

Phase 1: Desk Study

Site B, Cleator Moor

Copeland Borough Council

S210806

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PHASE 1 DESK STUDY

SITE B, CLEATOR MOOR

TABLE OF CONTENTS

1	EXECUTIVE SUMMARY	1
2	INTRODUCTION AND SCOPE OF INVESTIGATION	2
3	SITE WALKOVER AND DESCRIPTION	2
4	SITE HISTORY	3
5	ENVIRONMENTAL SETTING	4
6	CONCEPTUAL SITE MODEL.....	7
7	PROPOSED PHASE TWO INTRUSIVE WORKS	13

TABLE 1: SUMMARY OF SITE HISTORY	3
TABLE 2: POTENTIAL PRIORITY CONTAMINANTS	9
TABLE 3: POTENTIAL GROUND GAS POLLUTION LINKAGES	10
TABLE 4: PRELIMINARY CONCEPTUAL MODEL	12
TABLE 5: SITE INVESTIGATION RECOMMENDATIONS.....	14

APPENDICES

Appendix A	-	Drawings and Photographs
Appendix B	-	Historical Maps
Appendix C	-	Envirocheck Reports
Appendix D	-	Coal Mining Report
Appendix E	-	BGS Borehole Log
Appendix F	-	Contamination Guidelines
Appendix G	-	Notes on Limitations

Revision	Date	Prepared By	Signed
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1 EXECUTIVE SUMMARY

Site Address	Land east of Sanderson Park, Cleator Moor, CA25 5JZ.
Site Description	The site is irregularly shaped and has a mostly flat and even topography with a slight incline towards the southern boundary. The site is currently in use as agricultural land as livestock was present during the walkover. Overhead cables are present along the eastern boundary of the site.
Site History <i>On Site</i>	The earliest maps (1863) show that the site was predominantly agricultural land and Nor Beck is present in the south portion of the site
<i>Offsite</i>	From the earliest mapping the area around the site shows Ironworks located to the immediate southwest of the site. There are railways located to the immediate south of the site. There are mine shafts located to the immediate southeast and south, northwest, east and west. A coal pit is located north of the site and a quarry is located southeast of the site.
Proposed End Use	The proposed development is outlined to be mixed comprising commercial units, student accommodation and associated parking and access roads.
Environmental Setting <i>Landfill & Waste</i>	There is one facility handling or managing waste within 500m of the site.
<i>Regulated Industries</i>	There are twenty-seven contemporary trade directory entries within 500m of the site. There is one fuel station entry within 500m of the site.
<i>Geology</i>	The solid geology beneath the site is likely to mostly comprise Whitehaven Sandstone of sandstones with mudstone and siltstone with thin coal seams and limestone. The drift deposits on site are likely to comprise of silty, sandy and gravelly Glacial Till and Alluvium.
<i>Hydrogeology</i>	Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary Aquifer – A. The overlying drift is classified as a Secondary Aquifer – Undifferentiated.
	The site does not lie within a source protection zone.
	There is one Ground Water Abstractions located within 1km of the site.
<i>Hydrology</i>	The nearest surface water feature located on site.
<i>Flooding</i>	The Envirocheck Report states the site is at risk of Flooding from Rivers and the Seas without defences, and there are no flood defences, flood water storage areas or areas benefiting from flood defences and flood storage present within 250m of the site.
<i>Radon Gas</i>	The site is in an Intermediate Probability Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protection measures are necessary for new buildings or extensions on the site.
Preliminary Mining Assessment	Given the presence of possible workings within haematite, it is considered necessary to undertake a series of rotary boreholes to ca. 30.00mbgl to investigation the presence of mine workings.
Preliminary Geotechnical Assessment	Given the expected ground conditions, the use of strip or pad foundations for the new development is anticipated at present. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.
Preliminary Contamination Assessment	The desk study has shown that the site may have been exposed to some contamination, with construction/demolition waste and possibly oils or fuel from vehicle spills the most likely source local to the structures. Asbestos may also be present on the site from previous/existing building materials used on-site.
Potential Sources of Ground Gas	Made ground is expected on site, therefore ground gas assessment is recommended due to the nature of the development.
Phase Recommendations Two	• A series of small percussive boreholes with insitu testing and samples. • A series of rotary boreholes to ca. 30.00mbgl • Gas monitoring comprising four visits over one month. • A series of machine dug trial pits for sampling, insitu soakaways and CBRs. • Geotechnical testing. • Chemical testing.

2 INTRODUCTION AND SCOPE OF INVESTIGATION

Solmek were instructed by Copeland Borough Council to undertake a desk study on a parcel of land east of Sanderson Park, Cleator Moor, CA25 5JZ. The proposed development is outlined to be mixed comprising commercial units, student accommodation, associated parking and access roads.

The following steps may be required in the investigation and remediation of potentially contaminated land:

- Phase 1: Desk Study
- Phase 2: Intrusive Investigation
- Phase 3: Remediation Statement
- Phase 4: Validation Reports

Phases 1 and 2 are generally required in the redevelopment of most sites. Phases 3 and 4 are subject to the findings of the initial stages. This report represents Phase 1 of the site investigation.

The purpose of this Phase 1 Desk Study is to evaluate likely ground conditions and significant environmental issues at the site, and to plan the scope of subsequent phases of investigation.

This report may be regarded as a Preliminary Risk Assessment in accordance with respect to the Environment Agency's guidance document Environment Agency *Land Contamination Risk Management*, which replaced the now-withdrawn *Contaminated Land Report 11 – Model Procedures for the Management of Land Contamination (2004)*.

This Phase 1 Desk Study has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175:2011+A1:2013, *Investigation of Potentially Contaminated Land - Code of Practice* and relevant sections of BS 5930: 2015, *Code of Practice for Ground Investigations*.

The objectives of the investigation are as follows:

- Determine the land use history of the site from an inspection of available Historical Maps
- Determine the environmental setting of the site from available sources
- Determine whether past mining may have had an influence on the site
- Determine whether the site has previously been used for purposes that may have given rise to significant ground contamination
- Provide recommendations for further investigation.

3 SITE WALKOVER AND DESCRIPTION

3.1 General

The centre of the site is located at OS Grid Ref 301960, 515730 and covers an area of approximately 13.1Ha. The area is located at Land east of Sanderson Park, Cleator Moor, CA25 5JZ.

The preliminary site inspection was undertaken on the 25th August 2021 and site photographs are presented in Appendix A.

3.2 Site Description

The desk study area is located on a parcel of land southeast of the B5294.

The site is irregularly shaped and has a mostly flat and even topography with a slight incline towards the southern boundary. The site is currently in use as agricultural land as livestock was present during the walkover. Overhead cables are present along the eastern boundary of the site.

The remainder of the site consists of topsoil (mostly) and hardstanding (minimal) with access on Birks Road on the eastern boundary and access from the B5294 in the north-eastern portion of the site.

3.3 Off Site Features

Nor Beck is located to the immediate south of the site. A large industrial estate is beyond this. Fields are present to the north and east.

4 SITE HISTORY

4.1 Map Descriptions

In order to determine the history of the site, previous editions of Historical Maps and Ordnance Survey Plans were inspected. The Historical Maps are presented in Appendix B.

Table 1 presents a summary of the history of the area which includes plots from 1863 to 2021. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements are taken from the nearest boundary of the site and all distances quoted are approximate.

TABLE 1: SUMMARY OF SITE HISTORY

OS Map Edition	On-site Features	Off-site Features
1863 1:2,500 & 1867 1:10,560	The site is predominately agricultural land. Nor Beck is present in the south portion of the site	Ironworks are located to the immediate southwest of the site. There are railways located to the immediate south of the site. There are mine shafts located to the immediate southeast and approximately 350m south, 350m northwest, 600m east and 700m west. A coal pit is located approximately 400m north of the site. A quarry is located approximately 400m southeast of the site.
1899 1:2,500 & 1900 1:10,560	No significant change.	Construction of gas works located to the immediate east of the site. Construction of engine works located to the immediate south of the site. An old quarry is located approximately 250m southeast of the site. Bowthorn Colliery is located approximately 500m northwest of the site. Construction of Birks Iron Ore Works located approximately 600m east of the site. Construction of iron ore pits located approximately 800m southeast, 900m east, 650m south and 800m southwest. Construction of reservoir located approximately 250m west of the site.
1925 1:2,500 & 1926 1:10,560	Construction of tank in south boundary of the site.	Construction of sewage tanks located approximately 100m east of the site.
1938 1:10,560	No significant change.	No significant change.
1956 – 1957 1:10,000 & 1962 1:2,500	No significant change.	Construction of slag heaps to the immediate south of the site. Construction of factories located approximately 250m southwest of the site.
1970 1:2,500 & 1971 1:10,000	No significant change.	Construction of refuse tip located approximately 250m south of the site. Construction of allotment gardens located approximately 300m south of the site. Construction of garage located approximately 300m southwest of the site. Dismantling of railway to the immediate south of the site.
1982 1:2,500 & 1985 1:2,500	No significant change.	Construction of industrial estate located to the immediate southwest of the site.
1989 1:2,500 & 1991 1:2,500	No significant change.	No significant change.
1993 1:10,000 & 1994	No significant change.	No significant change.

1:2,500		
1995 1:2,500 & 1996 1:2,500	No significant change.	No significant change.
2000 1:10,000	No significant change.	No significant change.
2021 1:10,000	No significant change.	No significant change.

4.2 Potential Contamination Sources Identified via Historical Plans

Contamination from historical land uses within a 250m radius of the site have been identified:

Made ground from materials used to infill depressions and form a level area for access or building. This may include brick, concrete, timber, ash, slag, coal and metals.

Construction/demolition waste from construction and demolition immediately around the site over the documented history. This may include brick, concrete, timber, asbestos and metals.

Roads/Parking Areas may have utilised coal tar, which can result in high levels of PAHs and Phenols and may require disposal as hazardous waste. In addition, historically road construction used ash as a sub-base material, which could be a further source of PAHs.

Agricultural from pesticides and fertilizers used on the ground to grow and protect crops. Along with possible fuel leakages from farm vehicles.

Railway Contamination based on proximity to current and historic railway features isolated to the southern portion of the site. This may include ash, clinker, heavy metals and asbestos.

Infilled Ponds Infilled ponds have potential for ground gas generation, depending on the materials used to infill the pits and also the time that has elapsed since deposition. The materials utilised as infill may themselves be contaminated with metals, hydrocarbons or asbestos.

Mining waste/Slag Heaps potential contaminants could include metals, hydrocarbons and coal tar.

Gasometer/Gas works potential contaminants could include hydrocarbons and cyanide (blue billy).

Sewage works can contribute a variety of contaminants, such as bacterial contamination including e. coli and salmonella as well as heavy metals that may have been present in filtered sludges. Oil/fuel leaks from maintenance/work vehicles accessing the site may also be a source of contamination. Where sewage sludge may have leaked from storage tanks or penetrated the ground, it may also be a source of ground gas.

Iron Works contaminants that may arise from Iron Works (or Forges) typically include metals such as lead, arsenic, cadmium or zinc and organic pollutants such as fuels, oils or PAHs.

5 ENVIRONMENTAL SETTING

5.1 Information Sources

The environmental setting of the site was determined through reference to the following:

- Envirocheck Report (including historical map extracts)
- British Geological Survey (BGS): 1:50 000 geological map series sheet 28 Whitehaven Solid and Drift Edition (2004)
- BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings
- Capita Symonds: Phase I: Preliminary Sources (Desk) Study - Birks Road, Cleator Moor (Relating to land to the south of the site)

- WYG: Leconfield Industrial Estate – Desk Based Technical Appraisal (Relating to land to the southwest of the site)

5.2 Landfill and Waste

There are no Landfills or any other facilities handling or managing waste located within 500m of the site.

The Envirocheck Report indicates that there are no Registered Landfill Sites located within 500m of the site.

The Envirocheck Report indicates that there are no BGS Recorded Landfill Sites located within 500m of the site.

The Envirocheck Report indicates that there are no Historic Landfill Sites located within 500m of the site.

The Envirocheck report indicates that there are no Local Authority Recorded Landfill sites located within 500m of the site.

The Envirocheck Report indicates that there are no Waste Treatment, Transfer and Disposal Sites entries located within 500m of the site.

The Envirocheck Report indicates that there is one Licenced Waste Management Facility located within 500m of the site. This is located 139m southwest of the site. The issued date is reported as July 2017 and the revoked date is reported as April 2020.

5.3 Regulated Industries

The Envirocheck Report indicates that there are twenty-seven Contemporary Trade Directory Entries located within 500m of the site. The nearest is Fellview Garden Ornaments and is located 2m southeast of the site and is reported as Inactive.

The Envirocheck Report indicates that there is one Recorded Fuel Site located within 500m of the site. This is located 418m and is reported as an Open Petrol Station.

The Envirocheck Report indicates that there are no records of Integrated Pollution controls located within 500m of the site.

The Envirocheck Report indicates that there are two records of Integrated Pollution Prevention and Control entries located within 500m of the site. The nearest is located 260m west of the site and has an effective date of March 2016. The status is reported as Surrender Effective.

The Envirocheck Report indicates that there are two Local Authority Pollution Prevention and Control sites or enforcements located within 500m of the site. The nearest is located 151m east of the site and the status is reported as Authorisation Revoked.

The Envirocheck Report indicates that there are no sites dealing with Hazardous, Explosive or Radioactive Substances located within 500m of the site.

The Envirocheck Report indicates that there are no Substantiated Pollution Incidents located within 500m of the site.

The Envirocheck Report indicates that there are no Sites Determined as Contaminated Land under Part 2A EPA 1990 entries located within 500m of the site.

5.4 Geology

The geology of the site and the wider area is complex – the majority of the site is shown to be underlain mostly by solid geology of Whitehaven Sandstone most likely comprising of cross-bedded sandstones with mudstone and siltstone with thin coal seams and limestone, however the southeast is underlain by Pennine Middle Coal Measures for mudstone, siltstone & sandstone. (Figure 4).

The drift deposits in the majority of the site are likely to comprise of silty, sandy and gravelly Glacial Till with occasional sandy and gravelly lenses (Figure 3). The drift deposits along the northern and southern

boundaries of the site are likely to comprise of clay, silt, sand and gravel Alluvium.

The nearest fault is located to the immediate south of the site with a downthrow to the northeast and the site is situated in an area with conjectured surface fracturing.

BGS Borehole NY01NW463 (Appendix E) is located in the northwest portion of the site and shows topsoil to a depth of 0.40m, underlain by firm organic sandy silty clay to a depth of 1.10m. This is shown to be underlain by stiff to very stiff sandy silty clay with fine to coarse gravel to a depth of 4.0m, underlain by moderately weathered thinly bedded fine grained moderately weak micaceous sandstone to a depth of 4.50m where the borehole was terminated.

5.5 Mining & Quarrying

The site is within a Coal Mining Affected Area as defined by the Coal Authority, as a result a coal mining search report was required to assess the risks posed by historic and possible future coal mining to any current or future developments on the site.

The coal mining search report conducted by David Bellis Consulting Surveyors dated 23rd August 2021 is presented in Appendix D.

The mining report highlights that the site is situated in an area where two seams have been worked within the likely zone of physical influence on the surface. The shallowest seam is the Bannock seam last worked pre 1900 at a depth of 63m with a section thickness of 1.80m.

The report highlights that the site is not situated within the boundary of a former opencast coal mining site. Neither is the site located within 200m of a currently operating opencast coal mine or 800m of a future opencast coal mine.

The report follows on to state that they have no knowledge of any shafts or adits within 20m of the site or the boundary of the site. Also there are no tips or lagoons in the vicinity of the site. **It is highlighted that there are possible workings in minerals other than coal.**

The report concludes by stating that old workings are present but all settlement is likely to have completed long ago. In their opinion it is unlikely that coal will be worked in the foreseeable future.

Previous desk studies by Capita Symonds and WYG indicate the area around the site is known for iron and haematite mining. The Capita Symonds report outlines a single shaft on Birks Road was used for the mining of both coal and iron ore. The historic mapping outlined the presence of several shafts in the vicinity of the site, several of which were labelled as Iron.

The Envirocheck Report indicates that there are thirty-one BGS recorded Mineral Sites located within 1km of the site. The nearest is located 174m southeast of the site with the commodity listed as Iron ore – Haematite.

The site is not within 1km of a Natural Cavity.

The site is not within 1km of a Brine Compensation area.

The site is not within 1km of a Natural Cavity or a Brine Compensation area.

5.6 Geological Hazards and Instability

The Envirocheck report presents the maximum hazard ratings of ground stability hazards located on site as follows:

- Negligible hazard is posed by Ground Dissolution Stability Hazards
- Very low hazard is posed by Landslides, Shrinking or Swelling Clay and Collapsible Ground Stability Hazards
- Low hazard is posed by Running Sands Stability Hazards
- Moderate hazard is posed by Compressible Ground Stability Hazards

5.7 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary Aquifer – A. The overlying drift is classified as Secondary Aquifer – Undifferentiated and Secondary Aquifer – A.

The groundwater vulnerability is categorised as Secondary Superficial Aquifer – High Vulnerability.

The site does not lie within a Source Protection Zone.

The Envirocheck Report indicates that there is one Water Abstraction located within 1km of the site. It is located 698m northeast of the site and the permit start date is reported as December 1965.

5.8 Hydrology

The nearest surface water feature is located on the site.

The Envirocheck Report states there is one Licensed Discharge Consents entry within 500m of the site. This is located 43m southeast of the site. The effective date is reported as February 1987 and the revocation date is reported as July 1993. The discharge type is reported as Public Sewage: Storm Sewage Overflow.

The Envirocheck Report states there are two Records of Water Industry Act Referrals (potentially harmful discharges to the public sewer) located within 500m of the site. The nearest is located 260m west of the site and is dated February 2020. The status is reported as Application received by the EA but is not yet authorised.

5.9 Flooding

The Envirocheck Report states the site is at risk of Flooding or Extreme Flooding from Rivers and the Seas without defences.

The Envirocheck Report indicates that there are no flood defences, flood water storage areas or areas benefiting from flood defences and flood storage present within 250m of the site.

The Envirocheck Report states that there is Potential for Groundwater Flooding as Surface.

A comprehensive flood risk assessment should be sought from a specialist to quantify the existing risk of flooding on the site.

5.10 Sensitive Land Use

The site does not lie within 2km of any form of Designated Environmentally Sensitive Sites or Protected Areas.

5.11 Radon Gas

The site is in an Intermediate Radon Affected Area, as 1 to 3% of properties are above the Action Level.

In accordance with the procedure described in BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings, no radon protection measures are necessary for new buildings or extensions on the site.

6 CONCEPTUAL SITE MODEL

6.1 General

Based on the information presented in the preceding Sections, and in accordance with the LCRM guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced.

The main features of the model are discussed in the following sections together with preliminary

recommendations where appropriate.

6.2 Likely Ground Conditions

It is expected that, based on available information, ground conditions are likely to be made ground comprising areas of topsoil. The surface deposits may be underlain by further fill materials, particularly along the southern boundary, likely to consist of construction/demolition waste (any other sources e.g. infilled ground/railway waste etc). The drift deposits on site are likely to comprise of glacial till and alluvium deposits overlying a sandstone bedrock (sandstone, mudstone or siltstone bedrock in the southeast).

6.3 Potential Buried Obstructions

Based on the site history, buried obstructions are likely. Railway sleepers, cobbles, bricks and stone blocks are the most likely obstructions.

6.4 Mining Assessment

The site is within a Coal Mining Reporting Area as defined by the Coal Authority.

The general guidance and good practice for assessing if a seam is within influencing distance to the surface is if rock cover (not including made ground and drift) is greater than 10x the worked thickness of the coal seam, then generally no void migration will reach the interface of the rock and drift deposits/made ground and thus no instability via a crown hole tyre collapse will occur.

From the Coal Mining Report, the shallowest known worked coal seam is the Bannock seam at 63m depth with a section thickness of 1.8m. In this situation the Bannock seam is at a sufficient depth to give a ratio well in excess of 10x the seam thickness.

The Coal Mining Report outlines the potential for workings within minerals other than coal – this is further outlined in the Capita Symonds/WYG Phase 1 Desk studies, as well as evidenced by the Iron shafts noted on the historical mapping in the vicinity of the site.

Given the potential for workings of ironstone/haematite, it is recommended to undertake a series of rotary openhole boreholes to ca. 30.00mbgl. The boreholes are necessary to investigate potential voids, collapsed workings and possible weak/broken areas of rock due to mine workings underlying the proposed new development.

6.5 Preliminary Geotechnical Assessment

Pending no adverse findings from the rotary drilling, given the expected ground conditions noted in the sections above, the use of deep strip or pad foundations for the new development is anticipated at present. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.

Should the rotary boreholes record adverse findings of voids/broken rock beneath the proposed building footprint, it may be necessary to implement structural precautions in the foundations such as raft or reinforced strips, or potentially, grouting of the site may be necessary.

Trees are present around the site perimeter and therefore foundations may need deepening in accordance with NHBC Standards Chapter 4.2.

Due to the slopes currently present on the site, some earthworks comprising cut and fill and possibly retaining structures may be required to create a level surface for the development, should the existing flat level need extending.

For the proposed new road – which is currently agricultural fields – the foundations will consist of suitably compacted and graded fill to be used to form a sub-base, base and binding course beneath the road surface course. The road design and choice of materials should be undertaken in line with the guidance “Specification for Highway Works”.

The above suggestions should be regarded as tentative until Phase 2 intrusive works are undertaken and

information is available regarding design loads and development layout.

6.6 Preliminary Contamination Assessment

The desk study has shown that the site may have been exposed to some contamination, with construction/demolition waste from adjacent sites and possibly oils or fuel from vehicle spills the most likely source local to the structures. Asbestos may also be present on the site from previous building cladding and roofing materials utilised adjacent to the site.

In view of the current and future site use, chemical contamination testing is considered necessary. The following chemical testing suite should be considered for selected soil samples:

TABLE 2: POTENTIAL PRIORITY CONTAMINANTS

Inorganic Contaminants	Organic Contaminants
Antimony, Arsenic, Boron, Cadmium, Chromium, Lead, Mercury, Nickel, Zinc, Selenium, Free Cyanide, Soluble Sulphate, pH, Asbestos	Phenol, Organic Matter, speciated PAH, TPH CWG

It should be noted that the above potential contaminants are considered to be commonly associated with the specified past land uses of the site, and adjacent land use. Risk assessment should be undertaken for contamination identified during intrusive investigation.

Potential pathways which link the potential contaminants to end users of the site and controlled waters (receptors) include the following:

- Ingestion of soil (outdoors) / dust (indoors)
- Skin contact with soil (outdoors) / dust (indoors)
- Inhalation of dust (outdoors and indoors)
- Contamination via buried water pipes
- Surface water run-off, including via existing drainage infrastructure
- Downward infiltration of leachable contaminants to groundwater

6.7 Potential Sources of Ground Gas

Ground gases such as carbon dioxide and methane can be classed as a form of contamination. Potential sources of ground gases include:

- Made Ground
- Quarries, Infilled Pits & Infilled Ponds
- Underlying Natural Strata (alluvium, peat and chalk)
- Petrol re-fuelling sites (which also includes Volatile Organic Compounds)
- Landfill (on and off-site)
- Coal measures

Based on historical map evidence and consideration of the sites environmental setting the table below shows a preliminary comparison of *consequence* against *probability* where ground gas is considered a potential threat to human health.

TABLE 3: POTENTIAL GROUND GAS POLLUTION LINKAGES

Potential Sources	Potential Pathway	Receptor
Made ground (CO ₂ , CO and CH ₄). Petrol Filling Station (Hydrocarbons, SVOCs and VOCs). Mine workings (CO ₂ , CO and CH ₄) and stythe gas or oxygen depletion. Landfills (CO ₂ and CH ₄). Sewage Works (CO ₂ and CH ₄).	Ingress and Accumulation into buildings from vertical and horizontal migration	Future users of site are likely to include adults and children. Construction workers (in particular utility workers).
Preliminary Comparison of Consequence versus Probability		
	Classification	Justification
Probability <i>(Based on Table 8.1, CIRIA C665, 2007)</i>	MEDIUM LIKELIHOOD	Ground gas from made ground.
		Landfills located within 1km radius of the site.
		Coal mining in area.
Consequence <i>(Based on Table 8.2, CIRIA C665, 2007)</i>	MEDIUM	Mixed (including Residential) development.
	Risk	Details
Consequence vs. Probability <i>(Based on Table 8.3, CIRIA C665, 2007)</i>	LOW/MODERATE RISK	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 long term. <i>(Based on Table 8.4, CIRIA C665, 2007)</i>

Given the conditions noted above a ground gas assessment is considered necessary for the site to observe standing groundwater levels and to allow measurements to be made of hazardous gases and/or contamination levels in groundwater. Monitoring should be undertaken following site works on a minimum of four occasions over one month.

6.8 Risk Assessment for Contaminated Land

As part of this Phase 1 Desk Study, a preliminary conceptual model and risk assessment is produced. This assessment should be revised following the Phase 2 Site Investigation outlining a qualitative risk assessment. Should there be unacceptable risks to the various receptors/end-users following the Phase 2 works, then a remediation strategy may be required to outline measures to satisfy Part 2A of the Environmental Protection Act (1990). The above measures are in line with Environment Agency *Land Contamination Risk Management*, which replaced the now-withdrawn Contaminated Land Report 11 – *Model Procedures for the Management of Land Contamination* (2004).

The results of the chemical contamination testing as part of the Phase 2 investigation should be compared to a current Land Quality Management (LQM) – Suitable 4 Use Levels (S4UL) December 2014.

6.9 Conceptual Site Model

The conceptual model collates the salient aspects of the site to form a model which should enable comparison after fieldwork and testing. This model identifies the potential pollution linkages that may influence the proposed development and geotechnical considerations.

The risk ratings are based on the current potential liabilities and likely potential future liabilities. The risks posed by the geotechnical and contamination aspects of the site will be revised following site works, and any mitigating action required added.

The Preliminary Conceptual Model has been undertaken in accordance with CIRIA C552. The Preliminary Conceptual Model assesses the consequence and the likelihood of a risk being realised to provide a risk

classification, which is then used to produce the Preliminary Conceptual Model. Full details of the tables used to assess consequence, likelihood and risk classification are presented in Appendix F.

TABLE 4: PRELIMINARY CONCEPTUAL MODEL

Source	Pathway	Receptor	Risk Rating	Comments
Asphyxiating or explosive ground gases - Made ground - Landfills within 250m - Radon Affected Area	Ground gas migration - Migration through permeable soils - Inhalation	Future site users Workers/Student Residents	Moderate /Low	Gas monitoring recommended. Four visits over one month proposed.
		Users during development Construction workers	Low	
Areas of contamination - Potential contaminants in made ground - Potential demolition/construction waste	- Inhalation - Dust ingestion - Dermal contact	Future site users Workers/Student Residents	Low	Contamination testing required to quantify risks.
		Users during development Construction workers	Moderate /Low	Contamination testing required to determine risks posed during construction. Consideration to be given to Health and Safety Executive Guidance. <i>Protection of Workers and the General Public During the Development of Contaminated Land.</i>
	- Inhalation - Dust ingestion	Users of surrounding sites Transient adult workers	Low	Potential low risk during construction from dust generation. Contamination testing required to quantify the risks.
	Leaching of mobilised contaminants	Solid geology Secondary Aquifer – A	Very Low	Low sensitivity aquifer located beneath low permeability drift deposits
		Drift geology Secondary Aquifer – Undifferentiated	Very Low	Low sensitivity aquifer unlikely to contain significant groundwater
	- Drainage - Lateral migration - Accumulation of contaminated sediment	Surface water features On site	Moderate/ Low	Potential for contamination from site to reach surface water, either via surface run-off or groundwater movement.
	Uptake via roots and leaf surfaces	Vegetation None on site or proposed	Low	Potential for peripheral landscaping – contamination results to be assessed against phytotoxic thresholds.
	Areas of contamination above service fabric or BRE Special Digest 1 thresholds	Construction Materials Concrete	Moderate	pH and sulphates to be assessed during Site Investigation
		Construction Materials Service Fabric	Moderate	Consideration to be given to Pipe Material Table (Appendix E) during Site Investigation

7 PROPOSED PHASE TWO INTRUSIVE WORKS

A Phase 2 Site Investigation should be undertaken to verify the assumptions made in the Preliminary Conceptual Site Model and to provide data for foundation design. Given the size of the site, it would be prudent to undertake the works once more detailed design proposals are known. Alternatively, a preliminary investigation could be undertaken, with follow-up works undertaken once design proposals are known.

An outline ground investigation strategy is summarised below, based on the preliminary conceptual site model and information obtained during the desk study.

7.1 Site Investigation Rationale

The Conceptual Model highlights that there is potential for contamination on the site. Therefore, an intrusive investigation should be undertaken with the sampling strategies outlined within BS10175:2011 +A1:2013 and CLR4:1994. These strategies can be considered as:

- Non targeted (BS10175) – If no obvious hotspots or potential sources of contamination have been outlined in the desk study, it would be recommended to utilise a stratified random pattern of sampling locations.
- Targeted (CLR4) – If a possible hotspot is suspected on the site, it is recommended to adopt a targeted approach to sample the immediate vicinity of the hotspot. Highly focussed sampling consisting of several samples within the area of the hotspot may be necessary to delineate the extent of the hotspot.

These strategies can be employed either separately or in conjunction and any site investigation should be individually tailored to each site.

The density of sampling required is defined within BS10175 which notes that the density required is dependent on a number of factors including confidence and robustness required, and contaminants, pathways and receptors present.

7.2 Site Specific Sampling Rationale

The analysis of historical maps and the Conceptual Model did not highlight any defined hotspots on the site. Therefore, a non-targeted approach should be utilised, with sample locations arranged evenly across the site in a defined pattern, in order to provide maximum site coverage.

7.3 Proposed Methods of Investigation

The methods of investigation outlined within Table 5 are considered necessary to address the risks outlined within the Conceptual Model. The locations of these investigation positions will be set out in line with the proposed sampling methodology outlined in Section 7.2.

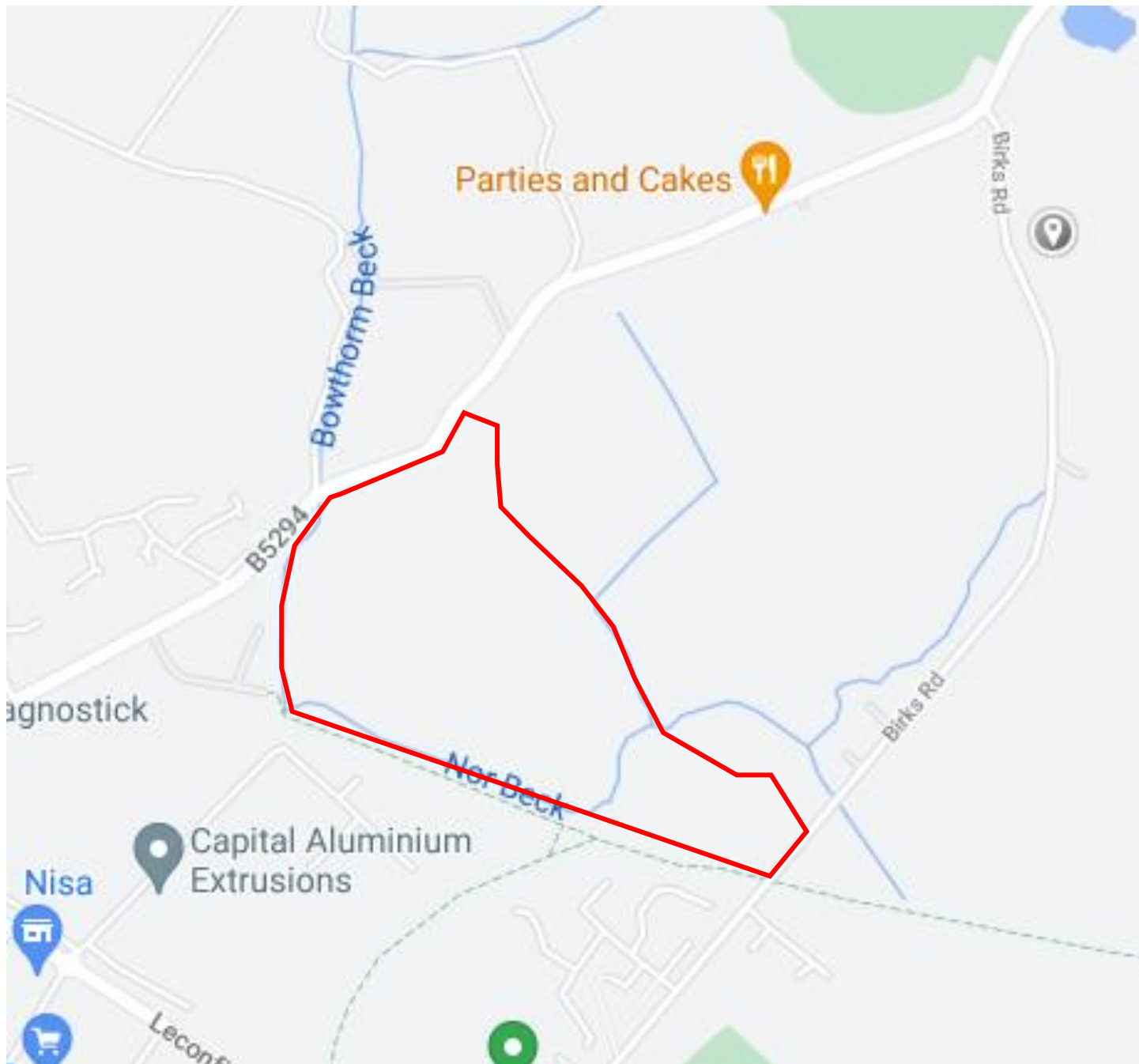
TABLE 5: SITE INVESTIGATION RECOMMENDATIONS

Proposed method of investigation	Purpose	Comments
Hand dug trial pits	Hand dug trial pits to 1.20mbgl to ensure positions are clear of underground services.	To be undertaken prior to the drilling of all boreholes and following CAT scanning and service plan inspection.
A series of small percussive boreholes to ca. 6.00mbgl	- To determine shallow ground conditions. - To collect soil samples for geotechnical and chemical testing. - To observe soils profile, localised variations in materials and presence of groundwater.	- Ensure positions are CAT scanned and service plans inspected prior to any excavation. - Hand vanes to be taken in cohesive deposits. - SPT samples in granular strata and rock head. - Disturbed and jar samples to be undertaken for chemical testing.
Trial pitting to ca. 3.00mbgl	- To assess the shallow ground conditions and obtain samples for chemical testing. - To undertake insitu hand shear vanes. - To undertake soakaway tests and insitu CBR testing.	Ensure positions are CAT scanned and service plans inspected prior to investigation. Trial pits required to accompany the boreholes.
A series of rotary boreholes drilled to ca. 30.00mbgl (ca. 10no. boreholes)	The boreholes are necessary to investigate potential voids and possible weak/broken areas of rock due to mine workings underlying the proposed new structure.	Ensure positions are CAT scanned and service plans inspected prior to excavation.
Gas/groundwater monitoring wells	To observe standing groundwater levels and to allow measurements to be made of hazardous gases and/or contamination levels in groundwater.	Monitoring to be undertaken following site works on a minimum of four occasions.
Chemical testing	To allow the potential risks identified within the conceptual model to be addressed.	Chemical soils and leachates testing to cover potential priority contaminants from Table 2.
Geotechnical testing	To confirm material properties and to provide concrete classification of materials.	Tests may include sulphate analysis, pH, moisture content, Atterberg limit determination, particle size distribution tests and triaxial testing. Further tests may be required depending on the materials encountered.

SOLMEK

Appendix A

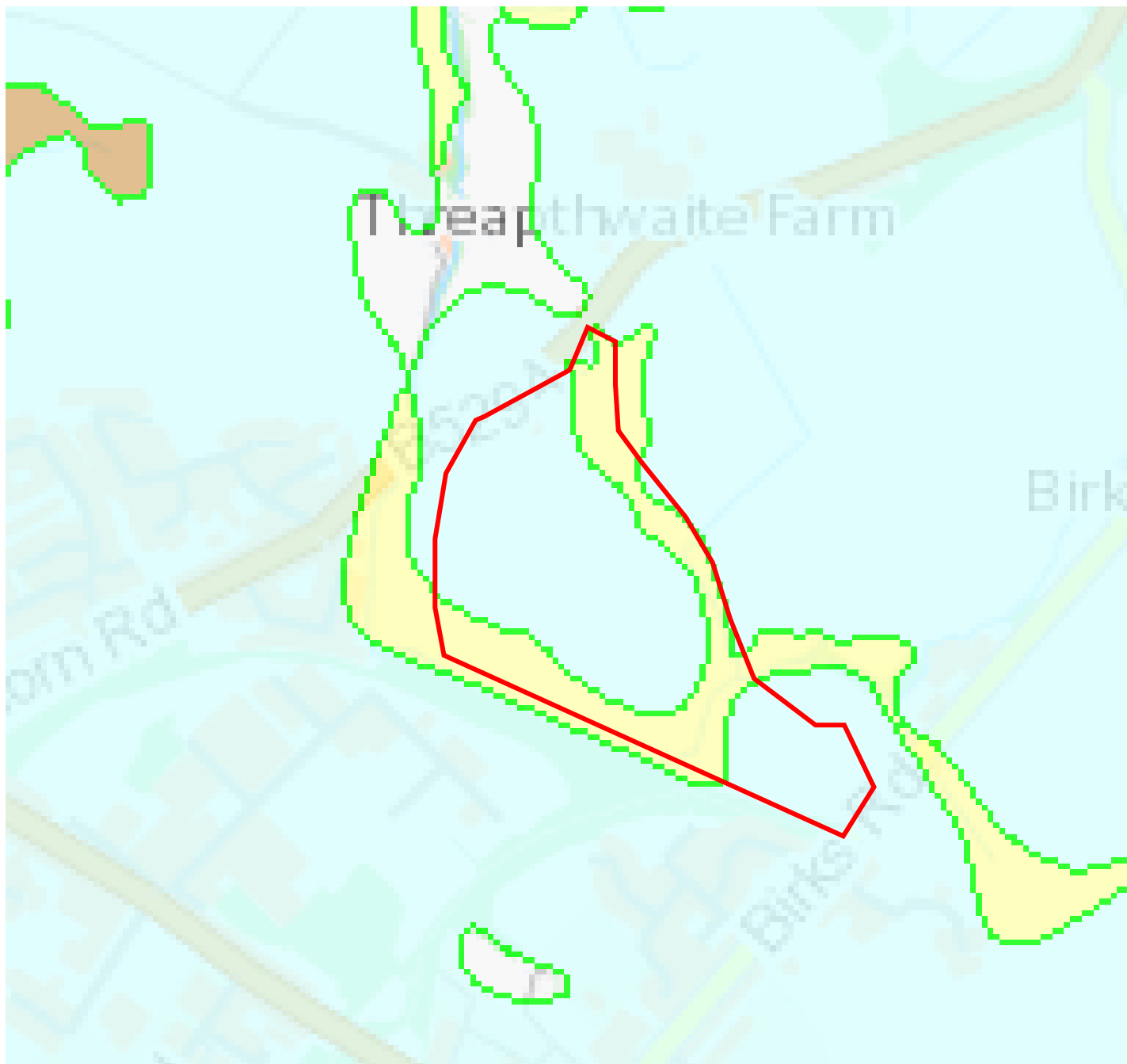
Maps and Photographs



Title
Site Location Map
Project
Site B, Cleator Moor
Client
Copeland Borough Council
Date
September 2021
Fig No.
Figure 1
Scale
Scale on map
Key
Site Boundary N
Solmek Ltd. 12 Yarm Road Stockton-on-Tees TS18 3NA Tel: +44 (0) 1642 607083 Fax: +44 (0) 1642 612355 e-mail: south@solmek.com www.solmek.com  SOLMEK

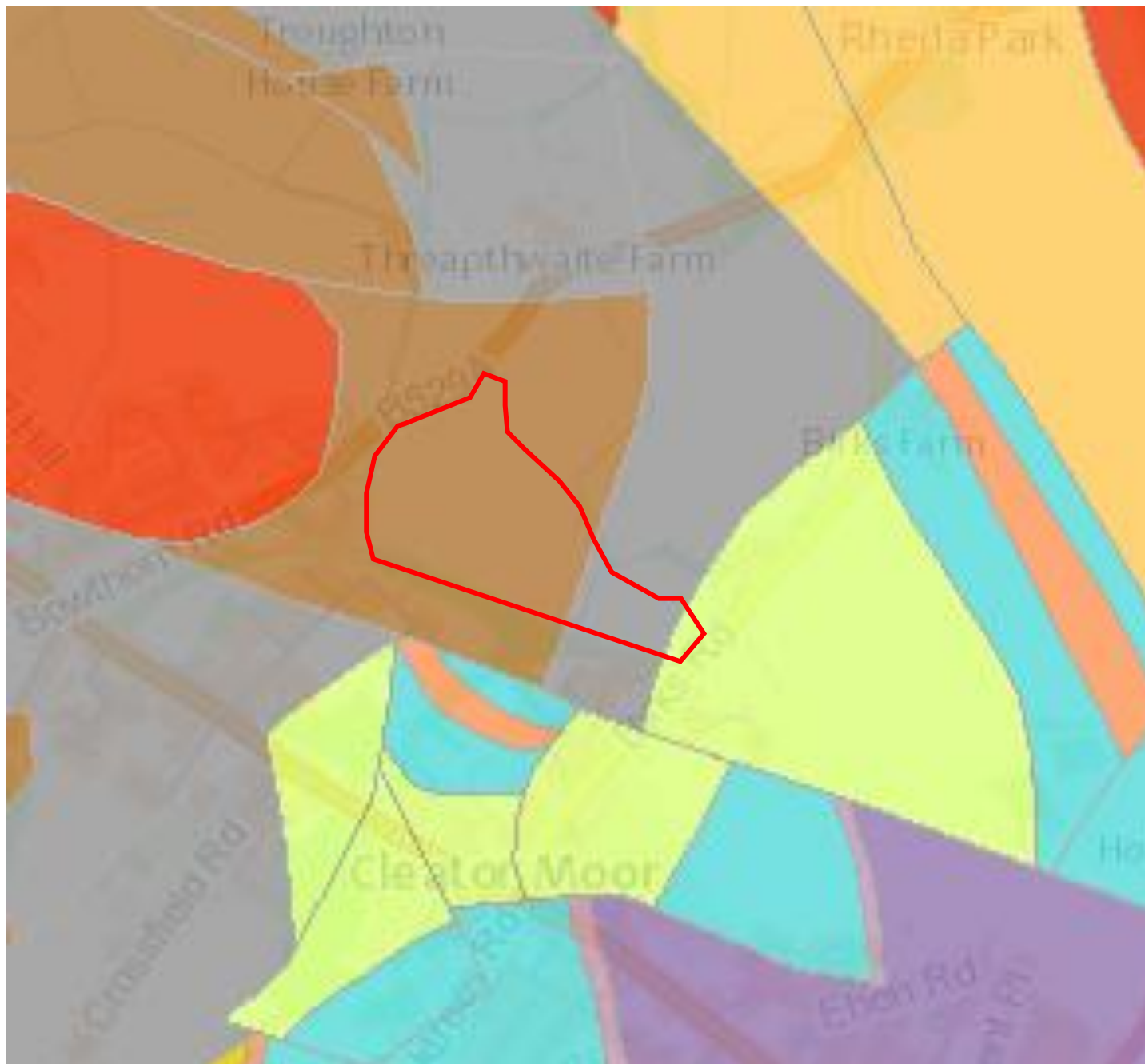


Title
Site Location Plan
Project
Site B, Cleator Moor
Client
Copeland Borough Council
Date
September 2021
Fig No.
Figure 2
Scale
Scale on map
Key
Site Boundary
N
Solmek Ltd. 12 Yarm Road Stockton-on-Tees TS18 3NA Tel: +44 (0) 1642 607083 Fax: +44 (0) 1642 612355 e-mail: south@solmek.com www.solmek.com



Title	Drift Geology Map
Project	Site B, Cleator Moor
Client	Copeland Borough Council
Date	September 2021
Fig No.	Figure 3
Scale	Scale on map
Key	Site Boundary Alluvium Glacial Till Peat
Solmek Ltd. 12 Yarm Road Stockton-on-Tees TS18 3NA Tel: +44 (0) 1642 607083 Fax: +44 (0) 1642 612355 e-mail: south@solmek.com www.solmek.com	

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Title	Solid Geology Map
Project	Site B, Cleator Moor
Client	Copeland Borough Council
Date	September 2021
Fig No.	Figure 4
Scale	Scale on map
Key	Site Boundary Whitehaven Sandstone Formation Pennine Middle Coal Measures – Mudstone, Siltstone & Sandstone Stainmore Formation N
Solmek Ltd. 12 Yarm Road Stockton-on-Tees TS18 3NA Tel: +44 (0) 1642 607083 Fax: +44 (0) 1642 612355 e-mail: south@solmek.com www.solmek.com	



Photo 1: Photo taken looking east across site.



