercial Services	pg 44		1	3	4
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 45				12
Points of Interest - Public Infrastructure	pg 46			1	9
Points of Interest - Recreational and Environmental	pg 46			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					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (NE)	0	1	300623 514754
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	14	1	300623 514850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	81	1	300850 514800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	84	1	300623 514600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	129	1	300623 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	129	1	300500 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	136	1	300850 514600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	141	1	300450 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	164	1	300600 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	167	1	300623 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	204	1	300700 514500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	206	1	300900 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	206	1	300950 514600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	214	1	300600 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	221	1	301000 514700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	221	1	301000 514754
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	243	1	300900 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	246	1	300650 514450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	249	1	301000 514600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	270	1	301050 514754
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	276	1	301000 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	286	1	301000 514950

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	A14NW (E)	373	1	301100 514950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	381	1	300150 514550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	384	1	301050 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	398	1	301100 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	424	1	301100 515050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	429	1	300550 514250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	465	1	300623 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	468	1	300000 514754
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	484	1	301200 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A9NW (SE)	487	1	301100 514350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	493	1	301050 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A19SW (NE)	494	1	301150 515100
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017580238 Permit Version: 3 Effective Date: 2nd July 2018 Issued Date: 2nd July 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	92	2	300830 514640
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017580238 Permit Version: 2 Effective Date: 18th August 2004 Issued Date: 18th August 2004 Revocation Date: 1st July 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	92	2	300830 514640

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0089 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th August 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	92	2	300830 514640
1	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Blind Lane Cso 02627 Blind Lane, ., Cleator Moor, Cumbria, Ca25 5bu Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017580238 Permit Version: 1 Effective Date: 18th June 1992 Issued Date: Not Supplied Revocation Date: 17th August 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A13SE (E)	107	2	300870 514660
2	Discharge Consents Operator: Rmc Roadstone Ltd - North West Property Type: MAKING OF GLASS/CERAMICS/CEMENT/CUTTING STONE Location: Rmc (Northern), Moor Row, Cleator, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017490015 Permit Version: 1 Effective Date: 30th April 1981 Issued Date: Not Supplied Revocation Date: 17th March 1995 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	179	2	300500 514500
3	Discharge Consents Operator: Mr John Agnew Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Montreal Farm, Moor Row, Whitehaven, Cumbria, Ca24 3le Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Eprab3093vz Permit Version: 1 Effective Date: 7th January 2014 Issued Date: 7th January 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Un-Named Trib Of River Keekle Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	283	2	300339 515046

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Moor Road Combined Sewer Overflow Cleaton Moor, ., ., Cumbria, . Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017580237 Permit Version: 2 Effective Date: 24th May 2017 Issued Date: 8th June 2017 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	339	2	300960 514430
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Moor Road Combined Sewer Overflow Cleaton Moor, ., ., Cumbria, . Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017580237 Permit Version: 1 Effective Date: 18th June 1992 Issued Date: Not Supplied Revocation Date: 23rd May 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	339	2	300960 514430
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Moor Road Combined Sewer Overflow Cleaton Moor, ., ., Cumbria, . Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0090 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	343	2	300960 514425
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Moor Road Combined Sewer Overflow Cleaton Moor, ., ., Cumbria, . Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01cop0004 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 11th April 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	380	2	300990 514400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Moor Road Combined Sewer Overflow Cleaton Moor, ., ., Cumbria, . Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0004 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	380	2	300990 514400
6	Discharge Consents Operator: United Utilities Water Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Crossings Close, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470083 Permit Version: 1 Effective Date: 7th September 1993 Issued Date: Not Supplied Revocation Date: 7th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nori Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	490	2	301030 515210
6	Discharge Consents Operator: United Utilities Water Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Crossings Close, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0002 Permit Version: 1 Effective Date: 13th May 1993 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Unknown Environment: Receiving Water: Unknown Outlet; Licence Status: Revoked Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	490	2	301030 515210
7	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Crossing Close Sso, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470010 Permit Version: 1 Effective Date: 4th July 1979 Issued Date: Not Supplied Revocation Date: 30th July 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18SE (N)	533	2	300710 515350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0075 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nor Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	662	2	301130 515350
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Rear Garden Of 16 Crossings Close, Cleator Moor, Cumbria, Ca25 5qh Authority: Environment Agency, North West Region Catchment Area: Keekle Reference: 017480387 Permit Version: 1 Effective Date: 23rd October 2003 Issued Date: 23rd October 2003 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Nor Beck 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	A19SW (NE)	676	2	301140 515360
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0083 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	683	2	301145 515365
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017480286 Permit Version: 2 Effective Date: 5th March 2018 Issued Date: 5th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	684	2	301140 515370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Norbeck Park A Cso (Site 023a9) Norbeck Park A, ., Cleator Moor, Cumbria, Ca25 5rl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017480286 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 4th March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	684	2	301140 515370
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Crossings Close 'C', Cleator Moor, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0084 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Norbeck Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	684	2	301140 515370
9	Local Authority Pollution Prevention and Controls Name: RMC Technical Services Location: Station Yard, MOOR ROW, Cumbria, CA24 3JR Authority: Copeland Borough Council (now part of Cumberland Council), Environmental Health Department Permit Reference: CBC/95/006 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	79	3	300500 514600
10	Local Authority Pollution Prevention and Controls Name: Crossfield Garage Ltd Location: Leconfield Street, Cleator Moor, Ca25 5qa Authority: Copeland Borough Council (now part of Cumberland Council), Environmental Health Department Permit Reference: CBC/LAPPC/B/22 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	866	3	301368 515416
	Nearest Surface Water Feature	A13NW (NW)	0	-	300567 514831
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Tributary River Keeble Incident Date: 7th June 1994 Incident Reference: 94210050 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	79	2	300500 514600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	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: Keele Incident Date: 7th September 1993 Incident Reference: 93210107 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	119	2	300800 514600
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: Unknown Sewage Note: Keele Incident Date: 9th November 1993 Incident Reference: 93210125 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	248	2	300900 514500
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Keele Tributary Incident Date: 14th March 1995 Incident Reference: 95210032 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Vandalism Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	266	2	300301 515001
15	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Distribution System Location: Keele Ford, CLEATOR MOOR Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: Burst Distribution Main; Chlorinated Water Incident Date: 22nd September 1997 Incident Reference: 97210079 Catchment Area: Ehen Receiving Water: Freshwater Stream/River Cause of Incident: In River Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	371	2	300500 515200
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Nor Beck Incident Date: 1st September 1993 Incident Reference: 93210093 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	604	2	301100 515300
17	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: Keele Incident Date: 28th August 1992 Incident Reference: 92210216 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	750	2	301000 514000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Agricultural: General Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210048 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	865	2	300600 515700
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Keele Incident Date: 20th September 1993 Incident Reference: 93210099 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	874	2	300700 515700
20	Pollution Incidents to Controlled Waters Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210050 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	894	2	300800 515700
21	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Agricultural: General Note: Keele Incident Date: 18th February 1992 Incident Reference: 92210049 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	906	2	300300 515700
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Petrol Note: Nor Beck Incident Date: 16th July 1991 Incident Reference: 91210057 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	964	2	301300 515600
23	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Agricultural: General Note: Pow Beck Incident Date: 9th July 1991 Incident Reference: 91120064 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A11SE (W)	984	2	299500 514600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Registered Radioactive Substances Name: Cavendish Nuclear Limited Location: Environmental Laboratory, Westlakes Science And Technology Park, Moor Row, Whitehaven, Ca24 3hz Authority: Environment Agency, Head Office Permit Reference: JB3335DK Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied Status: Application has been determined by the EA Positional Accuracy: Located by supplier to within 100m	A11NE (W)	877	2	299600 514900
24	Registered Radioactive Substances Name: Sellafield Ltd Location: Westlakes Research Institute, Westlakes Science And Technology Park, Moor Row, Whitehaven, Cumbria, CA24 3JZ Authority: Environment Agency, North West Region Permit Reference: By3401 Dated: 21st February 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned within the geographical locality	A11NE (W)	891	2	299586 514906
25	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: Princess Royal Building, Westlakes Science And Technology Park, Moor Row, Whitehaven, Cumbria, Ca24 3ln Authority: Environment Agency, North West Region Permit Reference: Bw5713 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned within the geographical locality	A11NE (W)	997	2	299493 514989
26	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	688	2	299780 514790
26	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	688	2	299780 514790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NE (W)	968	2	299530 515020
27	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11NE (W)	968	2	299530 515020
	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: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial: >90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A13SW (NE)	0	2	300623 514754
	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: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial: >90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A13NW (NW)	0	2	300619 514762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Secondary Superficial Aquifer - Low Vulnerability Classification: Low Combined Vulnerability: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial >90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A13NE (NE)	0	2	300743 514814
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13SW (NE)	0	2	300623 514754
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (NE)	0	2	300623 514754
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (NW)	0	2	300619 514762
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (NE)	0	2	300623 514754
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (NE)	0	2	300743 514814
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (N)	0	2	300623 514835
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	136	2	300837 514594
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	0	2	300729 514808
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	136	2	300837 514594
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	0	4	300567 514831
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13SE (E)	38	4	300818 514757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13NE (NE)	38	4	300691 514911
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A13SE (E)	40	4	300818 514757
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (N)	62	4	300623 514871
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NE (NE)	99	4	300687 514906
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13NE (NE)	104	4	300690 514911
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: Underground Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13SE (SE)	106	4	300836 514627
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13SE (SE)	137	4	300842 514595
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 249.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	158	4	300507 514981
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 224.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13NE (N)	173	4	300638 514995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	173	4	300356 514926
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	173	4	300356 514926
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NE (N)	173	4	300638 514995
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 575.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A13SE (SE)	180	4	300852 514552
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (SE)	180	4	300822 514539
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (N)	181	4	300623 515009
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 335.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A13NE (NE)	225	4	300862 515003
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	323	4	300336 515089
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13NW (NW)	328	4	300335 515094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (NW)	343	4	300221 515030
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 584.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A18SE (N)	355	4	300728 515161
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18SE (N)	355	4	300728 515161
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (NW)	363	4	300213 515051
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18SE (NE)	421	4	300852 515215
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: Underground Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	492	4	301038 515208
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (W)	514	4	299954 514789
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	520	4	301084 515207
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NW (W)	521	4	299947 514779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SE (W)	527	4	299968 514608
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	615	4	299885 514577
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	618	4	299884 514574
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	645	4	299837 514640
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 751.5 Watercourse Level: Underground Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	676	4	301137 515362
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	676	4	301137 515362
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SE (SE)	681	4	301394 514424
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NE (SE)	696	4	301381 514365
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NE (SE)	697	4	301379 514361

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 186.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NE (SE)	698	4	301349 514309
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 2	A12SW (W)	704	4	299769 514690
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19NW (NE)	705	4	301067 515437
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Scalegill Beck Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	711	4	299788 514565
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 185.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19NW (NE)	717	4	301047 515460
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 250.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	718	4	301276 514198
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	724	4	299745 514744
73	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: Ehen-Calder Primacy: 1	A12SW (W)	728	4	299740 514755
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 2	A12SW (W)	729	4	299741 514721

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 2	A12SW (W)	729	4	299739 514752
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	729	4	299739 514752
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	730	4	299738 514755
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 445.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Needless Beck Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	839	4	299944 514058
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	862	4	299769 514235
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 451.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A18NE (N)	866	4	300662 515697
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 343.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NE (N)	866	4	300662 515697
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19NW (NE)	888	4	301118 515615
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 102.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 2	A19NW (NE)	888	4	301118 515615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SE (SE)	901	4	301391 514055
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 681.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A9SW (SE)	922	4	301296 513953
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Needless Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	930	4	299709 514204
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.5 Watercourse Level: Underground Permanent: True Watercourse Name: Scalegill Beck Catchment Name: Ehen-Calder Primacy: 1	A11SE (W)	946	4	299544 514573
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	952	4	299729 514131
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	955	4	299764 514081
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	964	4	299782 514044
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	967	4	299783 514039
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	967	4	299783 514039

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Scalegill Beck Catchment Name: Ehen-Calder Primacy: 1	A11SE (W)	970	4	299521 514562
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7SW (SW)	972	4	299842 513970
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19NW (NE)	979	4	301115 515716
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Scalegill Beck Catchment Name: Ehen-Calder Primacy: 1	A11SE (W)	987	4	299509 514544
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: Underground Permanent: True Watercourse Name: Needless Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	988	4	299654 514182
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	988	4	299654 514182
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 327.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Scalegill Beck Catchment Name: Ehen-Calder Primacy: 1	A11SE (W)	993	4	299504 514536
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Keekle (lower) WaterBody ID: GB112074070000 Operational Catchment: Ehen-Calder Management Catchment: South West Lakes Catchment Name: West Cumbria	A13SW (NE)	0	2	300623 514754
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Pow Beck (South West Lakes) WaterBody ID: GB112074069990 Operational Catchment: Ehen-Calder Management Catchment: South West Lakes Catchment Name: West Cumbria	A13SW (SW)	97	2	300530 514580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Ehen (upper including Liza) WaterBody ID: GB112074070010 Operational Catchment: Ehen-Calder Management: South West Lakes Catchment: West Cumbria Catchment Name: West Cumbria	A15SW (E)	874	2	301640 514560
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Ehen (lower) WaterBody ID: GB112074069980 Operational Catchment: Ehen-Calder Management: South West Lakes Catchment: West Cumbria Catchment Name: West Cumbria	A3NW (S)	979	2	300370 513710
	Water Framework Directive - Groundwater Waterbody Name: Derwent and West Cumbria Lower Palaeozoic and Carboniferous Aquifers Waterbody ID: GB41202G103700 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB41202G103700 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2019	A13SW (NE)	0	2	300623 514754
	Water Framework Directive - Surface Waters Class Code: River Waterbody Name: Keekle (Lower) Waterbody ID: GB112074070000 URL Address: Not Supplied Overall Rating: Not Assessed Chemical Rating: Not Assessed Classification Year: 2022	A13NE (NE)	38	2	300697 514908

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	BGS Recorded Landfill Sites Site Name: Crossfield Tip Location: Crossfield Moor, CLEATOR MOOR, Cumberland Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13SE (SE)	198	-	300920 514578
101	BGS Recorded Landfill Sites Site Name: Jacktrees Rd Location: CLEATOR MOOR, Cumberland Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A9SE (SE)	931	-	301407 514030
102	Historical Landfill Sites Licence Holder: Not Supplied Location: Crossfield Moor, Cleator Moor, Cumberland Name: Crossfield Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD32003 First Input Date: 22nd December 1970 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2480 Other Ref: Not Supplied	A13SE (SE)	198	2	300921 514578
103	Historical Landfill Sites Licence Holder: Cumbria County Council Location: Crossfields Road, Cleator Moor, Cumbria Name: Montreal Mine Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07848 First Input Date: 31st December 1977 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0178 BGS Ref: Not Supplied Other Ref: E108.58, R19, E160.77	A14SW (E)	215	2	300993 514688
104	Historical Landfill Sites Licence Holder: Not Supplied Location: Whitehaven Road, Cleator Moor Name: St Begas Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD35312 First Input Date: Not Supplied Last Input Date: 13th April 1979 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: Not Supplied	A19NW (NE)	706	2	301065 515439