Photo 2: Photo taken looking south across site.

Title	Date	Solmek Ltd. 12 Yarm Road Stockton-on-Tees TS18 3NA Tel: +44 (0) 1642 607083 Fax: +44 (0) 1642 612355 e-mail: south@solmek.com www.solmek.com  SOLMEK
Site Walkover Photos	September 2021	
Project	Figure No.	
Site B, Cleator Moor	5	
Client		
Copeland Borough Council		



Photo 3: Photo taken looking north across site.



Photo 4: Photo taken looking west across site.

Title	Date
Site Walkover Photos	September 2021
Project	Figure No.
Site B, Cleator Moor	6
Client	
Copeland Borough Council	

Solmek Ltd.
12 Yarm Road
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Appendix B

Historical Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

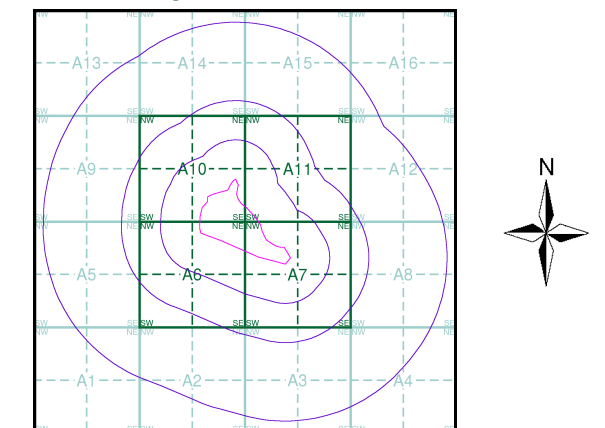
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
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	1971	7
Ordnance Survey Plan	1:10,000	1993	8
10K Raster Mapping	1:10,000	2000	9
Street View	Variable		10

Historical Map - Slice A



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
INFORMATION GROUP

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



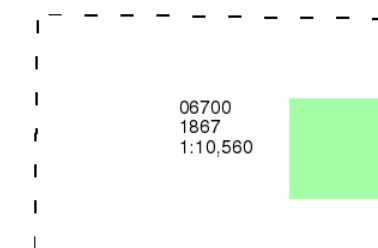
Cumberland

Published 1867

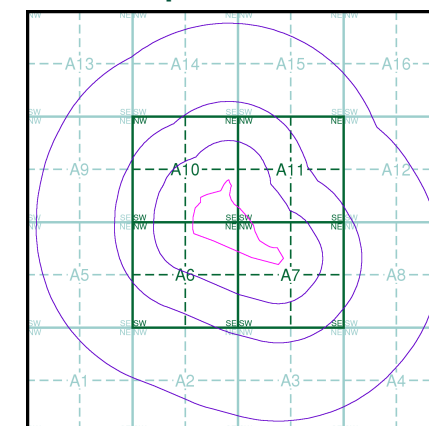
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

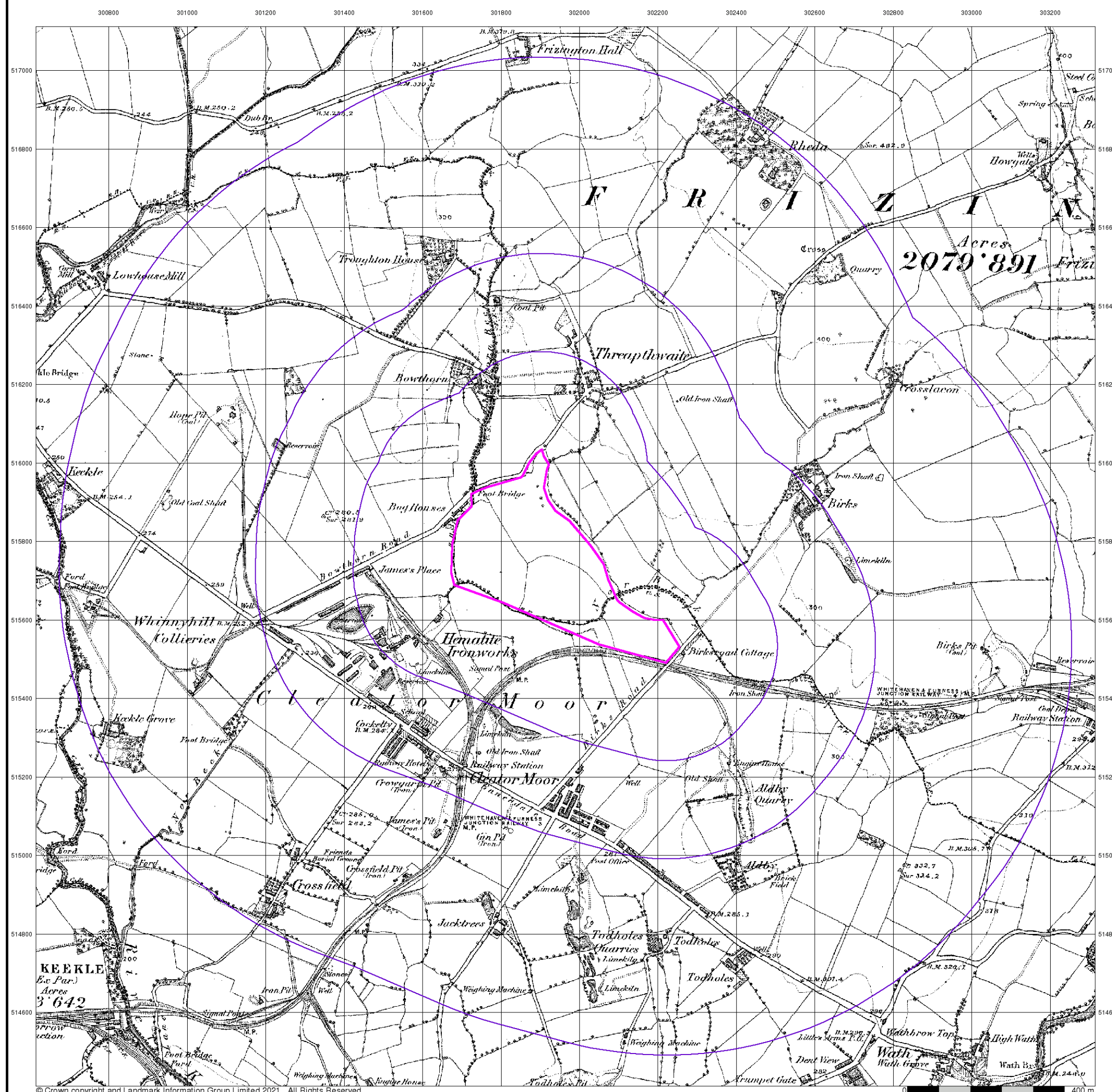
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Search Buffer (m): 1000

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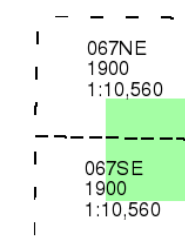
Cumberland

Published 1900

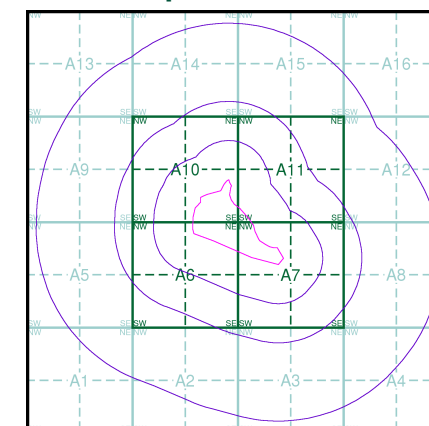
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Map Name(s) and Date(s)



Historical Map - Slice A

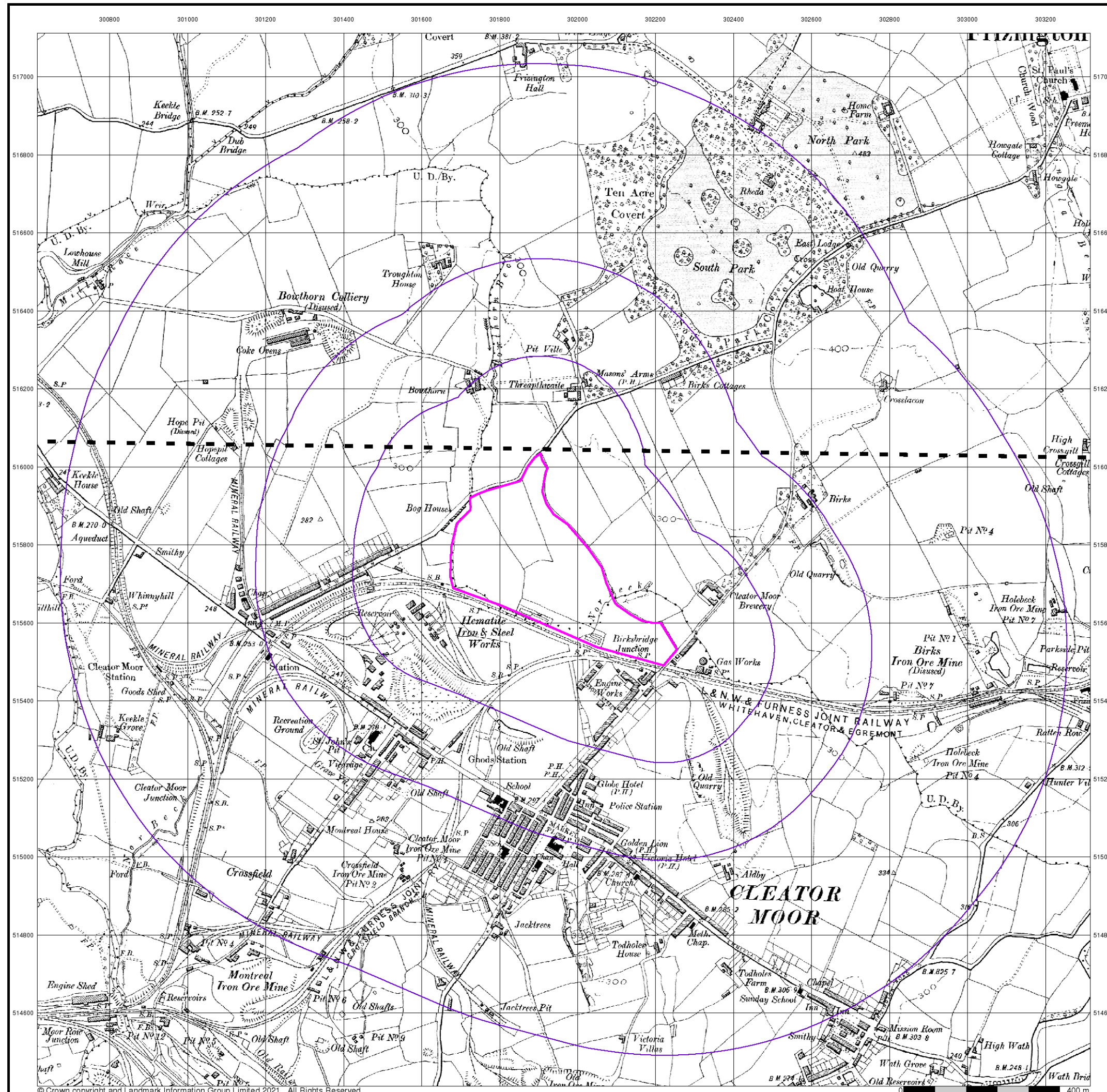


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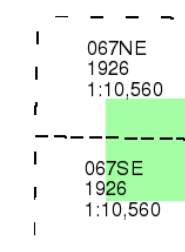
Cumberland

Published 1926

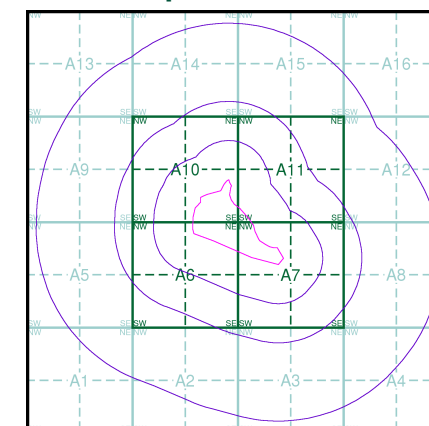
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 283883620_1_1
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National Grid Reference: 301960, 515730
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Site Area (Ha): 13.1
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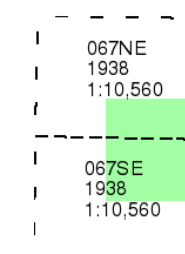
Cumberland

Published 1938

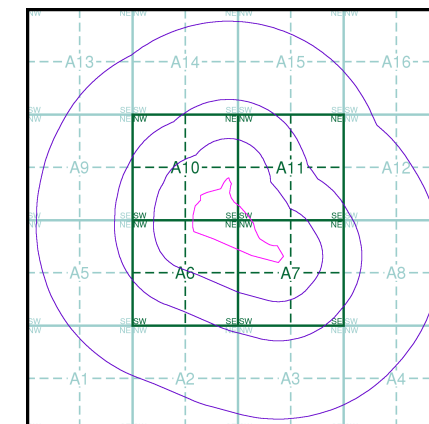
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1956 - 1957

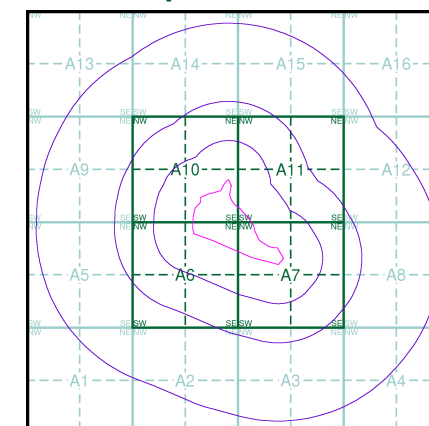
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Map Name(s) and Date(s)

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1:10,560	
NY01SW	1956
1:10,560	

Historical Map - Slice A



Order Details

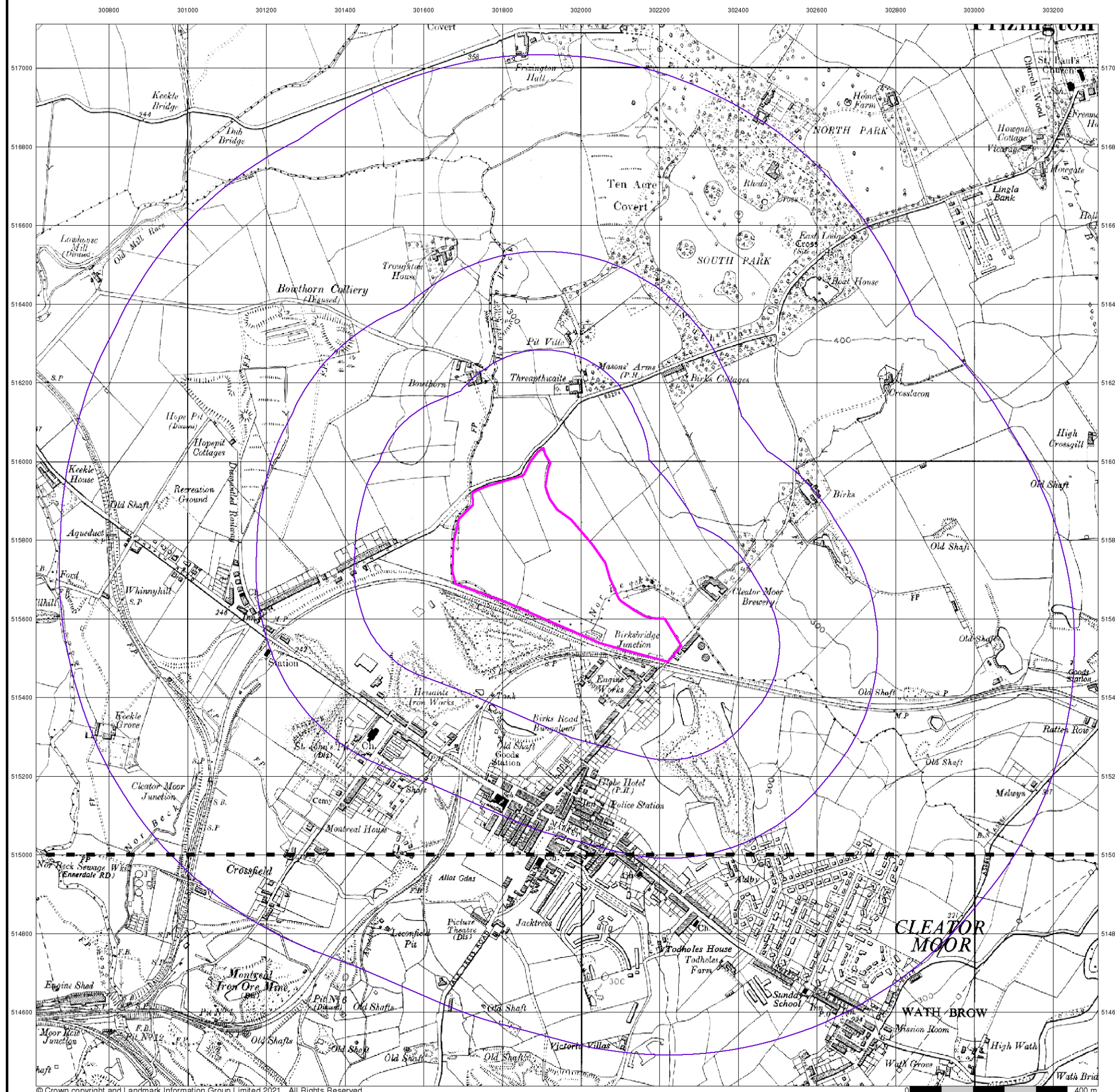
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Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

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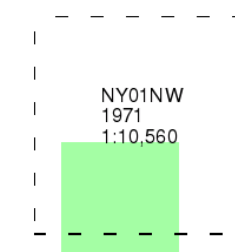
Ordnance Survey Plan

Published 1971

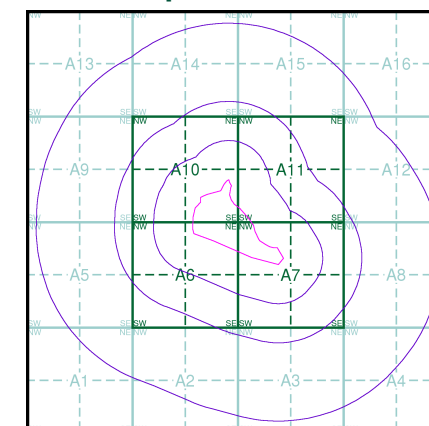
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

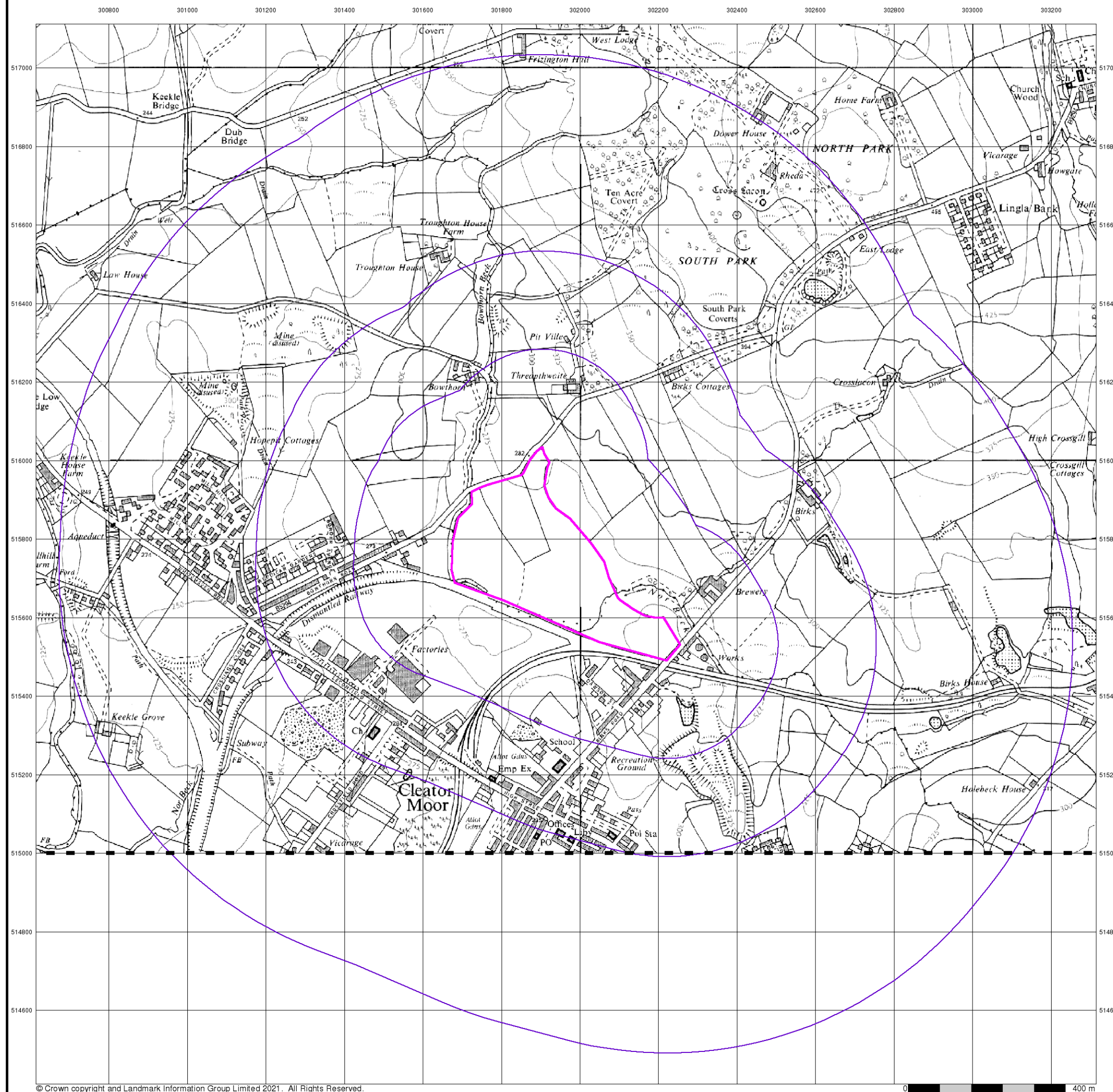
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Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

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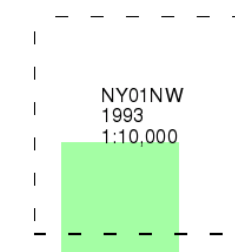
Ordnance Survey Plan

Published 1993

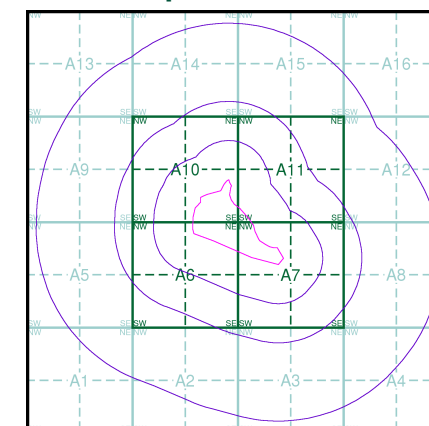
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Map Name(s) and Date(s)



Historical Map - Slice A

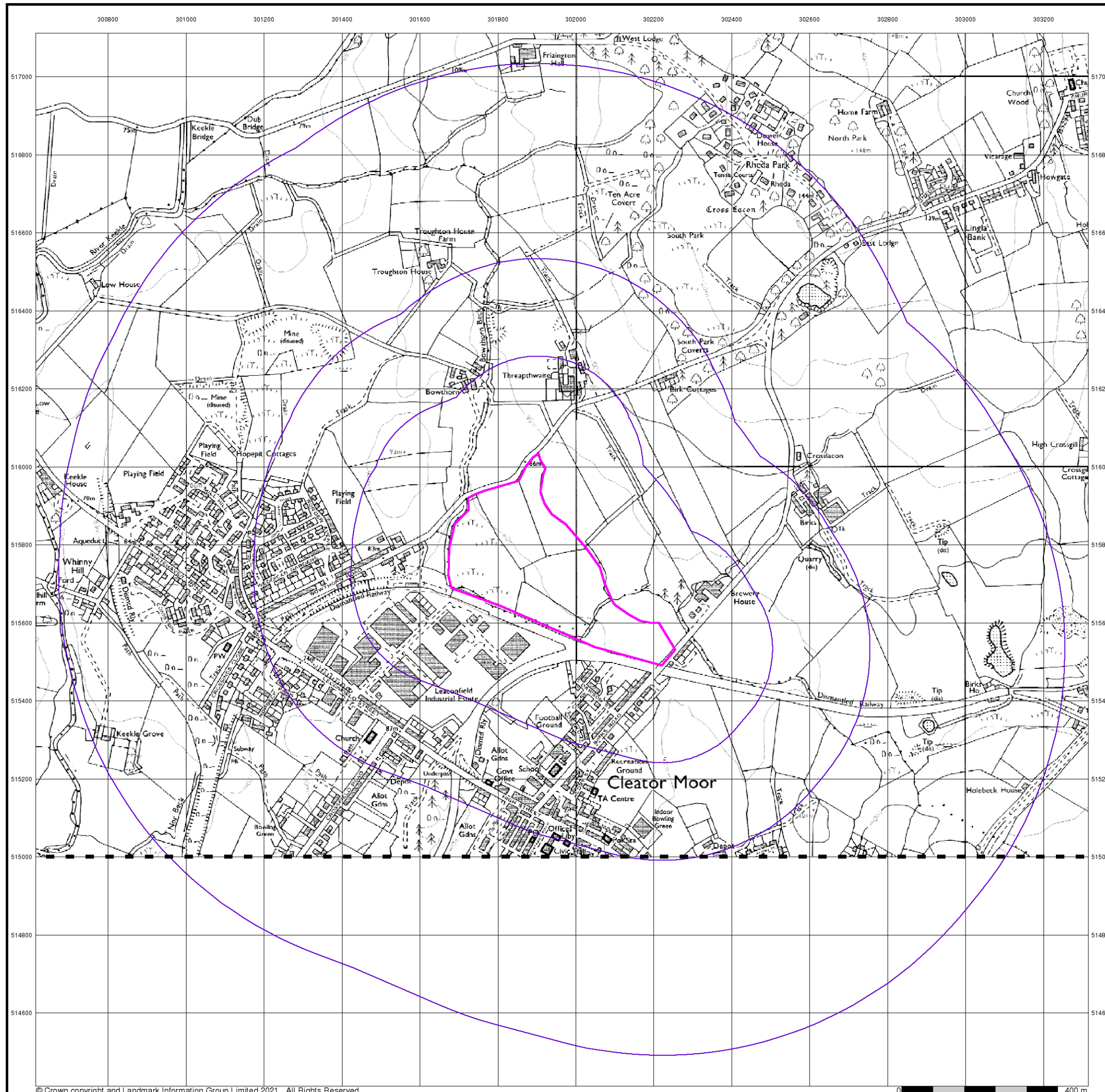


Order Details

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Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW





10k Raster Mapping

Published 2000

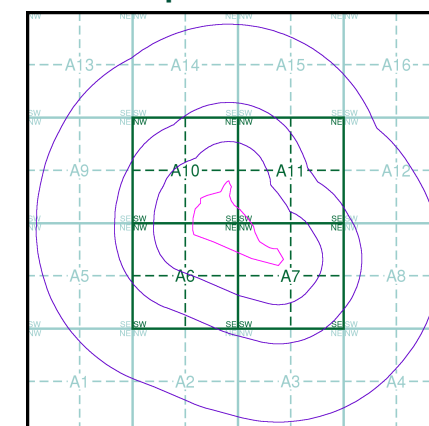
Source map scale - 1:10,000

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)

NY01NW
2000
1:10,000
NY01SW
2000
1:10,000

Historical Map - Slice A



Order Details

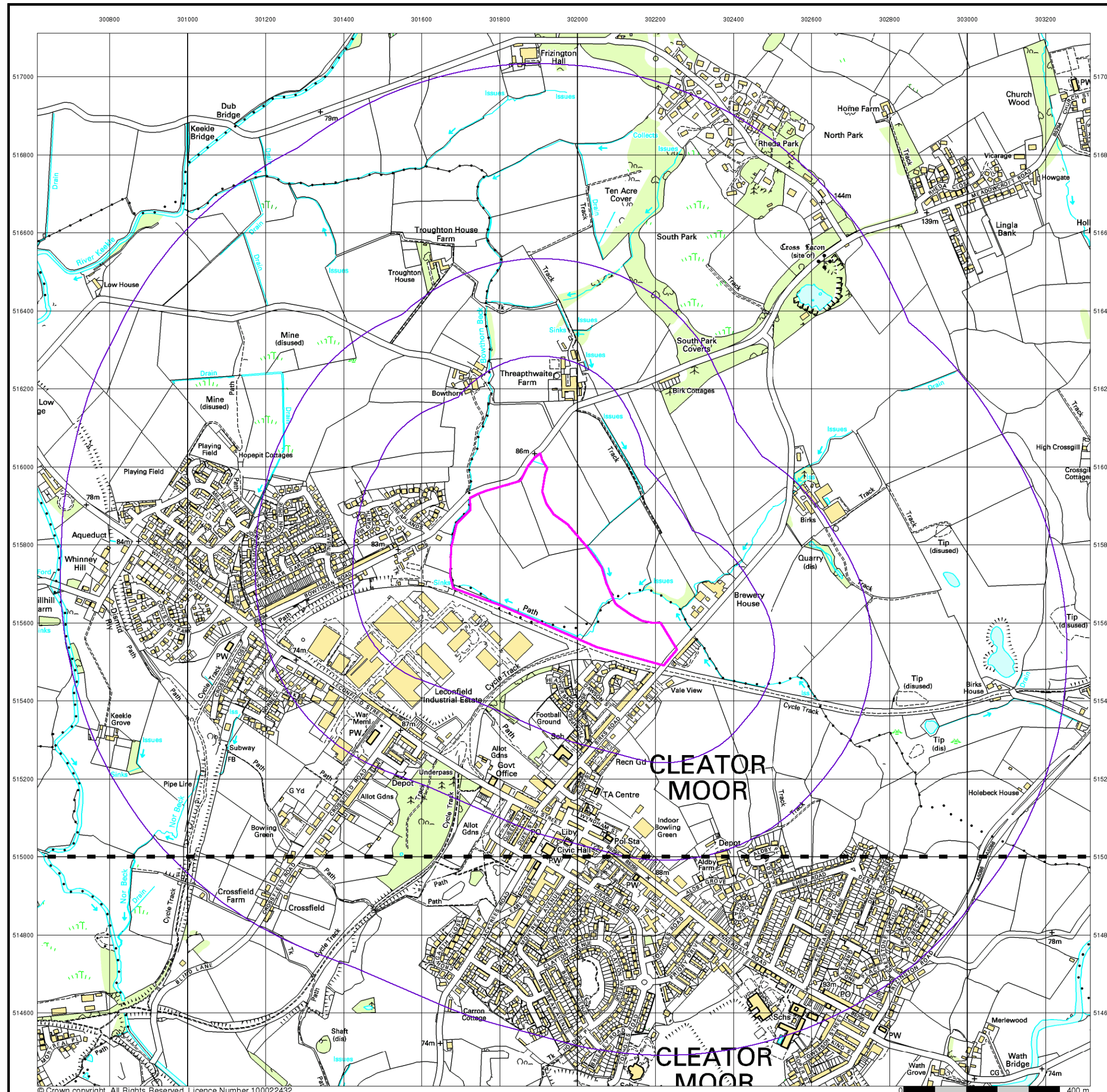
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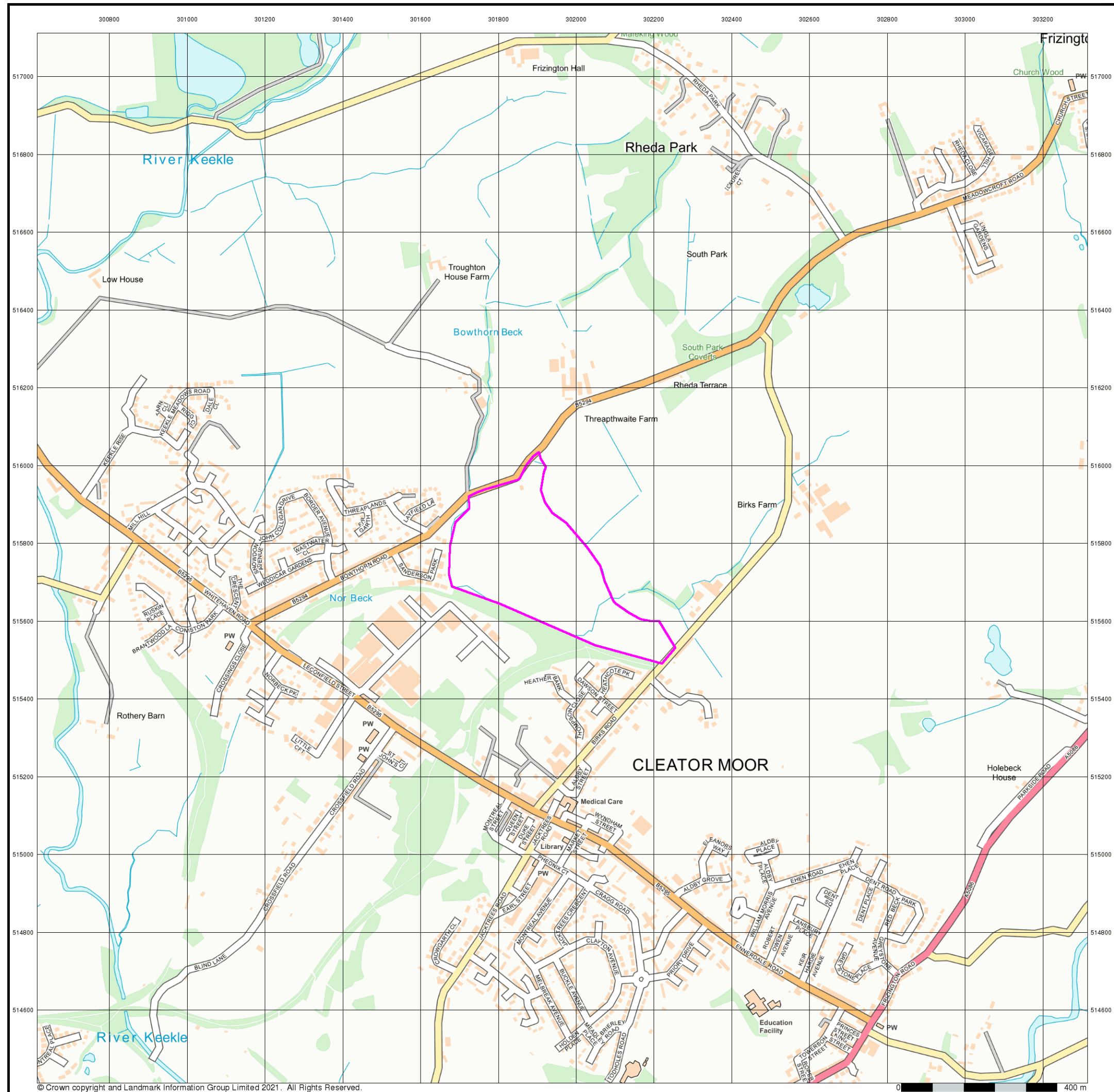
Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
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0 400 m



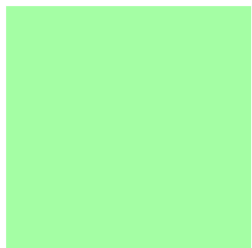
Street View

Published 2021

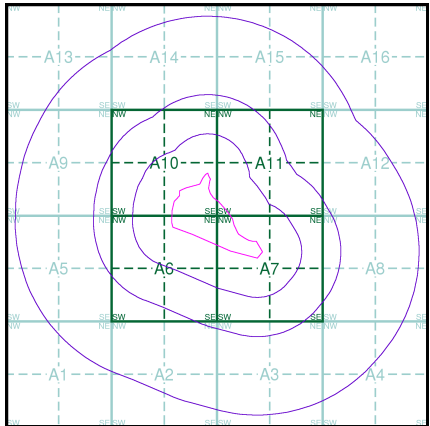
Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)



Street View Map - Slice A



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

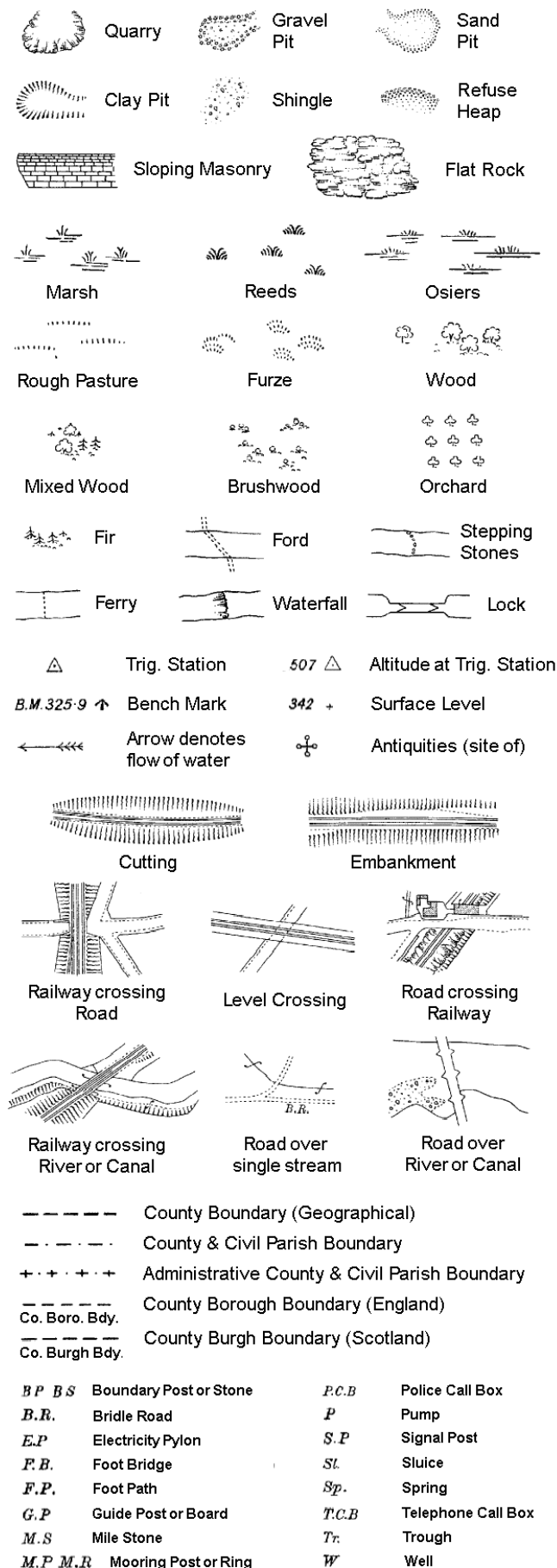
Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



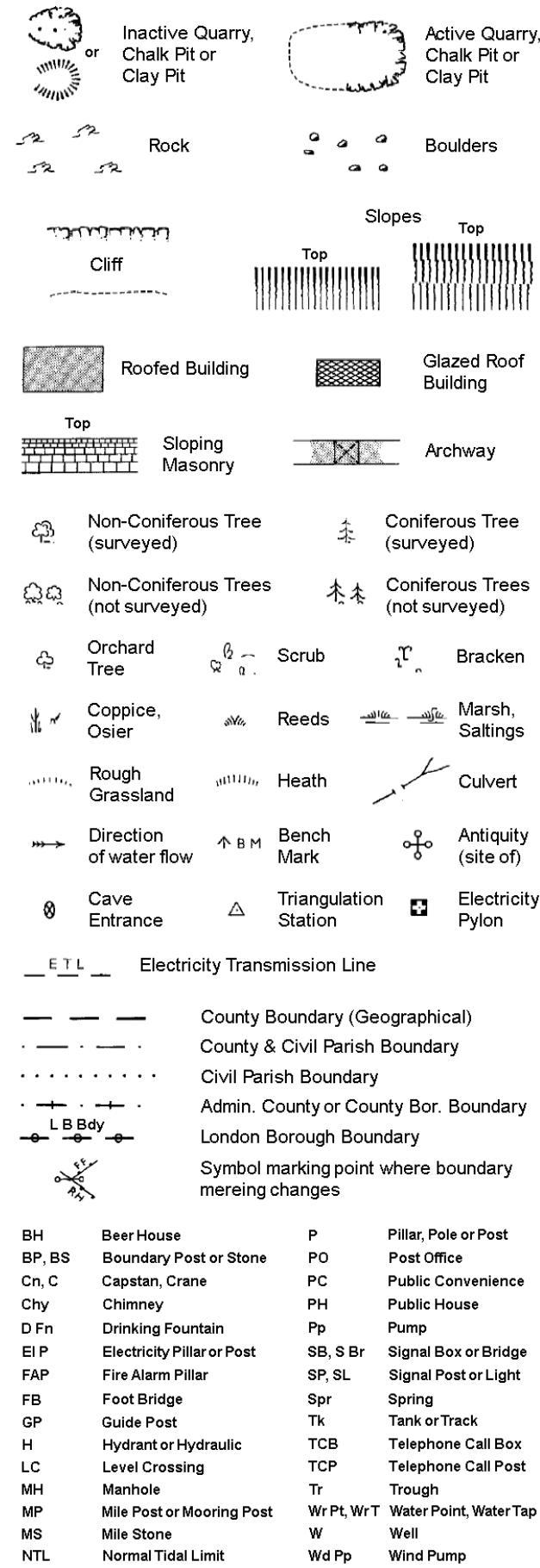
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Historical Mapping Legends

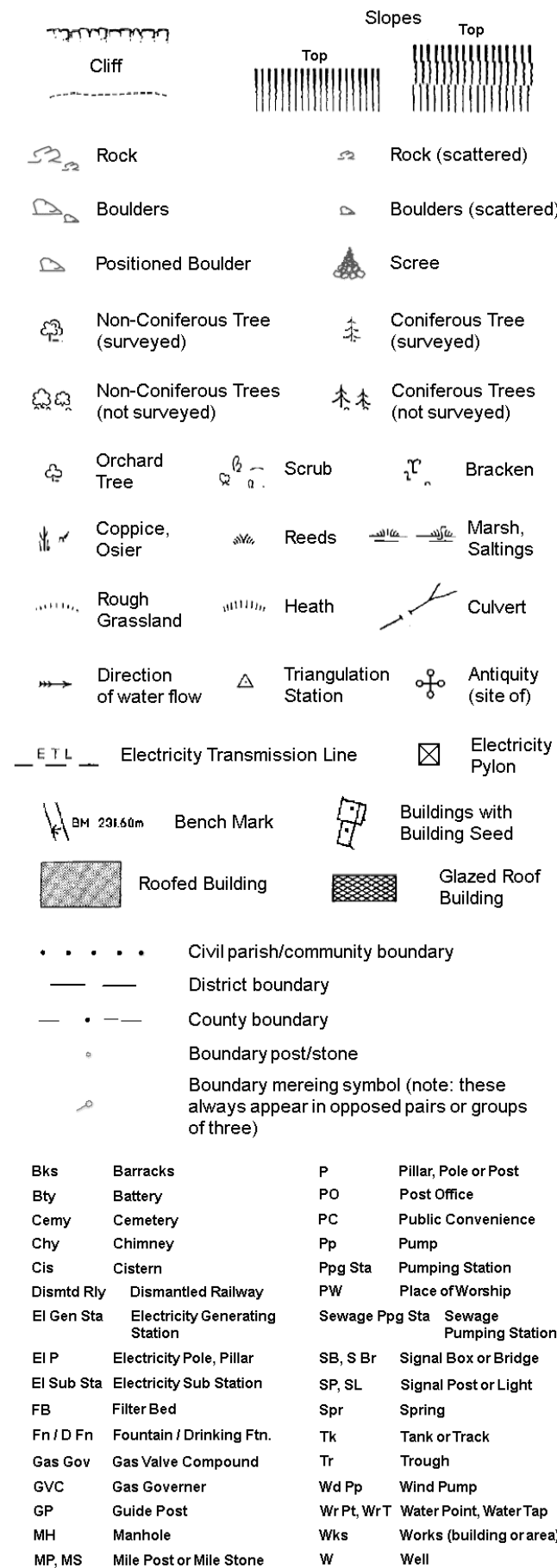
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



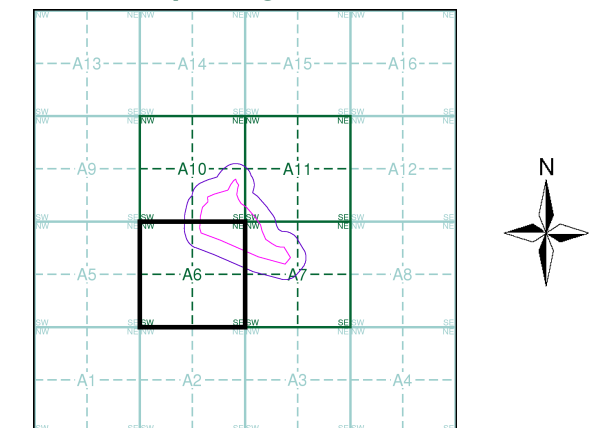
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863	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	1970	6
Additional SIMs	1:2,500	1982	7
Additional SIMs	1:2,500	1985	8
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14

Historical Map - Segment A6



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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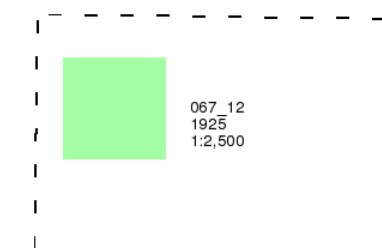
Cumberland

Published 1925

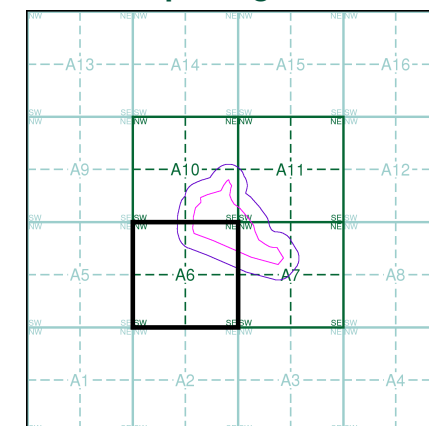
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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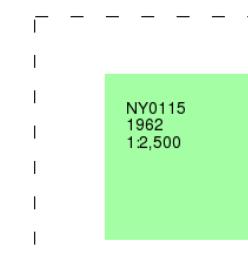
Ordnance Survey Plan

Published 1962

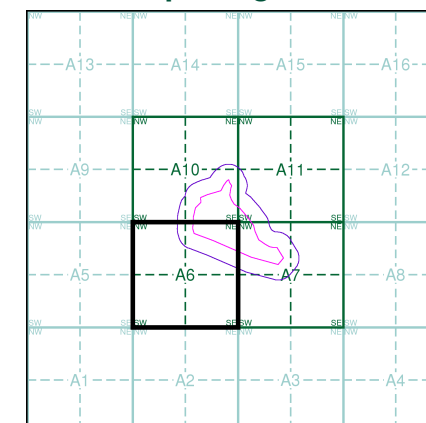
Source map scale - 1:2,500

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)



Historical Map - Segment A6



Order Details

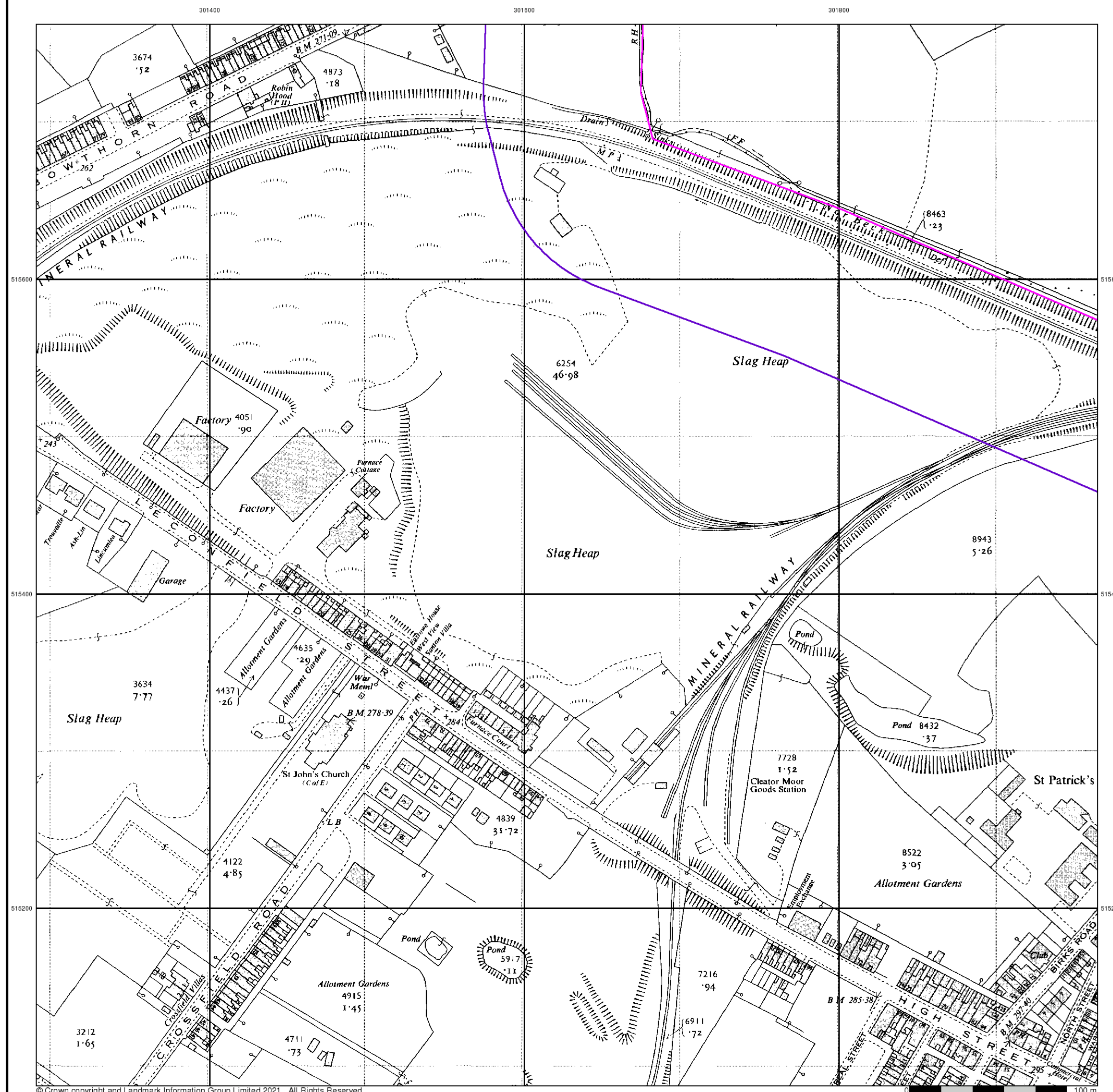
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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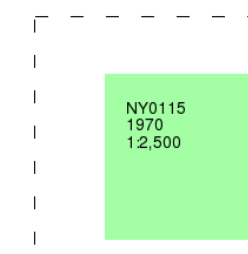
Ordnance Survey Plan

Published 1970

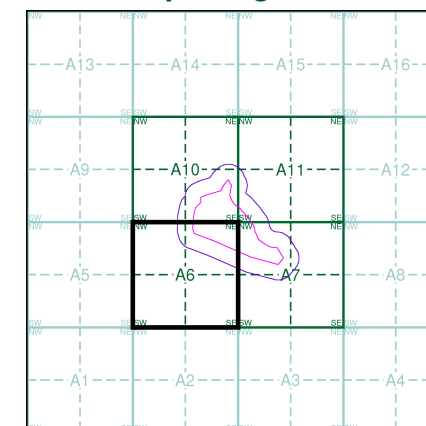
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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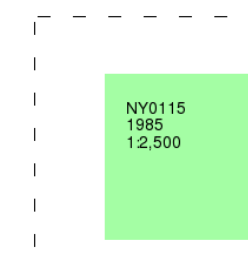
Additional SIMs

Published 1985

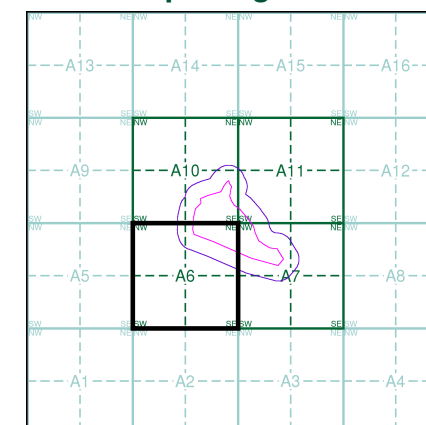
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A6



Order Details

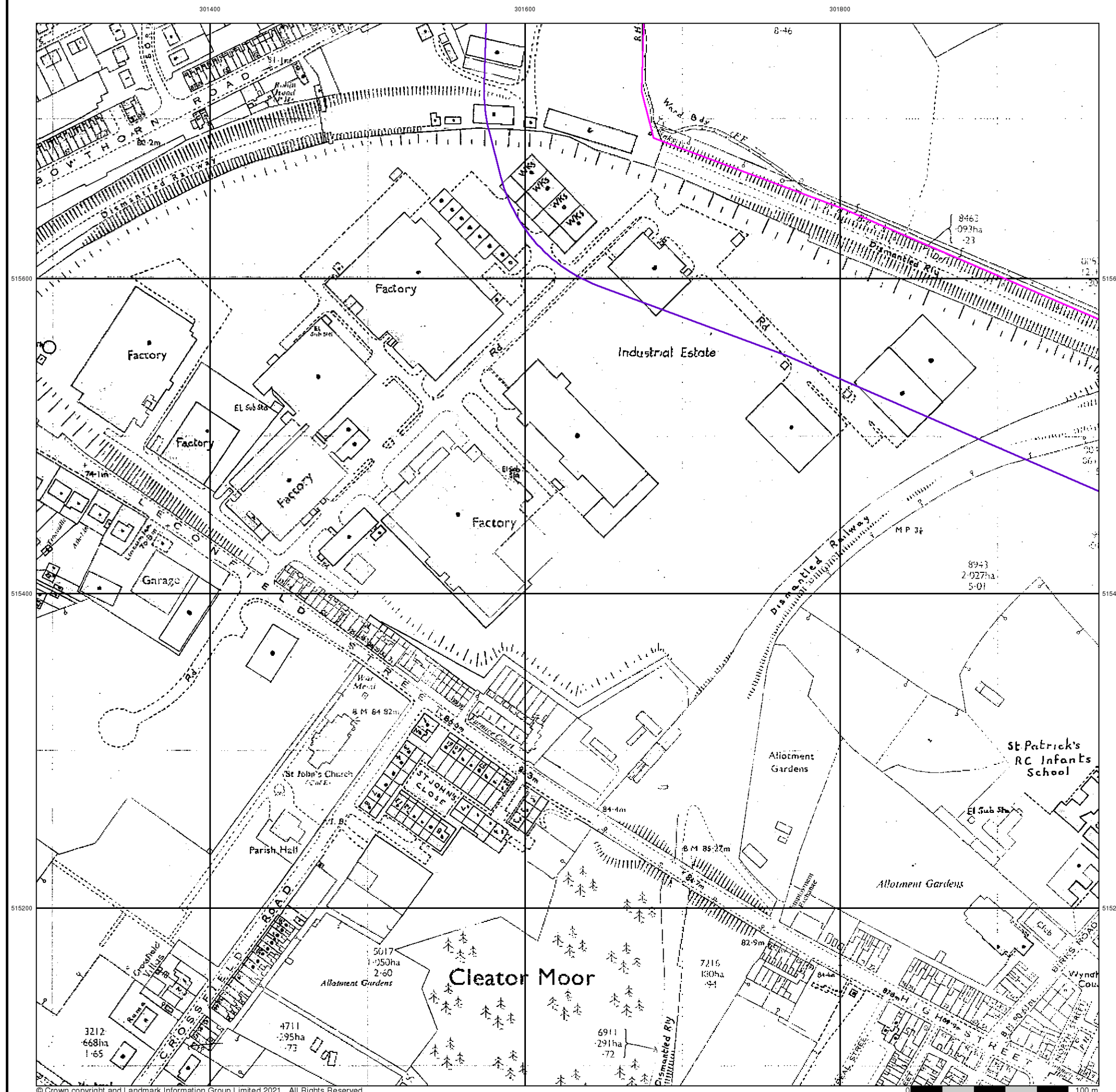
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Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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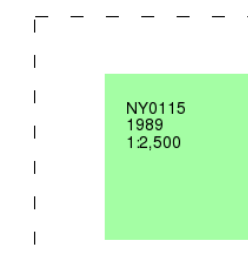
Ordnance Survey Plan

Published 1989

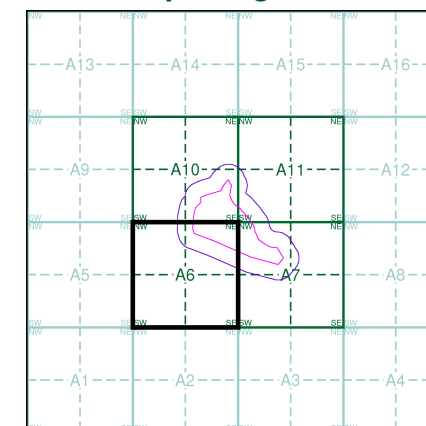
Source map scale - 1:2,500

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 A6



Order Details

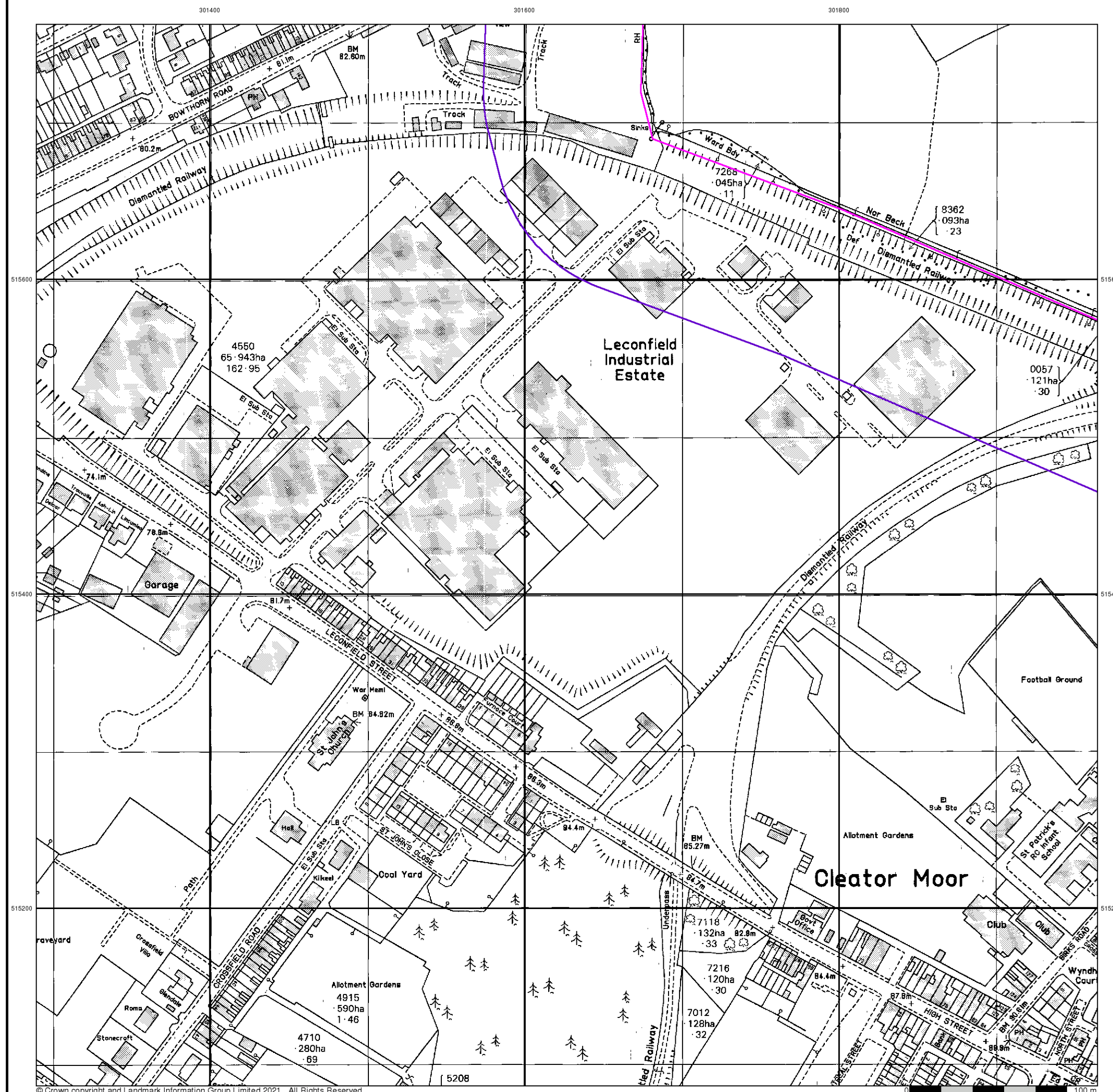
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Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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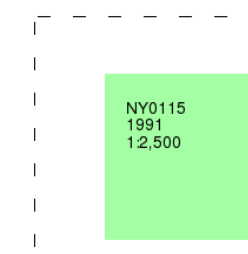
Additional SIMs

Published 1991

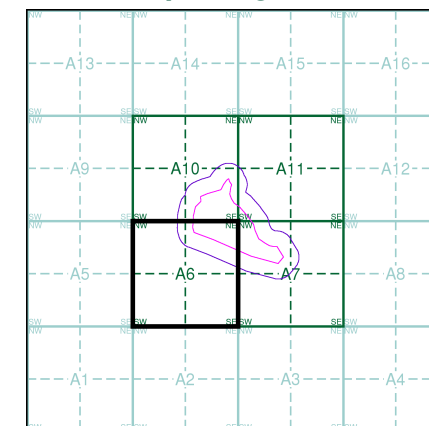
Source map scale - 1:2,500

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 A6



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
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Site Details

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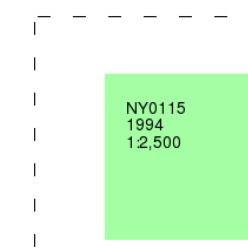
Large-Scale National Grid Data

Published 1994

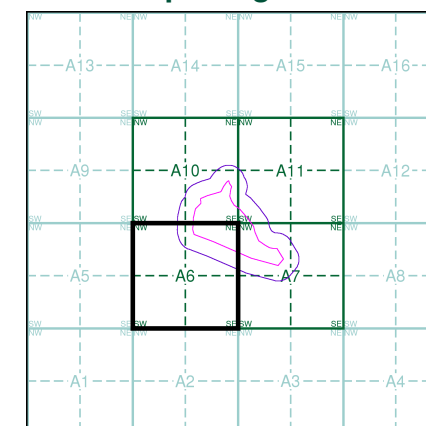
Source map scale - 1:2,500

'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 A6



Order Details

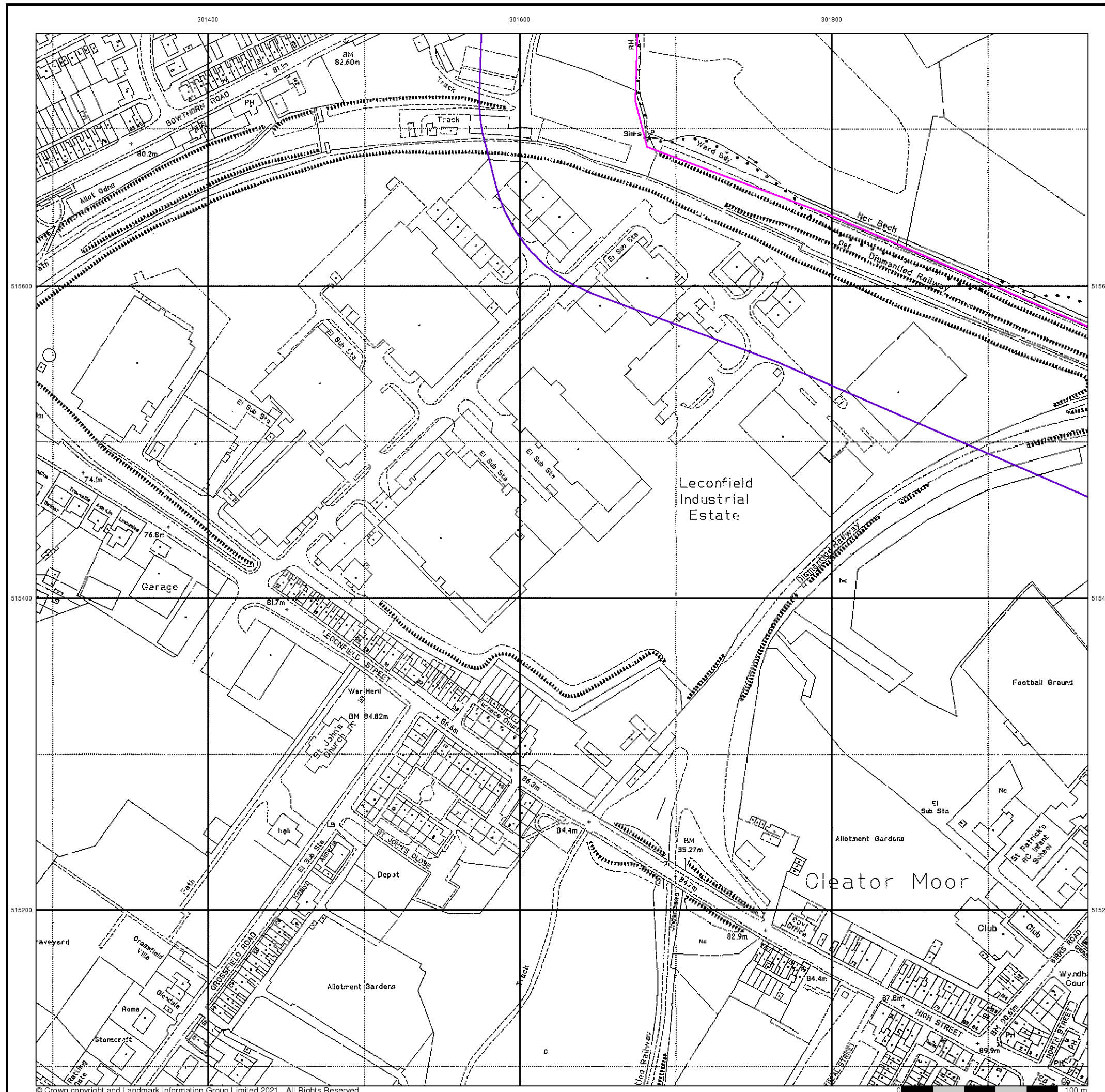
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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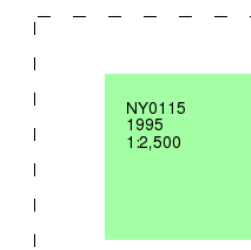
Large-Scale National Grid Data

Published 1995

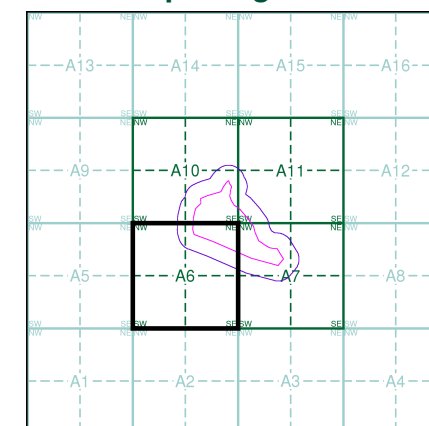
Source map scale - 1:2,500

'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 A6



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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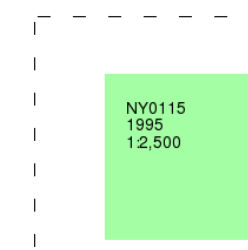
Large-Scale National Grid Data

Published 1995

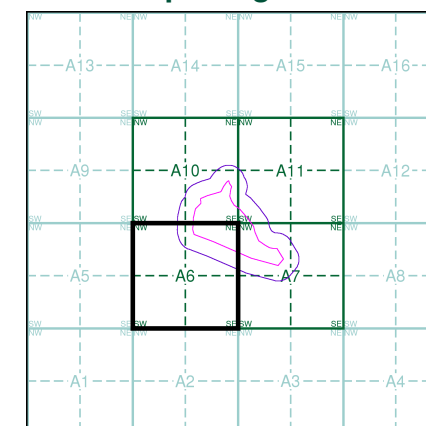
Source map scale - 1:2,500

'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 A6



Order Details

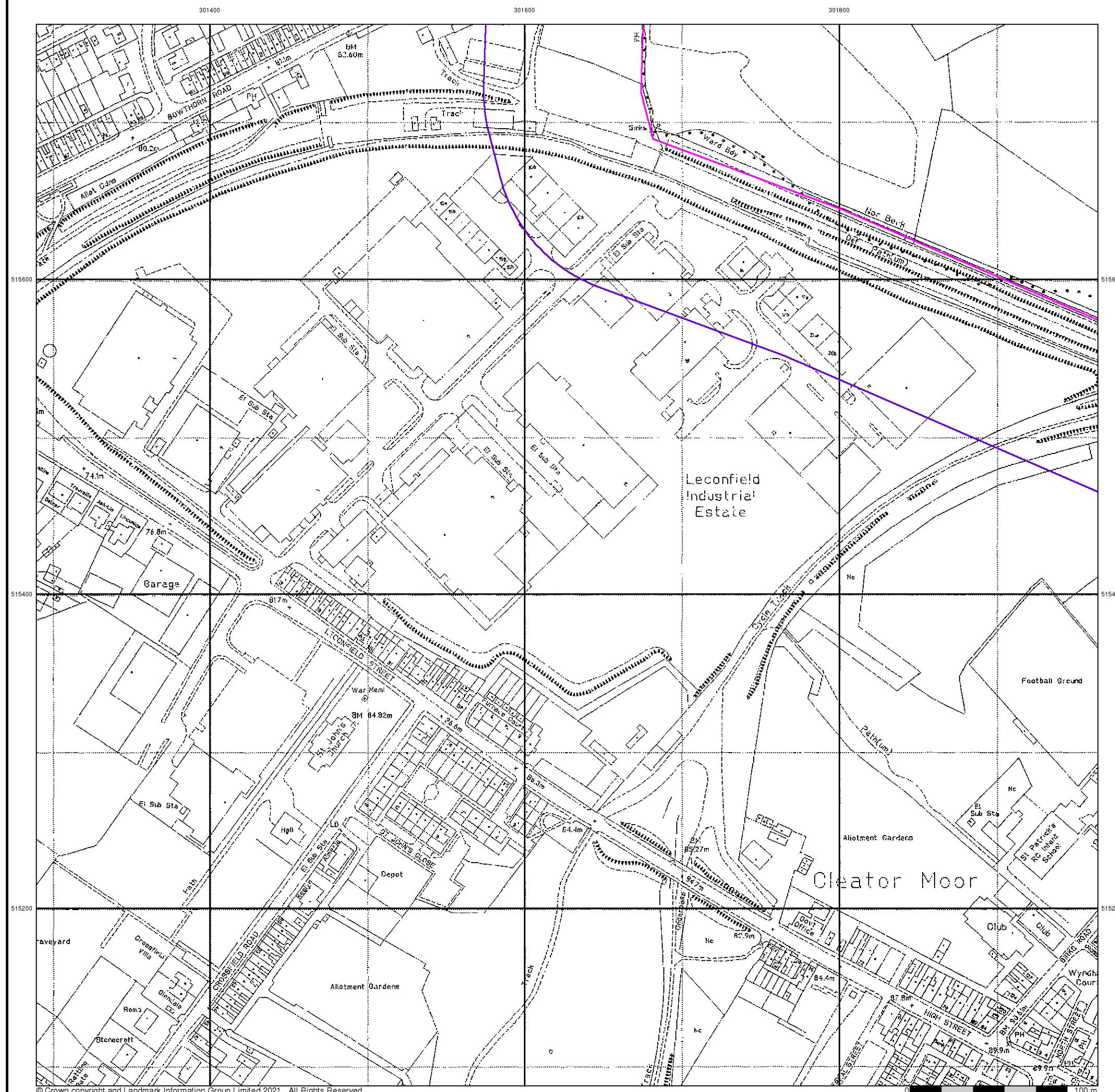
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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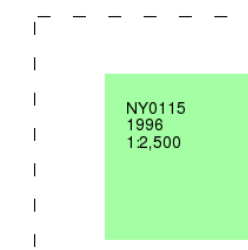
Large-Scale National Grid Data

Published 1996

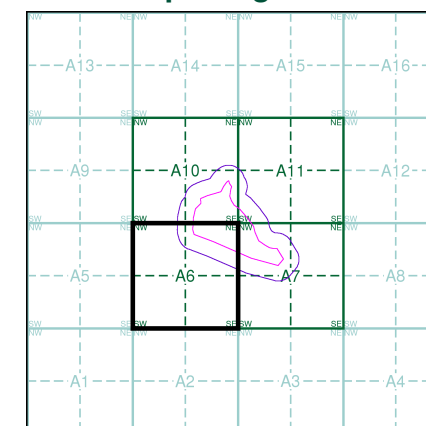
Source map scale - 1:2,500

'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 A6



Order Details

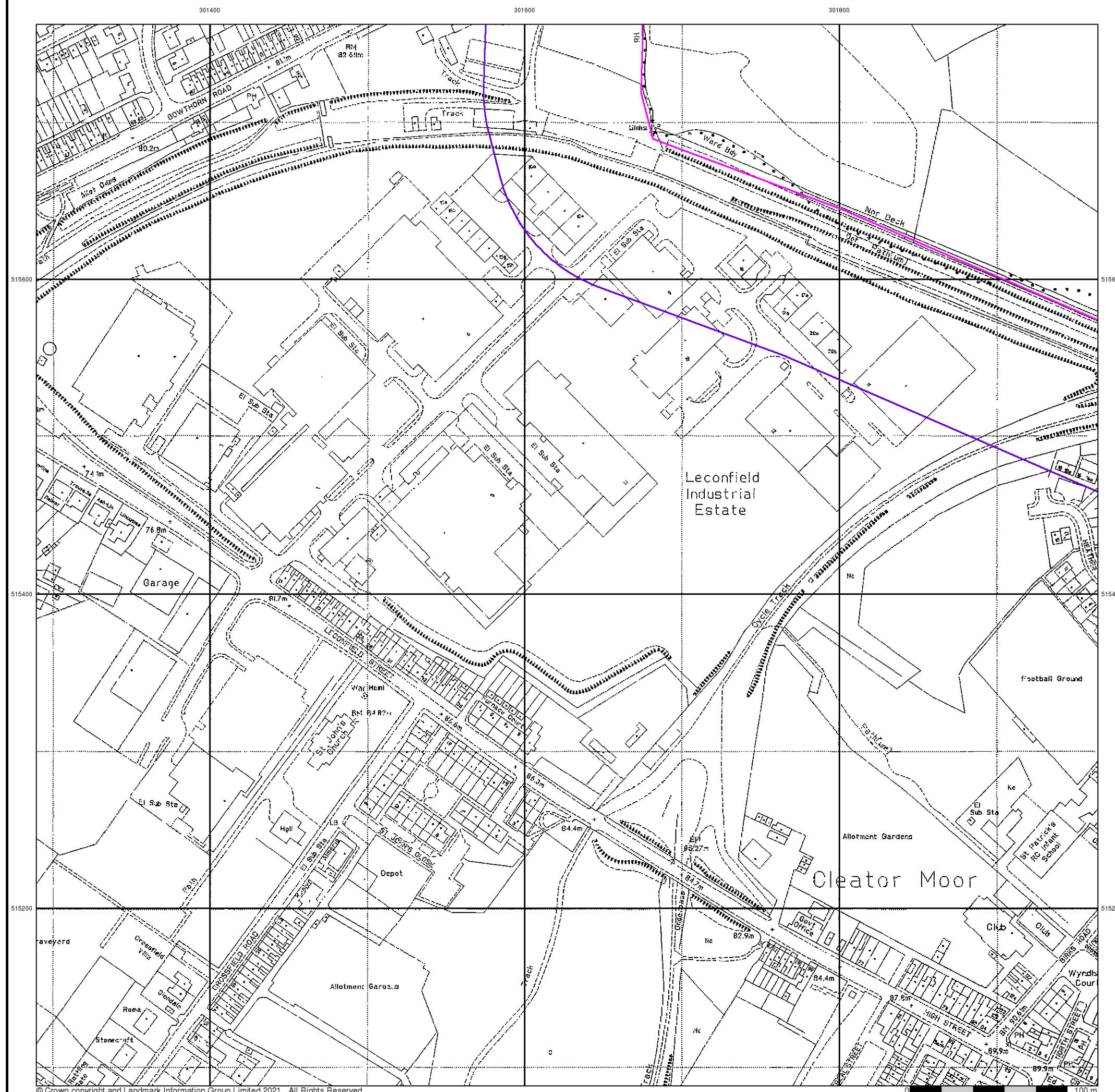
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