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	Historical Landfill Sites Licence Holder: Newdale Construction Limited Location: Whinney Hill, Cleator Moor, Cumbria Name: Railway Cuttings Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07946 First Input Date: 31st December 1979 Last Input Date: 30th September 1985 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0174 BGS Ref: Not Supplied Other Ref: 58	A18NE (N)	731	2	300877 515526
106	Historical Landfill Sites Licence Holder: R and B Milburn Location: Keekle, Cleator Moor, Cumbria Name: Galemire Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07763 First Input Date: 31st December 1948 Last Input Date: 31st December 1984 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0035 BGS Ref: Not Supplied Other Ref: 87	A18NW (N)	809	2	300297 515596
107	Licensed Waste Management Facilities (Landfill Boundaries) Name: Galemire Quarry Licence Number: 57283 Location: CUMBRIA COUNTY COUNCIL, Galemire Quarry, Keekle, Cleator Moor, Cumbria, CA25 5QU Licence Holder: Cumbria County Council Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Closure Issued: 17th October 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A17SE (NW)	617	2	300110 515297
108	Licensed Waste Management Facilities (Landfill Boundaries) Name: Jacktrees Road Landfill Licence Number: 57253 Location: CUMBRIA COUNTY COUNCIL, Jacktrees Road, Cleator Moor, Cumbria, CA25 5BB Licence Holder: Cumbria County Council Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Max Input Rate: Not Supplied Licence Status: Closure Issued: 28th April 1994 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A9SE (SE)	927	2	301406 514033
109	Licensed Waste Management Facilities (Locations) Licence Number: 57283 Location: Galemire Quarry, Keekle, Cleator Moor, Cumbria, CA25 5QU Operator Name: CUMBRIA COUNTY COUNCIL Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) Licence Status: Closed Issued: 17th October 1994 Last Modified: 13th September 2023 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	626	2	300100 515300
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	300623 514754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	5	300623 514754
110	Local Authority Recorded Landfill Sites Location: Galemire Quarry, Keekle Reference: 283 Authority: Copeland Borough Council (now part of Cumberland Council), Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A17SE (NW)	530	3	300201 515253
111	Local Authority Recorded Landfill Sites Location: Galemire Farm, Keekle Reference: 87 Authority: Copeland Borough Council (now part of Cumberland Council), Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A18NW (N)	808	3	300313 515601
112	Local Authority Recorded Landfill Sites Location: Jacktrees Road, Cleator Moor Reference: 253 Authority: Copeland Borough Council (now part of Cumberland Council), Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SE (SE)	923	3	301395 514029
113	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A13SE (SE)	136	7	300847 514598
114	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A13SE (S)	238	7	300667 514461
115	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SW (SE)	311	7	301042 514549
116	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SW (SE)	356	7	301005 514441
117	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SW (E)	403	7	301143 514542
118	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A9NW (SE)	542	7	301071 514260
119	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A9NW (SE)	597	7	301272 514379
120	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SE (E)	624	7	301391 514592

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
121	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SW (NE)	643	7	301008 515396
122	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SE (E)	681	7	301434 514528
123	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A8SE (S)	687	7	300730 514016
124	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SE (E)	699	7	301475 514647
125	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14NE (E)	714	7	301450 515003
126	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A9NE (SE)	717	7	301420 514394
127	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A18NE (N)	743	7	300743 515559
128	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A19SE (NE)	753	7	301381 515222
129	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14SE (E)	798	7	301547 514498
130	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A18NW (N)	803	7	300307 515594
131	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A14NE (E)	830	7	301591 514928
132	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A8SW (S)	926	7	300386 513761
133	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1972	A15SW (E)	943	7	301721 514656
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A19SW (NE)	669	7	301133 515356
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A19NE (NE)	973	7	301351 515573
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A19NE (NE)	984	7	301504 515443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Registered Landfill Sites Licence Holder: Cumbria County Contracting Licence Reference: R46 Site Location: Montreal (2), Cleator Moor, Cleator, Cumbria Licence Easting: 301200 Licence Northing: 514700 Operator Location: Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st May 1979 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: Certain Notifiable Wastes House, Com + Ind.Waste	A14SW (E)	420	2	301200 514700
137	Registered Landfill Sites Licence Holder: Cumbria County Contracting Licence Reference: R19 Site Location: Montreal Mine (1), Cleator Moor, Cleator, Cumbria Licence Easting: 301200 Licence Northing: 514700 Operator Location: Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st June 1977 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: Household + Commercial Waste	A14SW (E)	420	2	301200 514700
138	Registered Landfill Sites Licence Holder: B Milburn Licence Reference: 108/M1 Site Location: Galemire Quarry, Keekle, Cleator Moor, Cleator, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 14 Loop Road South, Whitehaven, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 14th December 1984 Preceded By: 87/M1 Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Building Rubble Hard Bonded Asbestos Surplus Excavated Materials	A17SE (NW)	529	2	300202 515252

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Registered Landfill Sites Licence Holder: Cumbria County Contracting Licence Reference: 283/M2 Site Location: Galemire Quarry, Keekle, Cleator Moor, Cleator, Cumbria Licence Easting: 300100 Licence Northing: 515350 Operator Location: Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill - with transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 17th October 1994 Preceded By: R82 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Bitum./Asphaltic Mat'L Ex Road/Carpark Concrete,Brick,Slate,Glass,Ceramic Inert Mat'L Consisting Of Max.Waste Permitted By Licence Soil,Sand,Clay,Stone Prohibited Waste Agricultural Wastes Animal Flesh Clinical - As In Control.Waste Regs'92 Foodstuffs Gulley Emptyings Hard Bonded Asbestos Hard/Bonded Asbestos Prods Leachate Forming Mat'ls Liquid Wastes Metal Objects Mine And Quarry Wastes Paper/Cardboard Waste Plasterboard/Plaster Plastic Objects Road Sweepings/Litter Spec.Waste (Epa'90:S62/1996 Regs) Textiles Vegetable Matter Waste In Demountable Containers Waste N.O.S. Wood, Timber, Sawdust	A17SE (NW)	667	2	300100 515350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Registered Landfill Sites Licence Holder: Cumbria C.C. Licence Reference: R82 Site Location: Galemire Quarry, Keekle, Cleator Moor, Cleator, Cumbria Licence Easting: 300100 Licence Northing: 515350 Operator Location: County Contracting, Barras Lane, DALSTON, Cumbria, CA5 7ND Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Record superseded Dated: 1st November 1993 Preceded By: Not Given Licence: Superseded By: 283/M2 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Bitum/Asphaltic Road/Carpark Surfacing Hard/Bonded Asbestos Prod Ex Cons/Dem. Inert Concrete, Bricks Inert Slate, Glass, Ceramic Mat'Ls Inert Soil, Sand, Clay, Stone Max.Waste Permitted By Licence Prohibited Waste: Agricultural Wastes Animal Flesh Clinical - As In Control.Waste Regs'92 Difficult Wastes (As In Wmp.26) Foodstuffs Gulley Emptyings Leachate Forming Wastes Liquid Wastes Metal Objects Paper/Cardboard Waste Plasterboard/Plaster Plastic Objects Special Wastes Textiles Vegetable Matter Waste In Demountable Containers Wood, Timber, Sawdust	A17SE (NW)	667	2	300100 515350
140	Registered Landfill Sites Licence Holder: Newdale Construction Ltd Licence Reference: 58/M3 Site Location: Railway Cutting, Whinney Hill, Cleator Moor, Cleator, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 55 Washington Street, Workington, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill - Railway cutting Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Dated: 1st February 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Constr'N/Demol. Inert/Non-Haz/Non-Tox Excavated Natural Materials \$ Hard Bonded Asbestos Hardcore And Rubble	A18NE (N)	739	2	300882 515534

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Registered Landfill Sites Licence Holder: R & B Milburn Licence Reference: 87/M1 Site Location: Galemire Farm, Keekle, Cleator Moor, Cleator, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: 14 Loop Road South, Whitehaven, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence revoked Dated: 17th May 1982 Preceded By: Not Given Licence: Superseded By: 108/M1 Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Controlled Wastes Hardcore And Rubble	A18NW (N)	818	2	300310 515610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13SW (NE)	0	1	300623 514754
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A13NE (E)	0	1	300753 514760
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SE (S)	0	1	300643 514689
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (NE)	0	1	300623 514754
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (N)	164	1	300623 515000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	187	1	300911 514583
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	203	1	300823 514506
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	225	1	300938 514557

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: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	229	1	300785 514484
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A12NE (W)	413	1	300057 514817
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	537	1	301308 514621
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment 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:	A17SE (NW)	543	1	300161 515246
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A12SW (SW)	626	1	299927 514448
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	636	1	301395 514916

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: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	752	1	301500 514500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	771	1	301293 514141
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NE (SE)	787	1	301372 514198
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A15SW (E)	920	1	301674 514500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A15SW (E)	920	1	301674 514500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	937	1	300842 513780

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: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A3NW (S)	959	1	300431 513713
142	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 12 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140682 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	211	1	300934 514573
143	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140677 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14NW (E)	224	1	301002 514773
143	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 4, Air Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 263658 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: Replacement Mineral Body In Carboniferous Limestone Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14NW (E)	238	1	301010 514815
143	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 4, Air Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 263658 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A14NW (E)	238	1	301010 514815
144	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, New No. 1 Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 263659 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: Replacement Mineral Body In Carboniferous Limestone Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SW (E)	319	1	301070 514583

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	BGS Recorded Mineral Sites Site Name: Moor Row Iron Ore Mine, Pit No. 2 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140683 Type: Underground Status: Ceased Operator: Executors Of The Late Thos. Hy. Dalzell Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8NE (S)	334	1	300650 514362
146	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 5 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140678 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	383	1	301090 514492
147	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine, Pit No. 5 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140680 Type: Underground Status: Ceased Operator: Crossfield Mines Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	394	1	301055 514435
148	BGS Recorded Mineral Sites Site Name: Whinny Hill Collieries, No. 1 Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147957 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	444	1	300953 515202
148	BGS Recorded Mineral Sites Site Name: Whinny Hill Collieries, Dean'S Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147956 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	476	1	300940 515244
149	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine, Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 263660 Type: Opencast Status: Ceased Operator: Crossfield Mines Operator Location: Not Supplied Periodic Type: Not Available Geology: Replacement Mineral Body In Carboniferous Limestone Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	493	1	301135 514375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
150	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 6 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140681 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SE (E)	563	1	301339 514653
151	BGS Recorded Mineral Sites Site Name: Moor Row Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140684 Type: Underground Status: Ceased Operator: Executors Of The Late Thos. Hy. Dalzell Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8NE (S)	577	1	300715 514125
152	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 263649 Type: Underground Status: Ceased Operator: Crossfield Mines Operator Location: Not Supplied Periodic Type: Not Available Geology: Replacement Mineral Body In Carboniferous Limestone Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SE (E)	596	1	301345 514528
153	BGS Recorded Mineral Sites Site Name: Galemire Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140657 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: St Bees Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	668	1	300088 515343
154	BGS Recorded Mineral Sites Site Name: Mill Hill Pit Location: Millhill Farm, Keele, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147950 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bannock Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NW (N)	668	1	300479 515497
155	BGS Recorded Mineral Sites Site Name: Montreal Iron Ore Mine, Pit No. 9 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140676 Type: Underground Status: Ceased Operator: John Stirling Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14SE (E)	672	1	301424 514526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine, Pit No. 3 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140679 Type: Underground Status: Ceased Operator: Crossfield Mines Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	674	1	301335 514335
157	BGS Recorded Mineral Sites Site Name: Whinny Hill Collieries, No. 3 Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147955 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	691	1	301234 515302
158	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine, Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 263657 Type: Underground Status: Ceased Operator: Crossfield Mines Operator Location: Not Supplied Periodic Type: Not Available Geology: Replacement Mineral Body In Carboniferous Limestone Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	694	1	301395 514395
159	BGS Recorded Mineral Sites Site Name: Whinny Hill Collieries, No. 2 Pit Location: Keeble, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147954 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	716	1	301010 515474
160	BGS Recorded Mineral Sites Site Name: Postlethwaite Iron Ore Mine, Pit No. 6 Location: Moor Row, Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140685 Type: Underground Status: Ceased Operator: Miles Postlethwaite Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8SW (S)	745	1	300538 513934
160	BGS Recorded Mineral Sites Site Name: Postlethwaite Iron Ore Mine, Pit No. 5 Location: Moor Row, Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140686 Type: Underground Status: Ceased Operator: Miles Postlethwaite Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8SW (S)	779	1	300559 513902

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
161	BGS Recorded Mineral Sites Site Name: Cleator Moor Iron Ore Mine, Pit No. 2 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140673 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14NE (E)	799	1	301553 514955
162	BGS Recorded Mineral Sites Site Name: Cleator Moor Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140672 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A14NE (E)	801	1	301537 515017
163	BGS Recorded Mineral Sites Site Name: Whinny Hill Pit Location: Millhill Farm, Keele, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147953 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A18NE (N)	822	1	300721 515644
164	BGS Recorded Mineral Sites Site Name: Galemire House Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140656 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: St Bees Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NE (N)	836	1	300269 515615
165	BGS Recorded Mineral Sites Site Name: Cleator Iron Ore Mine, Pit No. 6 Location: Cleator, Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140692 Type: Underground Status: Ceased Operator: Cleator Iron Ore Co. Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	923	1	301445 514077
166	BGS Recorded Mineral Sites Site Name: Crowpark Quarry Location: Crow Park Way, Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147936 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: St Bees Sandstone Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A16SE (W)	957	1	299587 515162

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	BGS Recorded Mineral Sites Site Name: Jacktrees Pit, No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140674 Type: Underground Status: Ceased Operator: Carron Co. Operator Location: Not Supplied Periodic Type: Not Available Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A15SW (E)	979	1	301755 514624
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (NE)	0	6	300623 514754
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	7	300623 514754
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (NE)	0	7	300623 514754
	Man-Made Mining Cavities Easting: 301200 Northing: 514600 Distance: 436 Quadrant Reference: A14 Quadrant Reference: SW Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A14SW (E)	436	7	301200 514600
	Man-Made Mining Cavities Easting: 301400 Northing: 514900 Distance: 637 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A14NE (E)	637	7	301400 514900
	Man-Made Mining Cavities Easting: 301500 Northing: 514500 Distance: 752 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A14SE (E)	752	7	301500 514500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 301500 Northing: 515000 Distance: 760 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A14NE (E)	760	7	301500 515000
	Man-Made Mining Cavities Easting: 301600 Northing: 515000 Distance: 856 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A14NE (E)	856	7	301600 515000
	Man-Made Mining Cavities Easting: 301500 Northing: 515300 Distance: 896 Quadrant Reference: A19 Quadrant Reference: SE Bearing Ref: NE Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A19SE (NE)	896	7	301500 515300
	Man-Made Mining Cavities Easting: 299900 Northing: 515500 Distance: 907 Quadrant Reference: A17 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A17NW (NW)	907	7	299900 515500
	Man-Made Mining Cavities Easting: 301700 Northing: 514600 Distance: 927 Quadrant Reference: A15 Quadrant Reference: SW Bearing Ref: E Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A15SW (E)	927	7	301700 514600
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	300623 514750
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	148	1	300334 514850
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	171	1	300548 514509

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	194	1	300396 514518
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	300743 514814
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	98	1	300878 514726
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	182	1	300492 515000
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	244	1	300901 515000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	300743 514814
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	98	1	300878 514726
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	161	1	300931 514662
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	171	1	300926 514628
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	182	1	300492 515000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	244	1	300901 515000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	187	1	300785 514484
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	187	1	300911 514583
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	247	1	300894 514498
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	12	1	300769 514691
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	114	1	300892 514768
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	300743 514814
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	98	1	300878 514726
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	182	1	300492 515000
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	244	1	300901 515000
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	161	1	300931 514662
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	164	1	300623 515000
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	300725 514775
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	300725 514775
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	300623 514754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	Contemporary Trade Directory Entries Name: Reisswolf Nw Ltd Location: Dalzell St, Moor Row, Cumbria, CA24 3JP Classification: Reclaiming - Waste Products Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	150	7	300466 514535
169	Contemporary Trade Directory Entries Name: M & M Secure Services Ltd Location: Dalzell St, Moor Row, Cumbria, CA24 3JP Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	262	7	300519 514417
169	Contemporary Trade Directory Entries Name: Willan Carpet Cleaning Location: 50, Dalzell Street, Moor Row, Cumbria, CA24 3JP Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	263	7	300516 514416
169	Contemporary Trade Directory Entries Name: Reisswolf Uk Location: Dalzell St, Moor Row, Cumbria, CA24 3JP Classification: Shredding Equipment & Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	272	7	300534 514408
170	Contemporary Trade Directory Entries Name: Reisswolf North West Location: Vineyard, Dalzell Street, Moor Row, Cumbria, CA24 3JP Classification: Shredding Equipment & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	314	7	300570 514371
171	Contemporary Trade Directory Entries Name: H Watterson Location: Moor Row, CA24 3JP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	361	7	300597 514327
172	Contemporary Trade Directory Entries Name: Central Garage Location: Penzance Street, Moor Row, Cumbria, CA24 3JH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	371	7	300497 514308
173	Contemporary Trade Directory Entries Name: Clean As A Whistle Location: 52, John Street, Moor Row, Cumbria, CA24 3JD Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	471	7	300493 514208
174	Contemporary Trade Directory Entries Name: Energy Solutions Location: Kelton House, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, CA24 3HX Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	486	7	300001 514916
174	Contemporary Trade Directory Entries Name: Redhall Nuclear Ltd Location: Kelton House, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, Cumbria, CA24 3HX Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	498	7	299986 514905
175	Contemporary Trade Directory Entries Name: Doosan Power Systems Location: Unit 8, Galemire Court, Crow Park Way, Moor Row, CA24 3HY Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	732	7	299771 515007

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	Contemporary Trade Directory Entries Name: Jacobs Uk Ltd Location: Galemire Court, Crow Park Way, Westlakes Science & Technology Park, Moor Row, Cumbria, CA24 3HY Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NW (W)	733	7	299770 515008
176	Contemporary Trade Directory Entries Name: Mossop Construction Services Location: Crossfield Road, Cleator Moor, Cumbria, CA25 5BY Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	748	7	301418 515149
177	Contemporary Trade Directory Entries Name: David Shepherd Location: Crossfield Rd, Cleator Moor, Cumbria, CA25 5BY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A19SE (NE)	817	7	301456 515222
178	Contemporary Trade Directory Entries Name: Shepley Engineers Ltd Location: Robinson House, Crow Park Way, Westlakes Science & Technology Park, Moor Row, CA24 3HY Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (W)	857	7	299686 515139
179	Contemporary Trade Directory Entries Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, Cumbria, CA25 5QA Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	866	7	301368 515416
180	Contemporary Trade Directory Entries Name: Fluor Location: Ingwell Hall, Ingwell Dr, Westlakes Science & Technology, Moor Row, Cumbria, CA24 3JZ Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A11NE (W)	890	7	299587 514906
180	Contemporary Trade Directory Entries Name: Pactec E P S Ltd Location: Ingwell Hall, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, Cumbria, CA24 3JZ Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	891	7	299587 514906
180	Contemporary Trade Directory Entries Name: Icon Controls Ltd Location: Ingwell Hall, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, Cumbria, CA24 3JZ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	891	7	299587 514906
180	Contemporary Trade Directory Entries Name: Pactec Eps Location: Ingwell Hall, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, CA24 3JZ Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	893	7	299583 514895
180	Contemporary Trade Directory Entries Name: E2 Location: Ingwell Hall, Unit 13 Ingwell Dr, Westlakes Science & Technology, Moor Row, Cumbria, CA24 3JZ Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A11NE (W)	896	7	299577 514874
181	Contemporary Trade Directory Entries Name: Multi Choice Cash Carry Location: Leconfield St, Cleator Moor, Cumbria, CA25 5QA Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	928	7	301473 515391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Contemporary Trade Directory Entries Name: Remploy Ltd Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Filter Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	942	7	301391 515499
183	Contemporary Trade Directory Entries Name: Opton (UK) Ltd Location: Leconfield Indust Est, Cleator Moor, Cumbria, CA25 5QB Classification: Fasteners & Fixing Devices Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19NE (NE)	956	7	301354 515550
184	Contemporary Trade Directory Entries Name: P Whelan & Son Location: Kerlin, Whitehaven Road, Cleator Moor, Cumbria, CA25 5QW Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	985	7	300954 515771
185	Fuel Station Entries Name: Crossfield Garage Location: Leconfield Street , , Cleator Moor, Cumbria, CA25 5QA Brand: Nisa Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A19SE (NE)	865	7	301368 515414
186	Points of Interest - Commercial Services Name: M & M Secure Services Ltd Location: Station Yard, Whitehaven, Moor Row, Cumbria, CA24 3JP Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A13SW (SW)	77	8	300526 514604
187	Points of Interest - Commercial Services Name: H Watterson Location: Dalzell Street, Moor Row, CA24 3JP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	360	8	300600 514328
188	Points of Interest - Commercial Services Name: Central Garage Location: Penzance Street, Moor Row, CA24 3JH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	371	8	300497 514308
188	Points of Interest - Commercial Services Name: Central Garage Location: Penzance Street, Moor Row, CA24 3JH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8NW (S)	371	8	300497 514308
189	Points of Interest - Commercial Services Name: David Shepherd Location: Crossfield Garage, Crossfield Road, Cleator Moor, CA25 5BY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SE (NE)	852	8	301498 515219
189	Points of Interest - Commercial Services Name: Mossop Construction Services Location: Crossfield Road, Cleator Moor, CA25 5BY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SE (NE)	873	8	301473 515299
190	Points of Interest - Commercial Services Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SE (NE)	863	8	301367 515413
190	Points of Interest - Commercial Services Name: Car Wash Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	301368 515416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
191	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	574	8	301322 514528
191	Points of Interest - Manufacturing and Production Name: Shaft (Disused) Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A14SE (E)	596	8	301344 514525
192	Points of Interest - Manufacturing and Production Name: Shaft Location: CA25 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A9NW (SE)	581	8	301220 514338
193	Points of Interest - Manufacturing and Production Name: Solar Panels Location: CA24 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	589	8	299902 514945
194	Points of Interest - Manufacturing and Production Name: Tank Location: CA24 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NW (W)	799	8	299670 514812
194	Points of Interest - Manufacturing and Production Name: Tanks Location: CA24 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	799	8	299670 514812
195	Points of Interest - Manufacturing and Production Name: Tank Location: CA24 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	830	8	299716 514423
196	Points of Interest - Manufacturing and Production Name: Bowness Location: Galemire Farm, Galemire, Cleator Moor, CA25 5QU Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A18NW (N)	840	8	300352 515647
197	Points of Interest - Manufacturing and Production Name: Shaft Location: CA24 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A8SW (S)	945	8	300360 513746
197	Points of Interest - Manufacturing and Production Name: Shaft Location: CA24 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	948	8	300366 513742
198	Points of Interest - Manufacturing and Production Name: Westlakes Science Park Location: CA24 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	964	8	299525 514978
198	Points of Interest - Manufacturing and Production Name: Westlakes Science Park Location: CA24 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	970	8	299518 514976

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	Points of Interest - Public Infrastructure Name: Energy Solutions Eu Location: Kelton House, Ingwell Drive, Westlakes Science & Technology Park, Moor Row, CA24 3HX Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12NE (W)	498	8	299986 514905
200	Points of Interest - Public Infrastructure Name: Graveyard Location: CA25 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	661	8	301300 515177
200	Points of Interest - Public Infrastructure Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	662	8	301299 515180
201	Points of Interest - Public Infrastructure Name: Tip Location: CA28 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	669	8	300083 515341
202	Points of Interest - Public Infrastructure Name: Spoil Heap Location: CA24 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	796	8	300549 513884
202	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: CA24 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	803	8	300550 513877
203	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SE (NE)	863	8	301367 515413
203	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, Cumbria, CA25 5BY Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	301368 515415
203	Points of Interest - Public Infrastructure Name: Crossfield Garage Ltd Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	301368 515416
203	Points of Interest - Public Infrastructure Name: Crossfield Garage Location: Leconfield Street, Cleator Moor, CA25 5QA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SE (NE)	866	8	301368 515416
204	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Scalegill Road, CA24 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	461	8	300231 514311
204	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	462	8	300229 514311

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Cumberland Council Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department Environment Agency - Head Office	December 2019 July 2025 November 2023	Annual Rolling Update Annual Rolling Update Annually
Discharge Consents Environment Agency - North West Region	January 2026	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 2025	Bi-Annually
Local Authority Integrated Pollution Prevention And Control Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department Cumberland Council	February 2015 February 2015	Variable Variable
Local Authority Pollution Prevention and Controls Cumberland Council Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department	February 2015 February 2015	Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department Cumberland Council	February 2015 February 2015	Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2026	
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 - North Area	July 2025	Quarterly
Water Abstractions Environment Agency - North West Region	January 2026	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	August 2025	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified

Agency & Hydrological	Version	Update Cycle
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	June 2025	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	January 2026	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 2025	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2025	Annually
Water Framework Directive - Surface Waters Environment Agency - Head Office	July 2025	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	November 2025	Bi-Annually
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 - North Area	November 2025	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	October 2025	Bi-Annually
Local Authority Landfill Coverage Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department Cumbria County Council - Economy And Environment Department Cumberland Council	February 2003 February 2003 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cumberland Council Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department Cumbria County Council - Economy And Environment Department	August 2006 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 - North Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - North Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - North Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2025	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 Copeland Borough Council (now part of Cumberland Council) - Planning Cumberland Council Lake District National Park Cumbria County Council - Development Control	August 2023 February 2016 January 2023 May 2023	Variable Variable Variable Variable
Planning Hazardous Substance Consents Cumberland Council Copeland Borough Council (now part of Cumberland Council) - Planning Lake District National Park Cumbria County Council - Development Control	February 2016 January 2023 January 2023 May 2023	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	April 2025	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	
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 2025	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2025	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	December 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	November 2025	Quarterly
Points of Interest - Commercial Services PointX	March 2026	Quarterly
Points of Interest - Education and Health PointX	March 2026	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2026	Quarterly
Points of Interest - Public Infrastructure PointX	March 2026	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2026	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	September 2025	Bi-Annually
Areas of Adopted Green Belt Copeland Borough Council (now part of Cumberland Council) - Planning Cumberland Council Lake District National Park	July 2025 July 2025 July 2025	Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Copeland Borough Council (now part of Cumberland Council) - Planning Cumberland Council Lake District National Park	July 2025 July 2025 July 2025	Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2025	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	January 2026	Bi-Annually
Marine Nature Reserves Natural England	February 2026	Bi-Annually
National Nature Reserves Natural England	January 2026	Bi-Annually
National Parks Natural England	September 2025	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 February 2026	Annually
Ramsar Sites Natural England	February 2026	Bi-Annually
Sites of Special Scientific Interest Natural England	November 2025	Bi-Annually
Special Areas of Conservation Natural England	January 2026	Bi-Annually
Special Protection Areas Natural England	November 2025	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	Copeland Borough Council (now part of Cumberland Council) - Environmental Health Department P O Box 19, Council Offices, Catherine Street, Whitehaven, Cumbria, CA28 7NY	Telephone: 01946 852585 Fax: 01946 590123 Email: dev.env@copelandbc.gov.uk Website: www.copelandbc.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
5	Cumbria County Council - Economy And Environment Department Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
6	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
7	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6619 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
8	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited 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.

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary
	FOUN	Foundered Strata	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	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
	PEAT	Peat	Peat	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SBS	St Bees Sandstone Member	Sandstone	Not Supplied - Early Triassic
	SBSH	St Bees Shale Formation	Siltstone and Mudstone, Interbedded	Not Supplied - GUADALUPIAN
	BK	Brockram	Breccia	Not Supplied - Cisuralian
	WS	Whitehaven Sandstone Formation	Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	LM1	First Limestone (Cumbria)	Limestone	Not Supplied - Namurian
	HG	Hensingham Grit	Sandstone	Not Supplied - Namurian
	SMGP	Stainmore Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	OBS	Orebank Sandstone	Sandstone	Not Supplied - Visean
	LM2	Second Limestone (Cumbria)	Limestone	Not Supplied - Visean
	SH1	First Shale Member	Sandstone, Siltstone and Mudstone	Not Supplied - Visean
	ESKT	Eskett Limestone Formation	Limestone	Not Supplied - Visean
	FRLI	Frizington Limestone Formation	Limestone	Not Supplied - Visean
	MASA	Marsett Sandstone Formation	Conglomerate	Not Supplied - Tournaisian
	LDDMI	Lake District Devonian Minor Intrusion Suite	Andesite	Not Supplied - Early Devonian
	BUF	Buttermere Formation	Mudstone and Sandstone	Not Supplied - Tremadoc
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

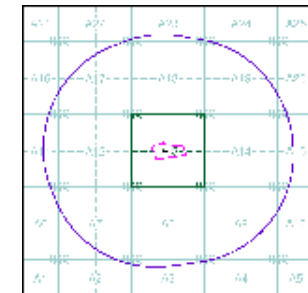
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	028
Map Name:	Whitehaven
Map Date:	2004
Bedrock Geology:	Available
Superficial Geology:	Not Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