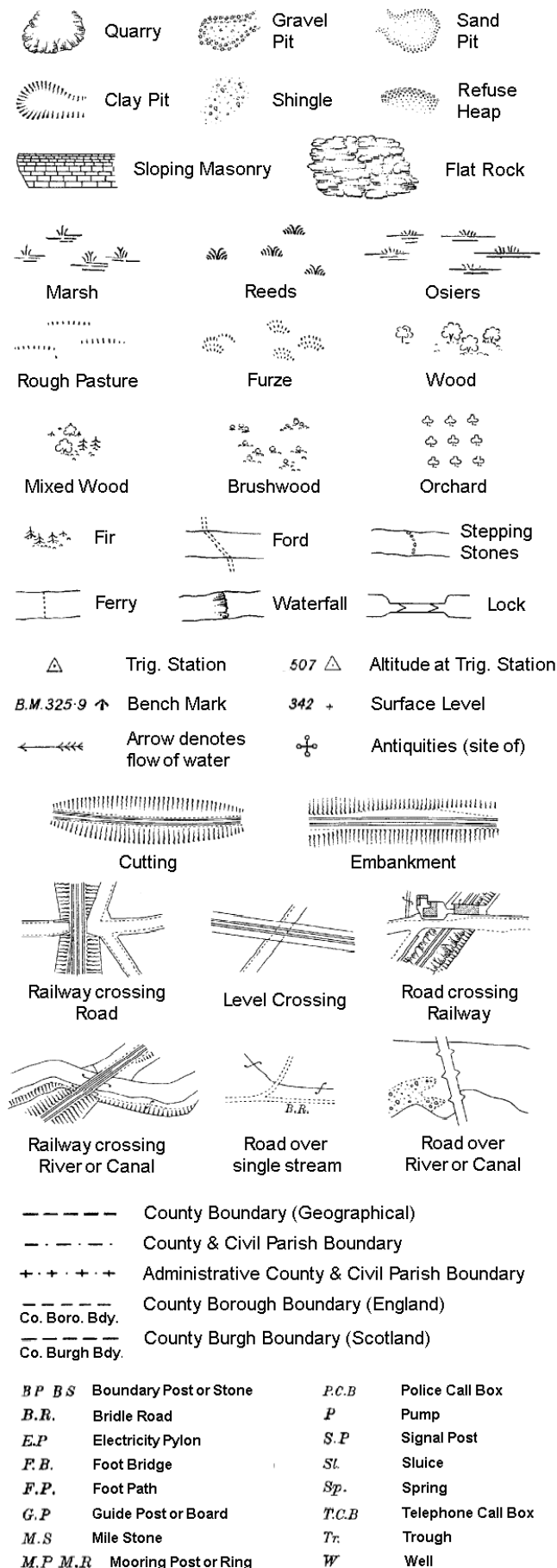


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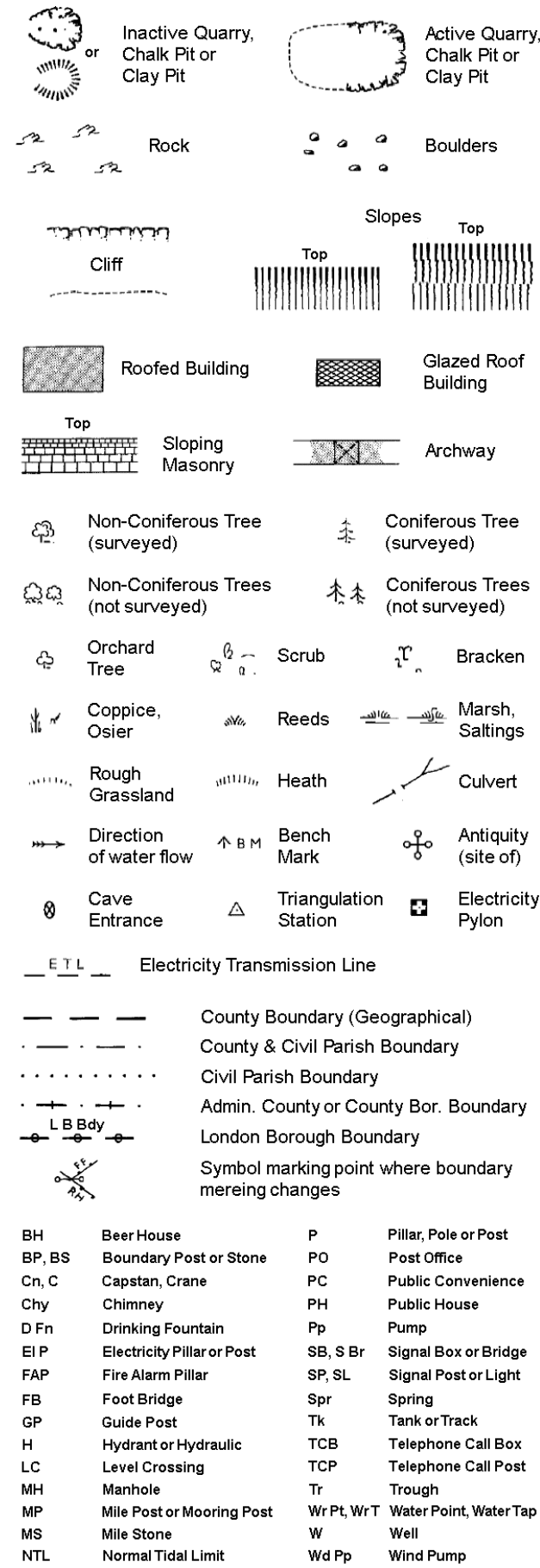


Historical Mapping Legends

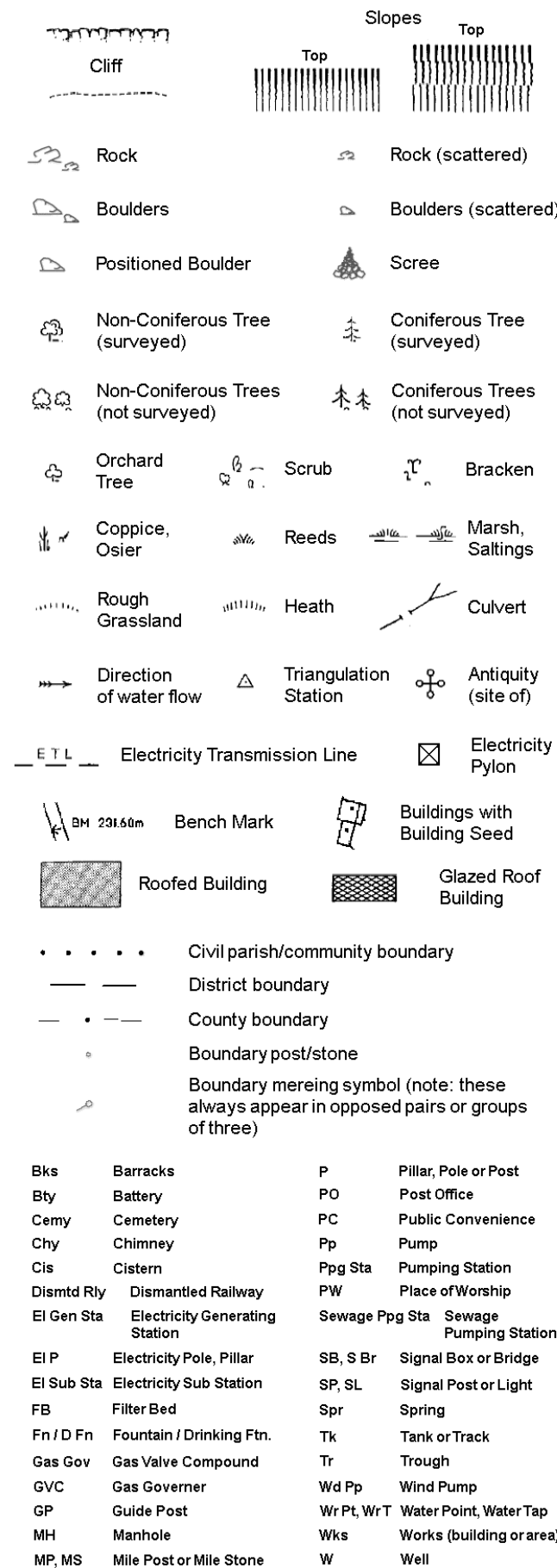
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



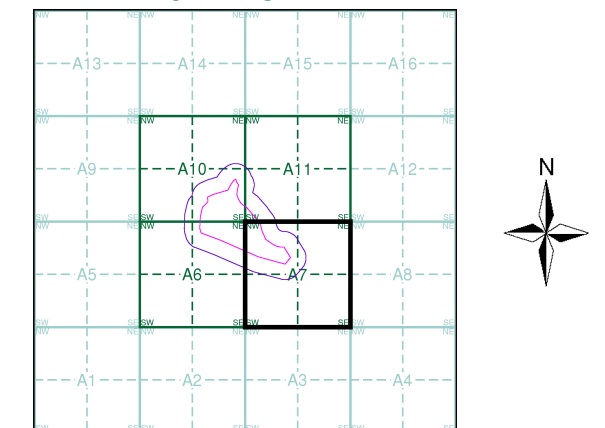
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1962 - 1982	6
Ordnance Survey Plan	1:2,500	1970	7
Additional SIMs	1:2,500	1985	8
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14

Historical Map - Segment A7



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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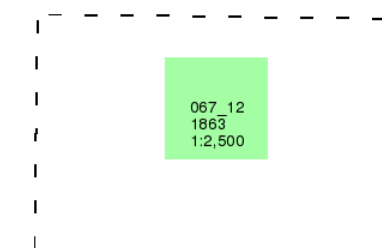
Cumberland

Published 1863

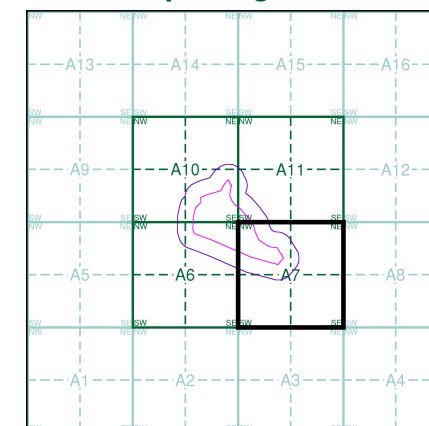
Source map scale - 1:2,500

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 A7



Order Details

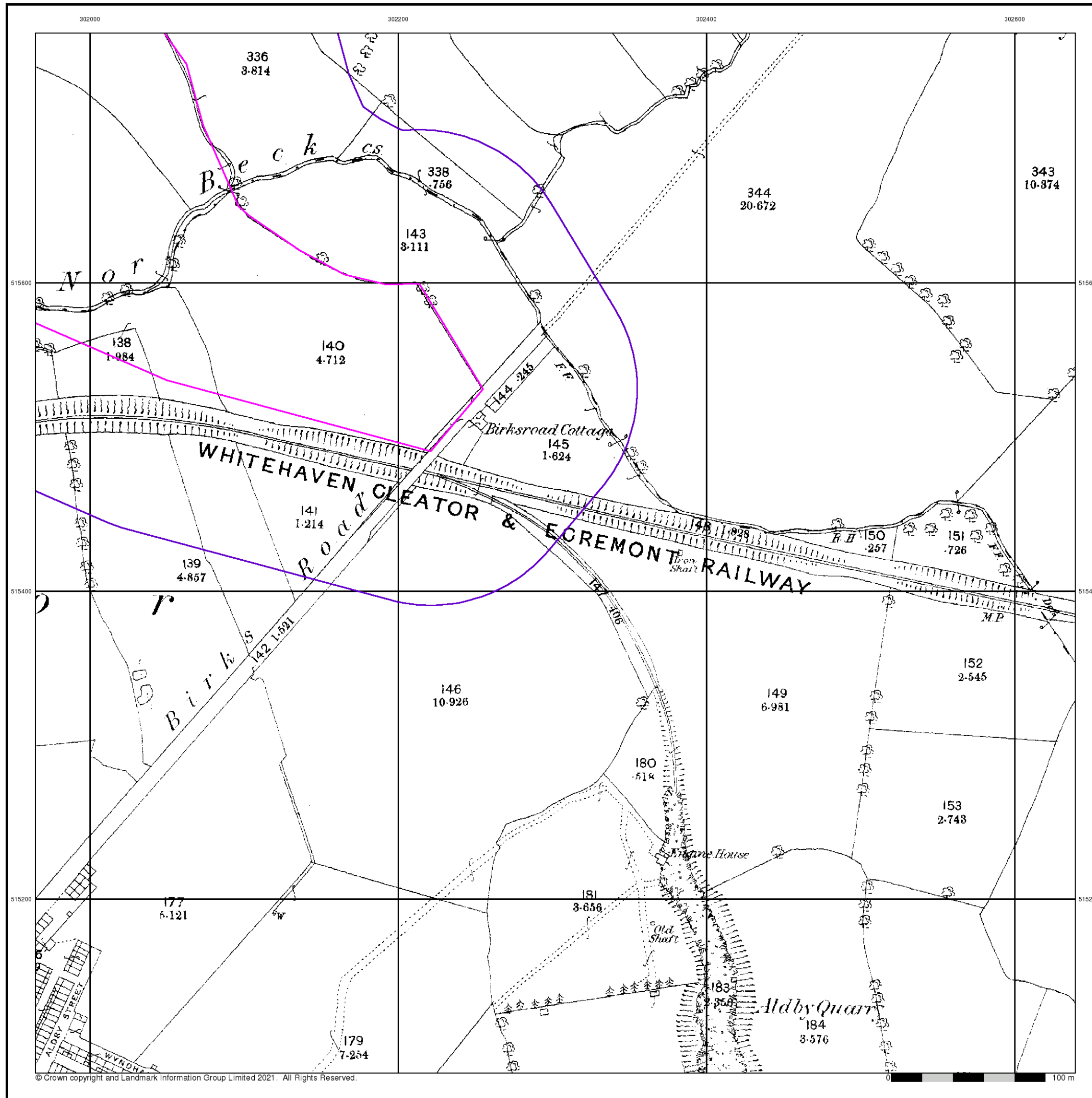
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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Landmark
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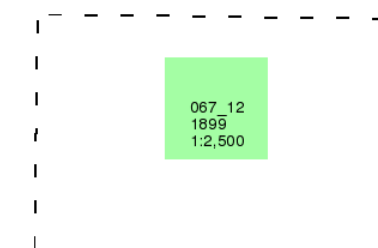
Cumberland

Published 1899

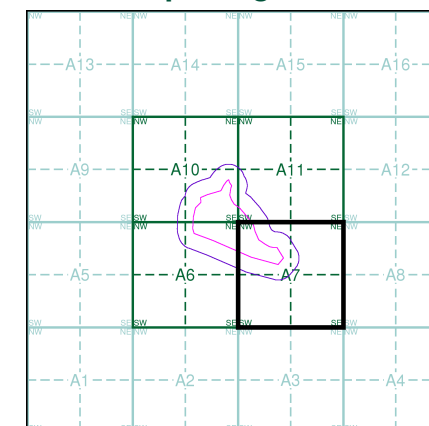
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7

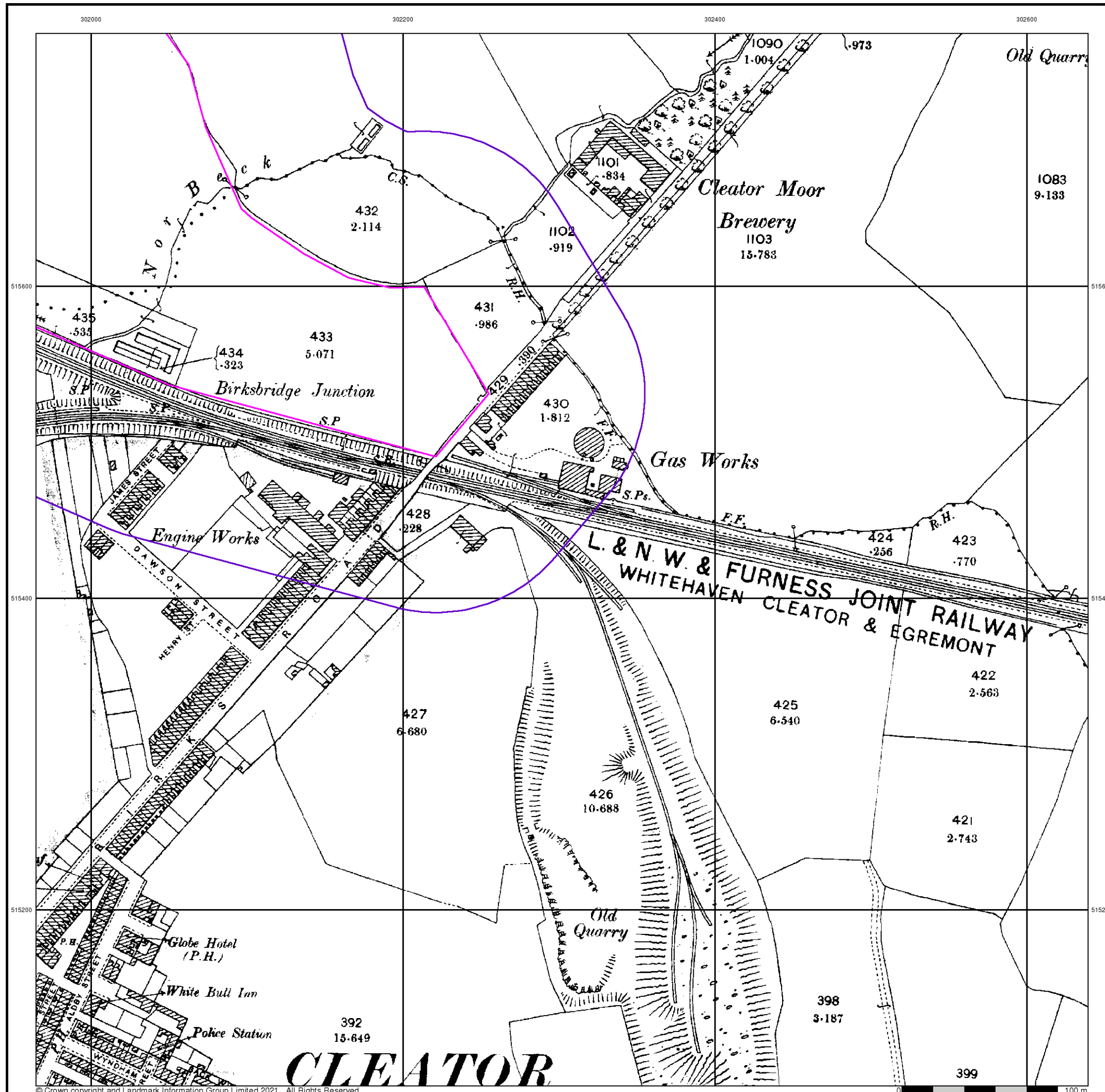


Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW





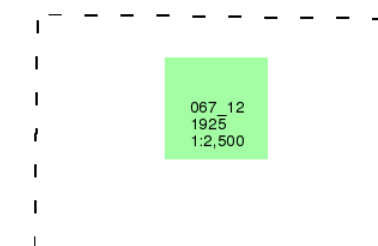
Cumberland

Published 1925

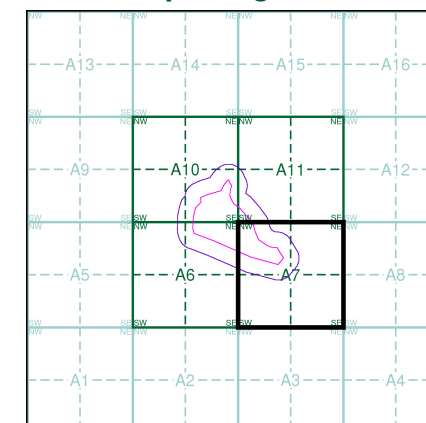
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

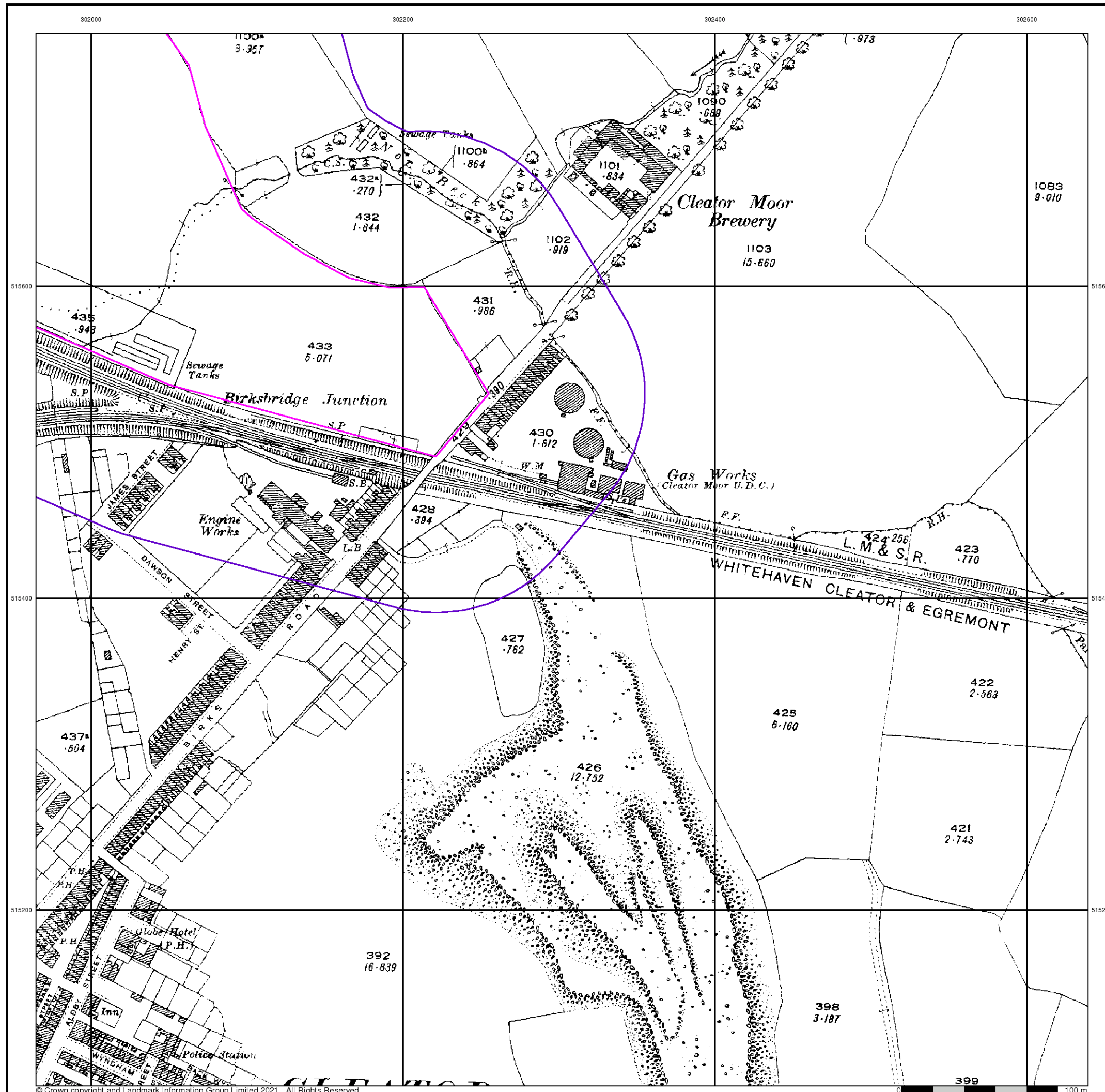
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
INFORMATION GROUP

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





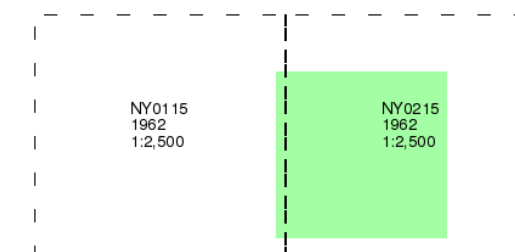
Ordnance Survey Plan

Published 1962

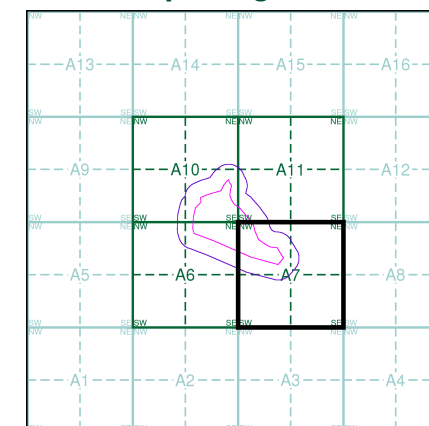
Source map scale - 1:2,500

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)



Historical Map - Segment A7



Order Details

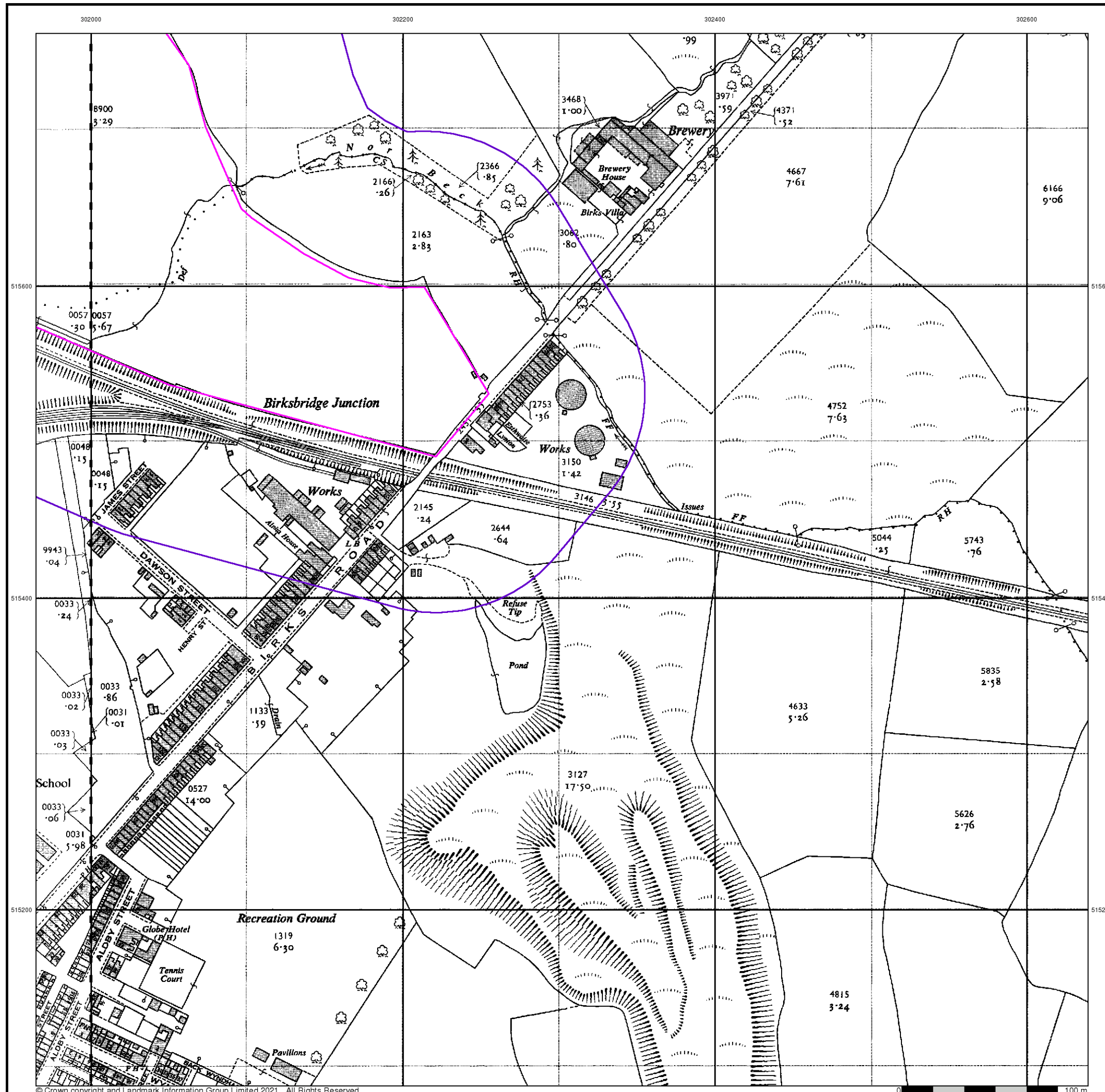
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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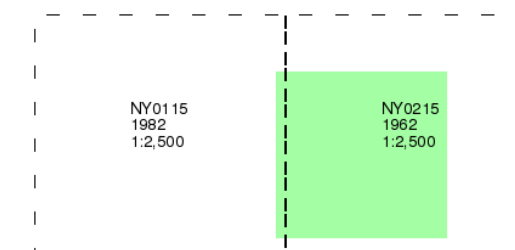
Additional SIMs

Published 1962 - 1982

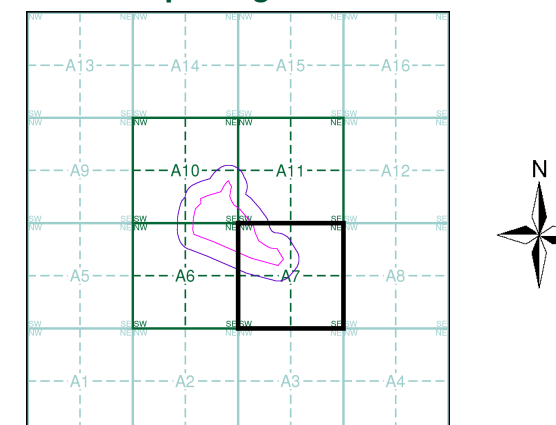
Source map scale - 1:2,500

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 A7



Order Details

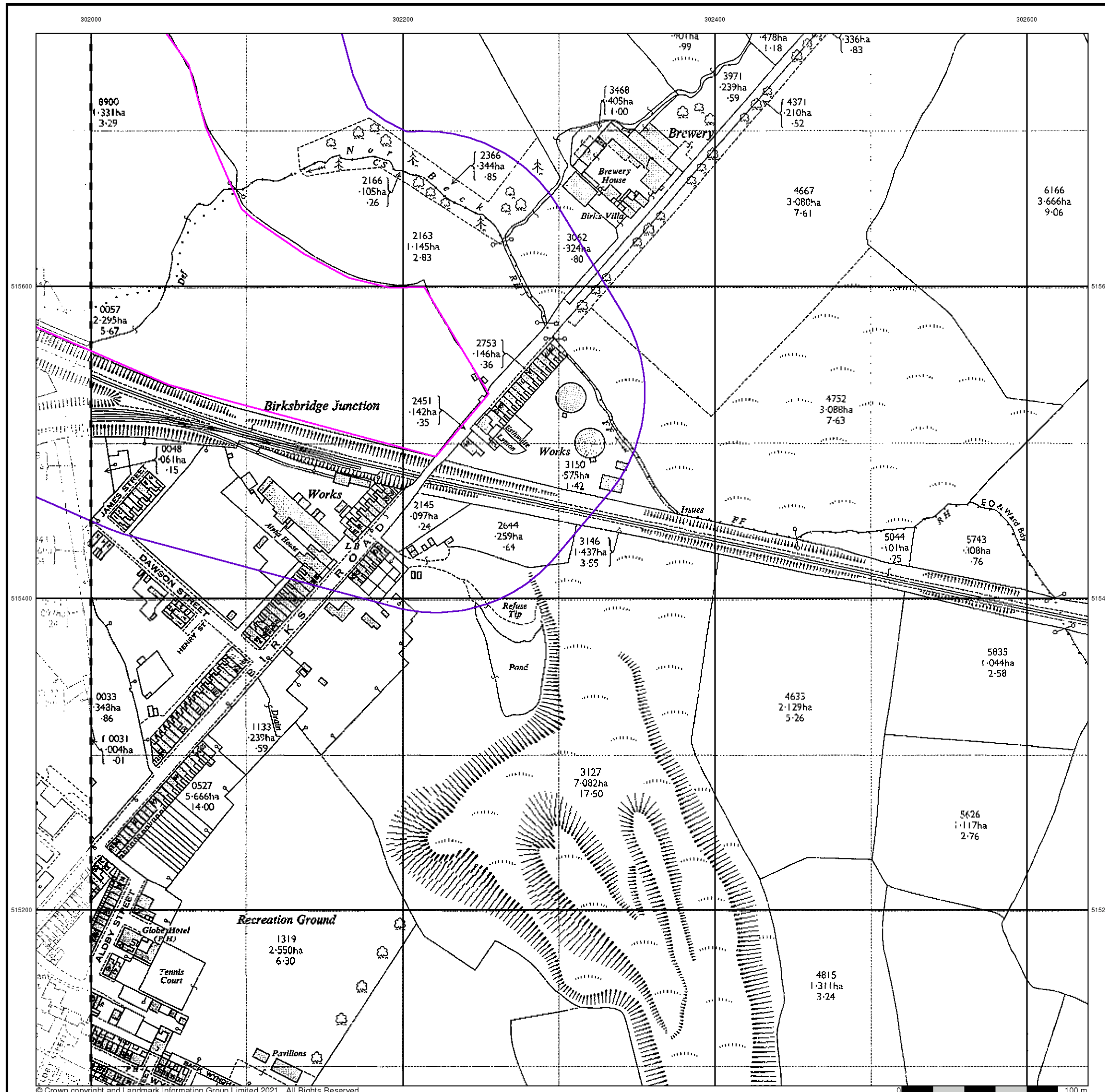
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

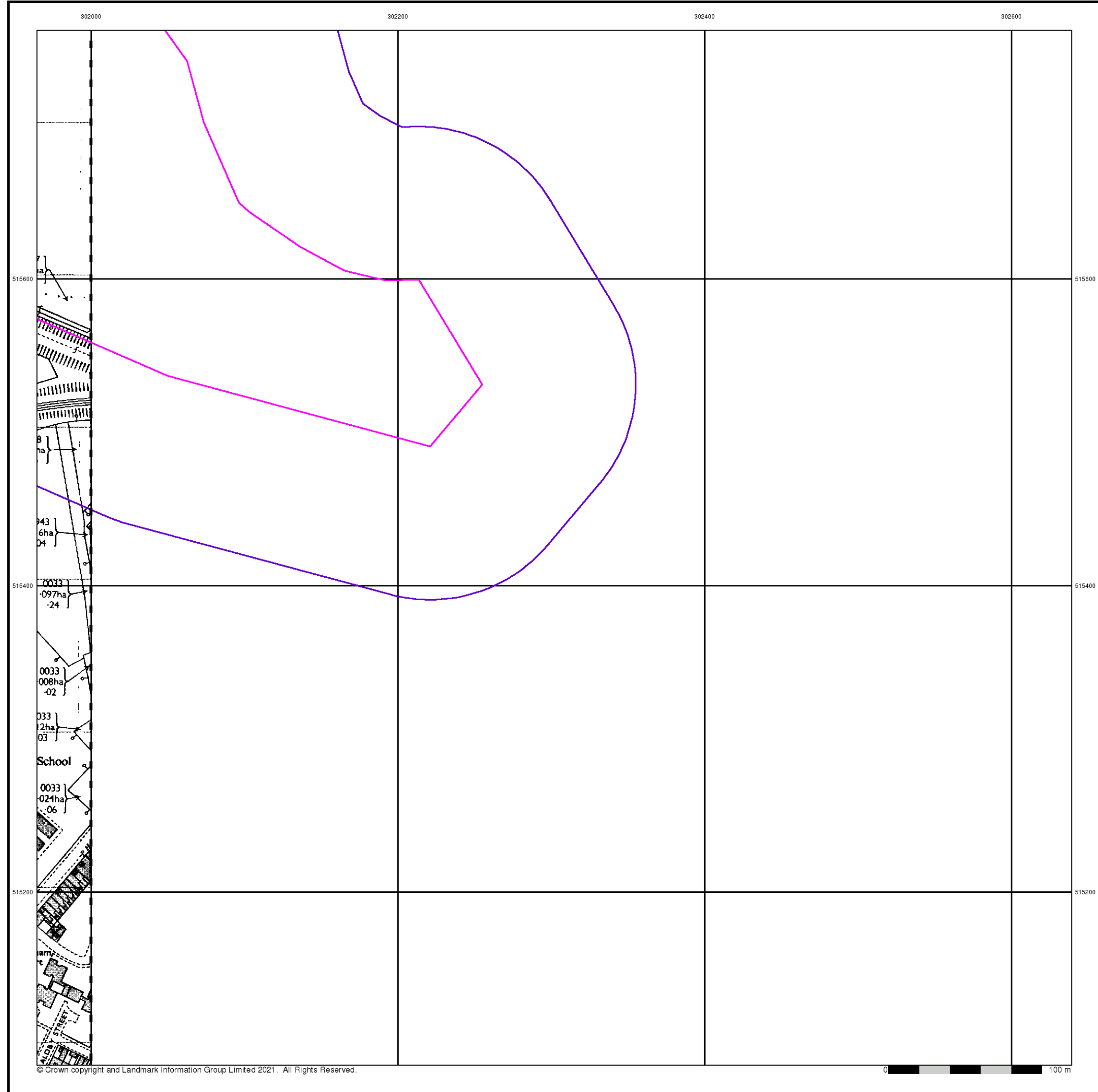
Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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





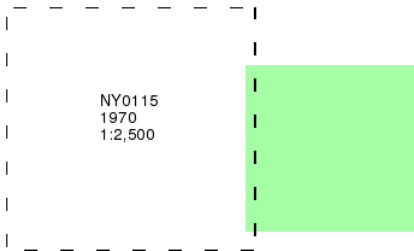
Ordnance Survey Plan

Published 1970

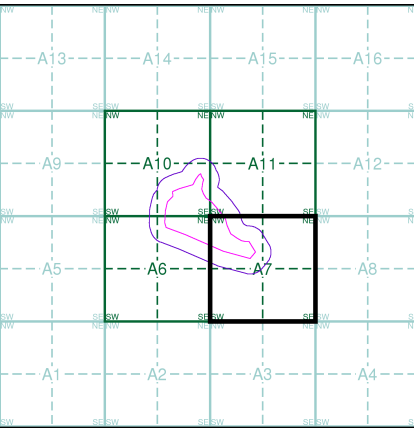
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

Order Number: 283883620_1_1
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National Grid Reference: 301960, 515730
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Site Details

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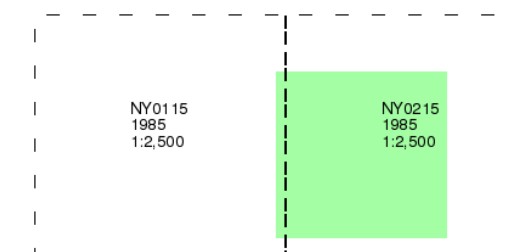
Additional SIMs

Published 1985

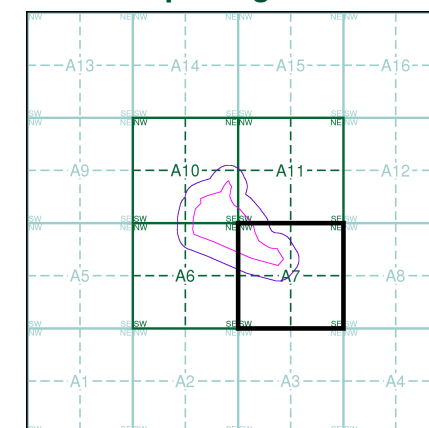
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

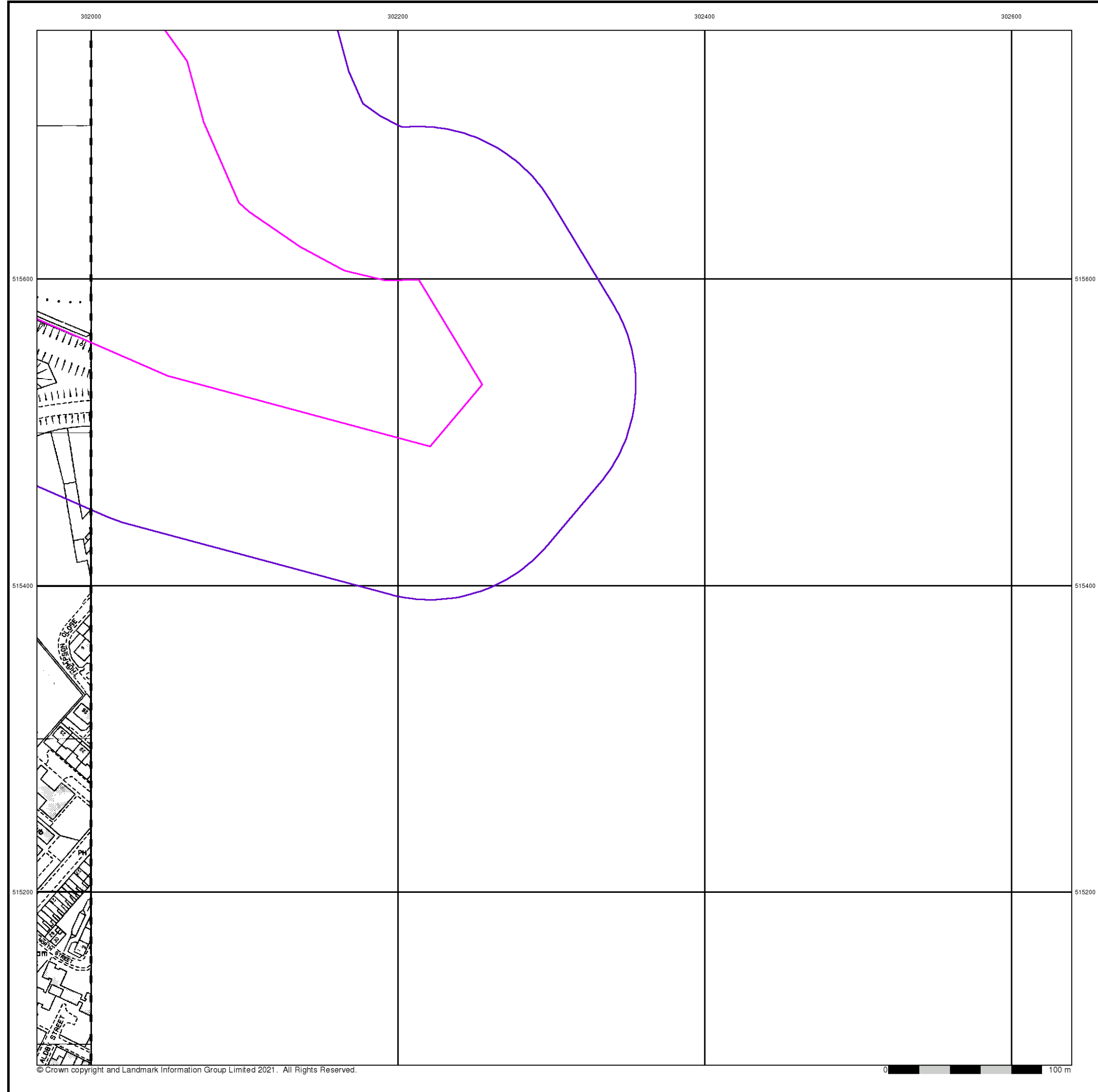
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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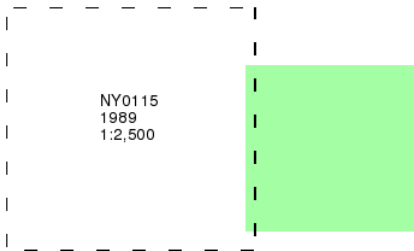
Ordnance Survey Plan