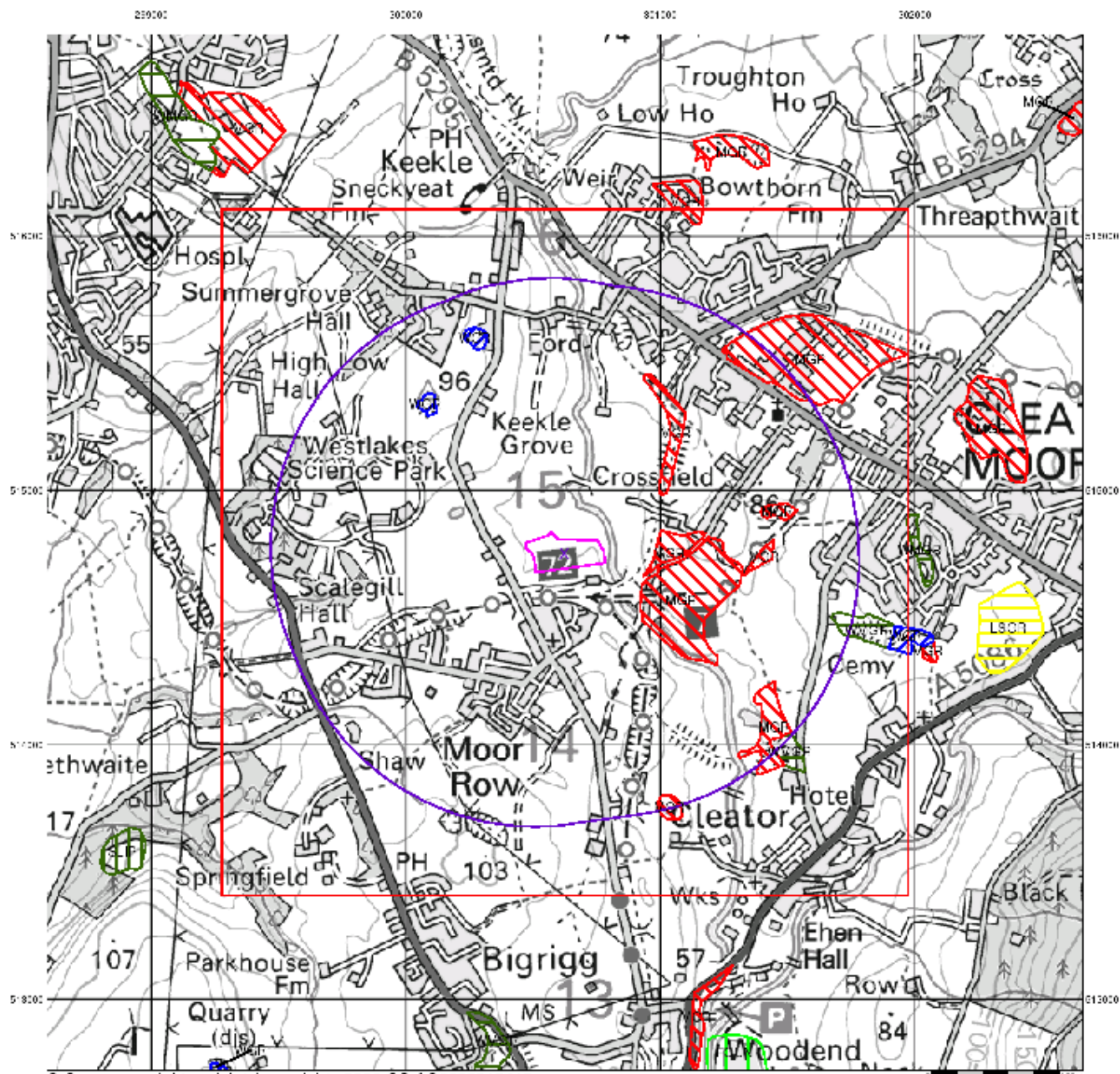
Order Number:	397250357_1_1
Customer Reference:	GSI 25673
National Grid Reference:	300620, 514750
Slice:	A
Site Area (Ha):	3.22
Search Buffer (m):	1000

Site Details:

Land at Dalzell Street, Moor Row, CA24 3LH



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



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Artificial Ground and Landslip

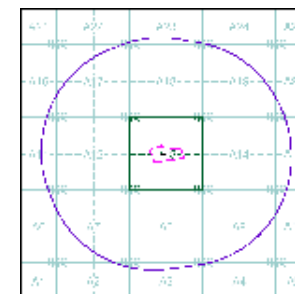
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 397250357_1_1
 Customer Reference: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

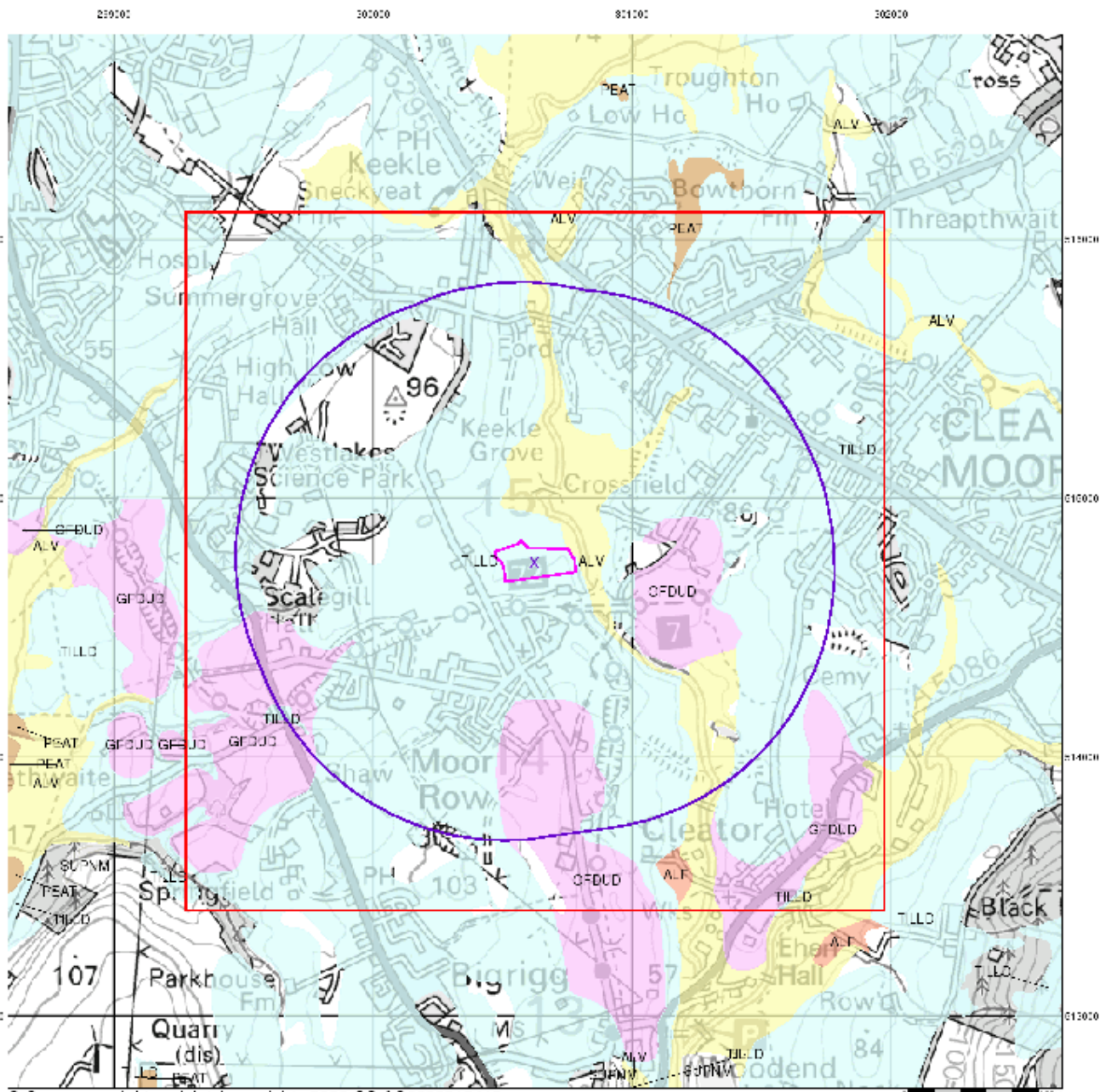
Site Details:

Land at Dalzell Street, Moor Row, CA24 3LH



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

v15.0 05-Mar-2026



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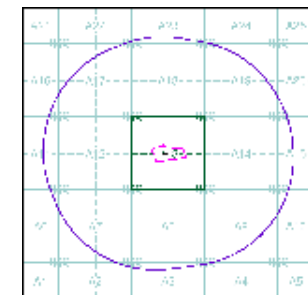
Superficial Geology

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: 397250357_1_1
 Customer Reference: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

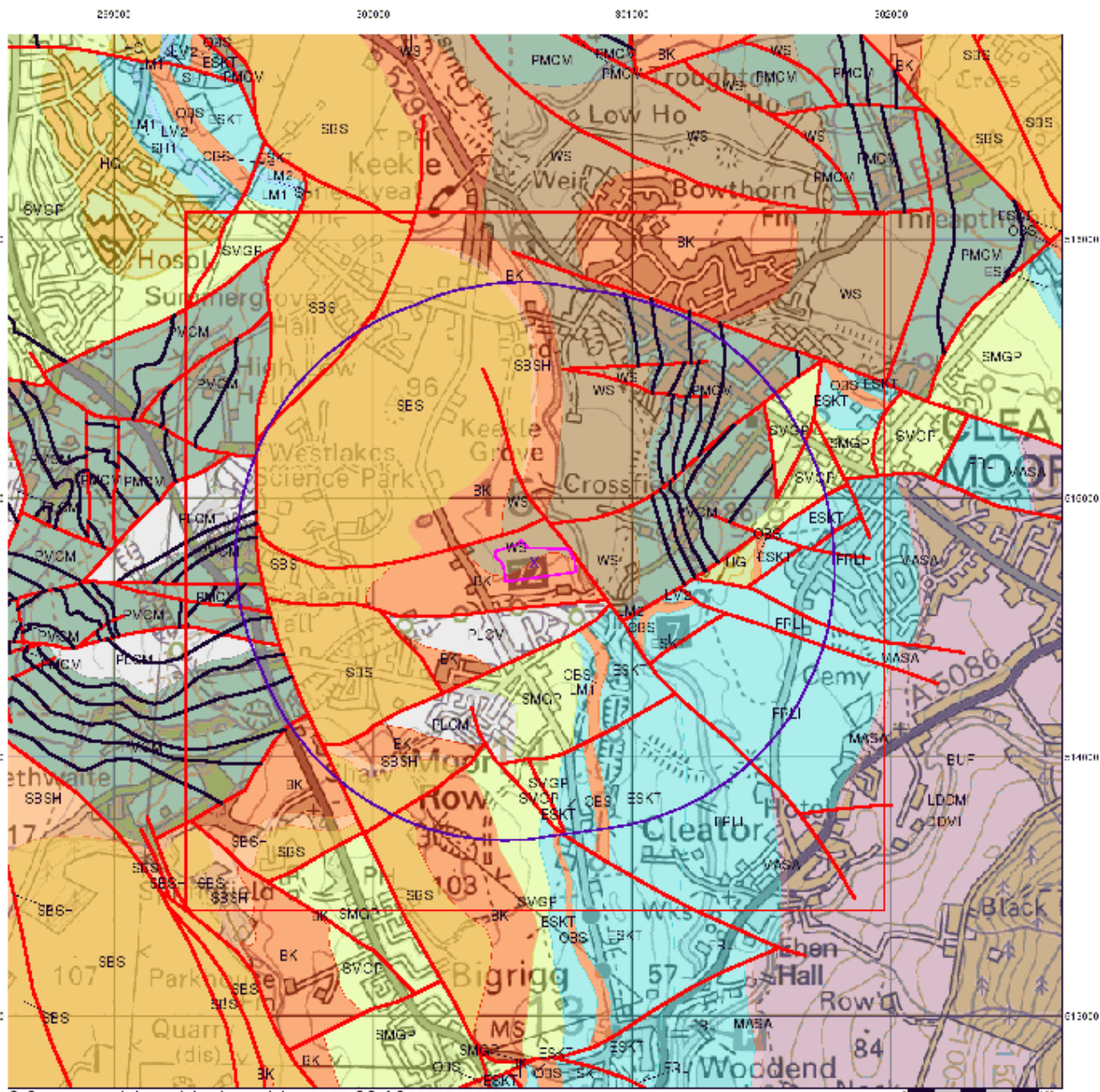
Site Details:

Land at Dalzell Street, Moor Row, CA24 3LH



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

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Bedrock and Faults

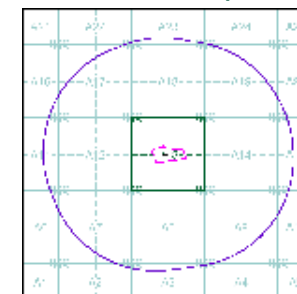
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 397250357_1_1
 Customer Reference: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

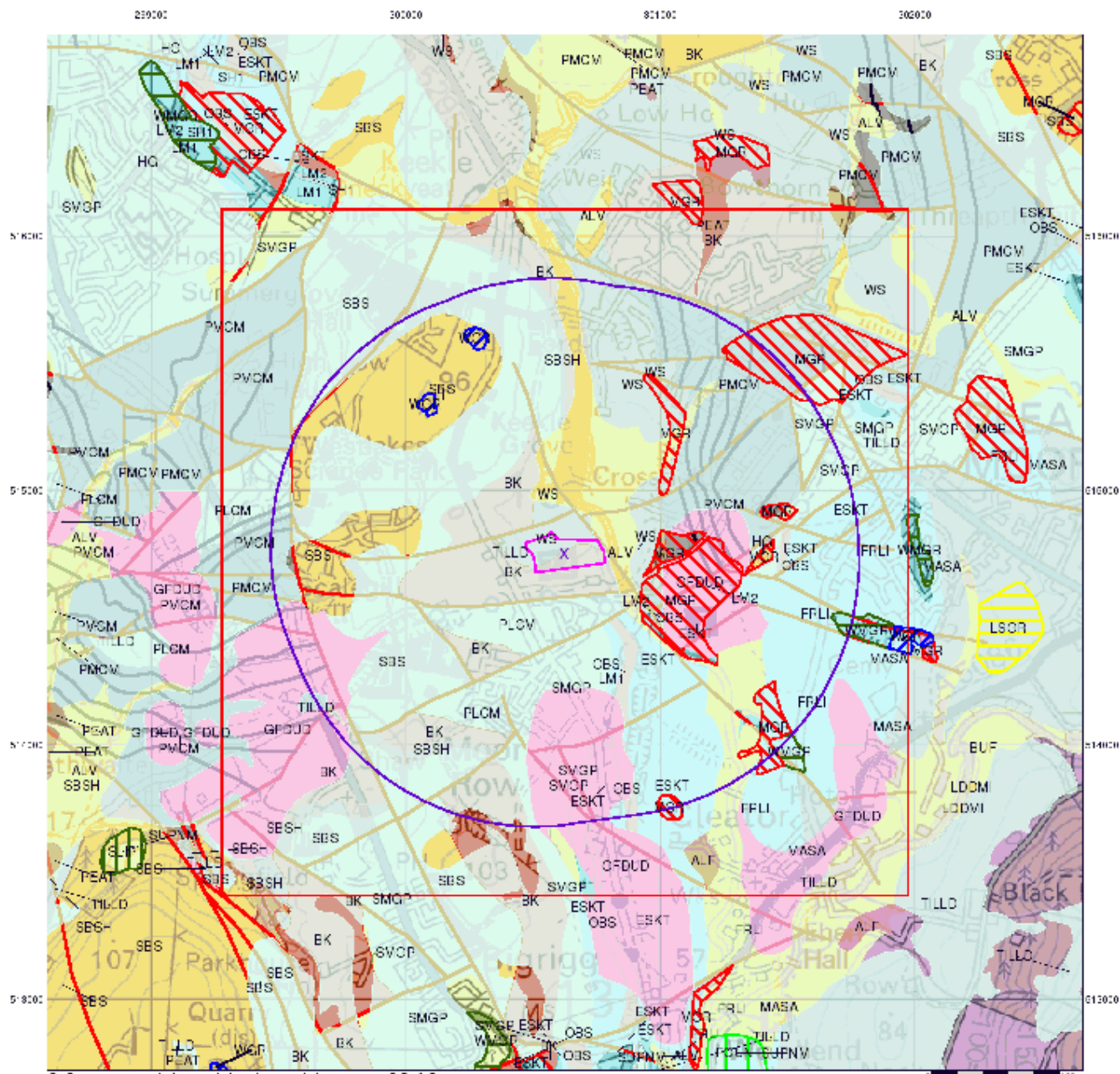
Site Details:

Land at Dalzell Street, Moor Row, CA24 3LH



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

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Combined Surface Geology

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

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

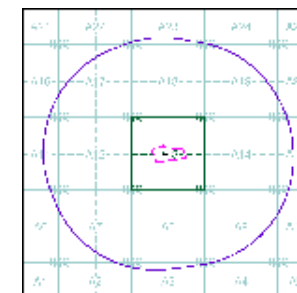
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 397250357_1_1
Customer Reference: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details:

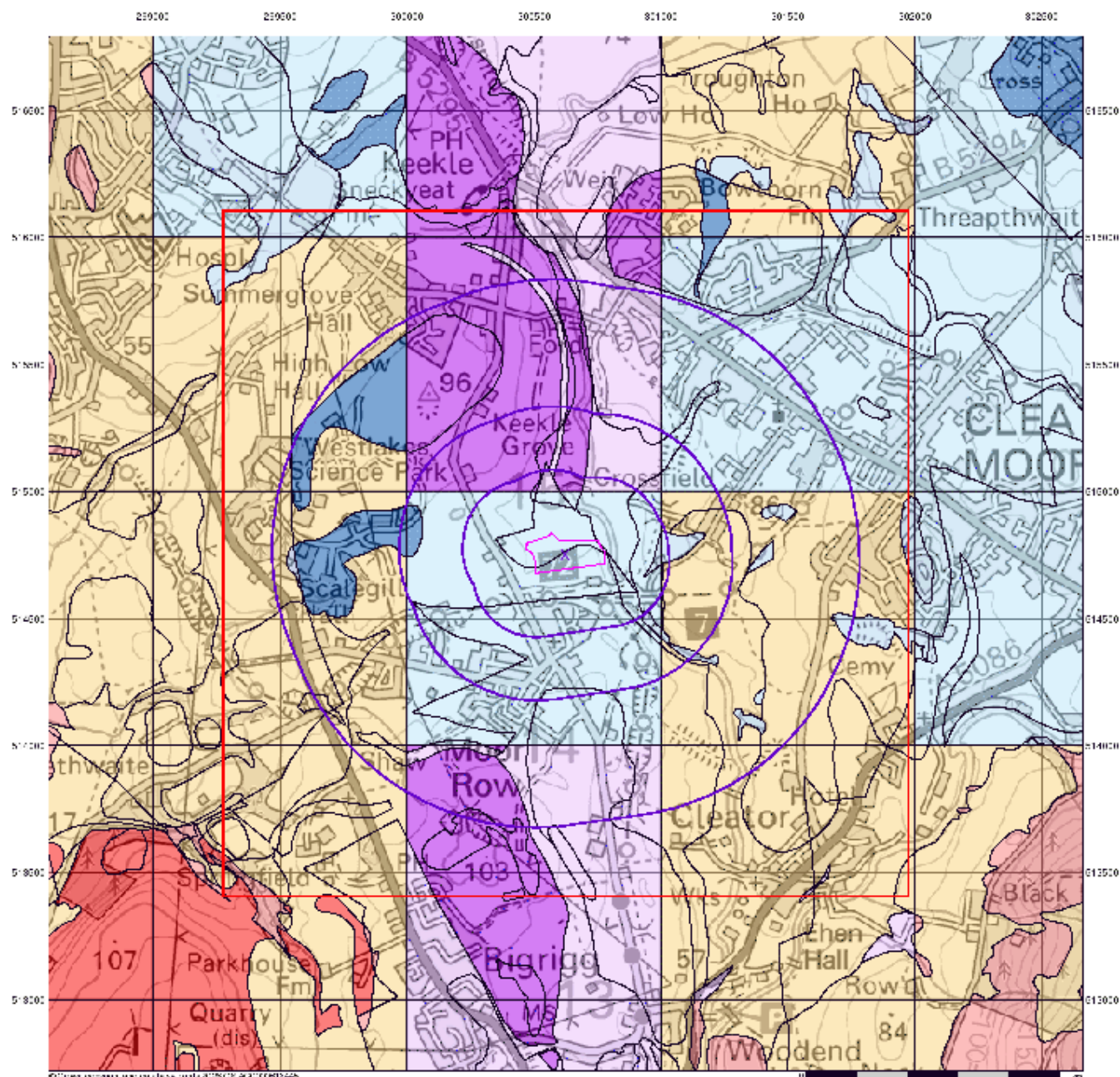
Land at Dalzell Street, Moor Row, CA24 3LH



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

v15.0 05-Mar-2026

Page 5 of 5



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Groundwater Vulnerability

General

Boundary Line
 Site
 Search Buffer
 Bedrock Buffer
 Bedrock Buffer Point

Agency and Hydrological

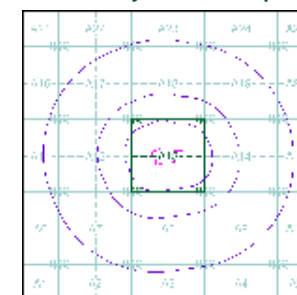
Bedrock Aquifers

High Vulnerability, Principal Aquifer
 High Vulnerability, Secondary Aquifer
 Medium Vulnerability, Principal Aquifer
 Medium Vulnerability, Secondary Aquifer
 Low Vulnerability, Principal Aquifer
 Low Vulnerability, Secondary Aquifer
 Unproductive Aquifer
 Soluble Rock

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

Site Sensitivity Context Map - Slice A



Order Details

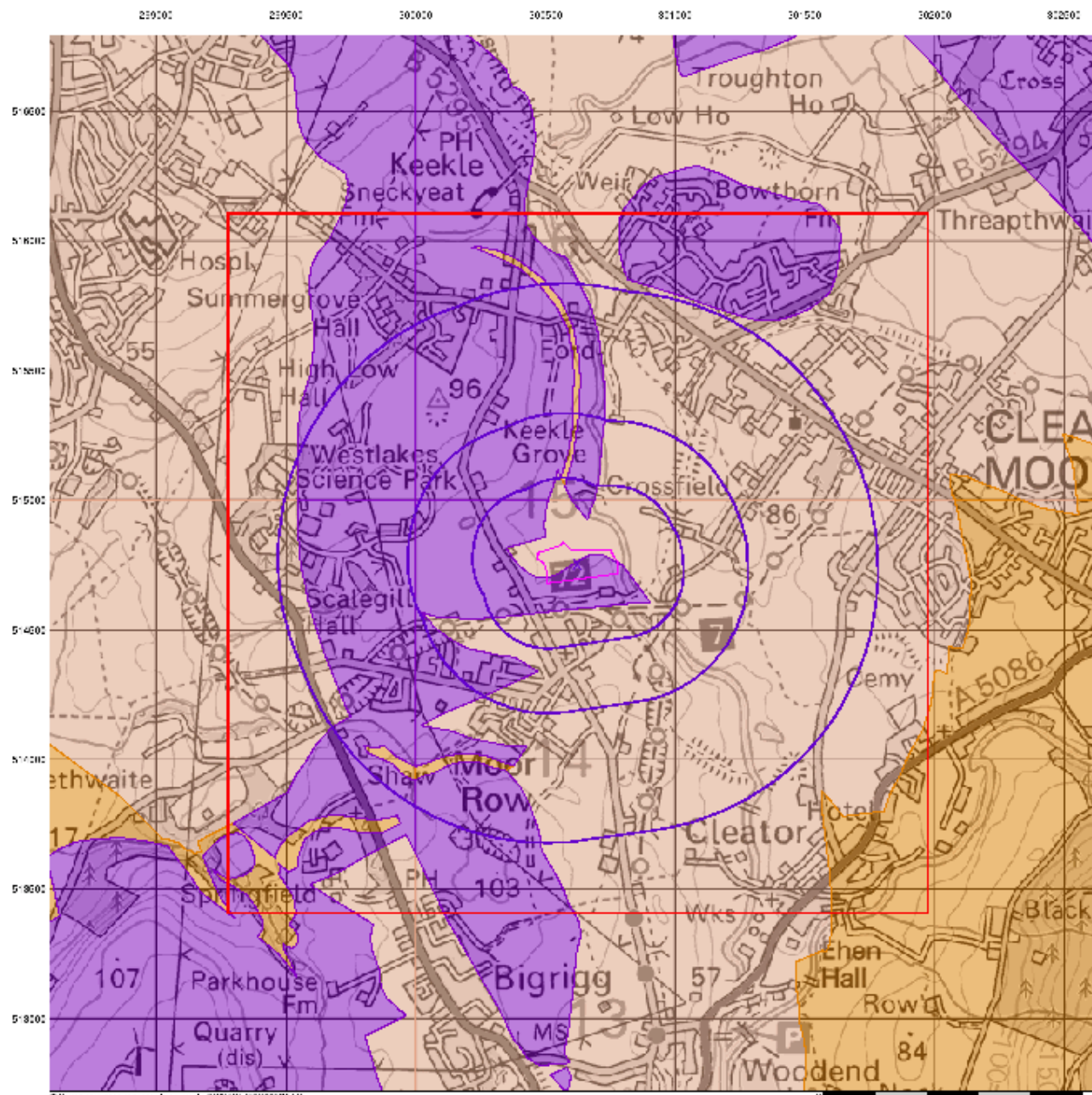
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH

Landmark
 Environmental & Geotechnical

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Bedrock Aquifer Designation

General

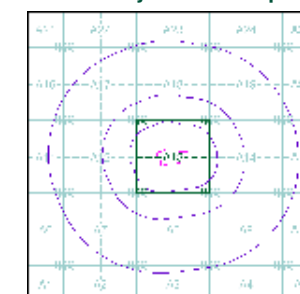
- ✱ Boundary Line
- ✱ Search Buffer
- ✱ Bedrock Point
- Slice
- Road

Agency and Hydrological

Geological Classes

- Primary Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (loess and landslip)

Site Sensitivity Context Map - Slice A



Order Details

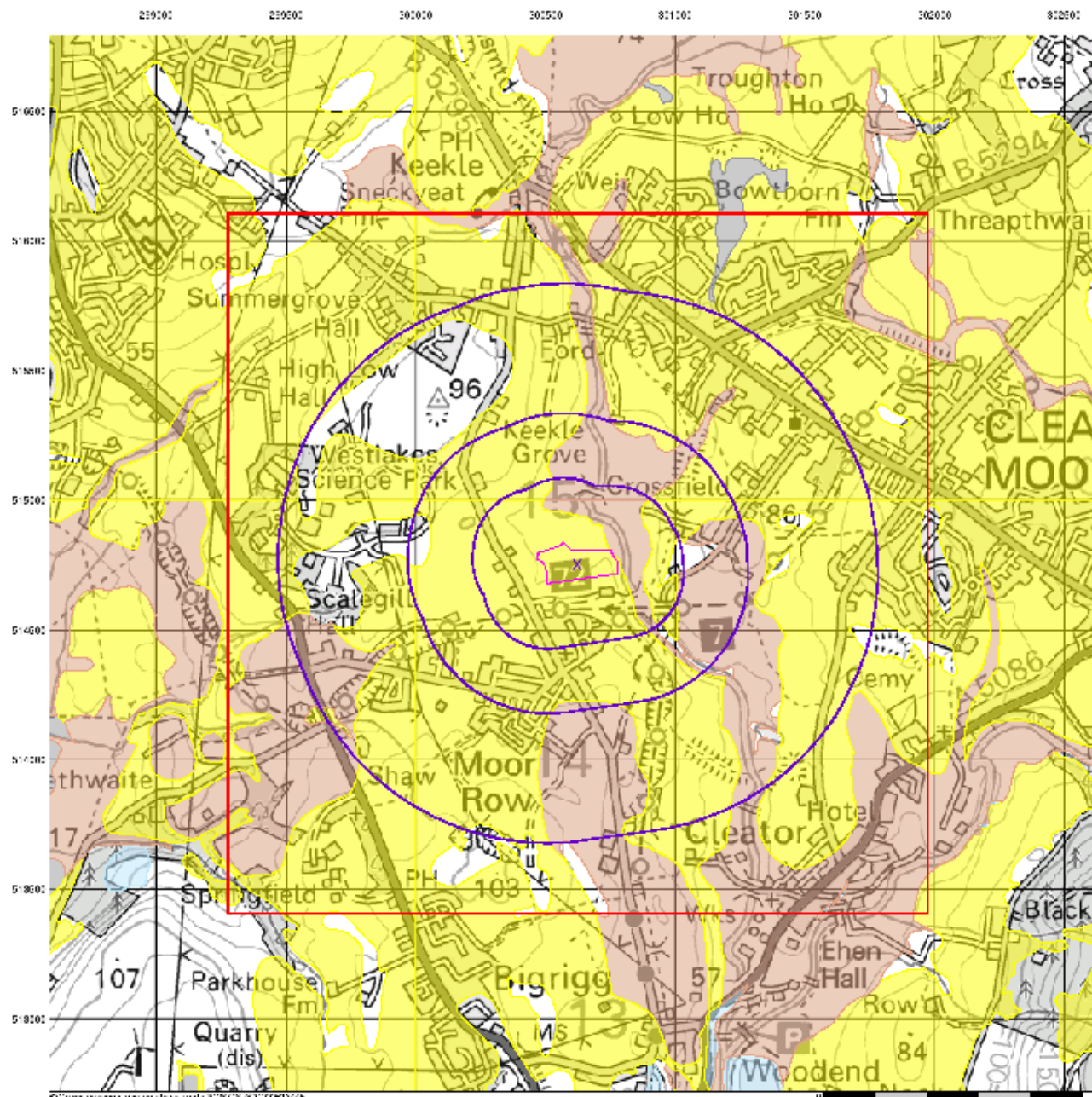
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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Superficial Aquifer Designation

General

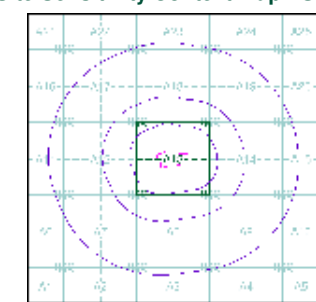
- Boundary (H)
- Search Buffer (m)
- Boring Reference Point
- Site
- Road

Agency and Hydrological

Geological Classes

- Primary Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (lakes and ponds)