Published 1989

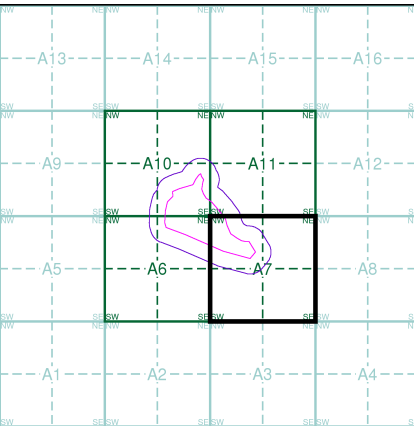
Source map scale - 1:2,500

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 A7



Order Details

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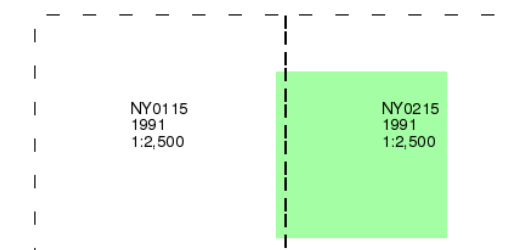
Additional SIMs

Published 1991

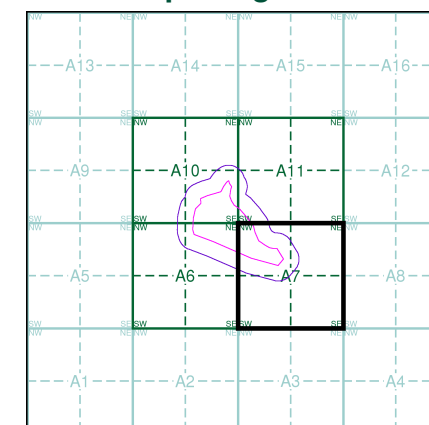
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

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National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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Landmark
INFORMATION GROUP

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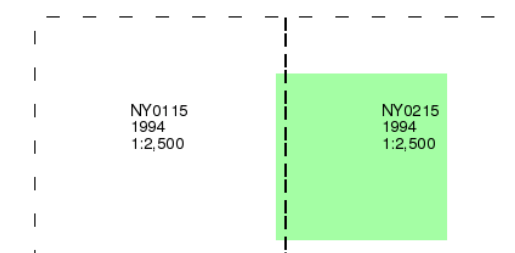
Large-Scale National Grid Data

Published 1994

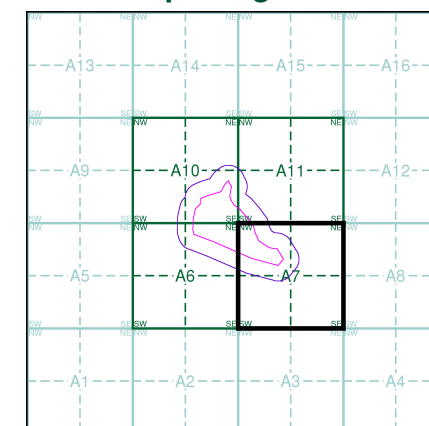
Source map scale - 1:2,500

'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 A7



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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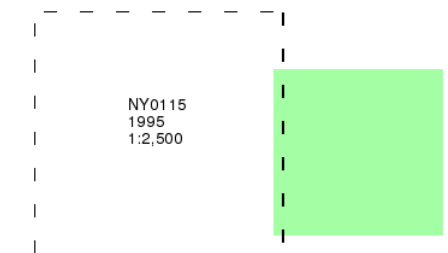
Large-Scale National Grid Data

Published 1995

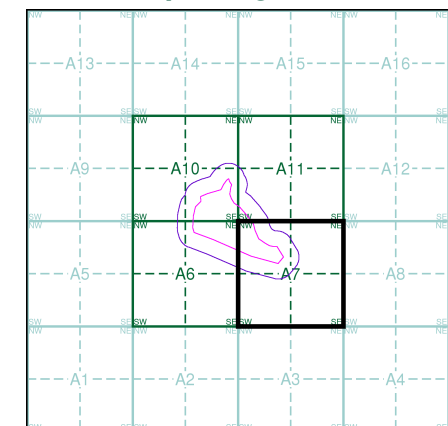
Source map scale - 1:2,500

'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 A7



Order Details

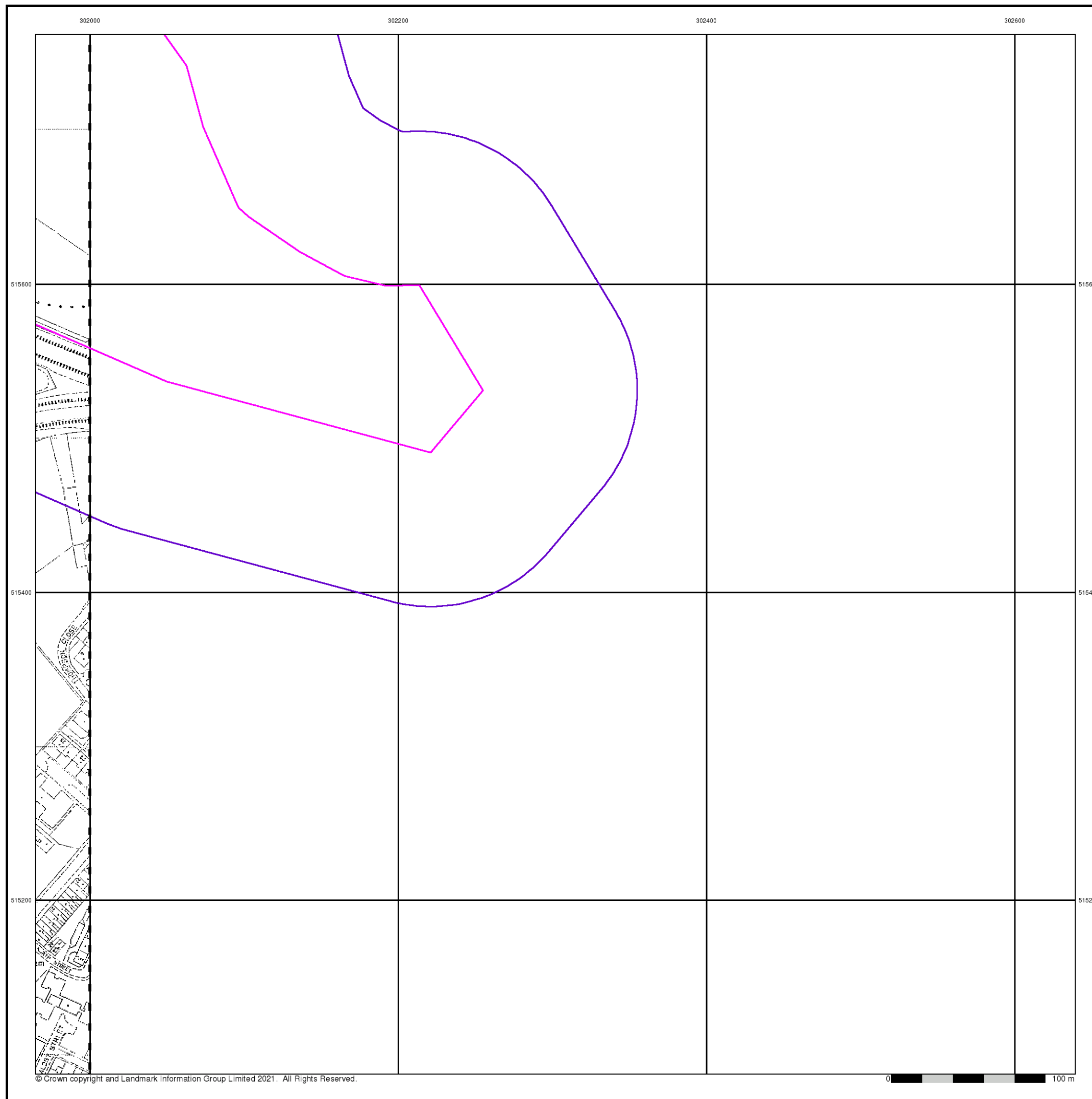
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
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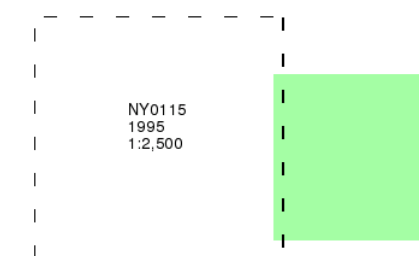
Large-Scale National Grid Data

Published 1995

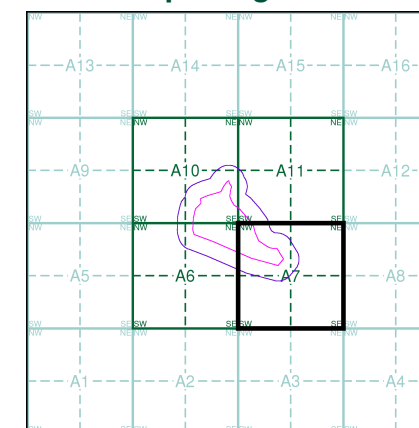
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

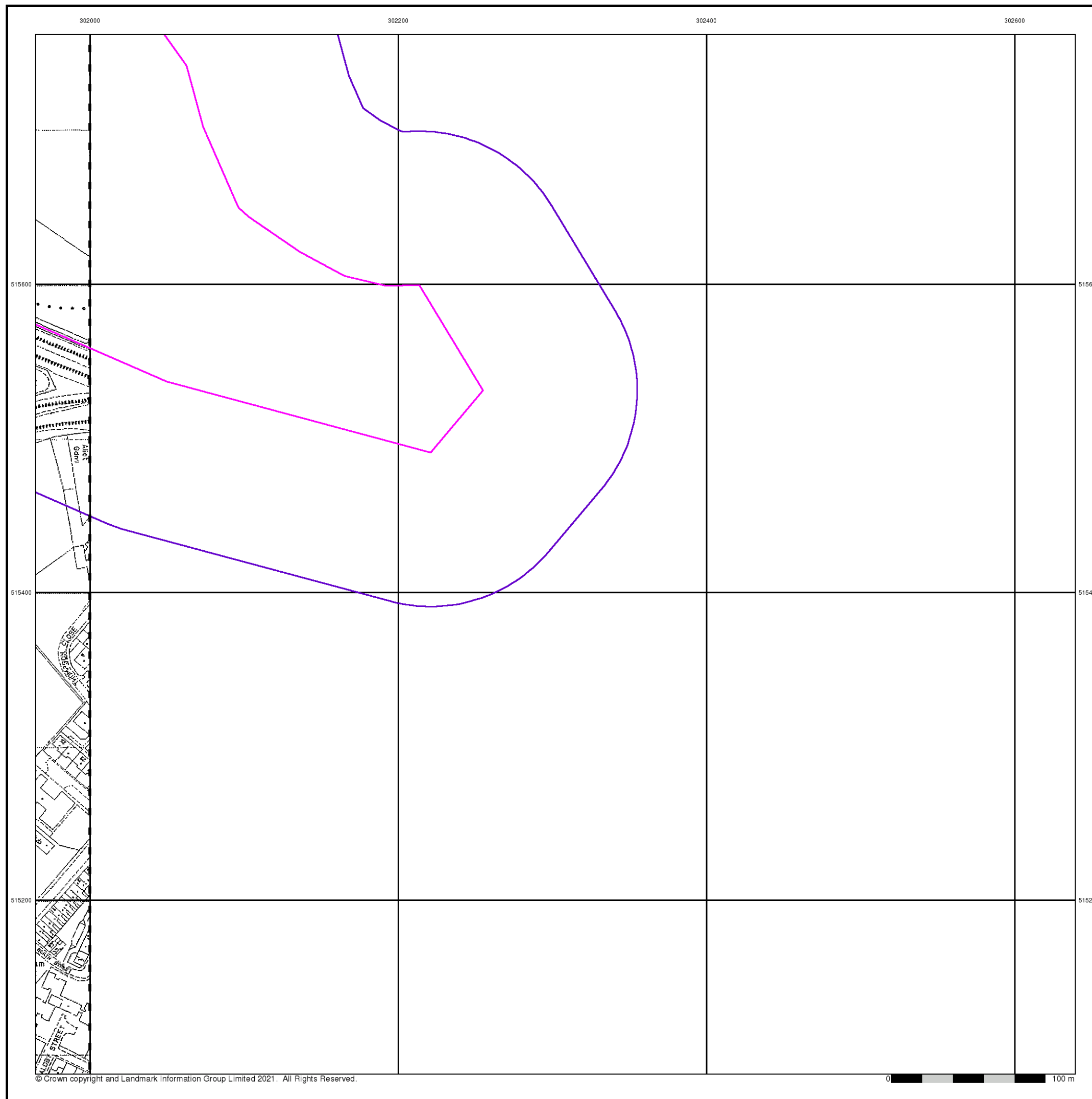
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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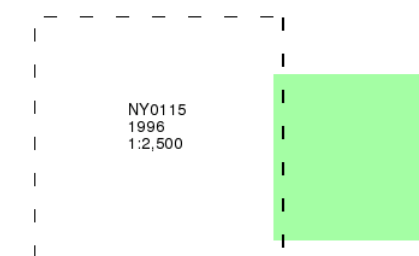
Large-Scale National Grid Data

Published 1996

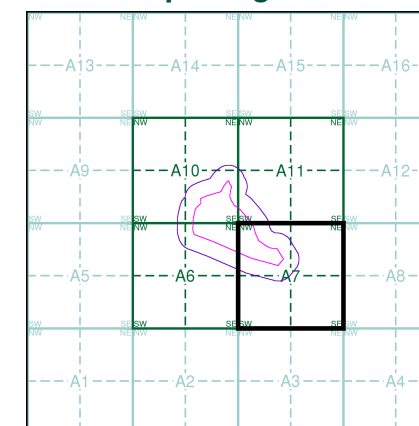
Source map scale - 1:2,500

'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 A7



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

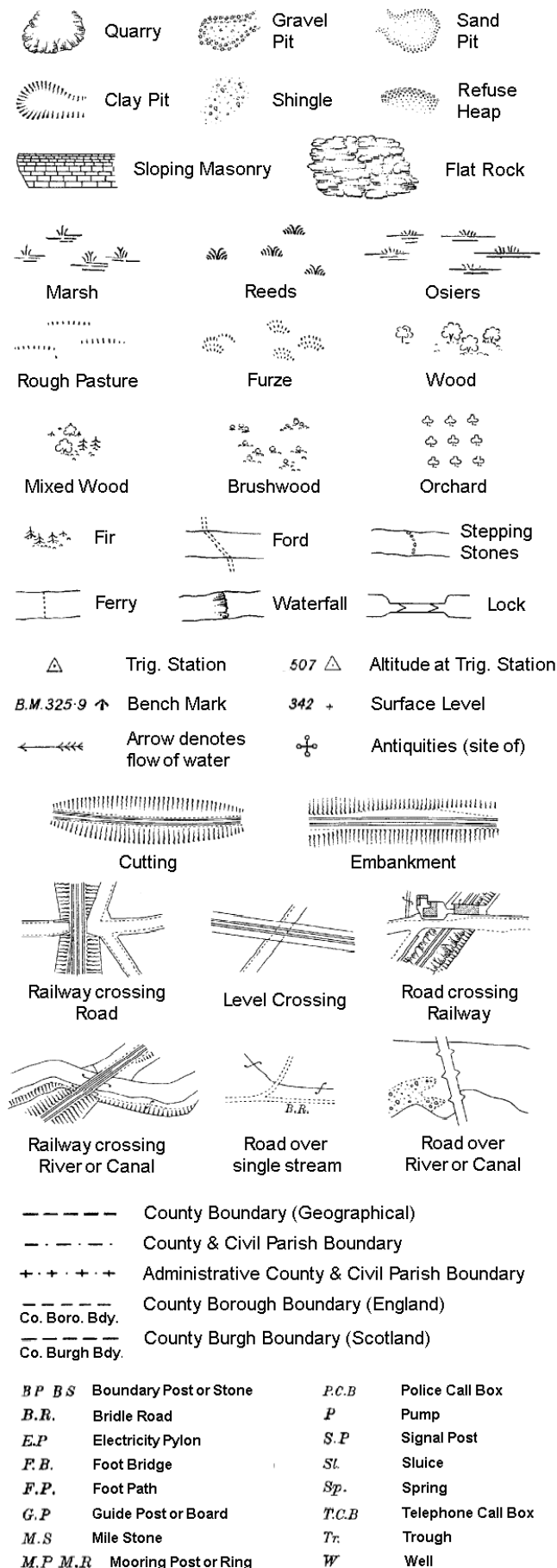
Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



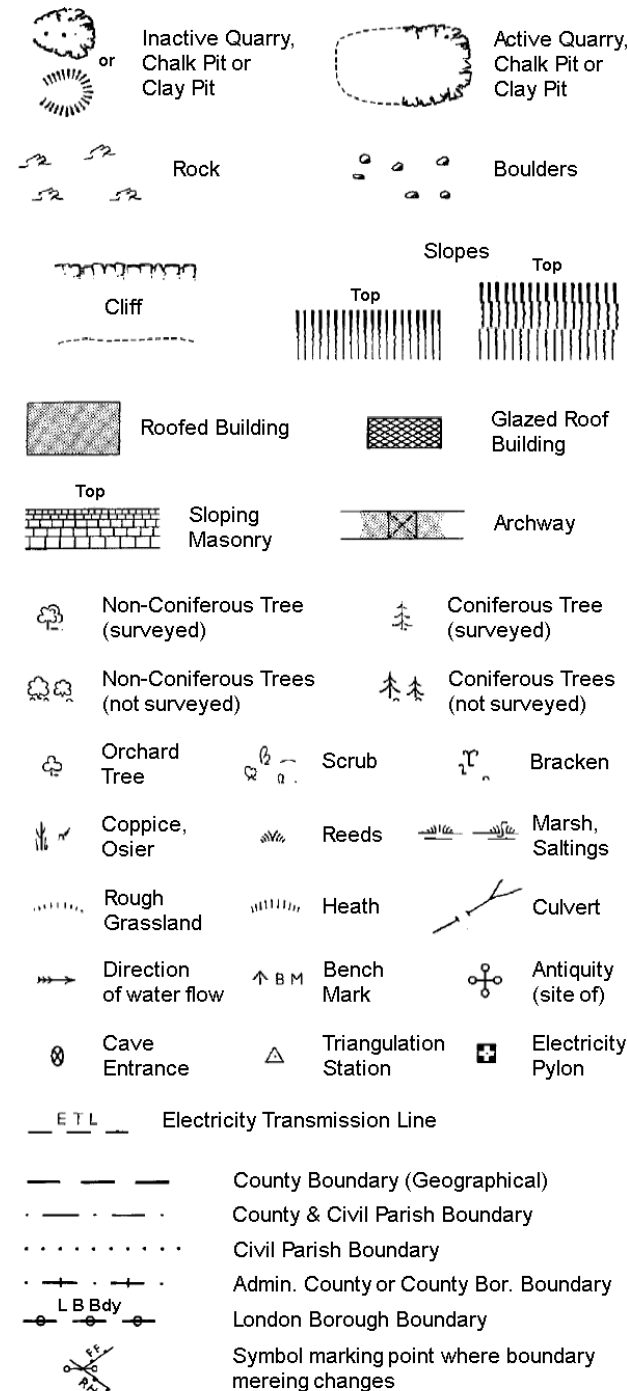
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

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

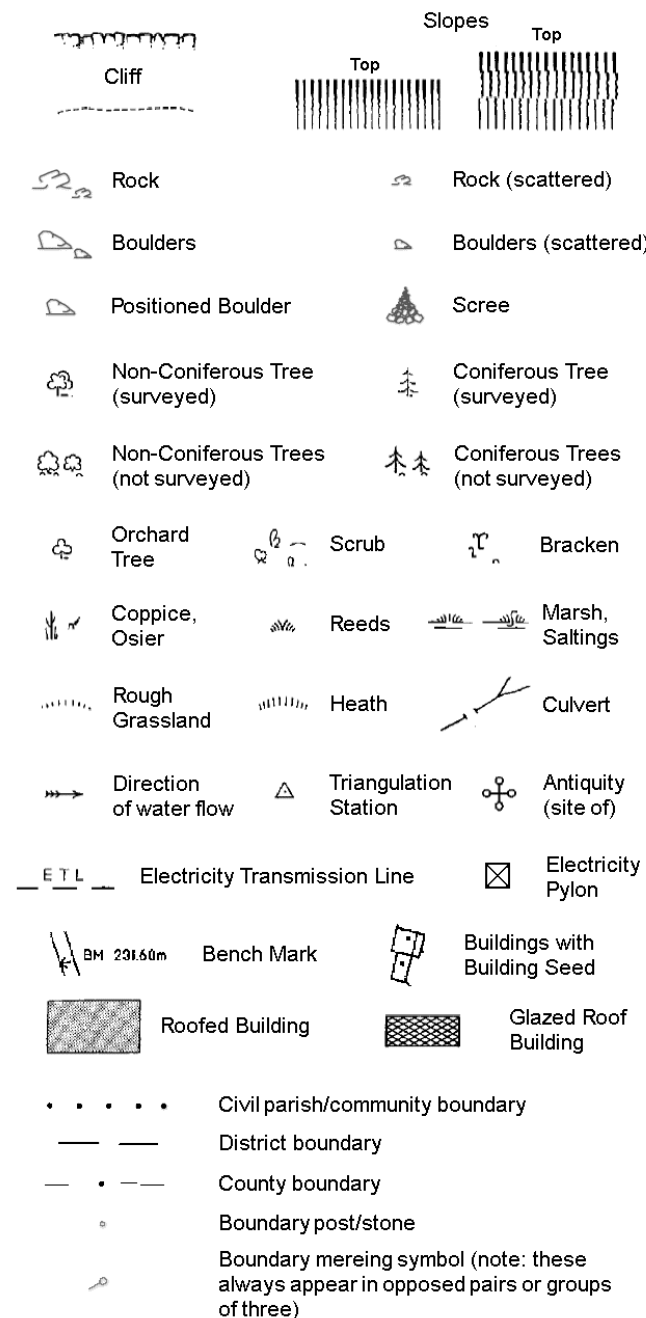


Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



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

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



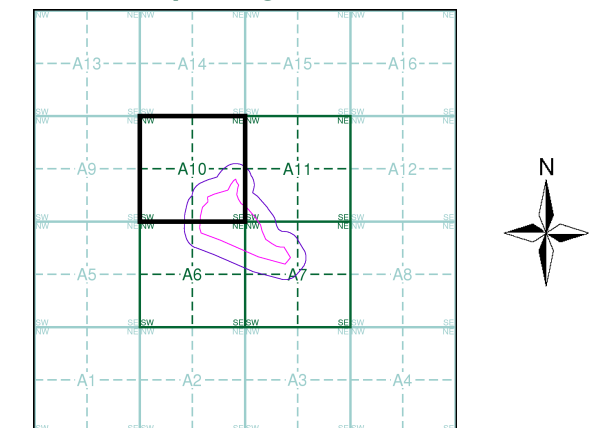
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
EI P	Electricity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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863 - 1874	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	1970	6
Additional SIMs	1:2,500	1982 - 1991	7
Additional SIMs	1:2,500	1985	8
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14

Historical Map - Segment A10



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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Cumberland

Published 1863 - 1874

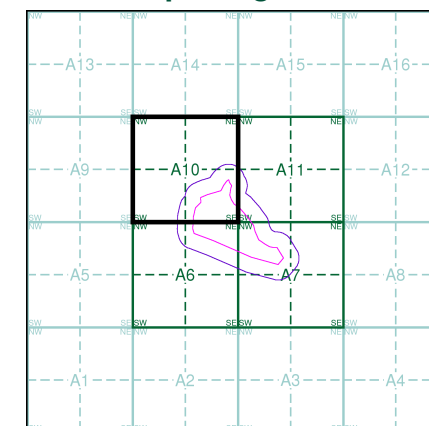
Source map scale - 1:2,500

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Map Name(s) and Date(s)

067_08
1874
1:2,500
067_12
1863
1:2,500

Historical Map - Segment A10



Order Details

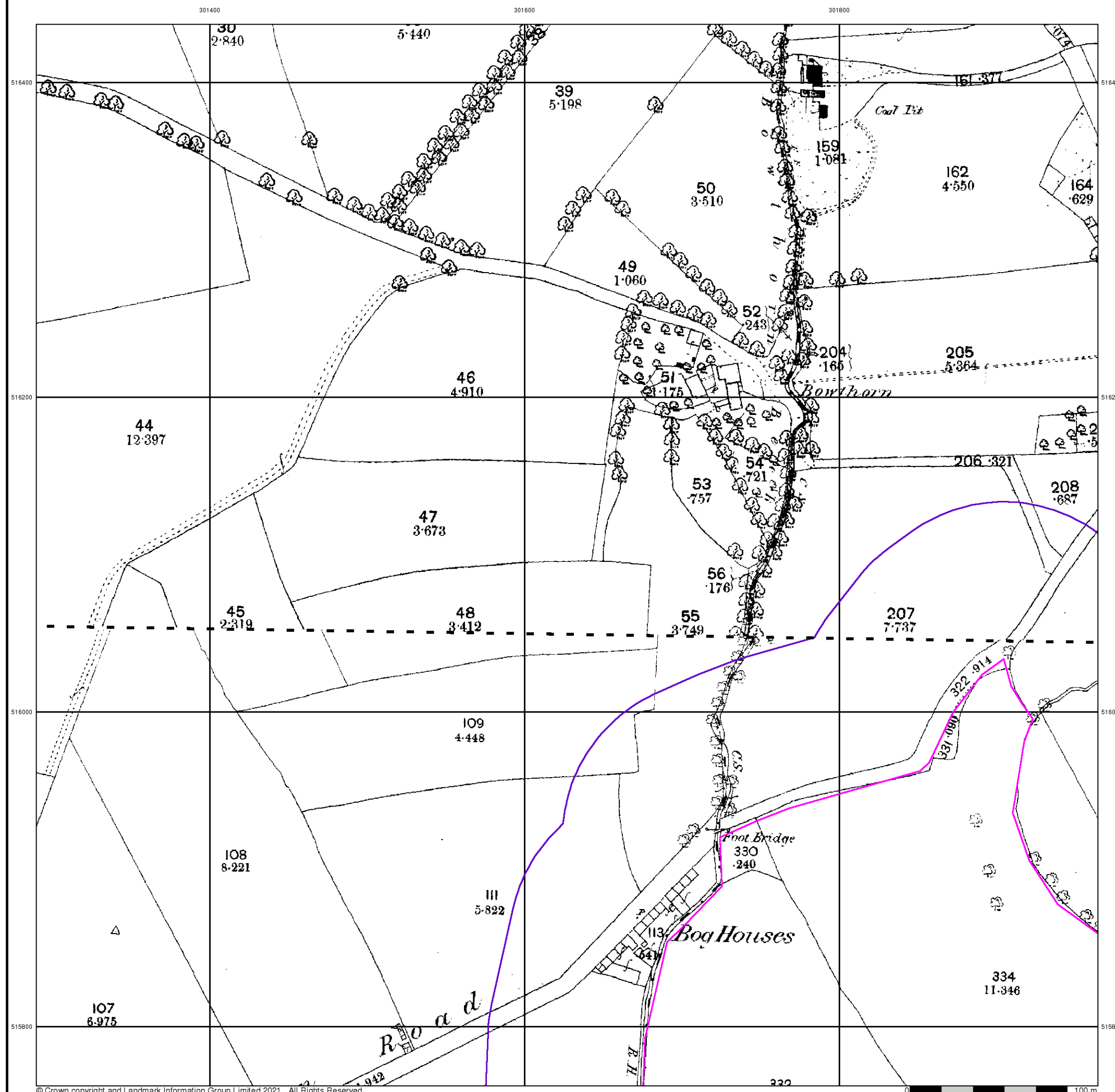
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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Cumberland

Published 1899

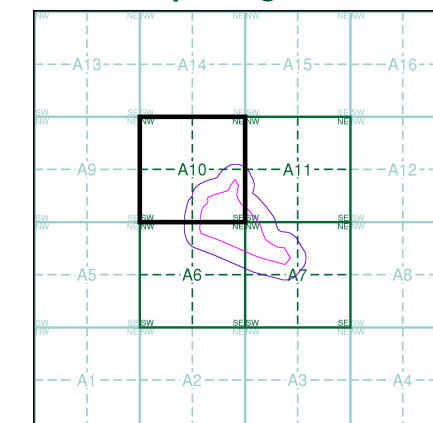
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)

067_08	1899	1:2,500
067_12	1899	1:2,500

Historical Map - Segment A10

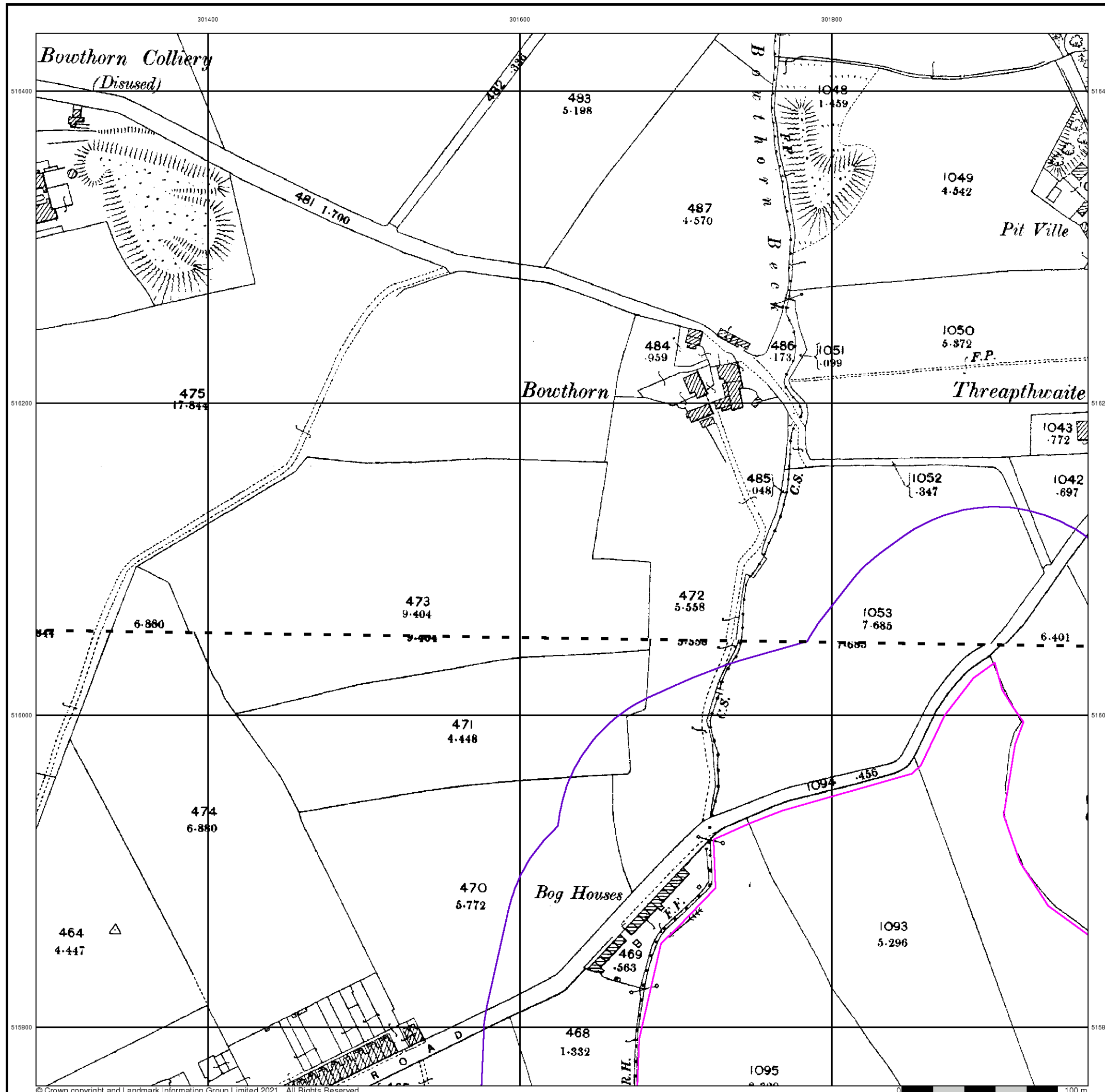


Order Details

Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW





Cumberland

Published 1925

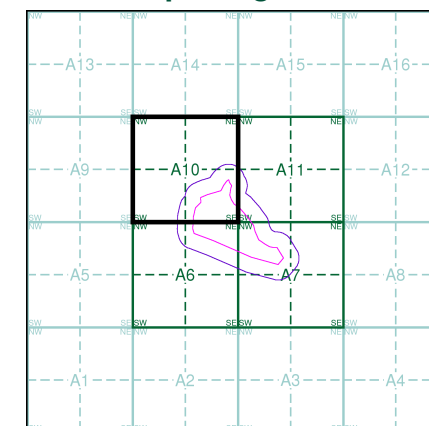
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)

067_08
1925
1:2,500
067_12
1925
1:2,500

Historical Map - Segment A10



Order Details

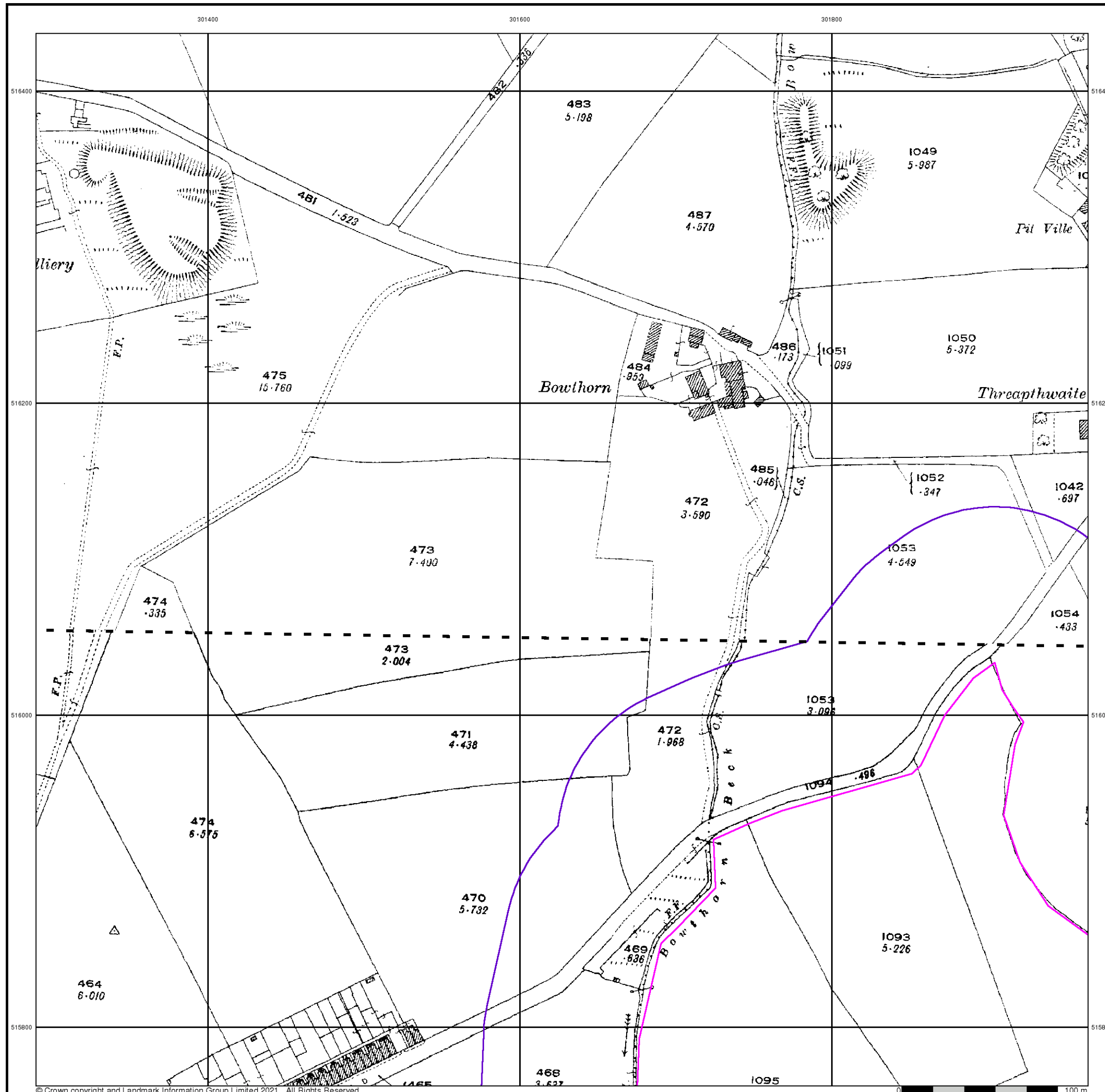
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
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Landmark
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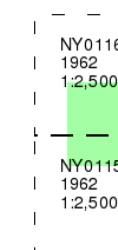
Ordnance Survey Plan

Published 1962

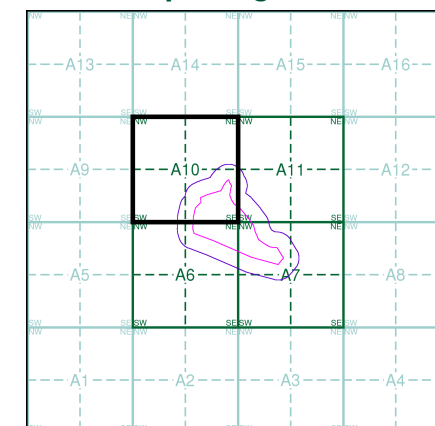
Source map scale - 1:2,500

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)



Historical Map - Segment A10





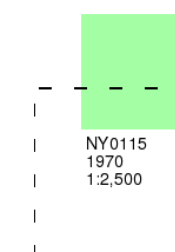
Ordnance Survey Plan

Published 1970

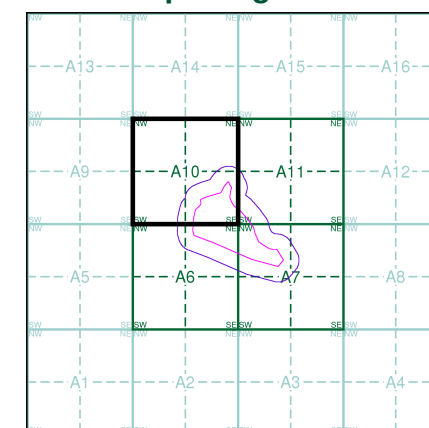
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

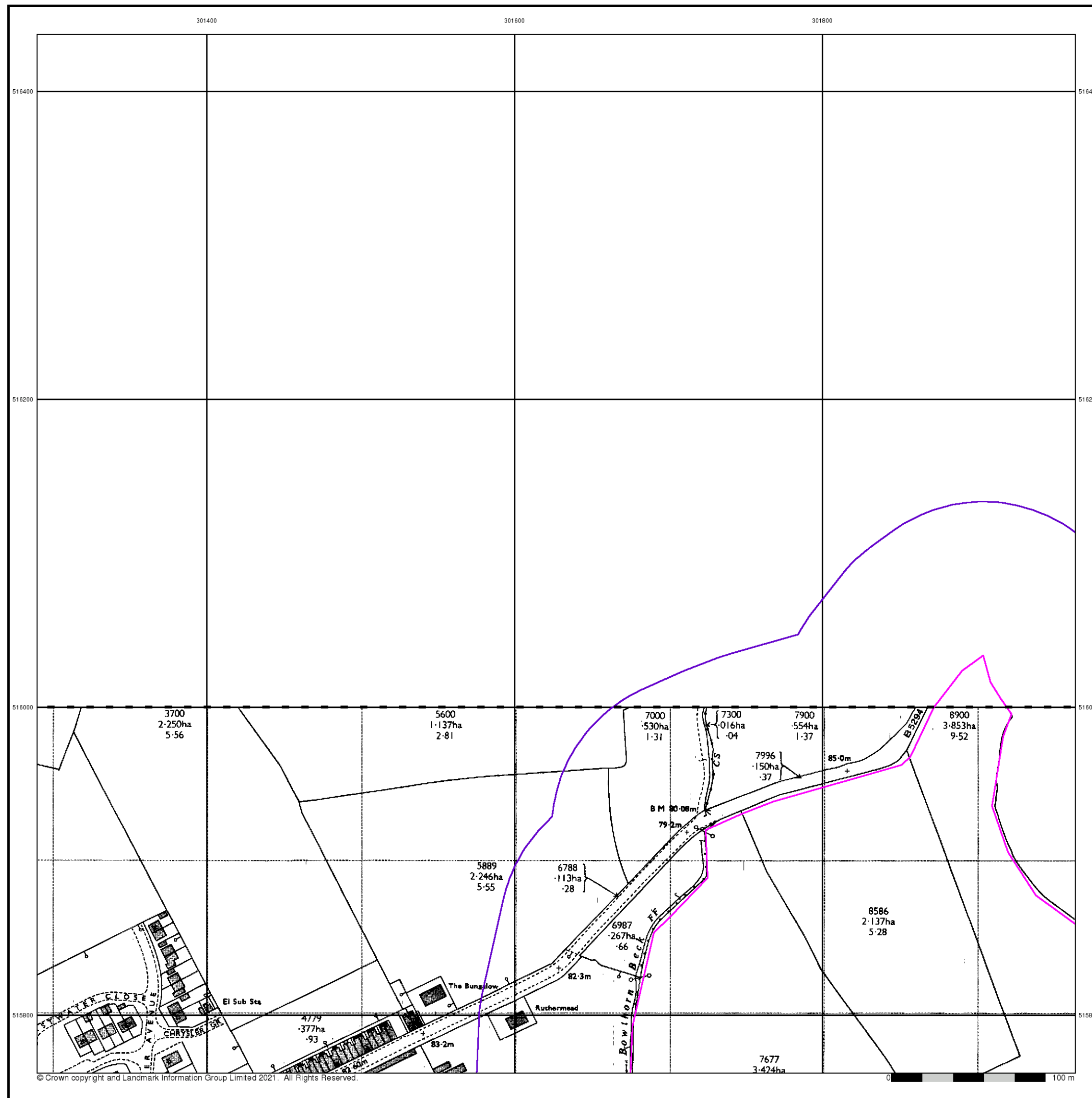
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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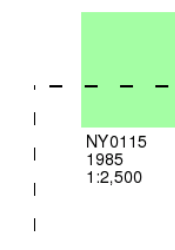
Additional SIMs

Published 1985

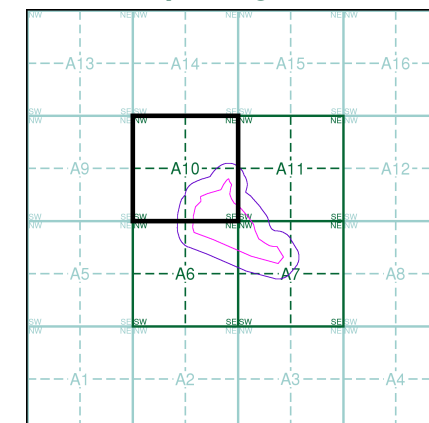
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

Order Number: 283883620_1_1
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Slice: A
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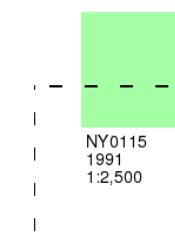
Additional SIMs

Published 1991

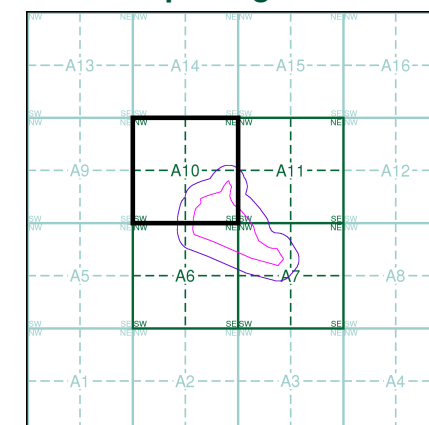
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

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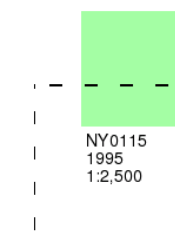
Large-Scale National Grid Data

Published 1995

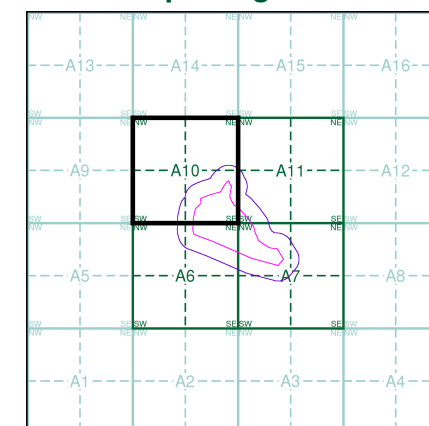
Source map scale - 1:2,500

'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 A10



Order Details

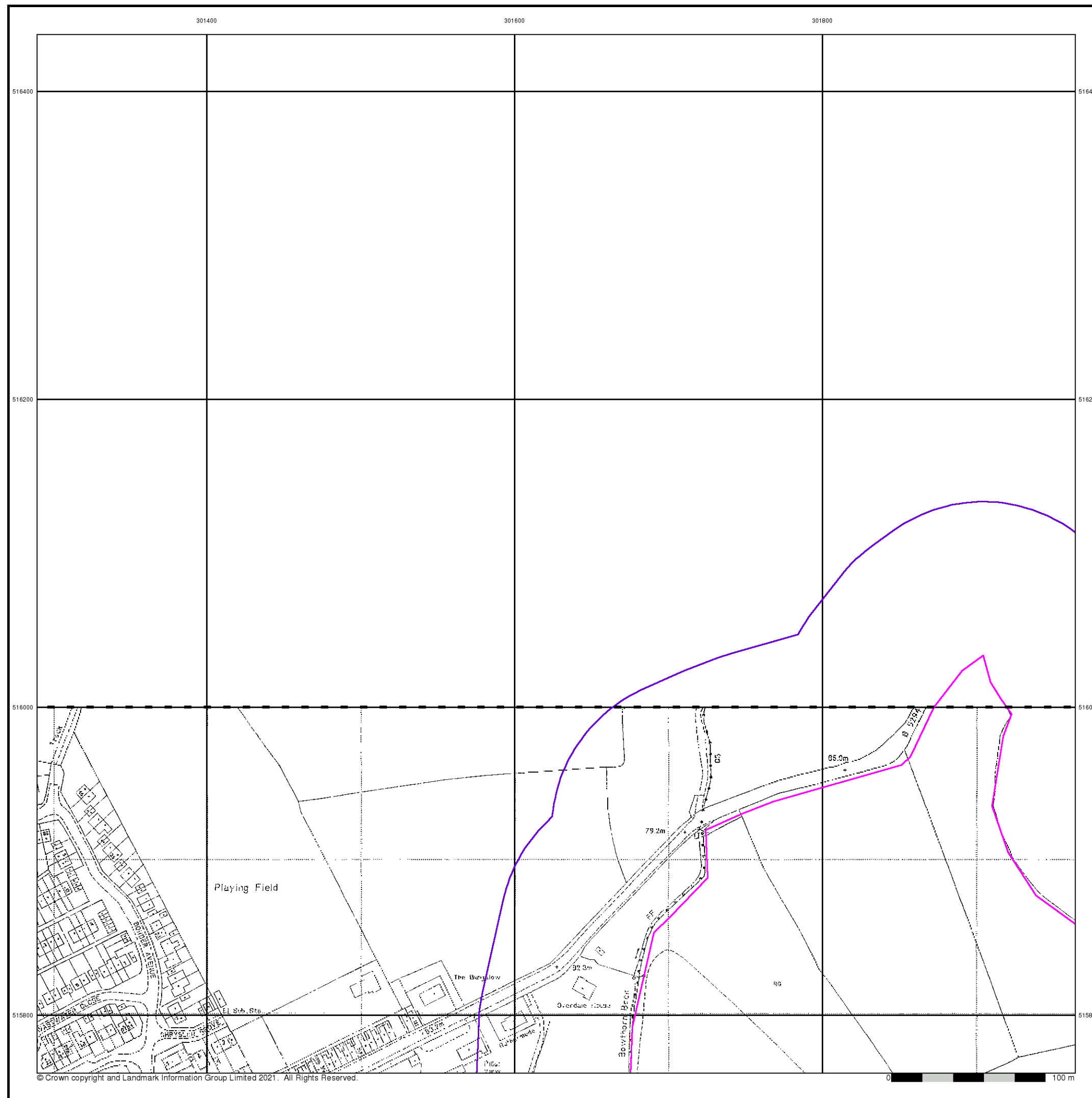
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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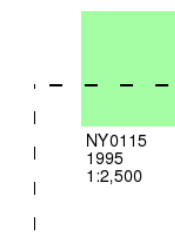
Large-Scale National Grid Data

Published 1995

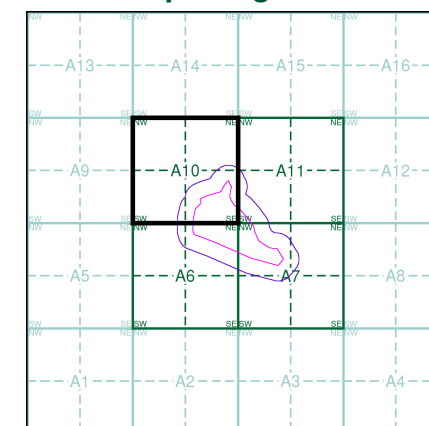
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A10



Order Details

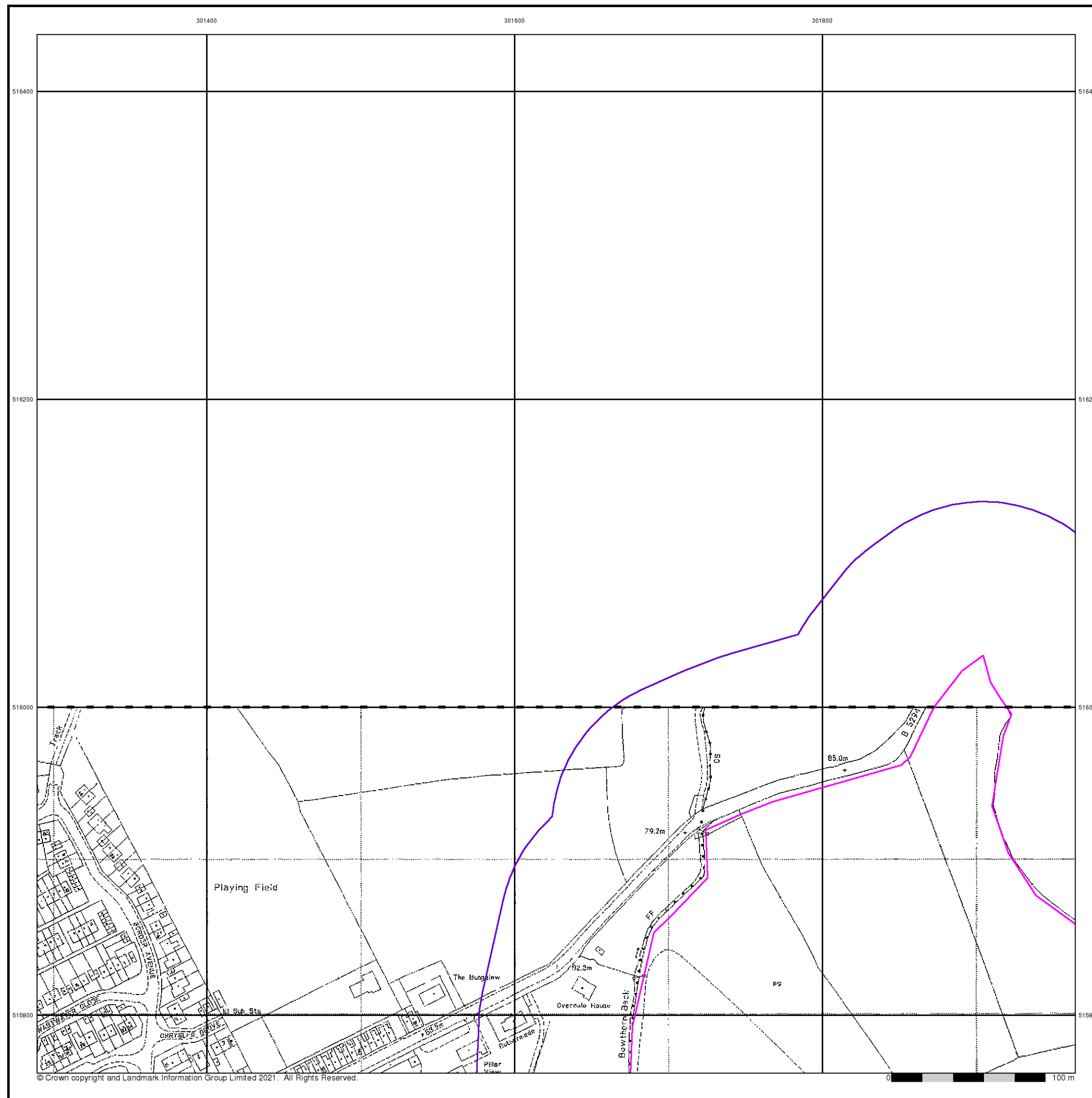
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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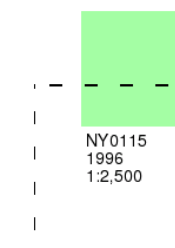
Large-Scale National Grid Data

Published 1996

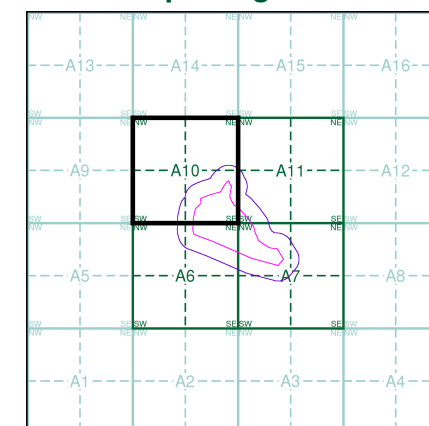
Source map scale - 1:2,500

'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 A10



Order Details

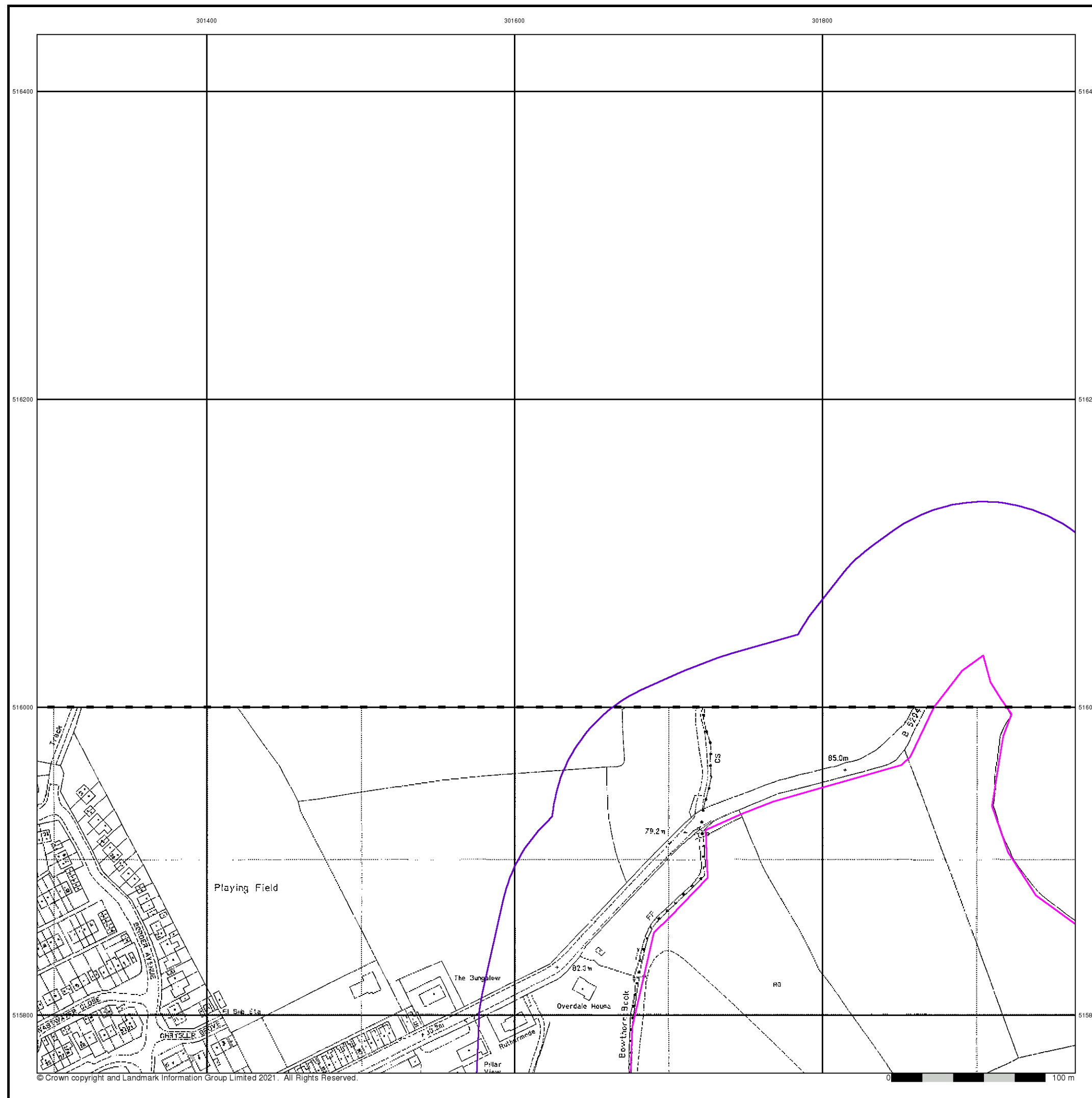
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
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Site Area (Ha): 13.1
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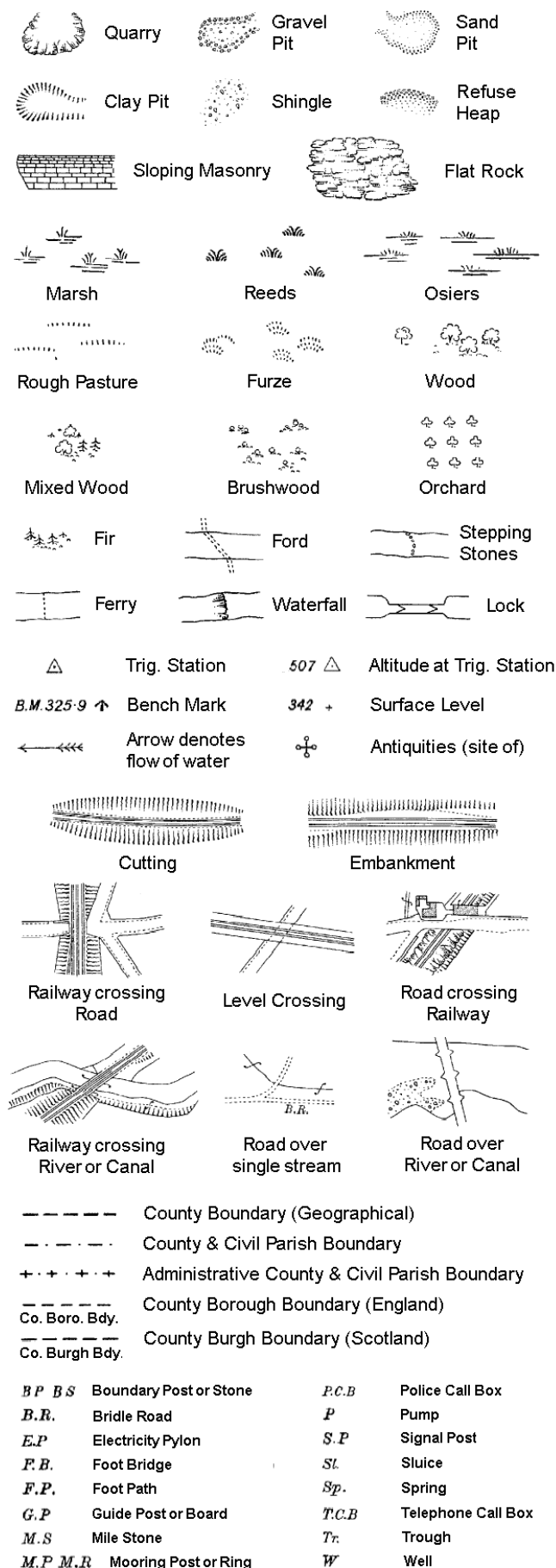


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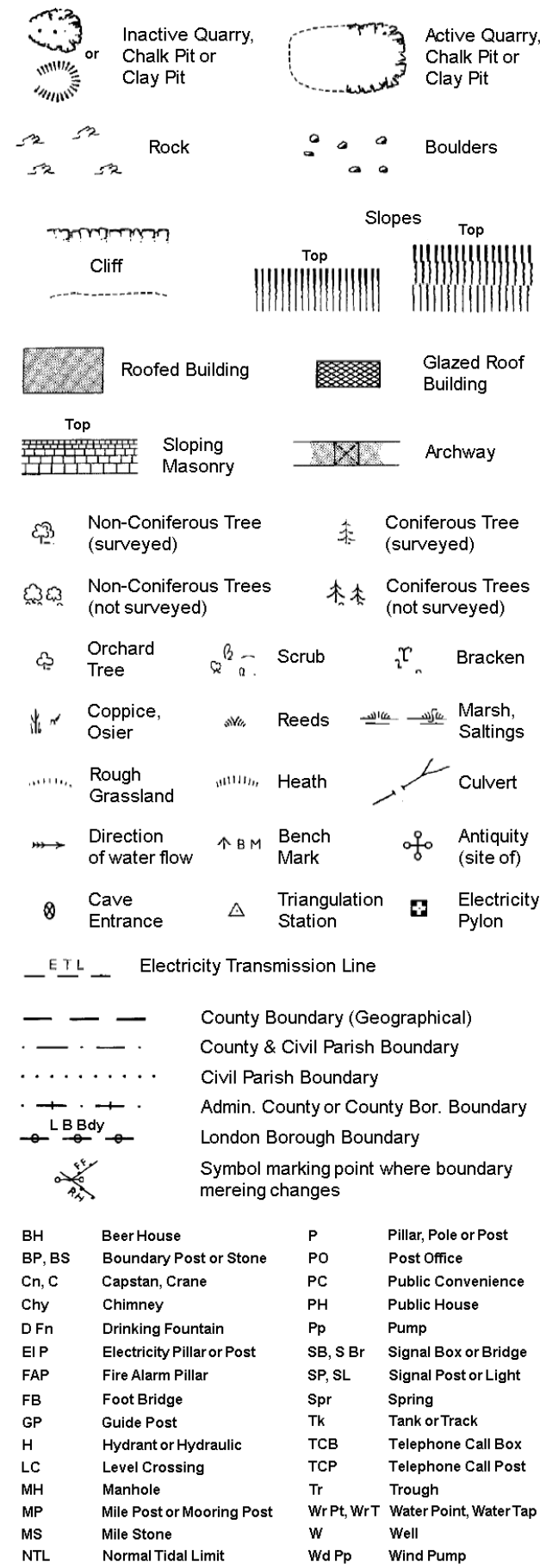


Historical Mapping Legends

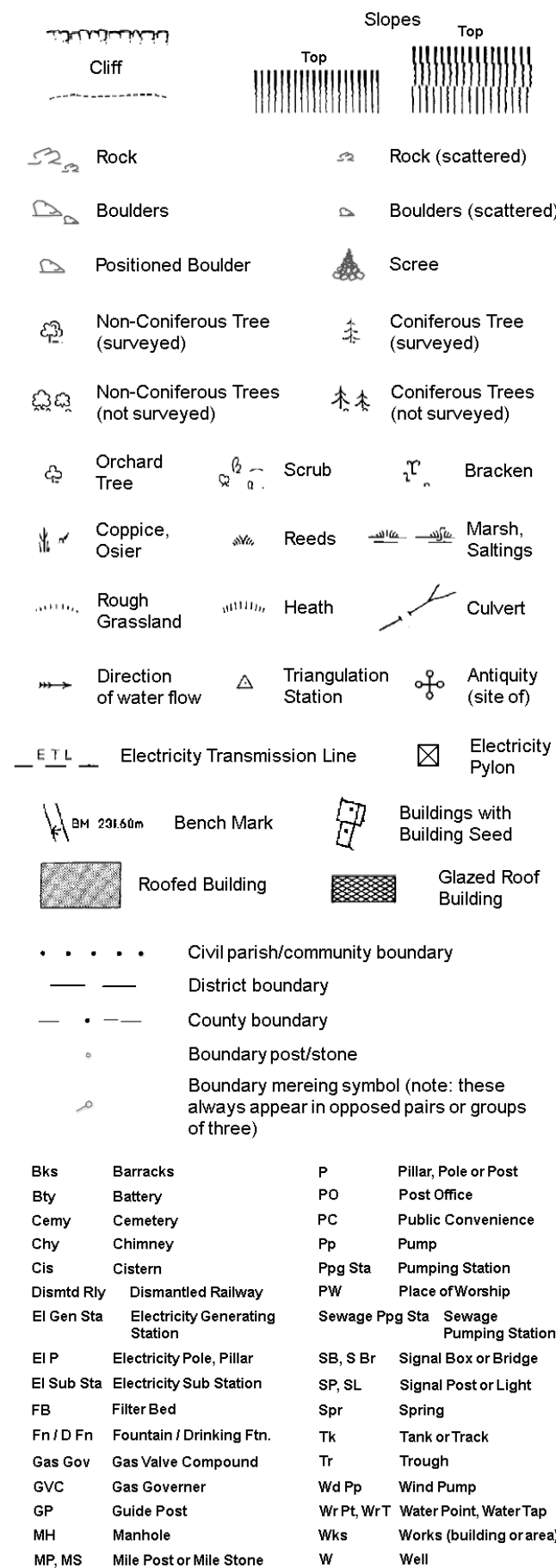
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



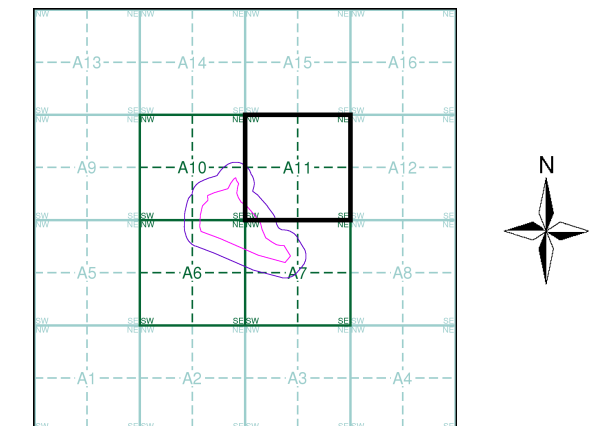
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1863 - 1874	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Ordnance Survey Plan	1:2,500	1962	5
Additional SIMs	1:2,500	1962 - 1991	6
Ordnance Survey Plan	1:2,500	1970	7
Additional SIMs	1:2,500	1985 - 1991	8
Ordnance Survey Plan	1:2,500	1989	9
Additional SIMs	1:2,500	1991	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1995	13
Large-Scale National Grid Data	1:2,500	1996	14
Large-Scale National Grid Data	1:2,500	1996	15

Historical Map - Segment A11



Order Details

Order Number: 283883620_1_1
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Cumberland

Published 1863 - 1874

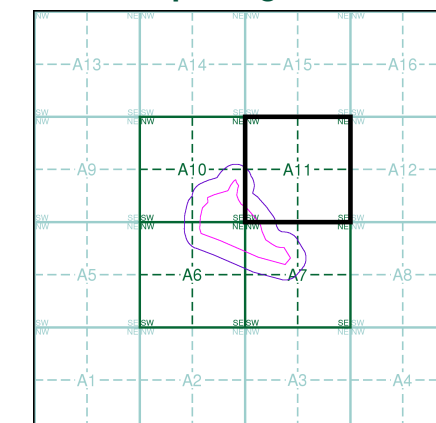
Source map scale - 1:2,500

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)

067_08
1874
1:2,500
067_12
1863
1:2,500

Historical Map - Segment A11



Order Details

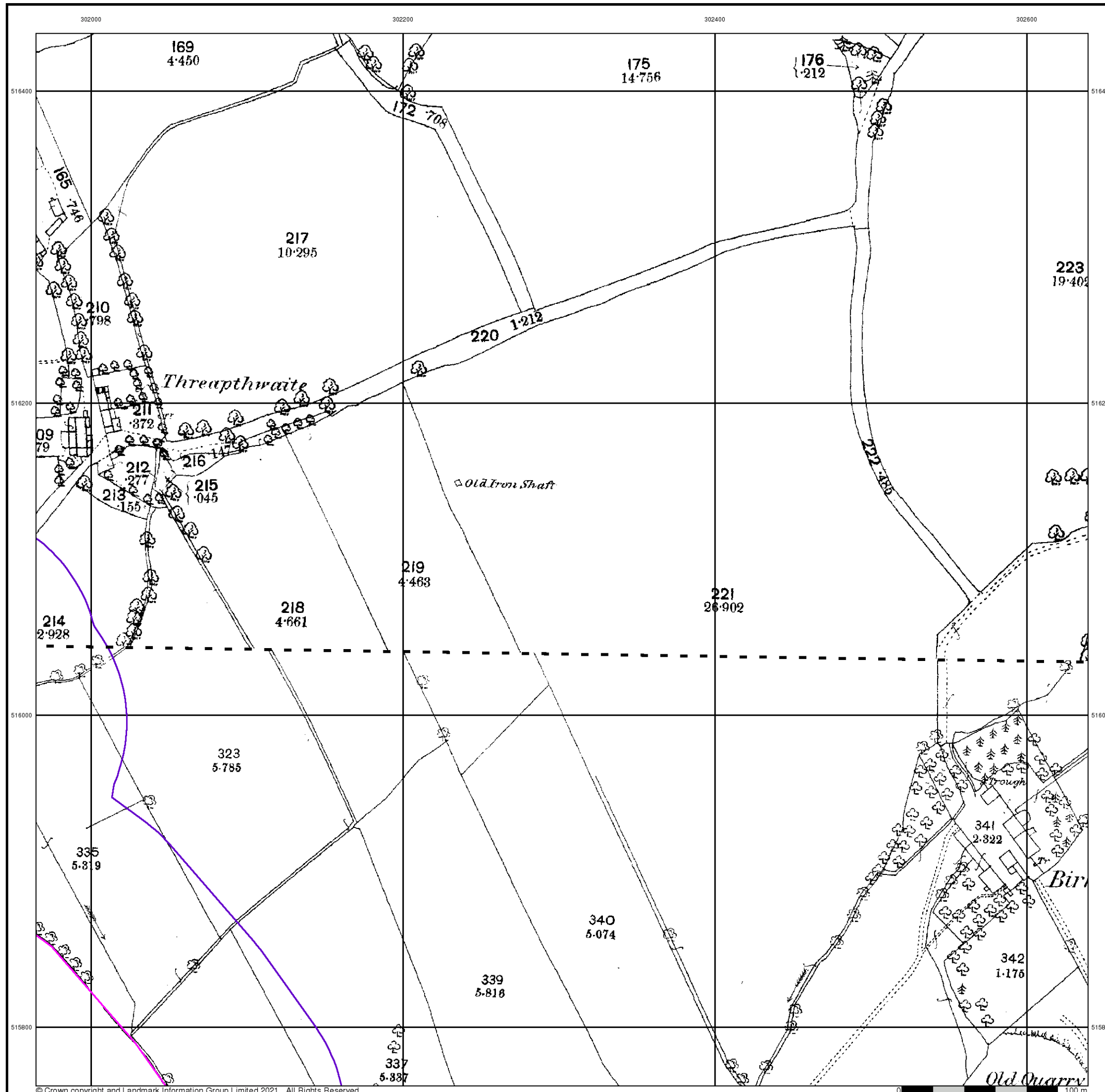
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
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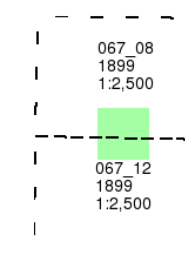
Cumberland

Published 1899

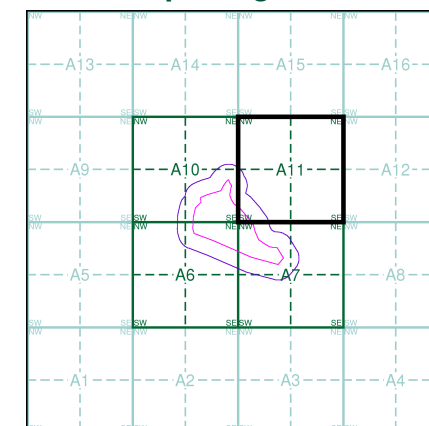
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

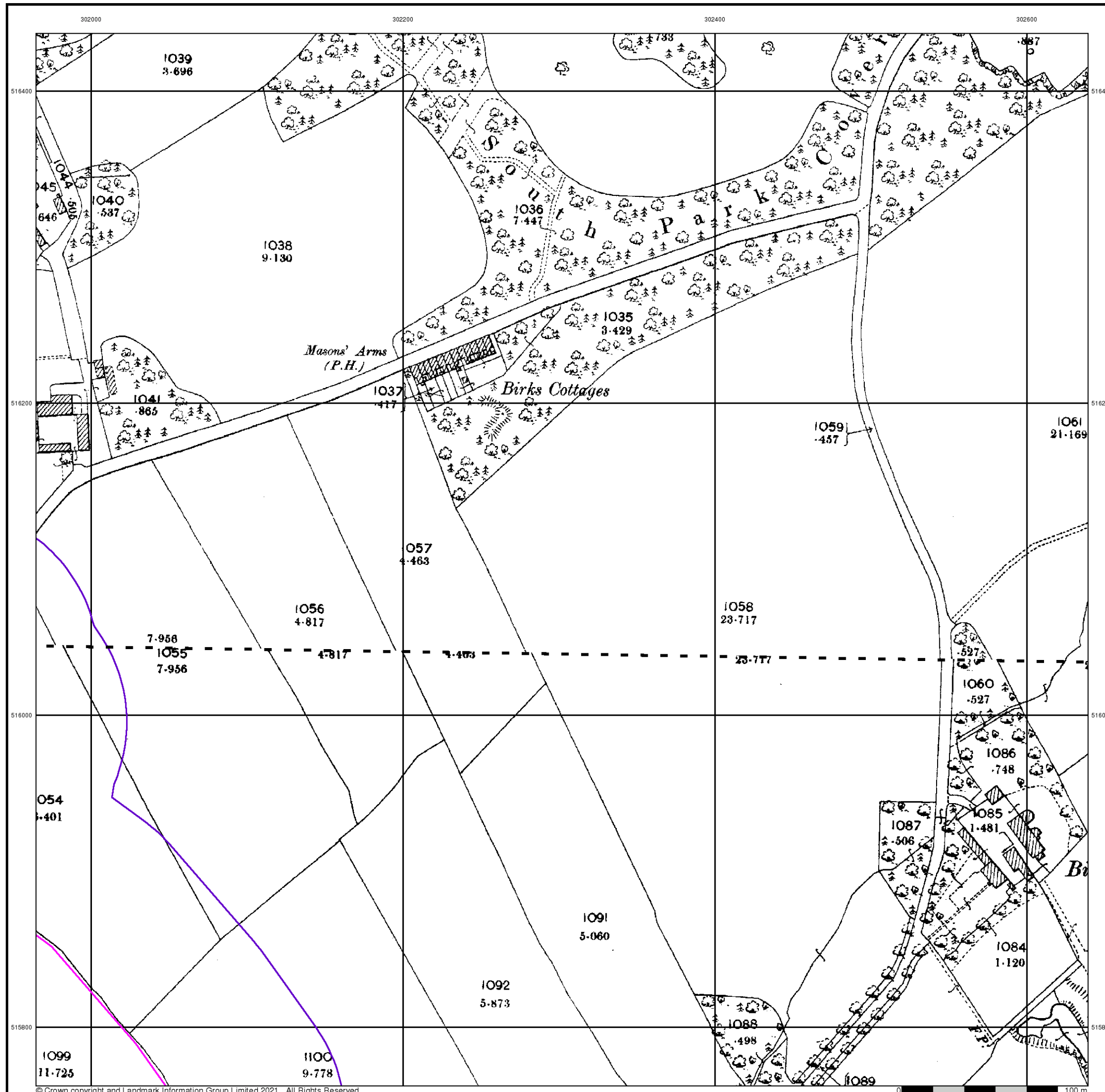
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Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
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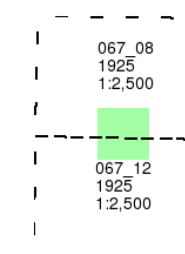
Cumberland

Published 1925

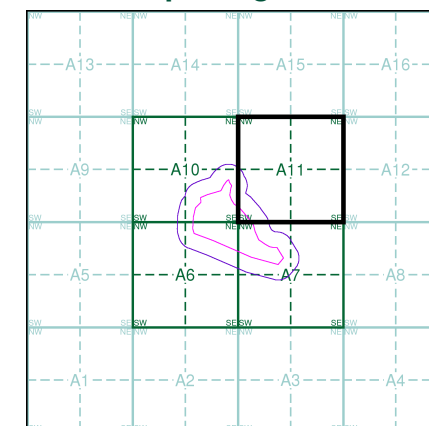
Source map scale - 1:2,500

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.

Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

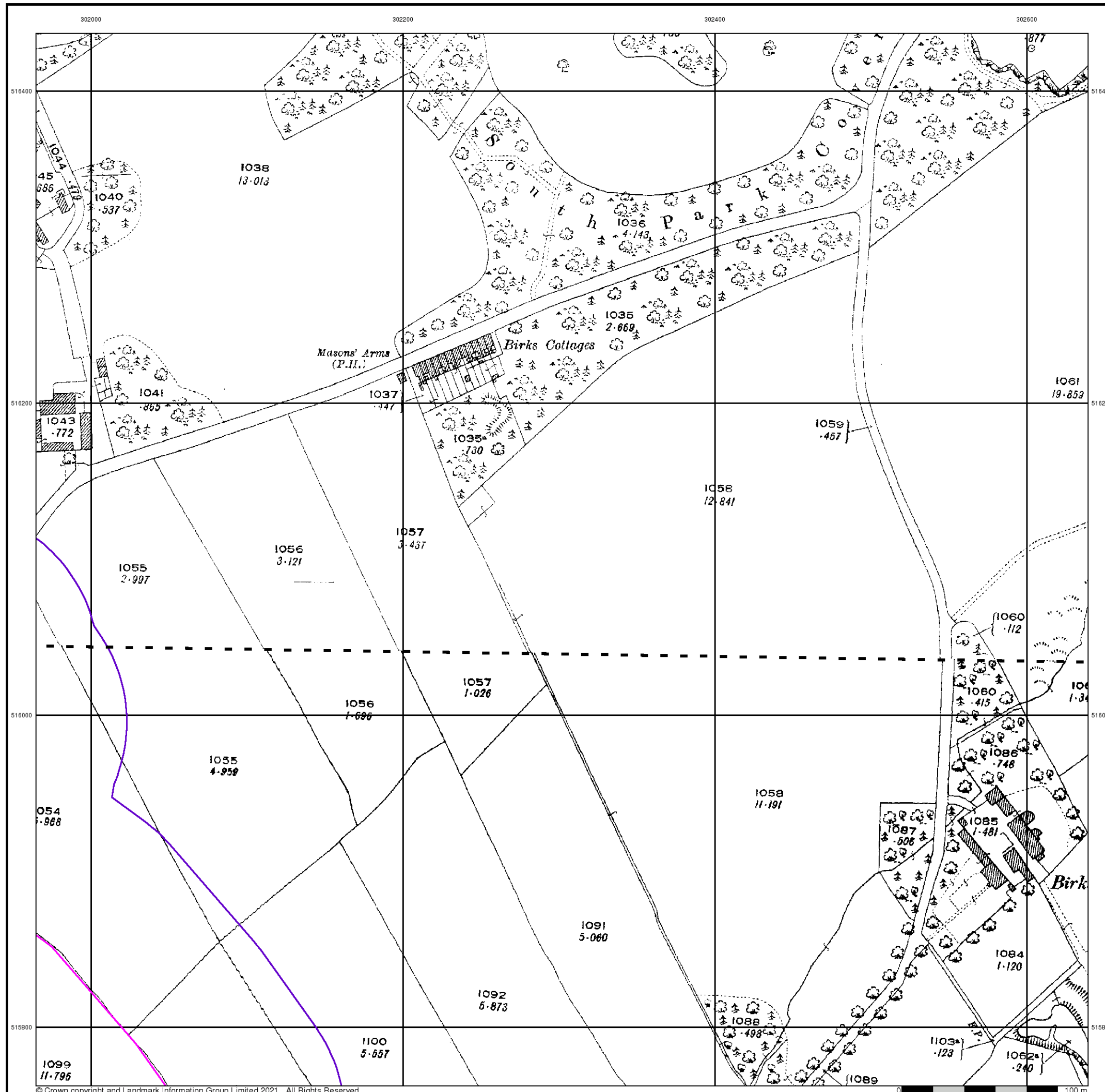
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1962

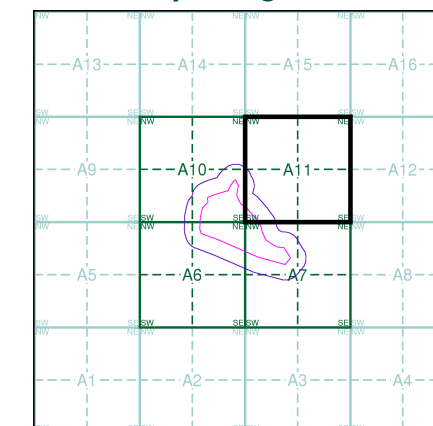
Source map scale - 1:2,500

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)

NY0116 1962 1:2,500	NY0216 1962 1:2,500
NY0115 1962 1:2,500	NY0215 1962 1:2,500

Historical Map - Segment A11



Order Details

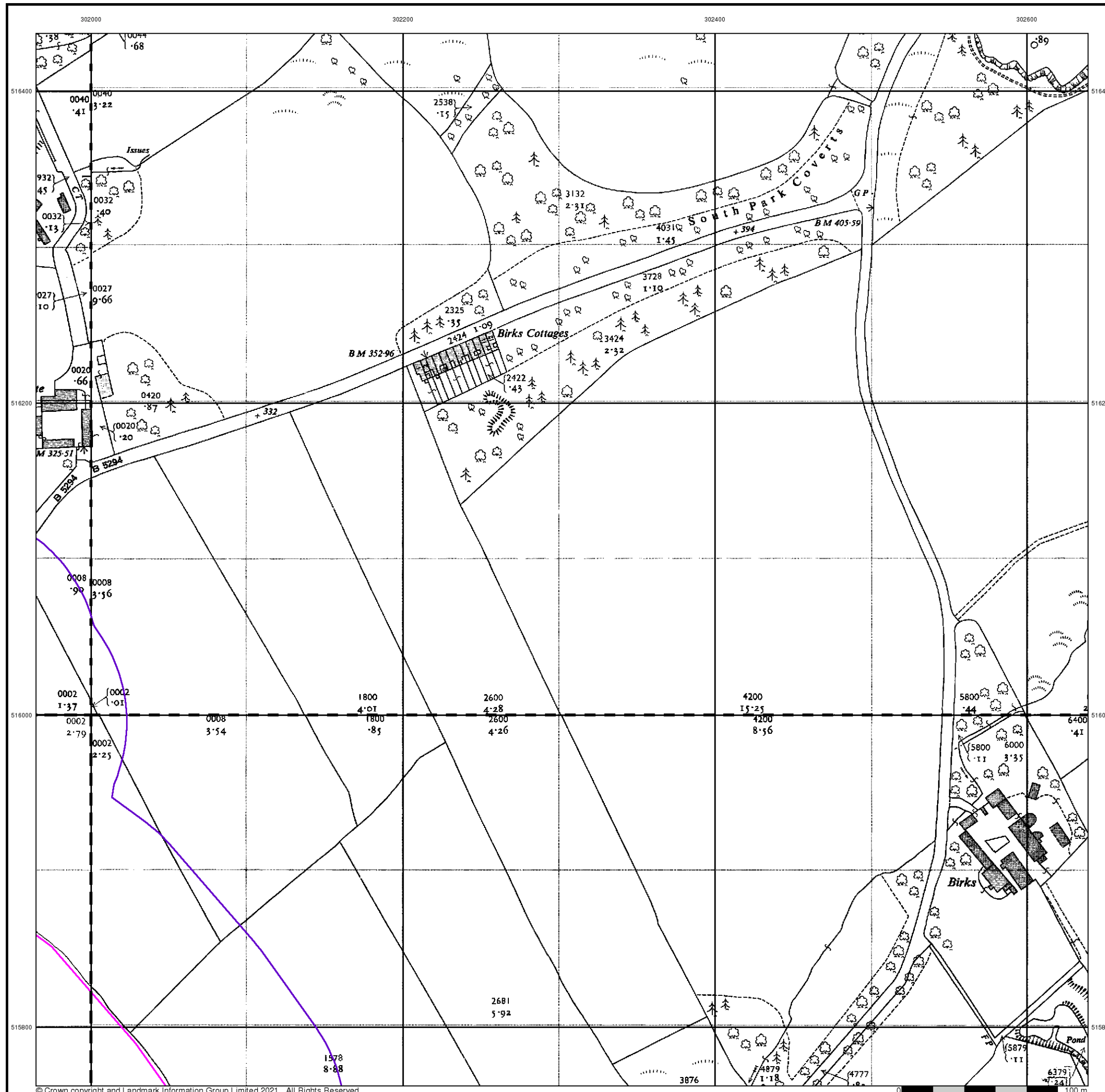
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
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Additional SIMs

Published 1962 - 1991

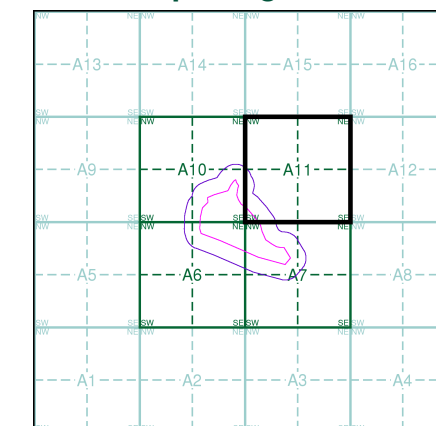
Source map scale - 1:2,500

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Map Name(s) and Date(s)

NY0116 1991 12,500	NY0216 1987 12,500
NY0115 1982 12,500	NY0215 1982 12,500

Historical Map - Segment A11



Order Details

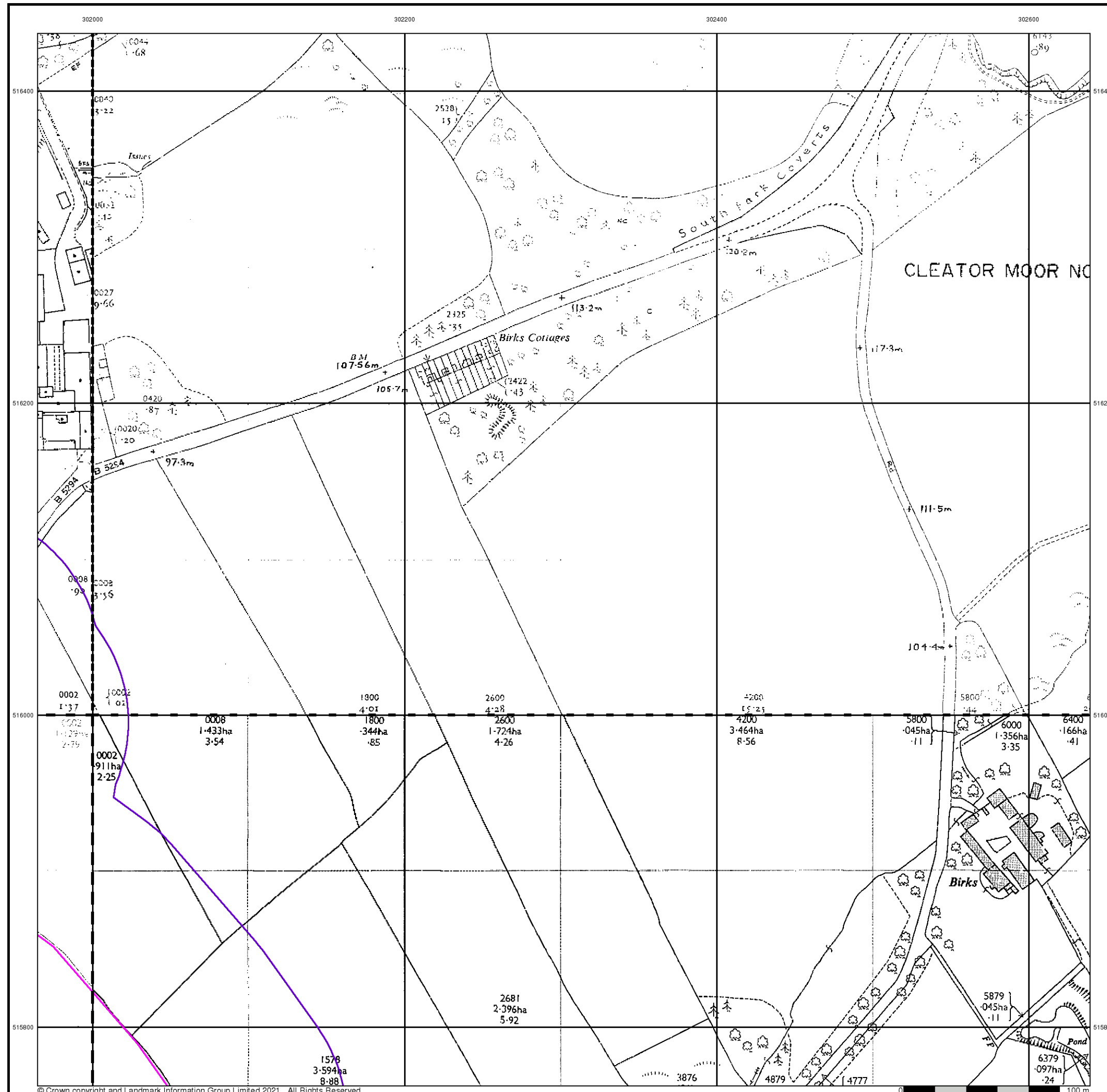
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

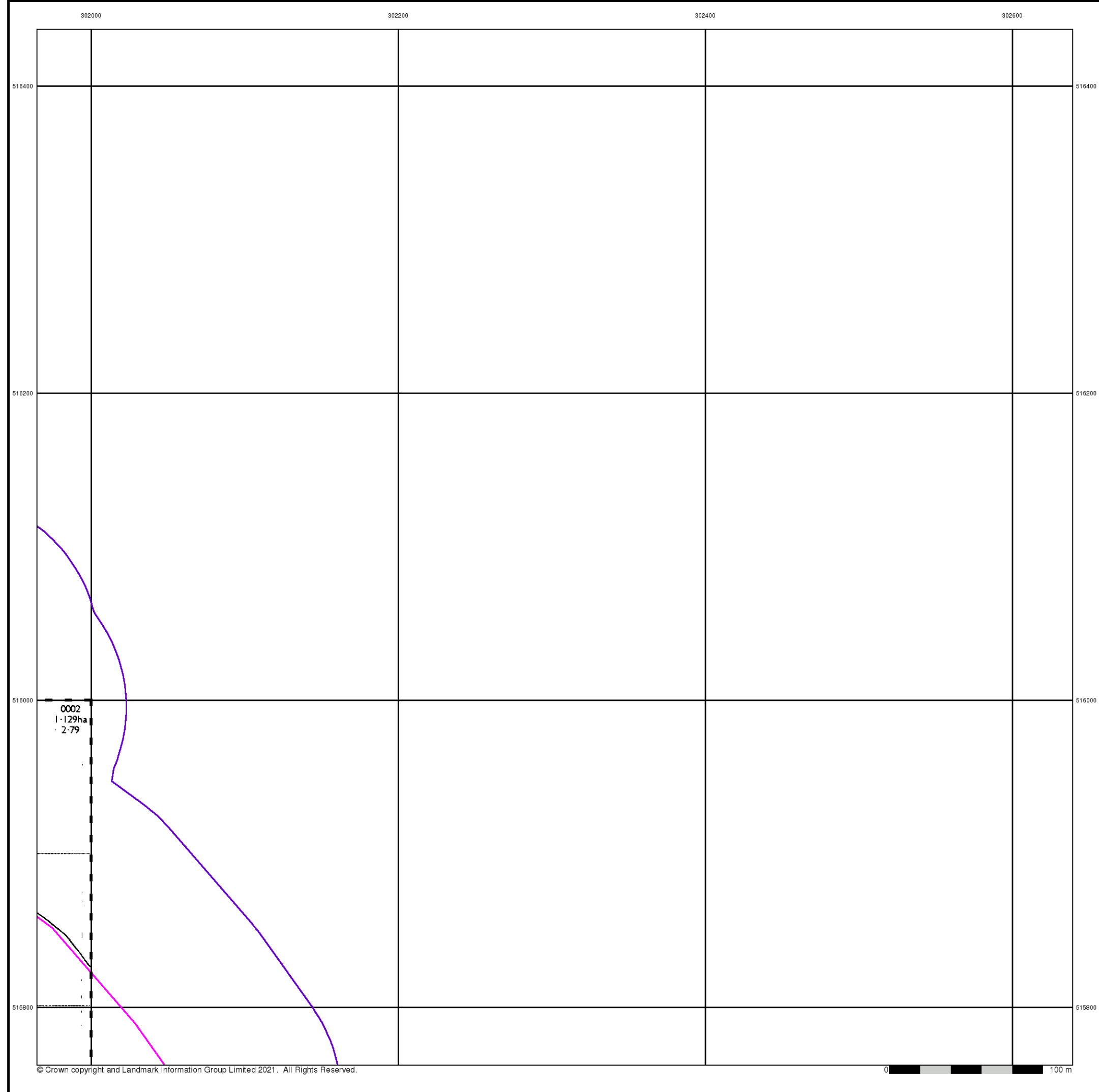
Site Details

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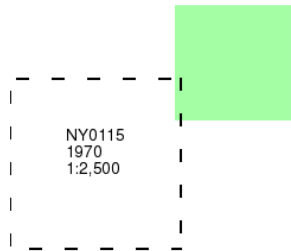
Ordnance Survey Plan

Published 1970

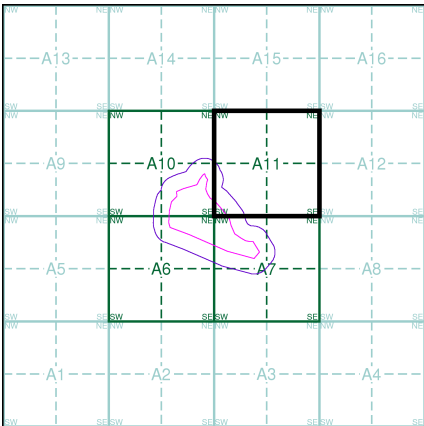
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
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Site Details

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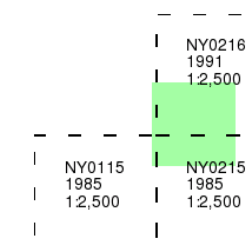
Additional SIMs

Published 1985 - 1991

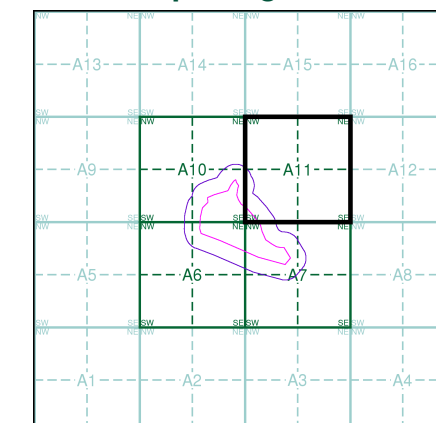
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

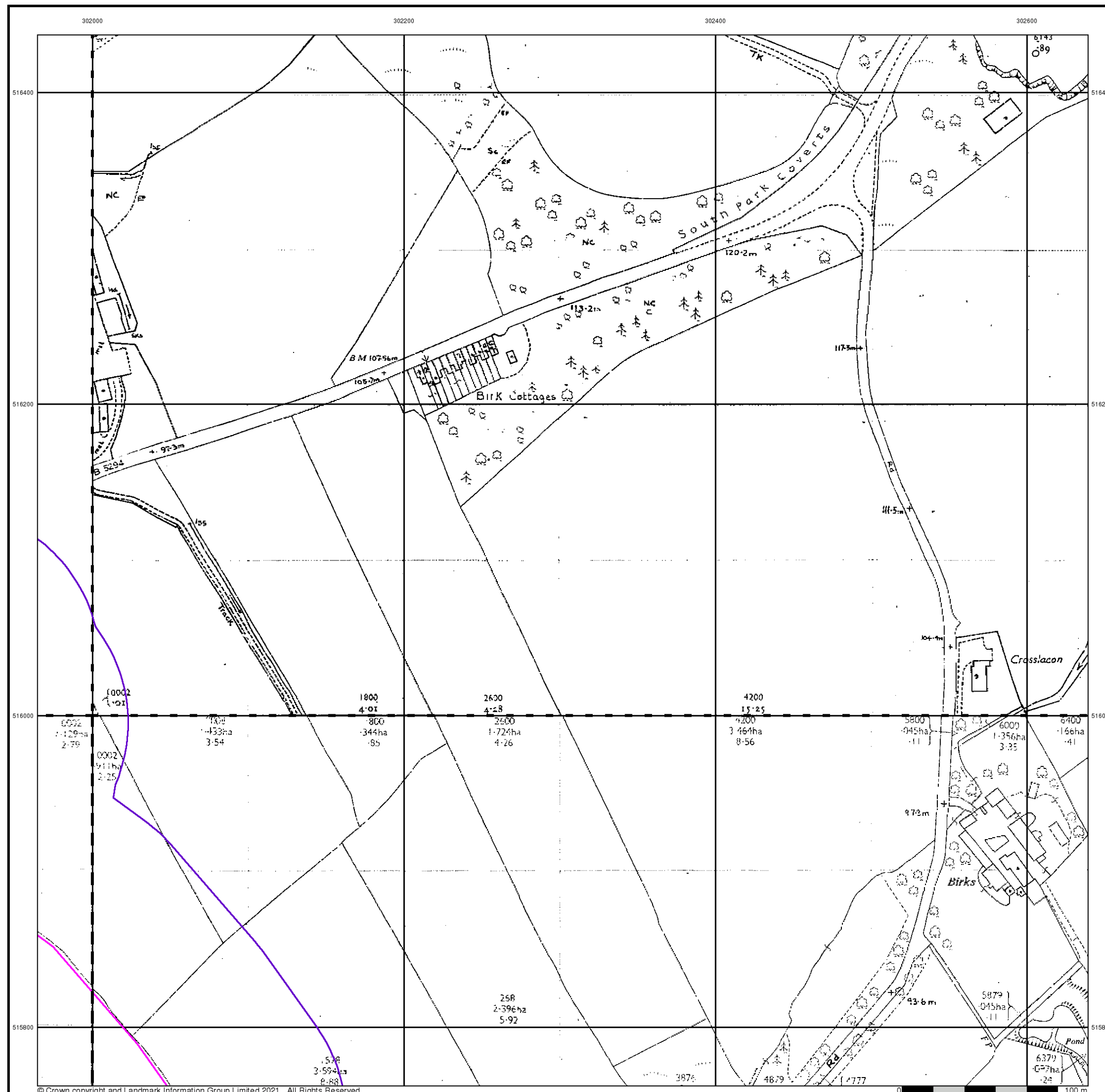
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Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

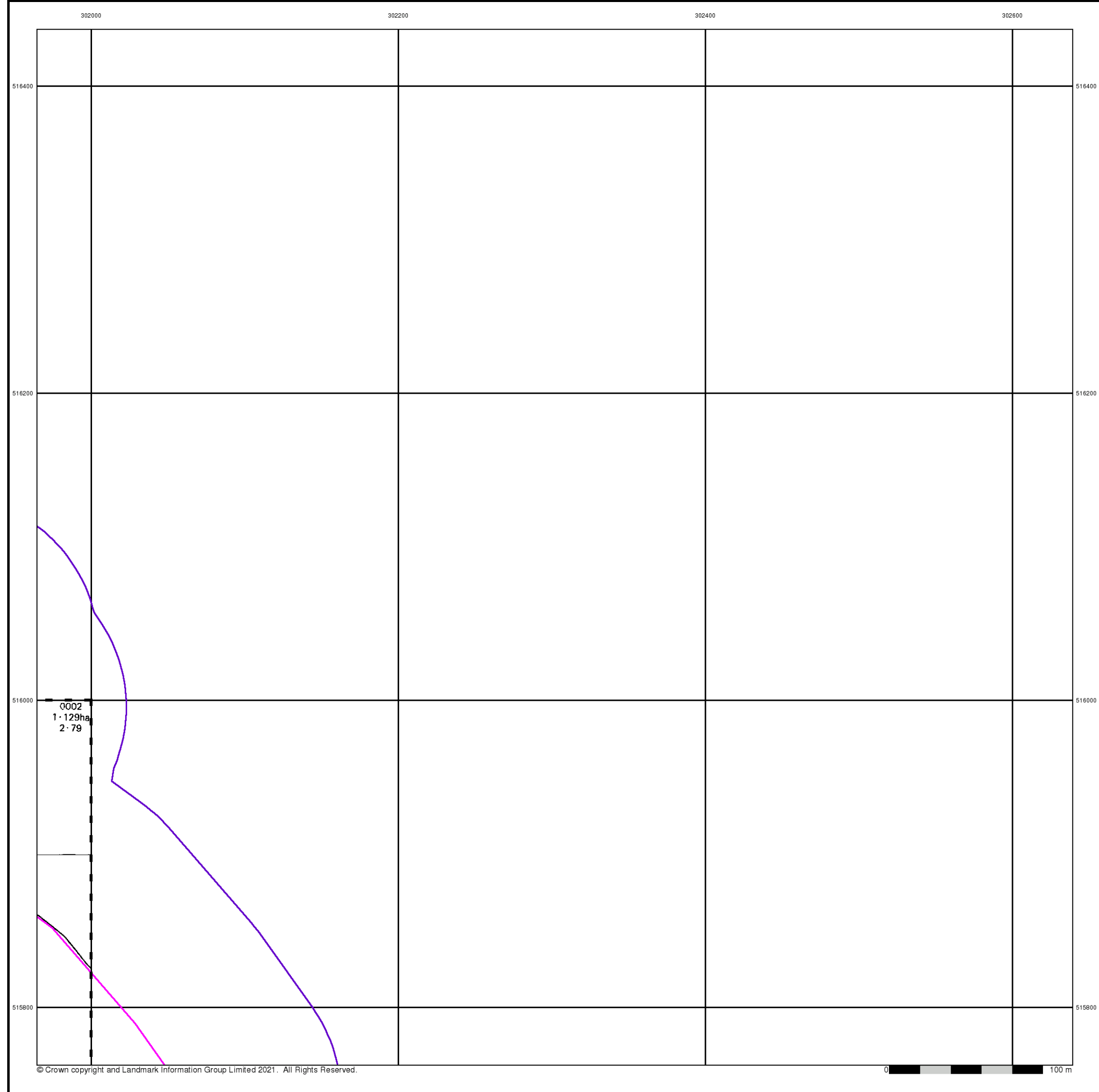
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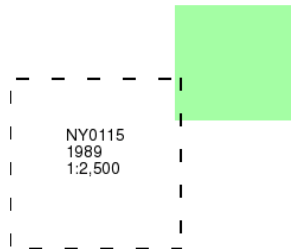
Ordnance Survey Plan

Published 1989

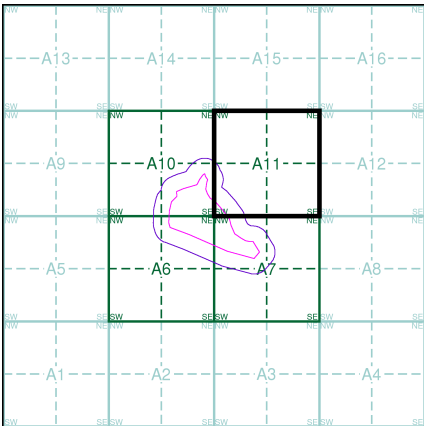
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



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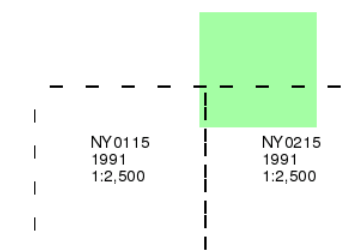
Additional SIMs

Published 1991

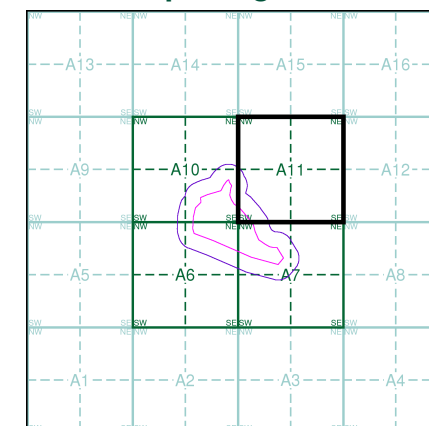
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

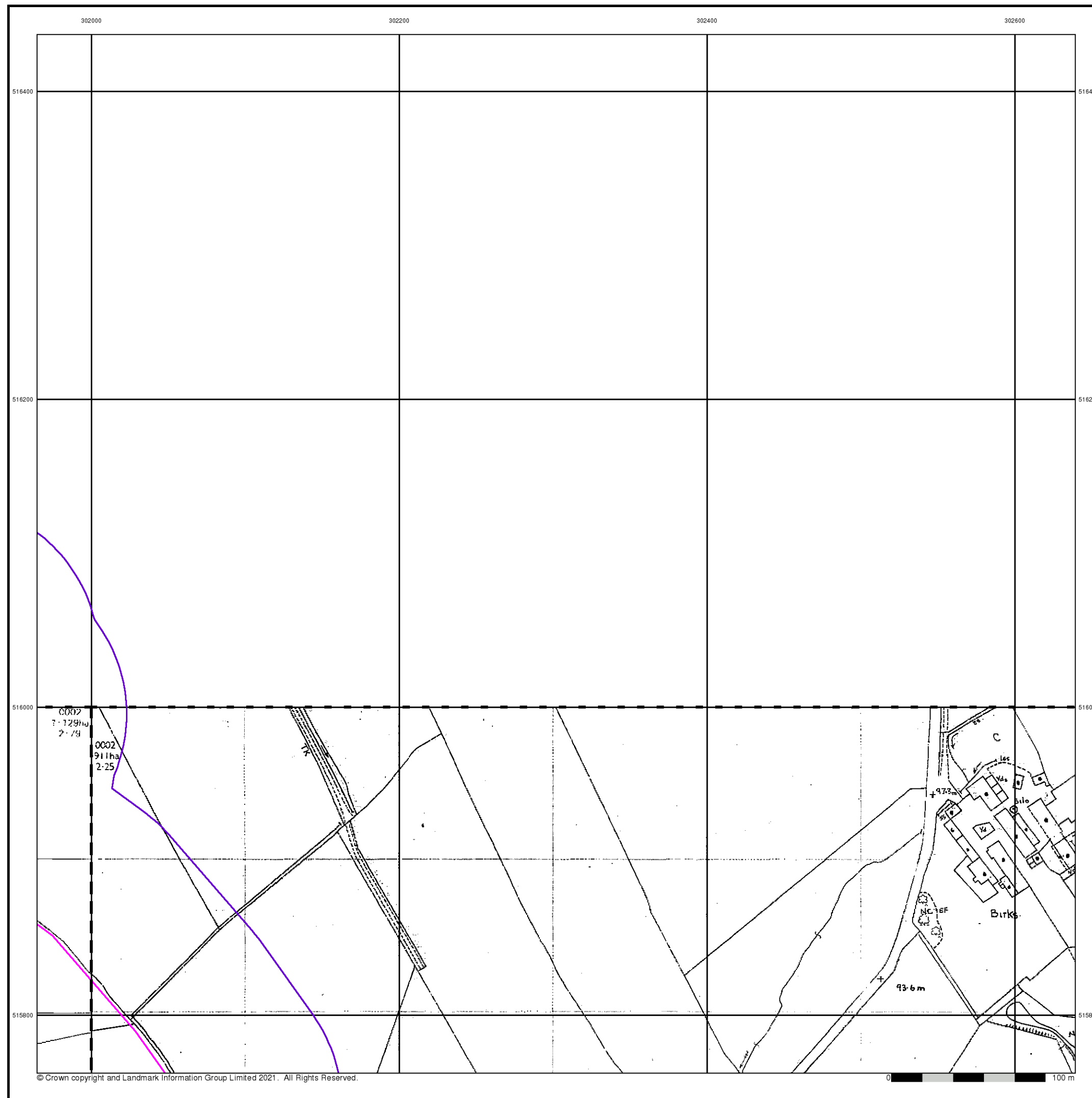
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

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Large-Scale National Grid Data

Published 1994

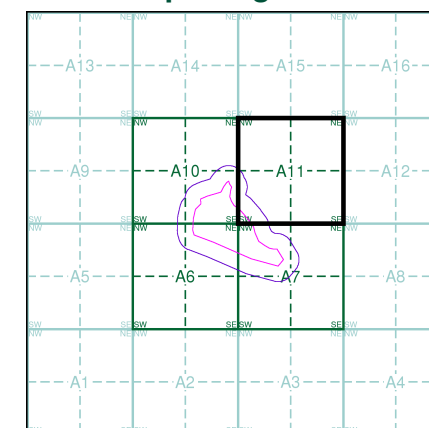
Source map scale - 1:2,500

'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)

NY0116 1994 12,500	NY0216 1994 12,500
NY0115 1994 12,500	NY0215 1994 12,500

Historical Map - Segment A11



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

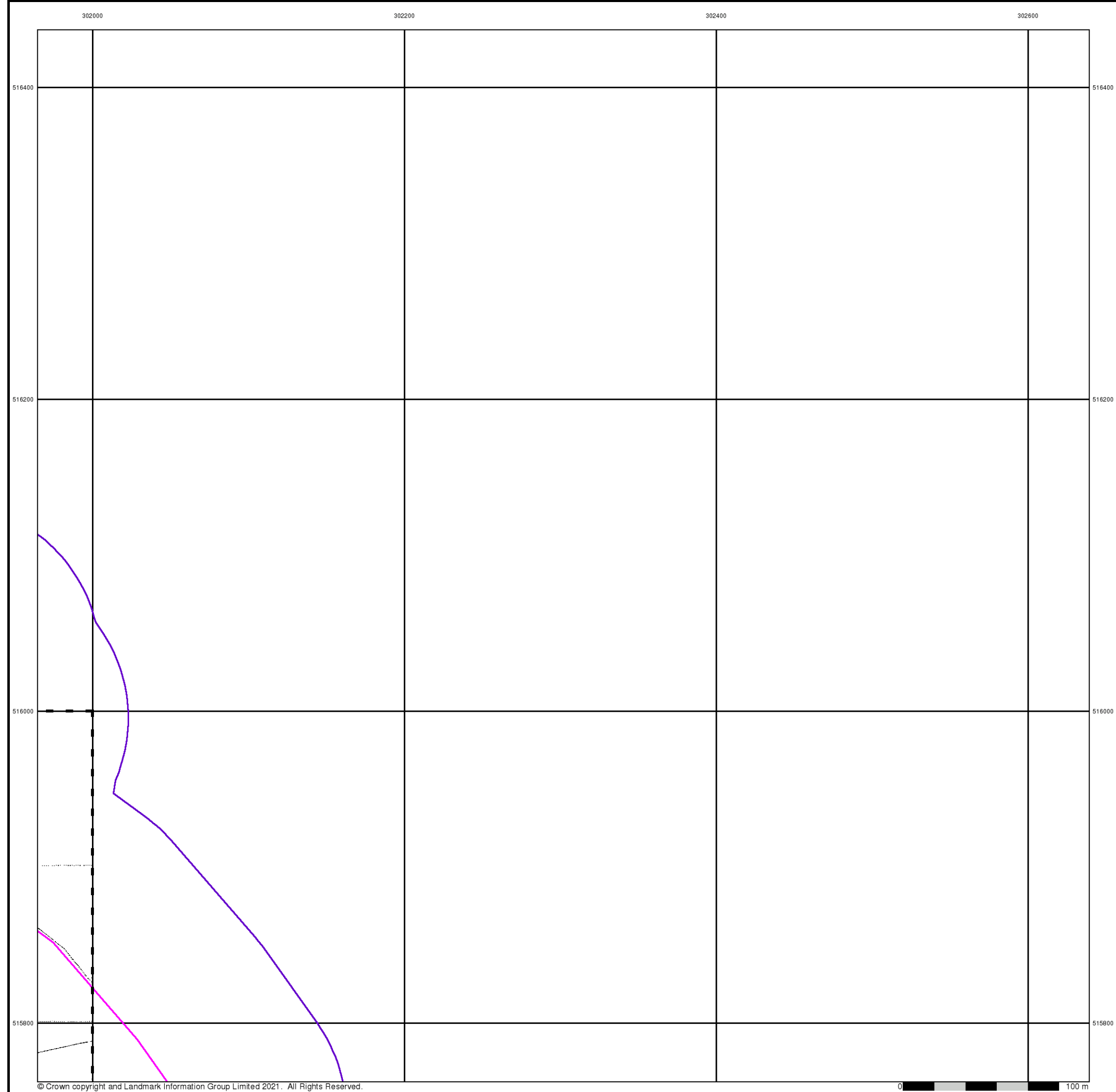
Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
INFORMATION GROUP

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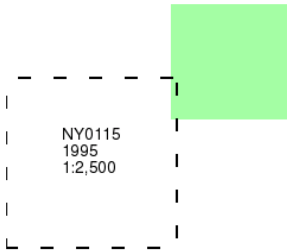
Large-Scale National Grid Data

Published 1995

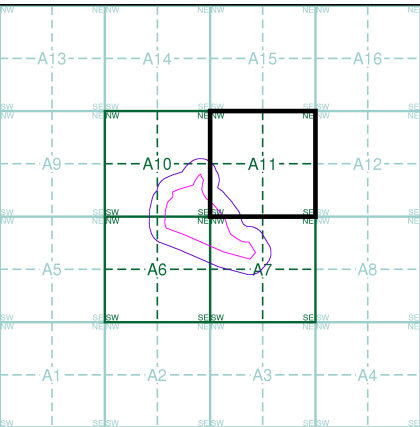
Source map scale - 1:2,500

'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 A11



Order Details

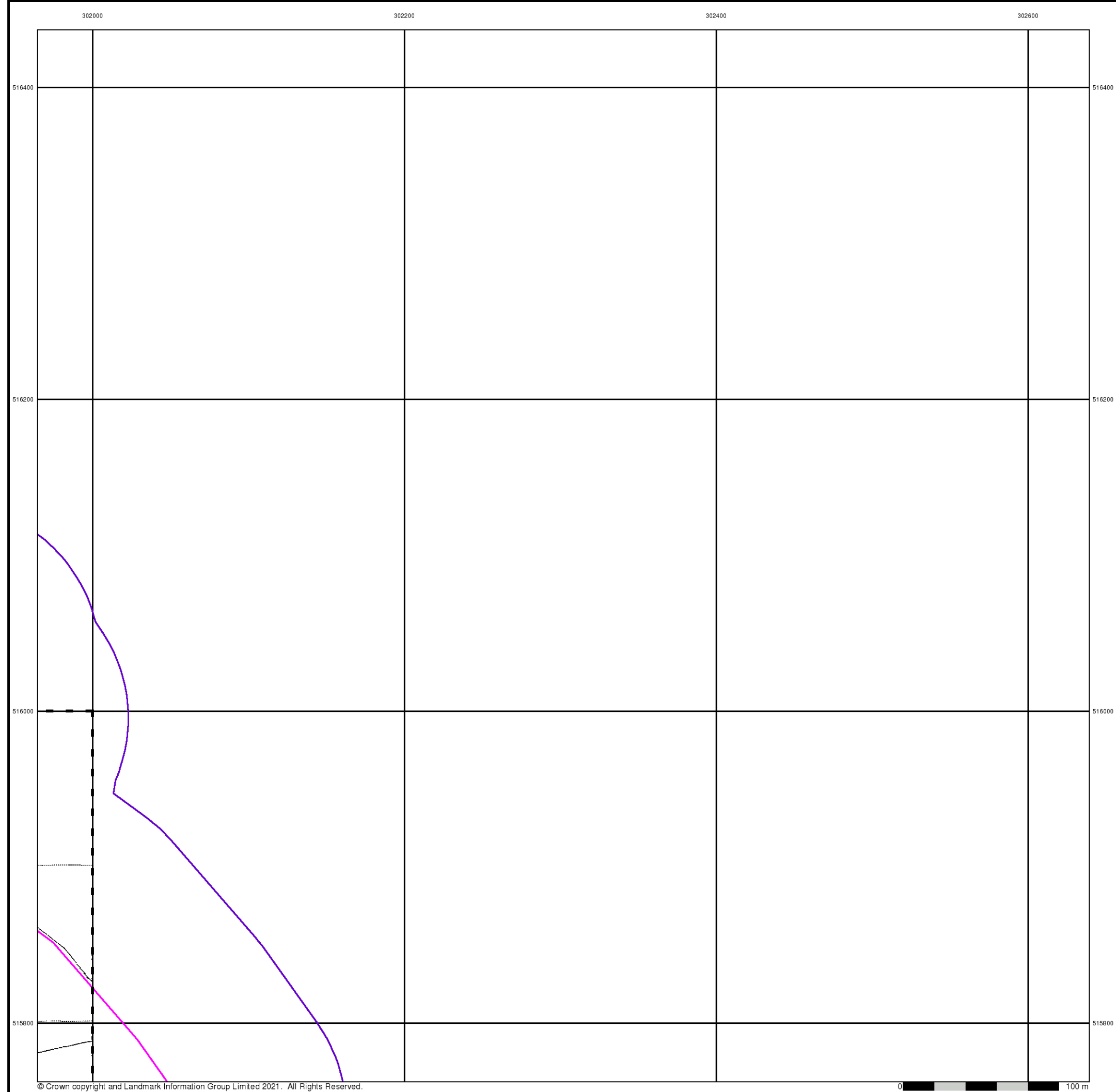
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

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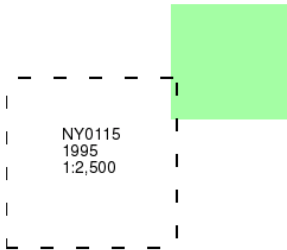
Large-Scale National Grid Data

Published 1995

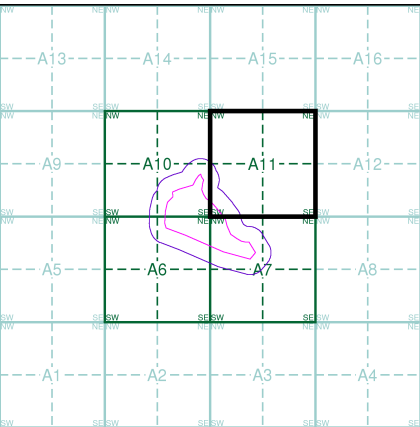
Source map scale - 1:2,500

'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 A11



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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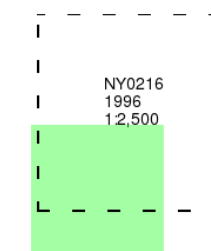
Large-Scale National Grid Data