Site Sensitivity Context Map - Slice A



Order Details

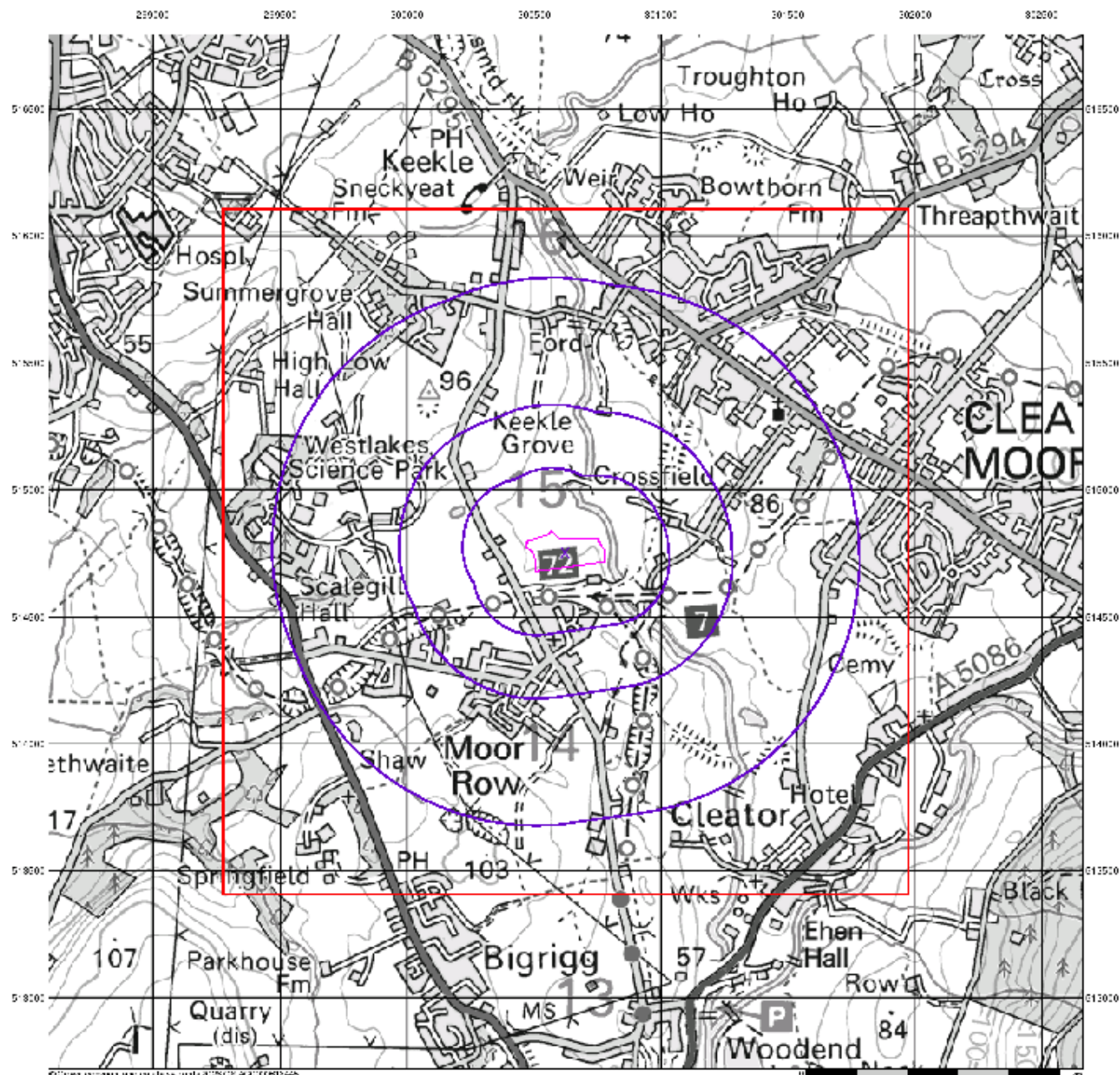
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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Source Protection Zones

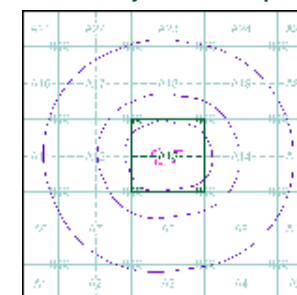
General

- Boundary line
- Search Buffer (m)
- Existing Protection Point
- Site
- Road

Agency and Hydrological

- Zone 1 (m: 0-15)
- Increased vulnerability (m: 15-30)
- Zone 2 (m: 30-60)
- Zone 3 (m: 60-120)
- Final protection boundary (m: 120-150)
- Final protection boundary (m: 150-200)
- Special interest land (m: 200-250)

Site Sensitivity Context Map - Slice A



Order Details

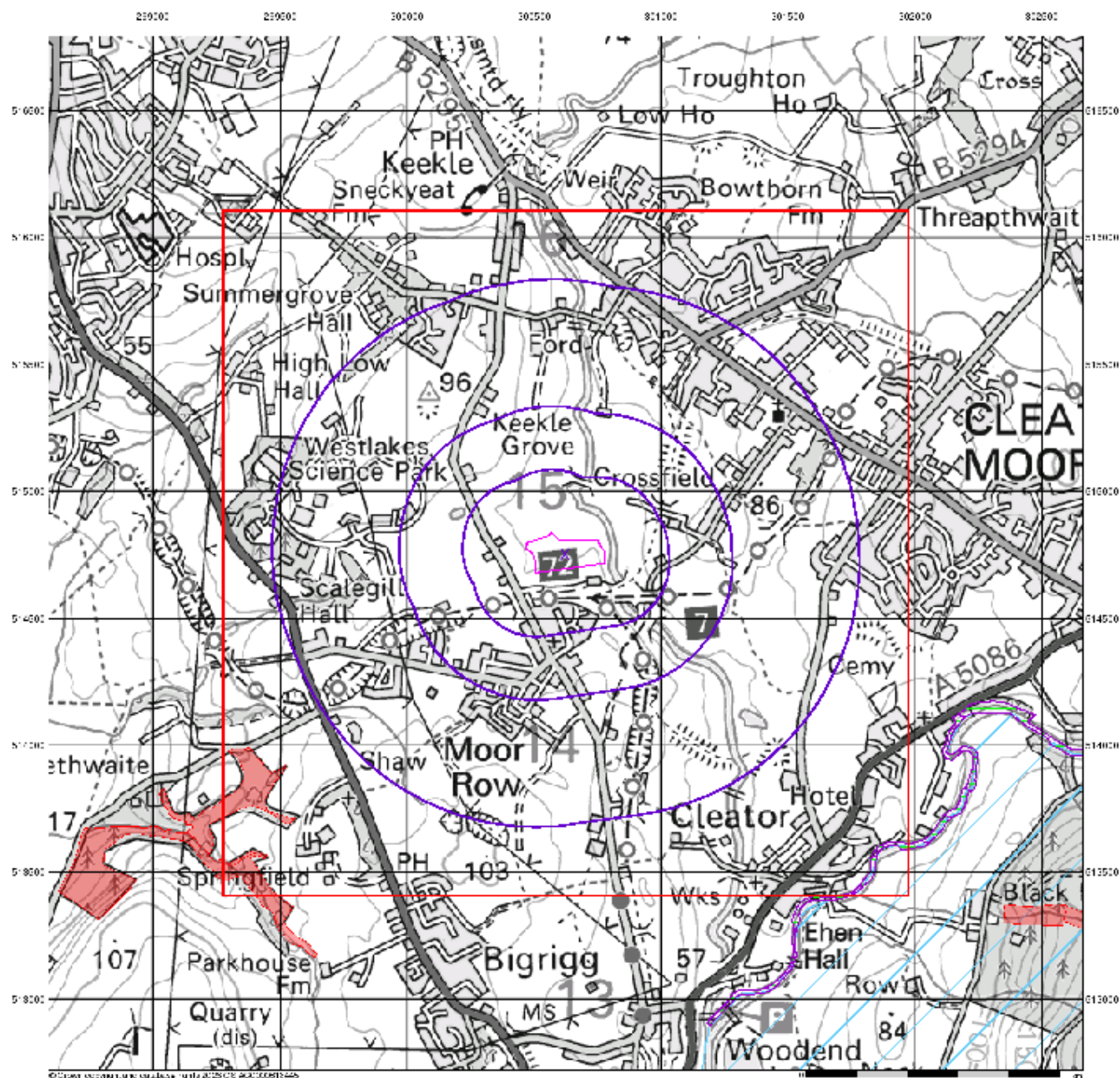
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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 Web: www.envirocheck.co.uk



Sensitive Land Uses

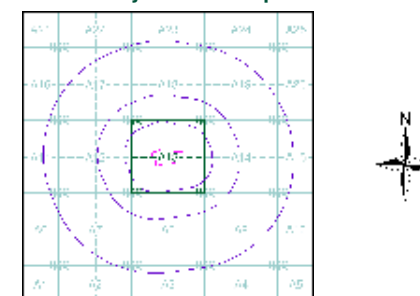
General

- ☐ Slice
 ☐ No: D
 ☐ Ending Before End Point

Sensitive Land Uses

- | | |
|--|---|
|  American Woodland |  American Pine |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Jaws of Ancient Red Leaf |  Landscape of Ancient Green Leaf |
|  Alder of Ancient Red Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
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|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |
|  Forest of Ancient Green Leaf |  Huckleberry Line |

Site Sensitivity Context Map - Slice A



Order Details

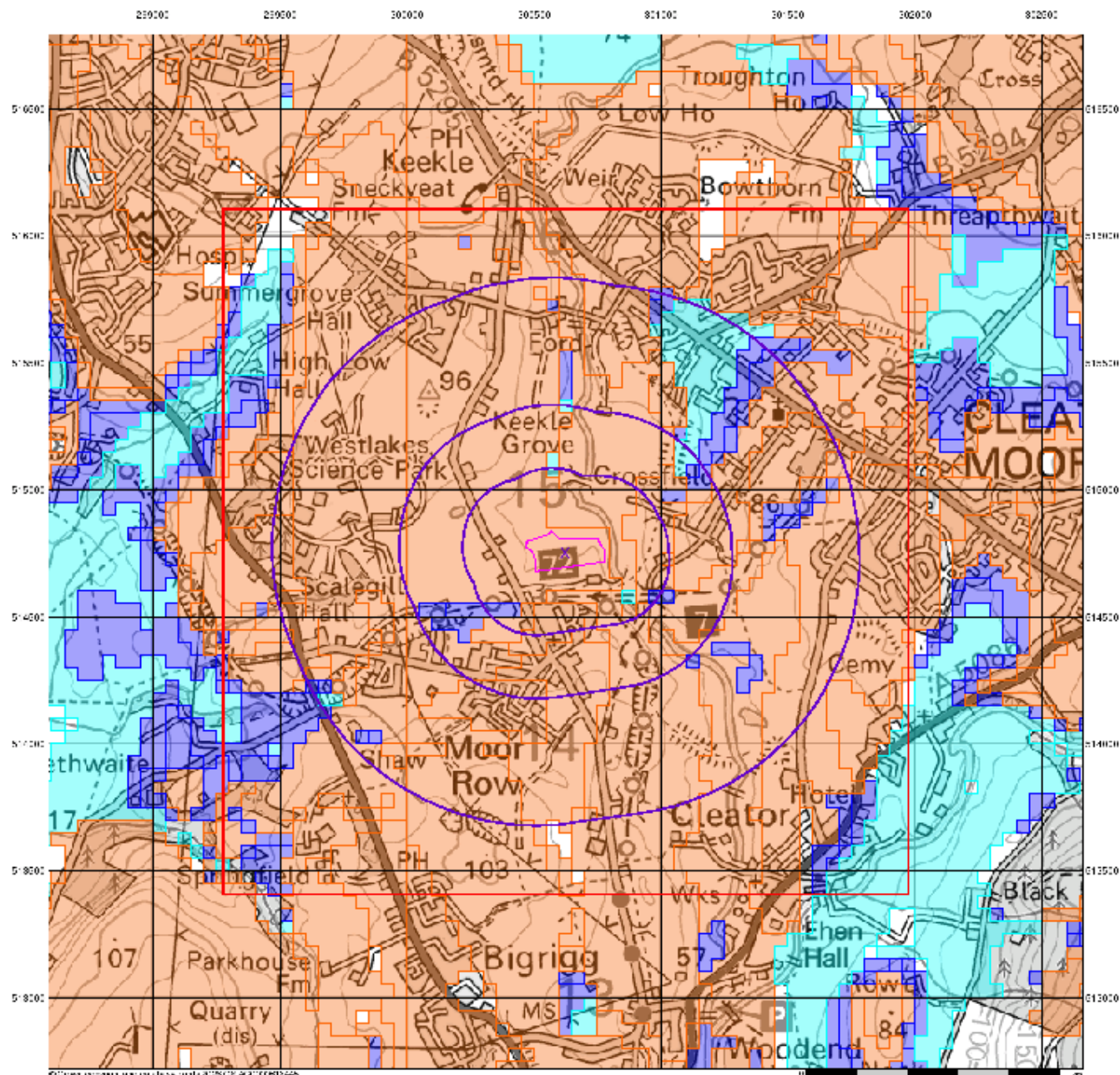
Order Number:	397250357_1_1
Customer Ref:	GSI 25673
National Grid Reference:	300620, 514750
Slice:	A
Site Area (Ha):	3.22
Search Buffer (m):	1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH

Landmark
NEOPAT ON GROUP

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BGS Flood GFS Data

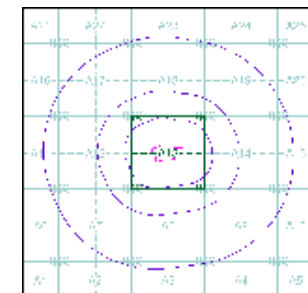
General

- Boundary (1:10000)
- Search Buffer (100m)
- Ending Point and Point
- Site

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding (Orange)
- Potential for Groundwater Flooding of Trenches Studied Below Ground Level (Blue)
- Potential for Groundwater Flooding of Ground Surfaces (Cyan)

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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



General

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

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

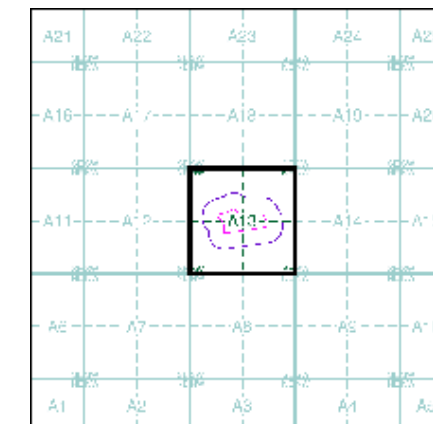
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Plot Buffer (m): 100

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH

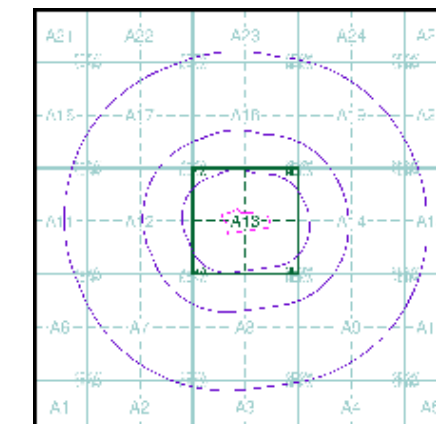


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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



- 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 (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



Order Details

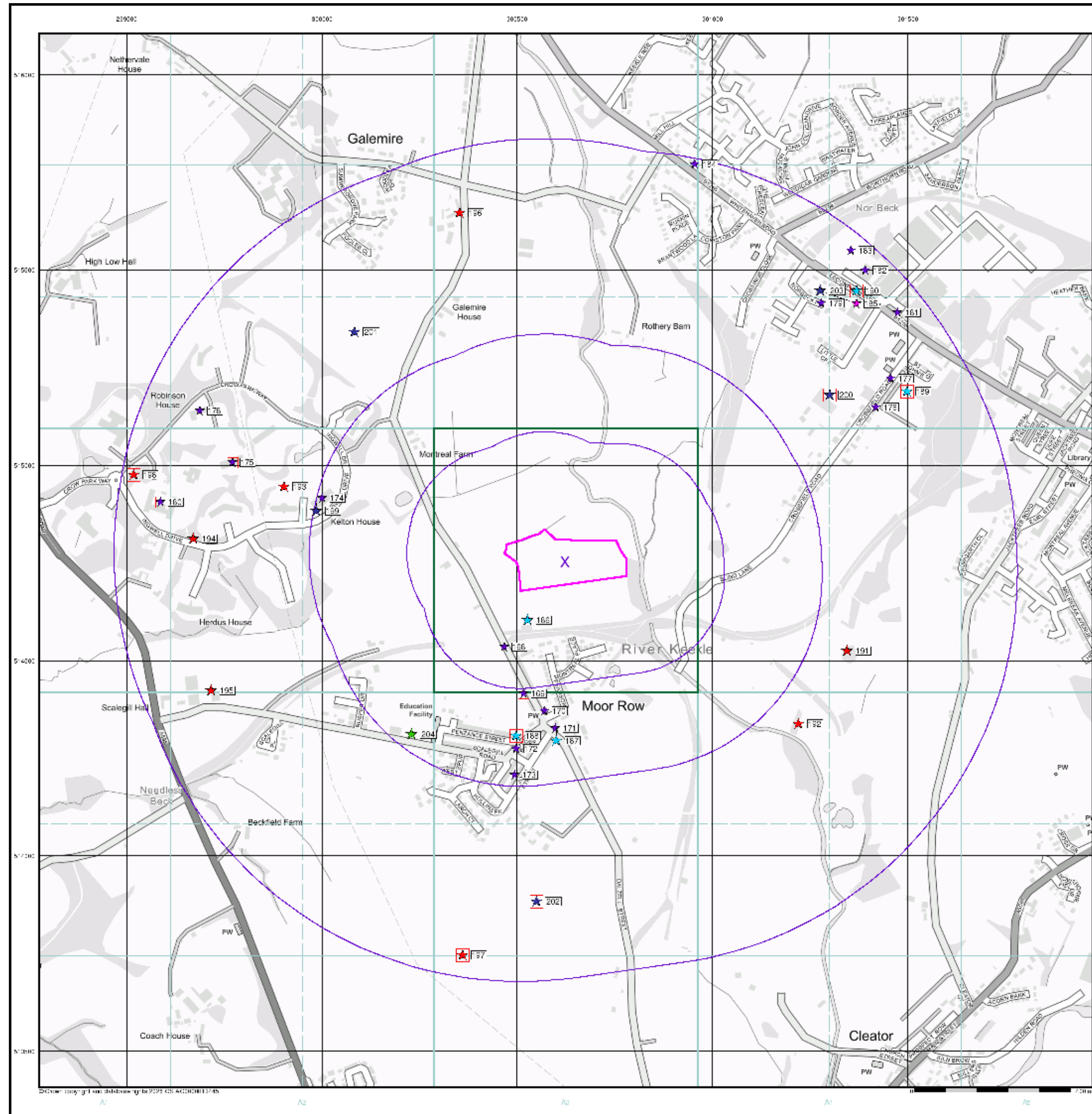
Order Number: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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



Industrial Land Use Map

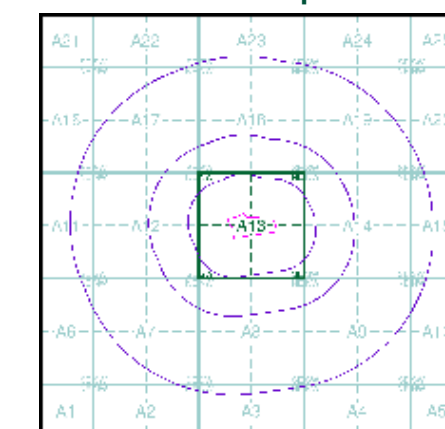
General

- 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: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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



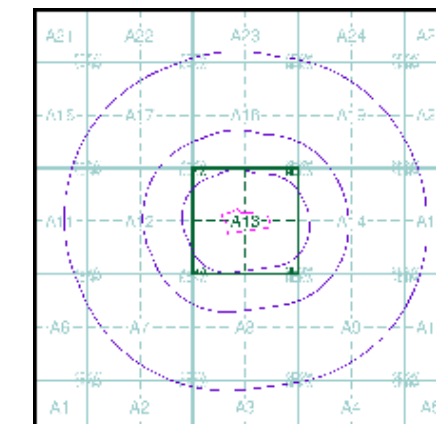
General

- 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: 397250357_1_1
Customer Ref: GSI 25673
National Grid Reference: 300620, 514750
Slice: A
Site Area (Ha): 3.22
Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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General

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

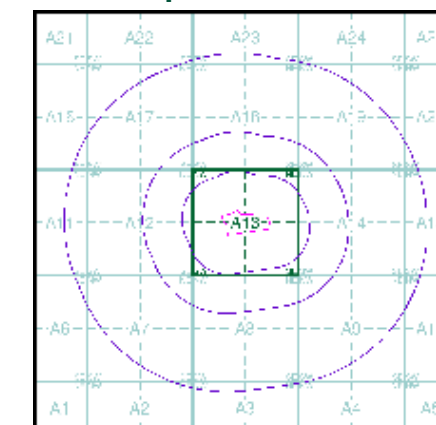
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

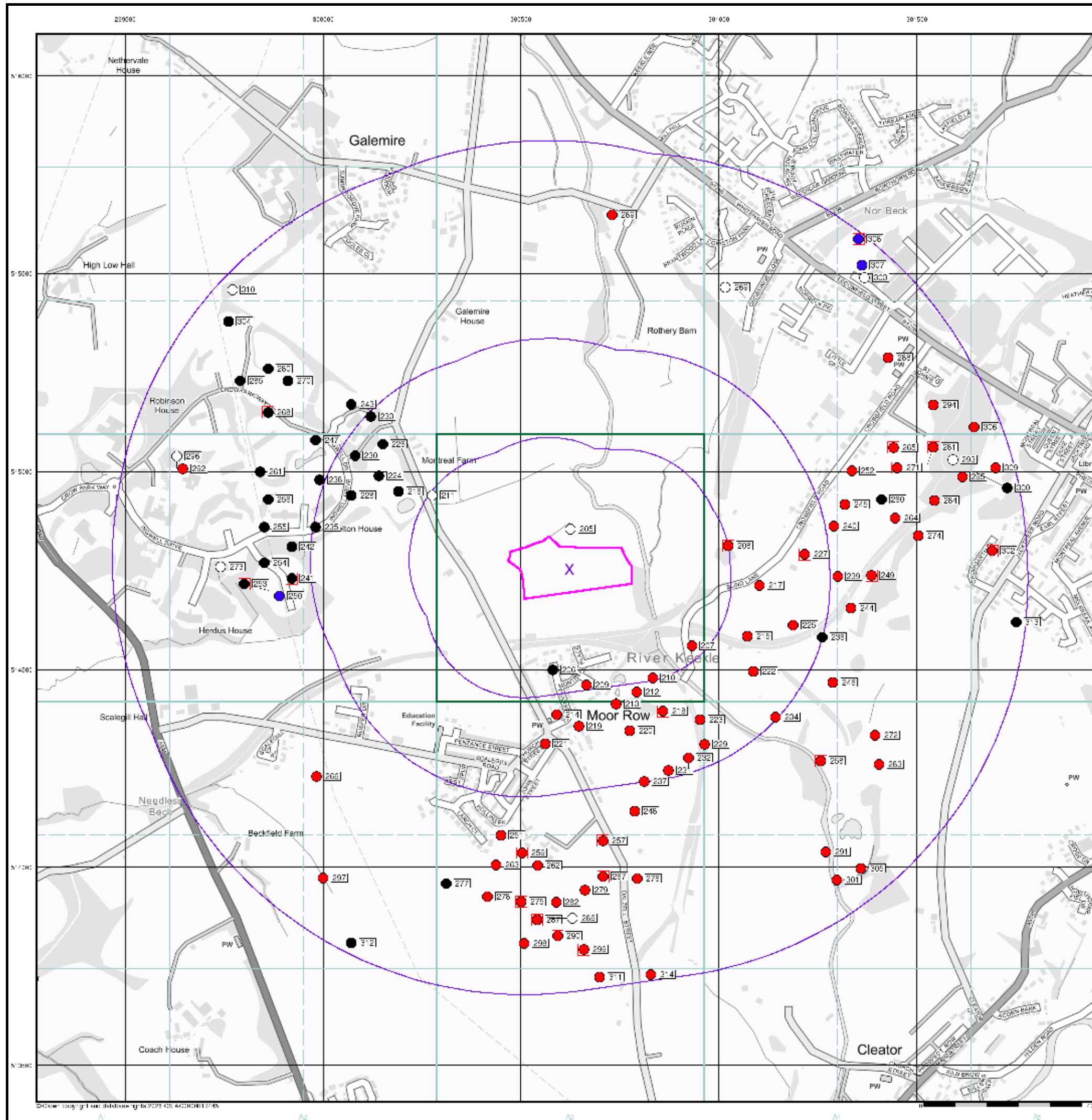


Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH





General

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

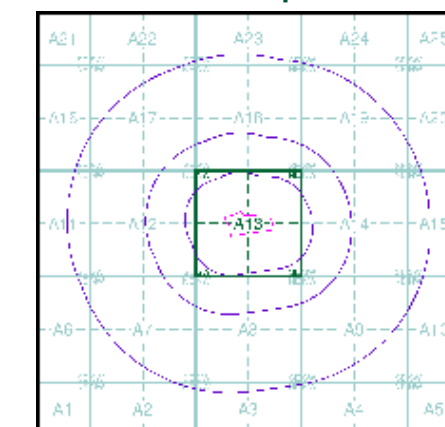
OS Water Network Data

- | | |
|--------------|-------------------------|
| 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 Mean Low Water
- Master Contour 100 Mean High Water
- Spot Height 167.3

OS Water Network Map - Slice A



Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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 Web: www.envirocheck.co.uk



General

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

Risk of Flooding from Surface Water

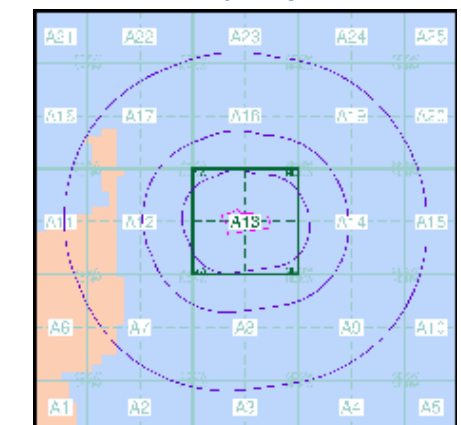
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A



Order Details

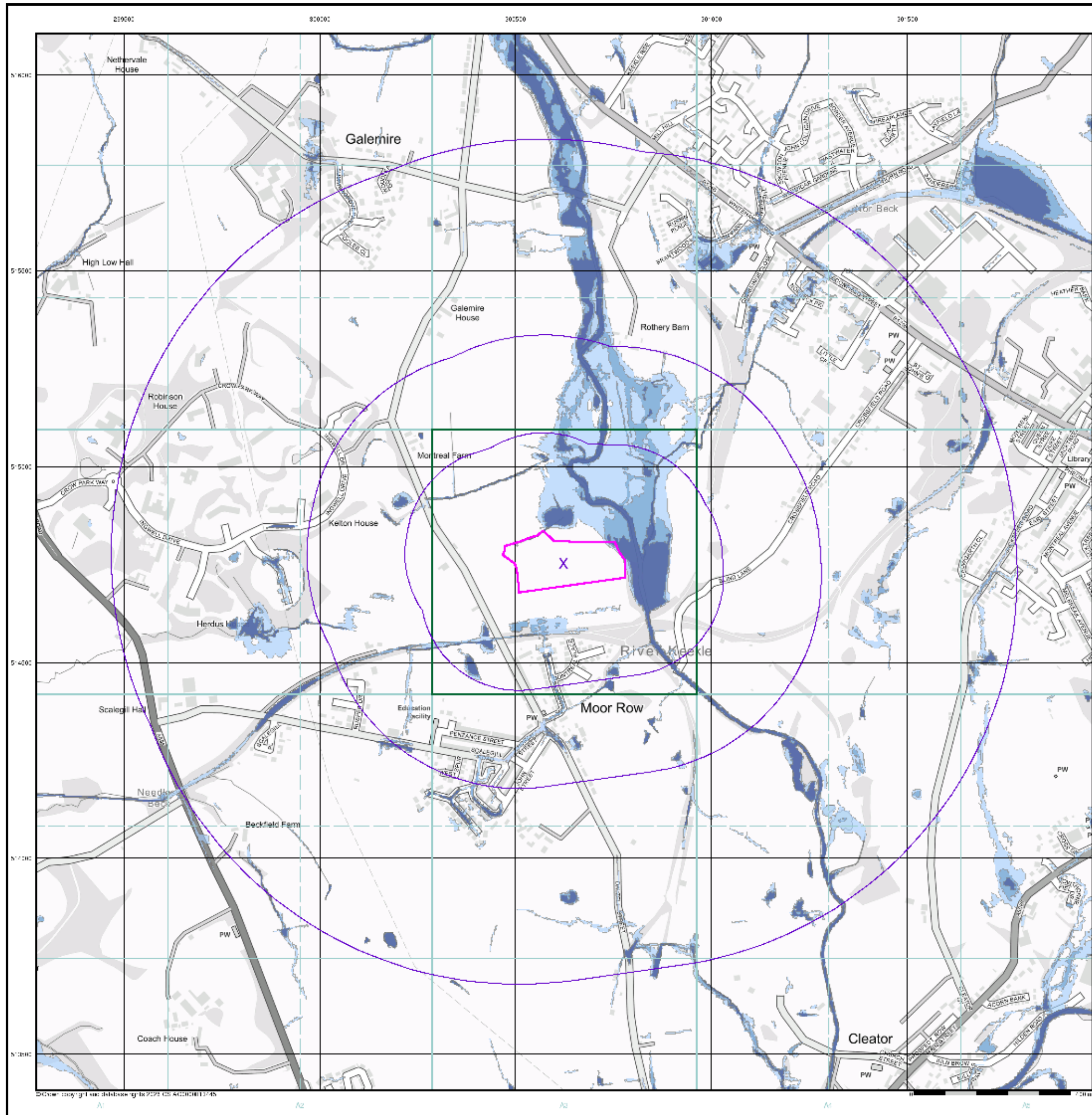
Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

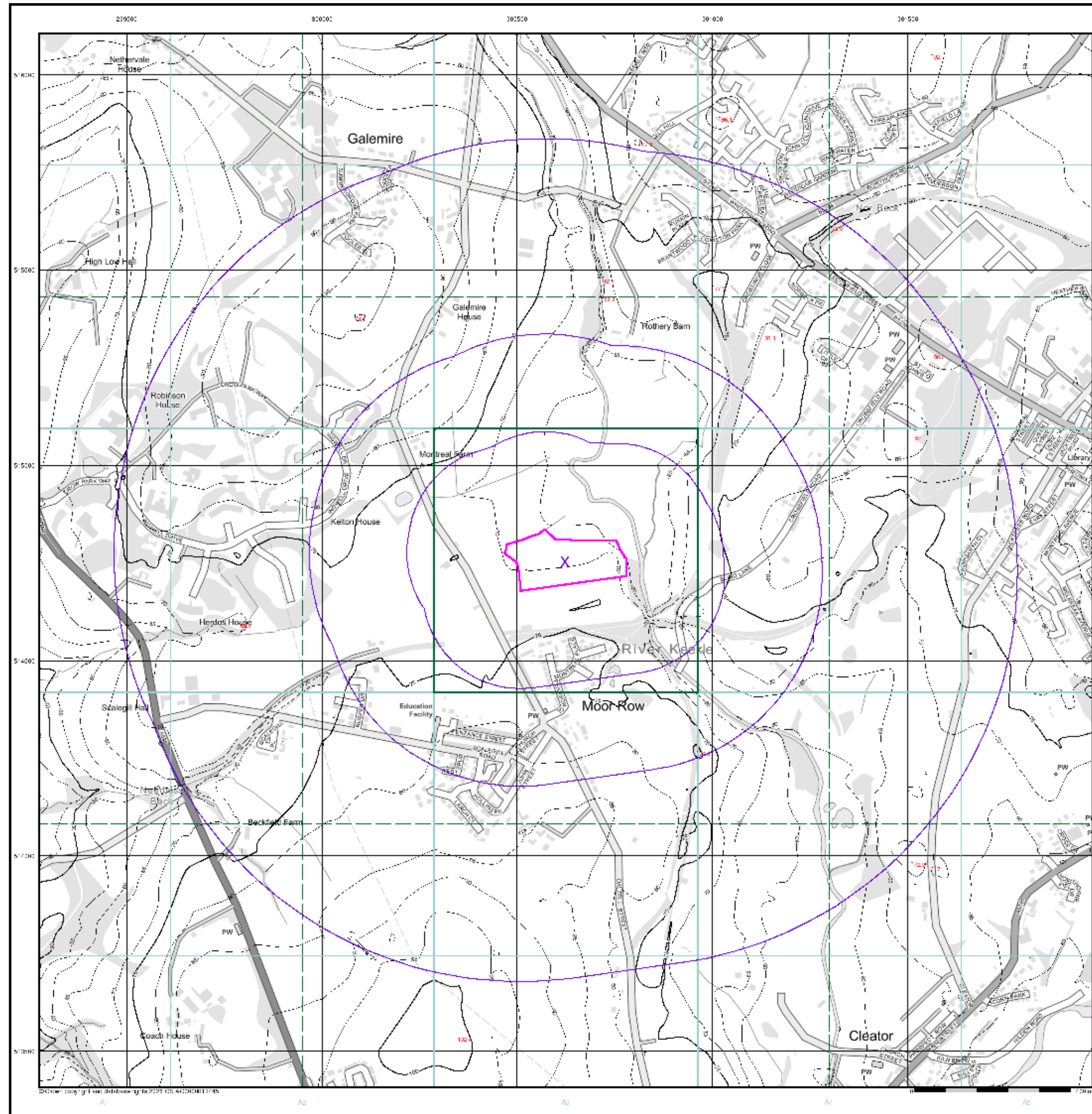
Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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





WFD Surface Waters Map

General

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

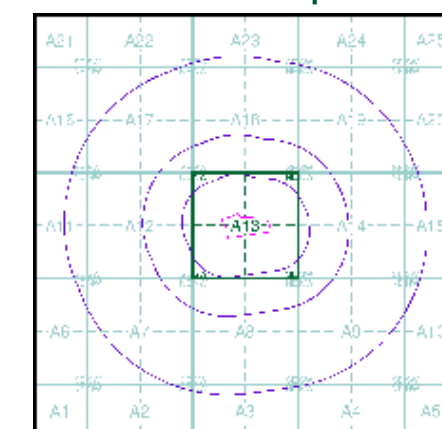
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

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

WFD Surface Waters Map - Slice A



Order Details

Order Number: 397250357_1_1
 Customer Ref: GSI 25673
 National Grid Reference: 300620, 514750
 Slice: A
 Site Area (Ha): 3.22
 Search Buffer (m): 1000

Site Details

Land at Dalzell Street, Moor Row, CA24 3LH



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

APPENDIX D
COAL MINING REPORT



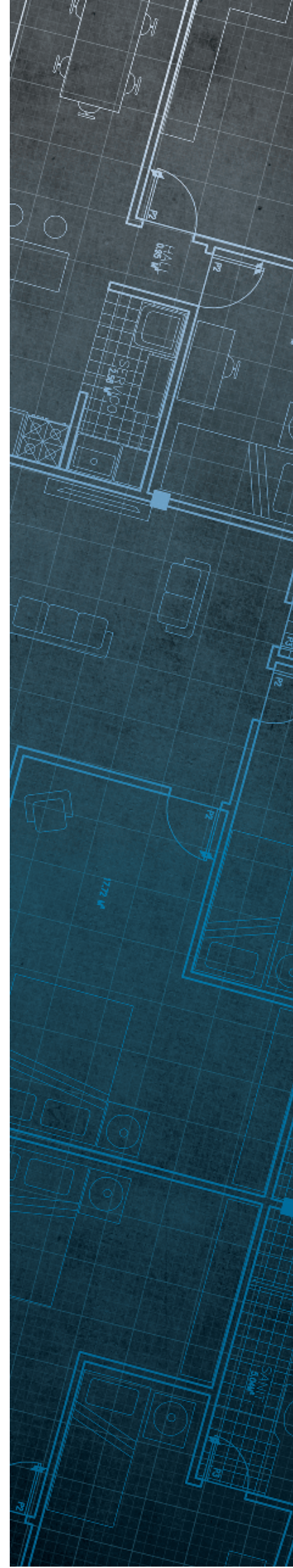
The Coal
Authority

Consultants Coal Mining Report

Land At Dalzell Street
Moor Row
Cumbria

Date of enquiry: 5 March 2026
Date enquiry received: 5 March 2026
Issue date: 5 March 2026

Our reference: 51003556716001
Your reference: 397250357_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

Land At Dalzell Street
Moor Row
Cumbria

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

reports@miningremediation.gov.uk



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
MONTREAL	SLATEY	Coal	009R	9	Beneath Property	23.1	South-West	144	1918
MONTREAL	UPPER TEN QUARTERS	Coal	A05D	13	Beneath Property			120	1912
MONTREAL	UPPER TEN QUARTERS	Coal	009U	62	Beneath Property	21.0	South-West	144	1894
MONTREAL	MAIN	Coal	00A9	95	Beneath Property	9.9	South-West	310	1918
unnamed	BRICK (BANNOCK)	Coal	00A3	96	Beneath Property	27.8	South	208	1918
unnamed	BRICK (BANNOCK)	Coal	00A2	102	Beneath Property	18.4	South-West	208	1918
MONTREAL	MAIN	Coal	00AA	121	Beneath Property	16.0	West	310	1918
unnamed	BRICK (BANNOCK)	Coal	00A4	131	North-East	25.5	South-West	208	1918
MONTREAL	MAIN	Coal	00AB	142	North-East	21.0	South-West	310	1918

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

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

OM7065	NC176	om8476
17392	7304	

For assistance in identifying the specific abandoned mine plans relevant to your requirements, **please contact us at InformationManagers@MiningRemediation.gov.uk**.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Faults under or close to the property 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

Distance to site investigation (m)	Direction
4.5	South

See Section 4 for further information.

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 in an area where a notice to withdraw support was given in 1946.

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

The following potential risks have been identified and as part of your risk assessment should be investigated further.

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.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please email us at reports@miningremediation.gov.uk.

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 **email us at reports@miningremediation.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.

How to contact us

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+44 (0)1623 637 000 (International)
reports@miningremediation.gov.uk

APPENDIX E

RISK PROBABILITY MATRIX

Preliminary Risk Assessment Methodology (After NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008))

NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008) sets out a methodology for the estimation of risk.

At Phase I the risk estimation will take the form of a qualitative risk assessment, which will be entirely based on the conceptual model for each potential end-use of the site. Comments on level of uncertainty will also need to be included for each source-pathway-target linkage to allow the confidence in the assessed risks to be understood. The results of the qualitative risk assessment will allow the risk evaluation to be concisely described in the following chapters.

The methodology for risk evaluation is a qualitative method for interpreting the output for the risk estimation stage of the assessment. It involves the classification of the:

The magnitude of probability (i.e. likelihood).

[takes into account both the presence of the hazard and receptor and the integrity of the pathway]

The magnitude of the potential consequence (i.e. severity).

[takes into account both the potential severity of the hazard and the sensitivity of the receptor]

Classification of Probability

Classification	Definition	Examples
High likelihood (Hi)	There is a pollutant linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor or harm or pollution.	<i>Elevated concentrations of toxic contaminants are present in soils in the top 0.5m in a residential garden.</i> <i>Ground/groundwater contamination could be present from chemical works, containing a number of USTs, having been in operation on the same site for over 50 years</i>
Likely (Li)	There is a pollutant 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.	<i>Elevated concentrations of toxic contaminants are present in soils at depths of 0.5-1.0m in a residential garden, or the top 0.5m in public open space.</i> <i>Ground/groundwater contamination could be present from an industrial site containing a UST present between 1970 and 1990. The tank is known to be single skin. There is no evidence of leakage although there are no records of integrity tests.</i>
Low likelihood (Lw)	There is a pollutant 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.	<i>Elevated concentrations of toxic contaminants are present in soils at depths >1m in a residential garden, or 0.5-1.0m in public open space.</i> <i>Ground/groundwater contamination could be present on a light industrial unit constructed in the 1990s containing a UST in operation over the last 10 years – the tank is double skinned but there is no integrity testing or evidence of leakage.</i>
Unlikely (UI)	There is a pollutant linkage but circumstances are such that it is improbable that an event would occur even in the very long term.	<i>Elevated concentrations of toxic contaminants are present below hardstanding.</i> <i>Light industrial unit <10 yrs old containing a double skinned UST with annual integrity testing results available.</i>

Preliminary Risk Assessment Methodology (After NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008))

Classification of Consequence

	Definition	Examples
Severe (Sv)	Highly elevated concentrations likely to result in “significant harm” to human health as defined by the EPA 1990, Part 2A, if exposure occurs. A Category 1: Human Health risk is present. Equivalent to EA Category 1 pollution incident including persistent and/or extensive effects on water quality; leading to closure of a potable abstraction point major impact on amenity value or major damage to agriculture or commerce. Major damage to aquatic or other ecosystems, which is likely to result in a substantial adverse change in its functioning or harm to a species of special interest that endangers the long - term maintenance of the population. Catastrophic damage to crops, buildings or property.	<i>Significant harm to humans is defined in circular 01/2006 as death, disease*, serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</i> <i>Major fish kill in surface water from large spillage of contaminants from site.</i> <i>Highly elevated concentrations of List 1 and substances present in groundwater close to small potable abstraction (high sensitivity).</i> <i>Explosion, causing building collapse (can also equate to immediate human health risk if buildings are occupied).</i>
Medium (Md)	Elevated concentrations which could result in “significant harm” to human health as defined by the EPA 1990, Part 2A if exposure occurs. A Category 2: Human Health risk is present. Equivalent to EA Category 2 pollution incident including significant effect on water quality; notification required to abstractors; reduction in amenity value or significant damage to agriculture or commerce. Significant damage to aquatic or other ecosystems, which may result in a substantial adverse change in its functioning or harm to a species of special interest that may endanger the long-term maintenance of the population. Significant damage to crops, buildings or property.	<i>Significant harm to humans is defined in circular 01/2006 as death, disease* serious injury, genetic mutation, birth defects or the impairment of reproductive functions.</i> <i>Damage to building rendering it unsafe to occupy e.g. foundation damage resulting in instability.</i> <i>Ingress of contaminants through plastic potable water pipes.</i>
Mild (MI)	Exposure to human health unlikely to lead to “significant harm”. A Category 3 Human Health risk is present. Equivalent to EA Category 3 pollution incident including minimal or short lived effect on water quality; marginal effect on amenity value, agriculture or commerce Minor or short lived damage to aquatic or other ecosystems, which is unlikely to result in a substantial adverse change in its functioning or harm to a species of special interest that would endanger the long-term maintenance of the population Minor damage to crops, buildings or property.	<i>Exposure could lead to slight short - term effects (e.g. mild skin rash).</i> <i>Surface spalling of concrete.</i>
Minor (Mr)	No measurable effect on humans. A Category 4: Human Health risk is present. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects of damage to buildings, structures and services.	<i>The presence of contaminants at such concentrations that protective equipment is required during site works.</i> <i>The loss of plants in a landscaping scheme.</i> <i>Discolouration of concrete.</i>

* For these purposes, disease is to be taken to mean an unhealthy condition of the body or a part of it and can include, for example, cancer, liver dysfunction or extensive skin ailments. Mental dysfunction is included only insofar as it is attributable to the effects of a pollutant on the body of the person concerned.

The classification of consequence does not take into account the probability of the consequence being realized. Therefore, there may be more than one consequence for a particular pollutant linkage. Both a severe and medium classification can result in death. Severe relates to short term (acute) risk while medium relates to long

Preliminary Risk Assessment Methodology (After NHBC Guidance for the Safe Development of Housing on Land Affected by Contamination (2008))

term (chronic) risk. Mild relates to significant harm but to less sensitive receptors. Minor classification relates to harm which is not significant but could have a financial cost.

The classification gives a guide as to the severity and consequence of identified risk when compared with other risk presented on the site. It should be noted that if a risk is identified it cannot be classified as “no risk” but as “very low risk”. Differing stakeholders may have a different view on the acceptability of a risk.

Risk Evaluation Matrix

		Consequence			
		Severe (Sv)	Medium (Md)	Mild (Mi)	Minor (Mr)
Probability	High likelihood (Hi)	Very high risk (VH)	High Risk (H)	Moderate Risk (M)	Mod/low risk (M/L)
	Likely (Li)	High risk (H)	Moderate risk (M)	Mod/low risk (M/L)	Low risk (L)
	Low likelihood (Lw)	Moderate risk (M)	Mod/low risk (M/L)	Low risk (L)	Very low risk (VL)
	Unlikely (UI)	Mod/low risk (M/L)	Low risk (L)	Very low risk (VL)	Very low risk (VL)

Risk Categorizations

Very high risk (VH)	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realized, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High risk (H)	Harm is likely to arise to a designated receptor from an identified hazard. Realization of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate risk (M)	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term.
Low risk (L)	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.
Very low risk (VL)	There is a low possibility that harm could arise to a receptor. In the event of such harm being realized it is not likely to be severe.

Reference

Rudland, D J, Lancefield, R M, Mayell, P N; 2001; Contaminated land Risk Assessment. A guide to Good Practice; CIRIA Report C552.

The NHBC (National House-Building Council) the Environment Agency and the Chartered Institute of Environmental Health, 2008, Guidance for the Safe Development of Housing on Land Affected by Contamination R&D66.