Published 1996

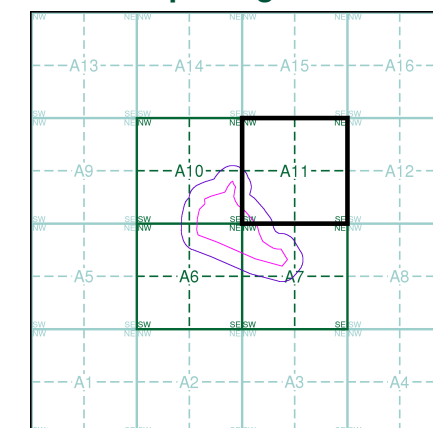
Source map scale - 1:2,500

'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 A11



Order Details

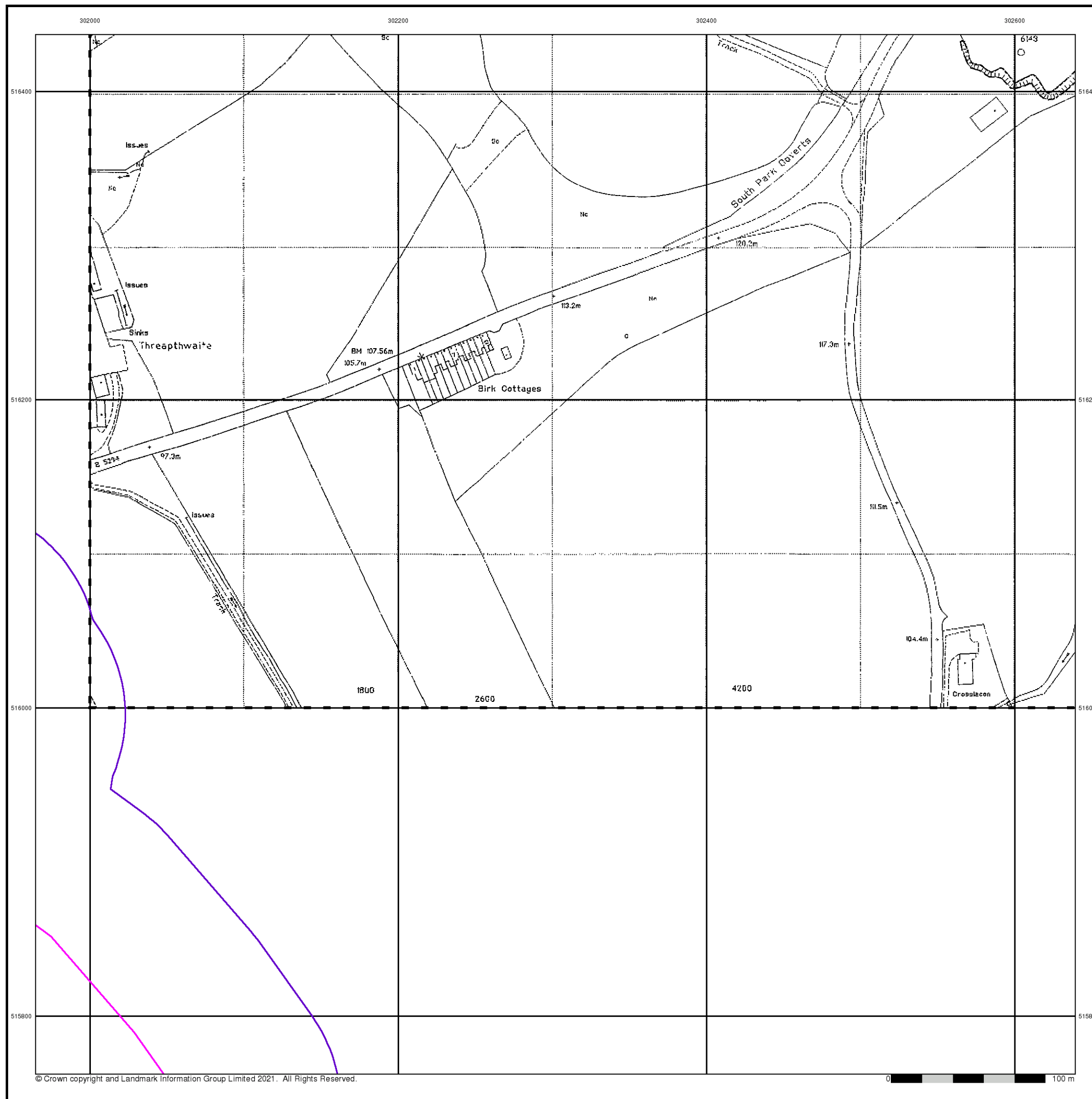
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

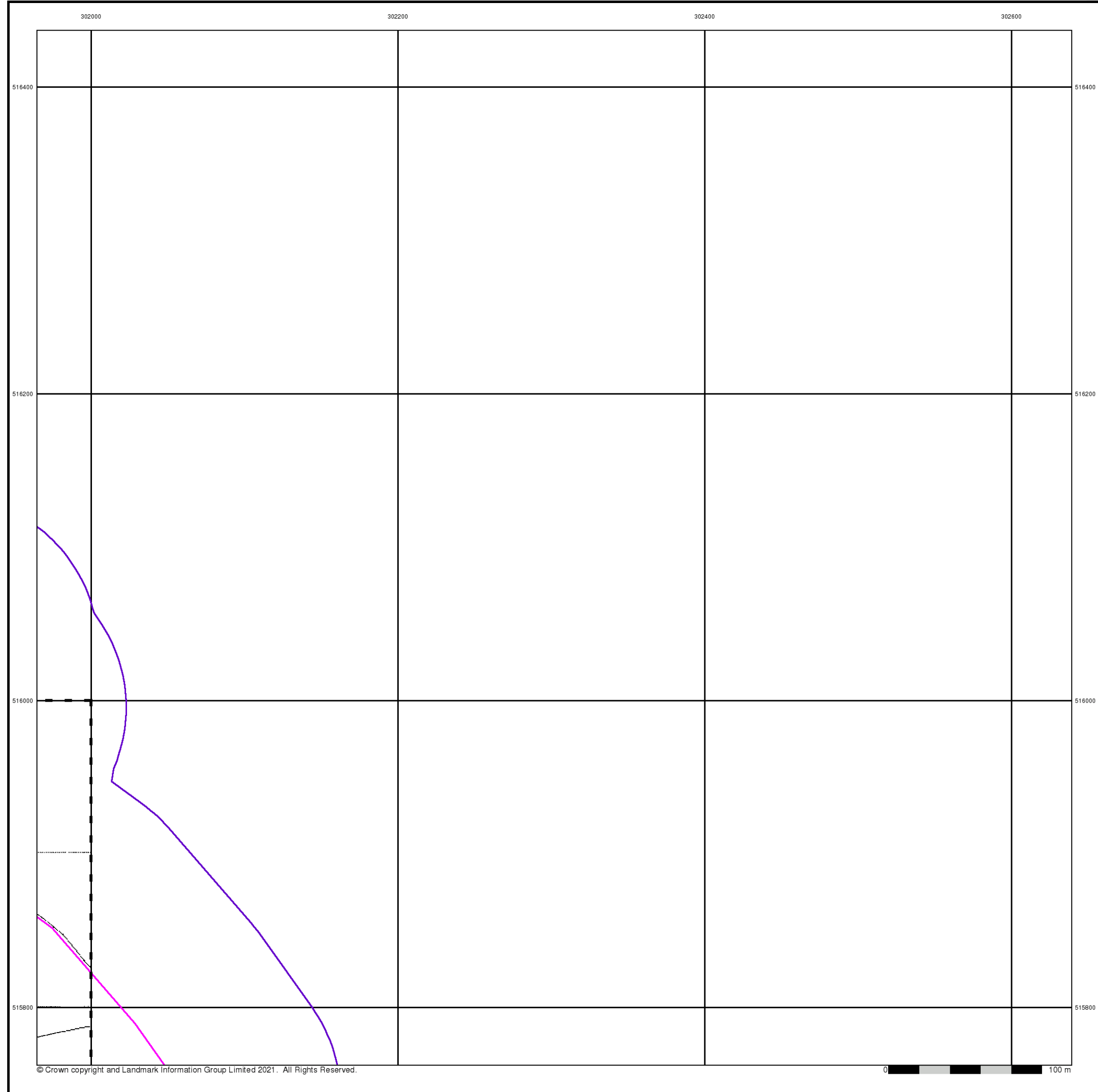
Site Details

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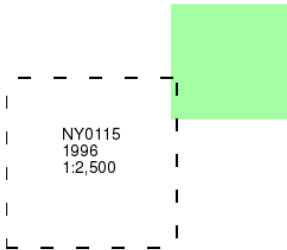
Large-Scale National Grid Data

Published 1996

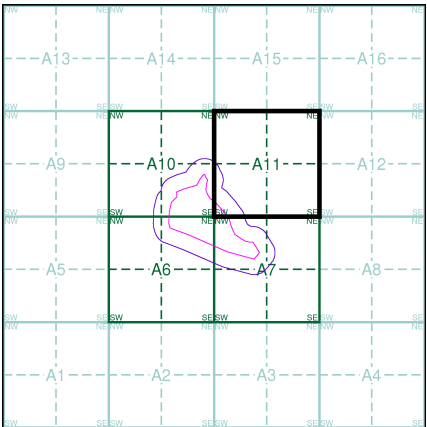
Source map scale - 1:2,500

'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 A11



Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 100

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

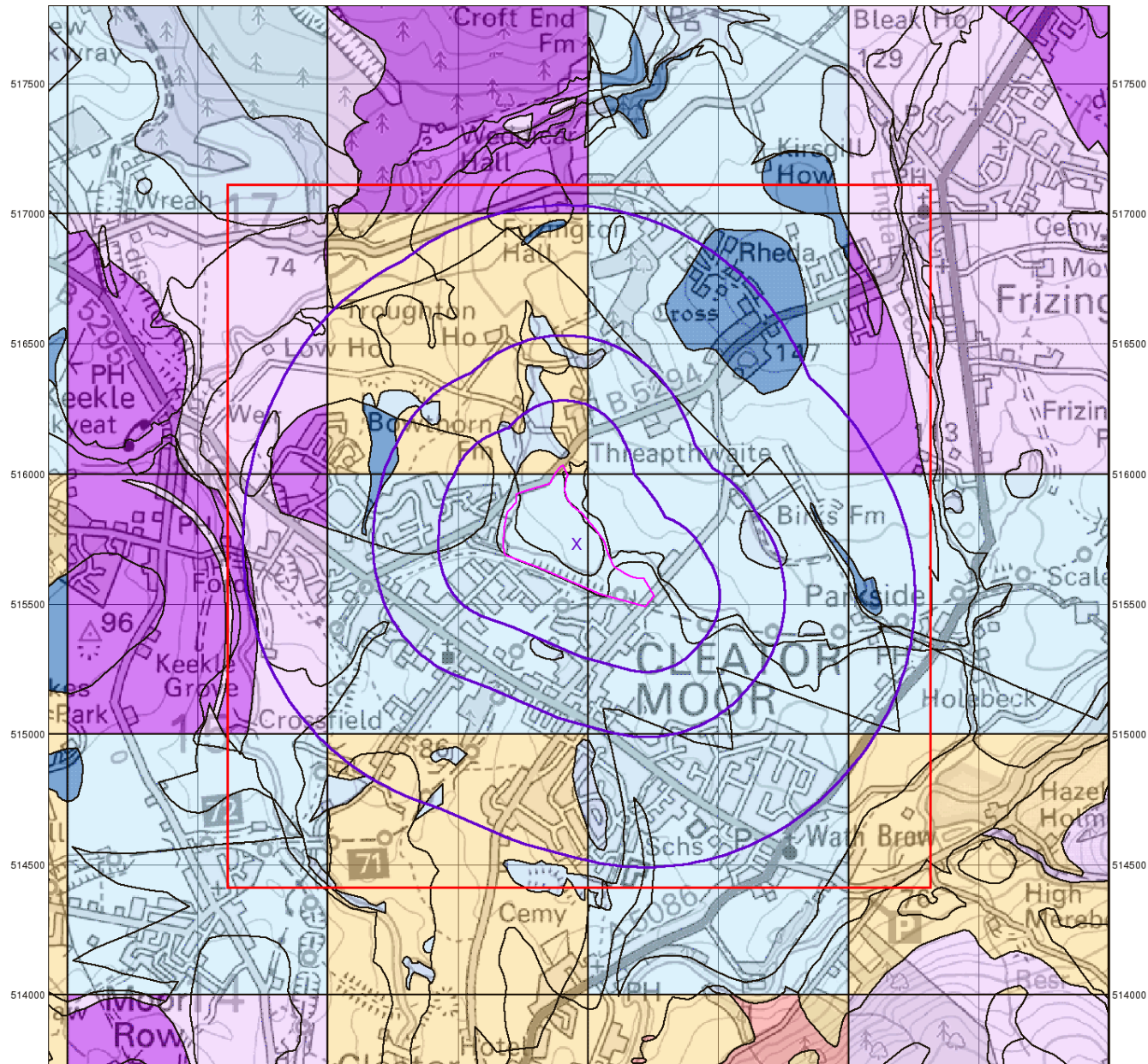


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Appendix C

Envirocheck Report

300000 300500 301000 301500 302000 302500 303000 303500 304000



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0 1 km



Groundwater Vulnerability

General

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

Agency and Hydrological

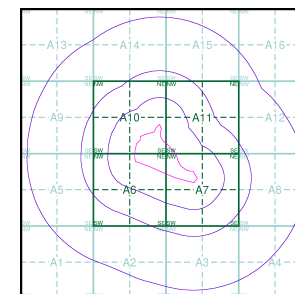
Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer
- 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: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

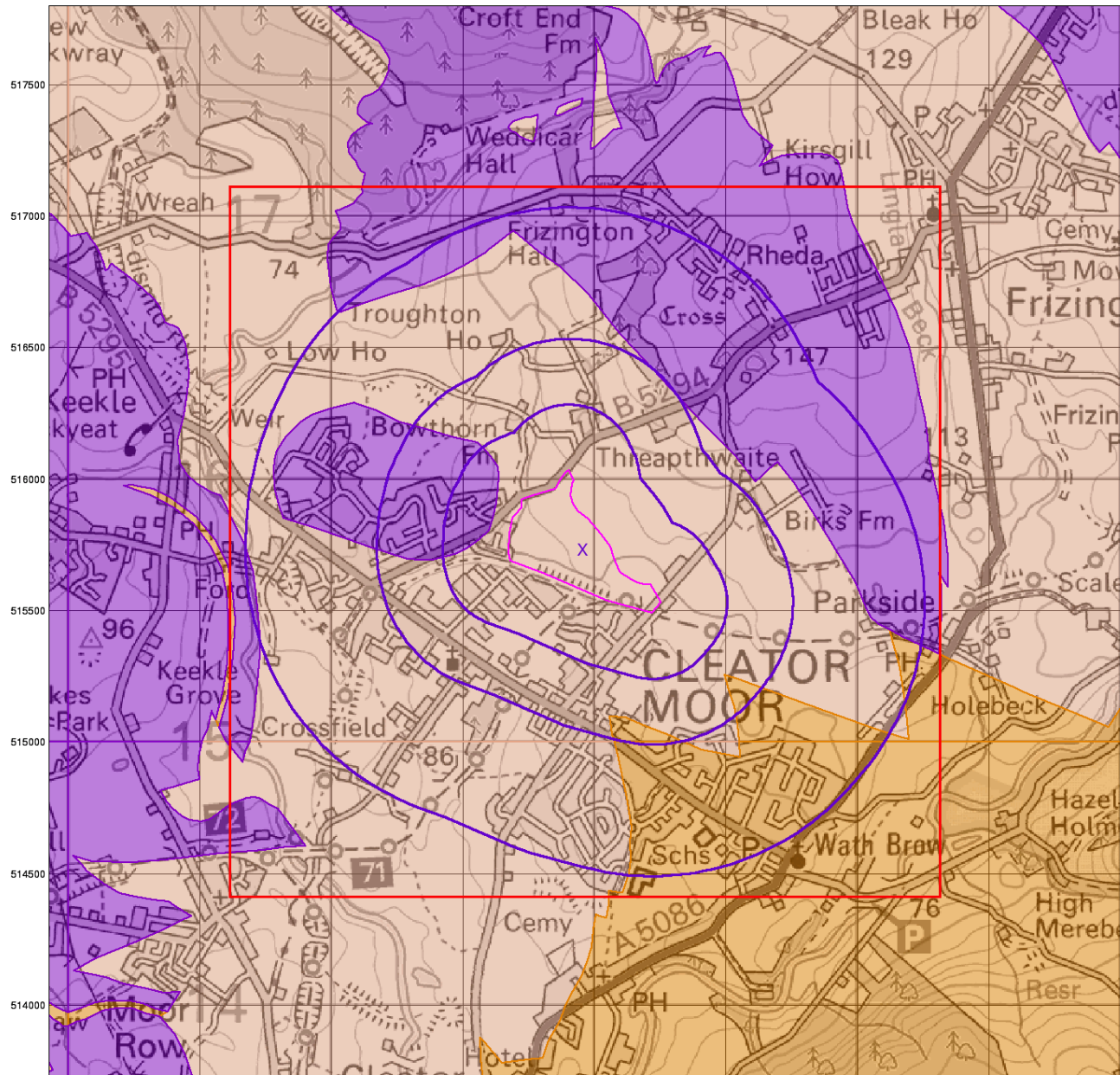
Site Details

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300000 300500 301000 301500 302000 302500 303000 303500 304000



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0 1 km



Bedrock Aquifer Designation

General

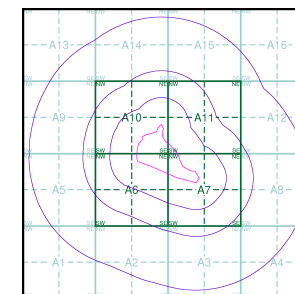
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

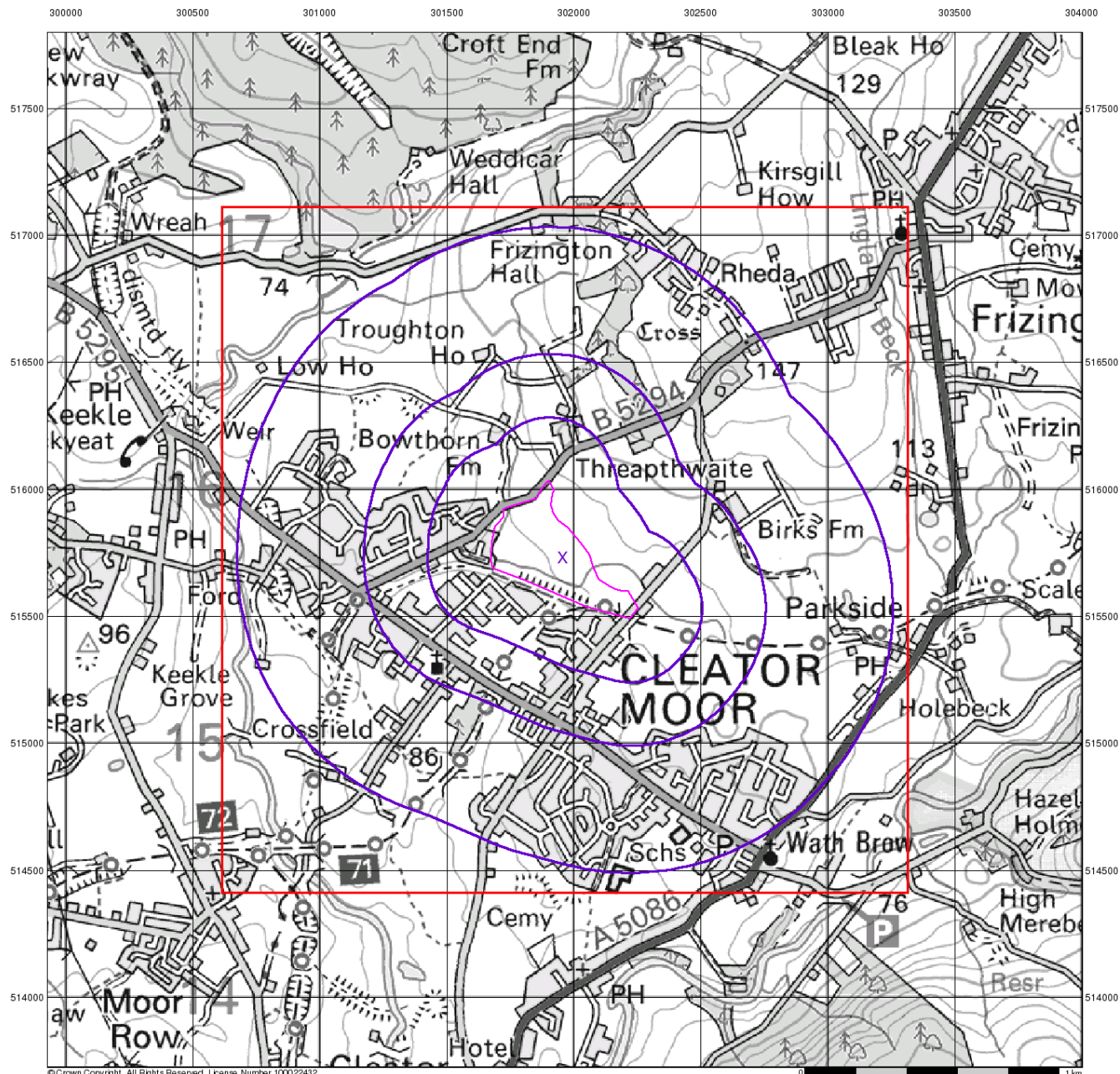
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

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Source Protection Zones

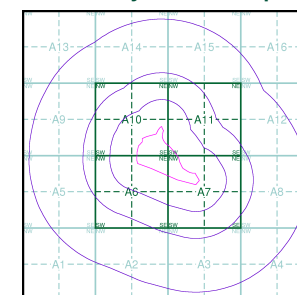
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

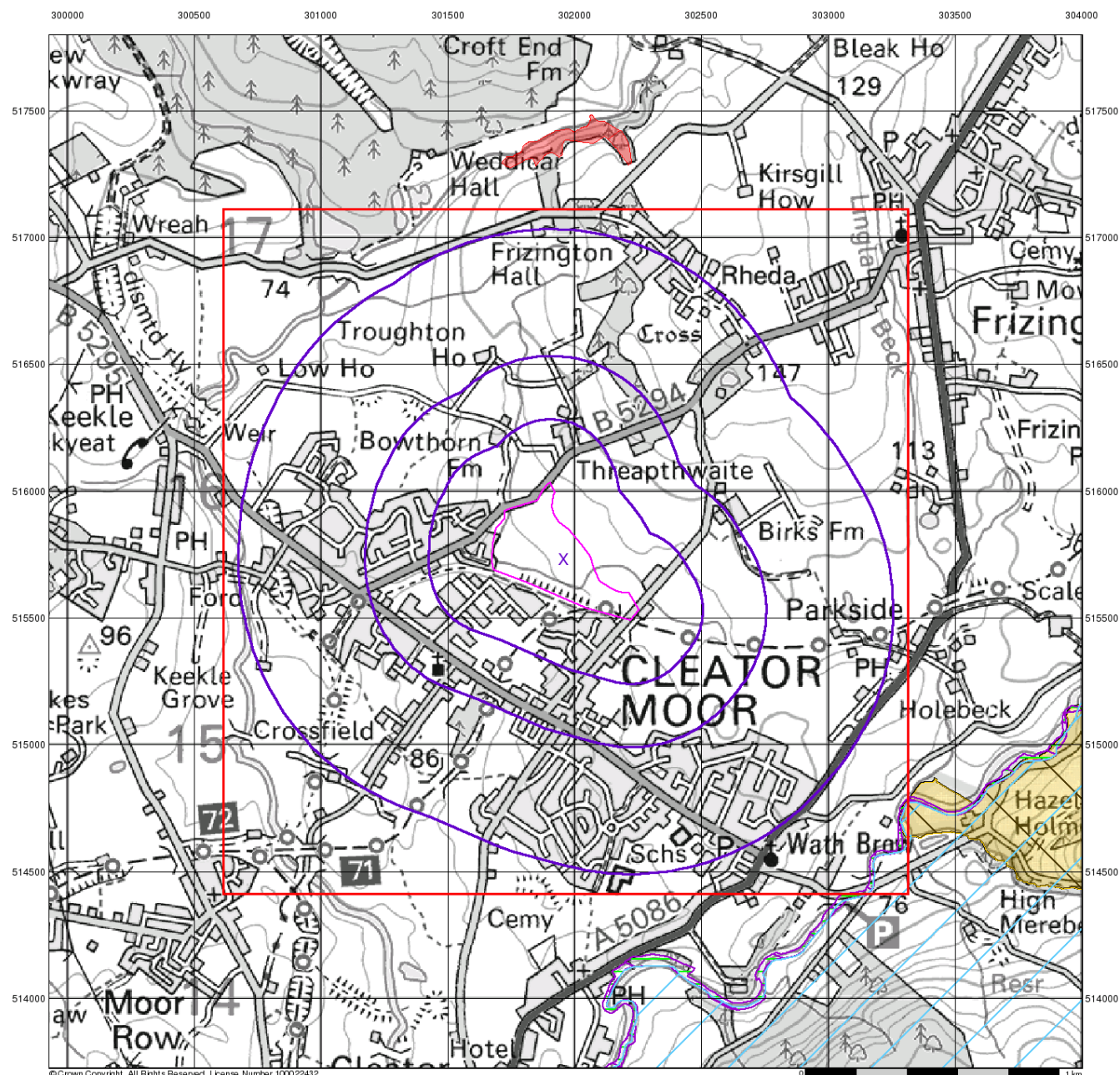
Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

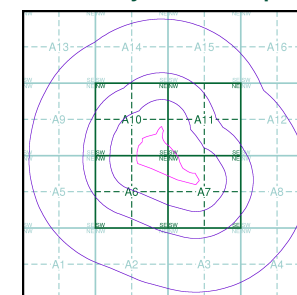
General

-  Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



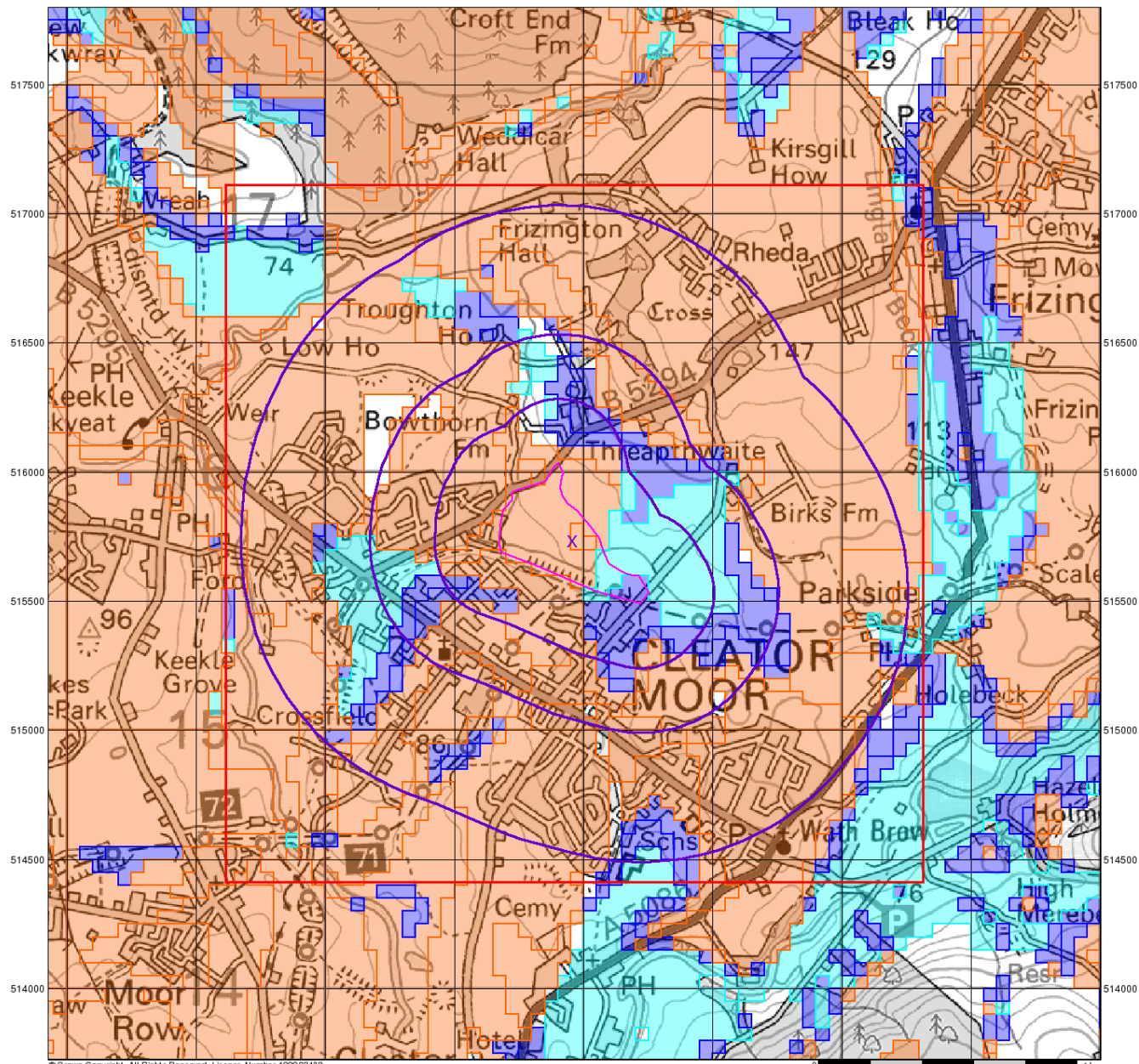
Order Details

Order Number:	283883620_1_1
Customer Ref:	S210806
National Grid Reference:	301960, 515730
Slice:	A
Site Area (Ha):	13.1
Search Buffer (m):	1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

300000 300500 301000 301500 302000 302500 303000 303500 304000



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BGS Flood GFS Data

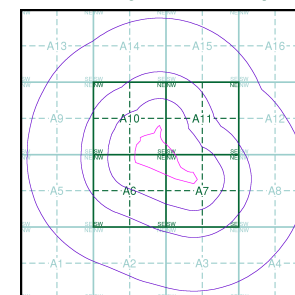
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



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

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

283883620_1_1

Customer Reference:

S210806

National Grid Reference:

301960, 515730

Slice:

A

Site Area (Ha):

13.1

Search Buffer (m):

1000

Site Details:

Flat, 73A
High Street
CLEATOR MOOR
CA25 5BW

Client Details:

Mr R Woods
Solmek Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	23
Hazardous Substances	-
Geological	25
Industrial Land Use	34
Sensitive Land Use	-
Data Currency	38
Data Suppliers	42
Useful Contacts	43

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		1		9
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 6			2	
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6		1	1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6	Yes			
Pollution Incidents to Controlled Waters	pg 7	1	2	1	8
Prosecutions Relating to Authorised Processes	pg 9		1		
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 9				1 (*1)
Water Industry Act Referrals	pg 9			2	
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 12	2	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		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	9	8	12	57

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 23				4
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 23		1		
Local Authority Landfill Coverage	pg 24	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 24				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 25	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 25		1	3	27
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 30	Yes	n/a	n/a	n/a
Mining Instability	pg 30	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 30			2	4
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 31	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 32	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 32	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 32		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 32	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 33	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 33	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 33	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 34		14	13	14
Fuel Station Entries	pg 37			1	
Gas Pipelines					
Underground Electrical Cables					
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	A10SE (NW)	0	1	301850 515950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NE (W)	0	1	301950 515732
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NE (SW)	0	1	301958 515732
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NW (SE)	0	1	302100 515550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6NE (S)	0	1	301950 515600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (NW)	0	1	301700 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NW (E)	0	1	302050 515700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (NE)	17	1	302100 515950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (N)	67	1	301958 516100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SE)	96	1	302250 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (E)	106	1	302150 515800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NE (SW)	107	1	301750 515550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SE)	121	1	302300 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A10NE (N)	126	1	301958 516150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (S)	133	1	302000 515400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A11SW (NE)	135	1	302150 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SE)	141	1	302200 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SE)	144	1	302250 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6NW (W)	159	1	301550 515600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (SE)	162	1	302300 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NE (N)	167	1	301900 516200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (S)	181	1	302000 515350

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	A6NE (SW)	189	1	301700 515450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (SE)	207	1	302300 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (S)	216	1	302050 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A6NW (W)	234	1	301450 515650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6SE (S)	242	1	301958 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11NW (NE)	251	1	302150 516100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (N)	257	1	302100 516200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (N)	261	1	302050 516250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NE)	272	1	302150 516150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NE (N)	287	1	301800 516300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (N)	292	1	302150 516200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SW (S)	292	1	302100 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (SE)	298	1	302450 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A10NE (N)	317	1	301900 516350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NE)	344	1	302250 516100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (NW)	358	1	301450 516150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (NW)	359	1	301500 516200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SE)	369	1	302500 515250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SE)	375	1	302550 515300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SW (NE)	376	1	302300 516050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	385	1	302550 515800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6SW (SW)	394	1	301600 515300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	396	1	302650 515600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (SE)	403	1	302500 515200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SW (S)	409	1	302050 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NE)	414	1	302350 516050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (N)	419	1	301958 516450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	420	1	302550 515850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A11SE (NE)	425	1	302400 516000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A15SW (N)	428	1	302000 516450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A6SE (S)	435	1	301958 515100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	445	1	302700 515550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (N)	467	1	301950 516500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10NW (NW)	468	1	301350 516200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SE (N)	469	1	301958 516500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A5NE (W)	475	1	301200 515750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A6SW (SW)	475	1	301350 515350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A3NW (S)	491	1	302100 515000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SE (N)	492	1	301750 516500
1	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: James Street Sso, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017470312 Permit Version: 1 Effective Date: 19th February 1987 Issued Date: Not Supplied Revocation Date: 30th July 1993 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NW (SE)	43	2	302060 515490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	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	A5SE (SW)	627	2	301145 515365
2	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	A5SE (SW)	629	2	301140 515370
2	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	A5SE (SW)	629	2	301140 515370
2	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	A5SE (SW)	629	2	301140 515370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Plc (?) 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: Keeble 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	A5SE (SW)	634	2	301140 515360
2	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	A5SE (SW)	648	2	301130 515350
3	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Ennerdale Rd, Cleator Moor, Copeland, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01cop0023 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: Kiriting Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A3NE (SE)	662	2	302340 514840
4	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: Norl Beck Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A5SE (SW)	809	2	301030 515210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	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	A5SE (SW)	809	2	301030 515210
5	Integrated Pollution Prevention And Control Name: S Brannan & Sons Ltd Location: Leconfield Industrial Estate, CLEATOR MOOR, Cumbria, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: LP3935LH Original Permit Ref: Bm4201ie Effective Date: 13th March 2006 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (F) Activity Description: Inorganic Chemicals; Using Mercury/Cadmium And Compounds If Release Into Air Primary Activity: Y	A6NW (W)	260	2	301471 515538
5	Integrated Pollution Prevention And Control Name: S Brannan & Sons Ltd Location: Cleator Moor Thermometer Factory, Cleator Moor Thermometers, Leaconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: Bm4201ie Original Permit Ref: Bm4201ie Effective Date: 22nd February 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the address or location Activity Code: 4.2 A(1) (F) Activity Description: Inorganic Chemicals; Using Mercury/Cadmium And Compounds If Release Into Air Primary Activity: Y	A6NW (SW)	268	2	301469 515526
6	Local Authority Pollution Prevention and Controls Name: Ross & Mason Location: Brewery Yard, CLEATOR MOOR, Cumbria, CA25 5HL Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/95/002 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A7NE (E)	151	3	302339 515682
7	Local Authority Pollution Prevention and Controls Name: Crossfield Garage Ltd Location: Leconfield Street, Cleator Moor, Ca25 5qa Authority: Copeland Borough 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	A6SW (SW)	416	3	301368 515416
	Nearest Surface Water Feature	A10SE (N)	0	-	301894 516010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Nor Beck Incident Date: 22nd April 1993 Incident Reference: 93210028 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	A6NE (W)	0	2	301700 515700
9	Pollution Incidents to Controlled Waters Property Type: Tip Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Tip Leachate Note: Tributary Nor Beck Incident Date: 19th October 1993 Incident Reference: 93210117 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	A7NW (SE)	55	2	302300 515500
10	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Not Given Note: North Beck; None Pollution Found Incident Date: 17th June 1991 Incident Reference: 91210045 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (E)	75	2	302300 515600
11	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	A6NW (W)	392	2	301300 515600
12	Pollution Incidents to Controlled Waters Property Type: No Premises Identified Location: St Patrick Infant School, Cleato Authority: Environment Agency, North West Region Pollutant: Not Given Note: Not Supplied Incident Date: 3rd March 1999 Incident Reference: 124 Catchment Area: Ehen Receiving Water: Estuary Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Approximate location provided by supplier	A3NW (S)	531	2	302001 515001
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Ehen Tributary Incident Date: 24th February 1994 Incident Reference: 94210023 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	592	2	302200 514900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Ehen Tributary; Incorrect Connection Incident Date: 24th February 1994 Incident Reference: 94210022 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A3NW (S)	696	2	302300 514800
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: 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	A5SE (SW)	700	2	301100 515300
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Waste Oil Note: Not Supplied Incident Date: 15th September 1994 Incident Reference: 94210125 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Land Runoff Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A3SE (SE)	839	2	302500 514700
17	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	A5NW (W)	875	2	300800 515700
18	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Ehen Tributary Incident Date: 30th August 1994 Incident Reference: 94210106 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A4SW (SE)	925	2	302700 514700
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	A5NW (W)	974	2	300700 515700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Prosecutions Relating to Authorised Processes Location: Land At Threapthwaite Farm, Cleator Moor Prosecution Text: Soil, Timber And Plastic Waste Dumped On Land Without A Wml Prosecution Act: Epa90 S33(1)(A) & (6) Hearing Date: 16th October 2003 Verdict: Guilty Fine: 5000 Costs: 2337 Positional Accuracy: Manually positioned within the geographical locality	A10NE (N)	169	2	301952 516195
21	Water Abstractions Operator: J Charlton & Sons Licence Number: 2774004002 Permit Version: 100 Location: Well At Birks Farm, Cleator Moor, Cumbria Authority: Environment Agency, North West Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 6 Yearly Rate (m3): 2273 Details: Birks Farm, Cleator Moor Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NW (NE)	698	2	302700 516100
	Water Abstractions Operator: Jacques Licence Number: 2774003011 Permit Version: 100 Location: River Ehen At Beck Side Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 1140 Yearly Rate (m3): 416100 Details: Land & Premises At Beck Side Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th September 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SE)	1471	2	302700 514100
22	Water Industry Act Referrals Name: S Brannan And Sons Ltd Location: S BRANNAN AND SONS LTD, CUMBERLAND THERMOMETER WORKS, CUMBERLAND THERMOMETER WORKS, CLEATOR MOOR, CUMBRIA, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: BH8489 Dated: 3rd February 2000 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A6NW (W)	260	2	301471 515537
22	Water Industry Act Referrals Name: S Brannan And Sons Ltd Location: S BRANNAN AND SONS LTD, CUMBERLAND THERMOMETER WORKS, CUMBERLAND THERMOMETER WORKS, CLEATOR MOOR, CUMBRIA, CA25 5QE Authority: Environment Agency, North West Region Permit Reference: BA0544 Dated: 30th October 1997 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A6NW (W)	260	2	301471 515537

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial 3-10m Thickness: Superficial Low Recharge:	A10SE (N)	0	4	301927 516003
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial: >90% Patchiness: Superficial 3-10m Thickness: Superficial Low Recharge:	A10SE (N)	0	4	301958 516000
	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: Superficial >10m Thickness: Superficial Low Recharge:	A6NE (SW)	0	4	301958 515732
	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: Superficial >10m Thickness: Superficial Low Recharge:	A6NE (SW)	0	4	301900 515597

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial: >90% Patchiness: Superficial >10m Thickness: Superficial Low Recharge:	A11SW (NE)	0	4	302000 515807
	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: Superficial >10m Thickness: Superficial Low Recharge:	A6NE (SW)	0	4	301889 515671
	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: Superficial 3-10m Thickness: Superficial Low Recharge:	A7NW (E)	0	4	302000 515732
	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: Superficial 3-10m Thickness: Superficial Low Recharge:	A7NW (SE)	0	4	302087 515621

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A11SW (NE)	0	4	302012 515797
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A6NE (SW)	0	4	301958 515732
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A7NW (E)	0	4	302000 515732
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A6NE (SW)	0	4	301958 515732
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A6NE (SW)	0	4	301958 515732
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A11SW (NE)	0	4	302012 515797
	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	A6NE (SW)	0	2	301888 515702
	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	A6NE (SW)	0	2	301872 515690
	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	A7NW (E)	37	2	302127 515672
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	0	5	301844 515627
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A6NE (SW)	0	5	301902 515603

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10SE (N)	0	5	301890 516011
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10SE (N)	0	5	301894 516010
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10SE (N)	0	5	301918 516002
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (SE)	0	5	302064 515647
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 573.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SW (NE)	0	5	302029 515792
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (SE)	0	5	302088 515659
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A6NE (W)	0	5	301773 515657
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 772.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A6NE (W)	1	5	301680 515686
33	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	A6NE (W)	4	5	301680 515686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	36	5	302127 515670
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	42	5	302135 515672
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	53	5	302264 515629
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	57	5	302168 515680
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	59	5	302264 515629
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (E)	67	5	302168 515680
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NW (N)	325	5	301993 516345
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (N)	376	5	301886 516408
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (N)	384	5	301950 516414

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 560.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NE (N)	391	5	301946 516422
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A10NE (N)	406	5	301768 516415
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A14SE (N)	444	5	301772 516457
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A10NW (NW)	477	5	301381 516250
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SE (NW)	482	5	301246 516040
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 91.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SE (W)	493	5	301210 515961
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9SE (W)	493	5	301210 515961
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SE (E)	499	5	302561 515960
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SE (E)	499	5	302570 515948

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SE (E)	501	5	302558 515964
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11SE (E)	502	5	302556 515967
54	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	A9SE (W)	514	5	301171 515879
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NW (NE)	516	5	302280 516386
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NE (NE)	517	5	302316 516345
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	522	5	302067 516529
58	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	A5NE (W)	551	5	301127 515654
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	556	5	302054 516568
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	556	5	302054 516568

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	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	A5NE (W)	559	5	301115 515716
62	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	A5NE (W)	562	5	301124 515605
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A14SE (N)	566	5	301771 516583
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NE (NW)	579	5	301240 516236
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	597	5	302073 516606
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	602	5	302076 516611
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	616	5	302040 516635
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Bowthorn Beck Catchment Name: Ehen-Calder Primacy: 1	A14SE (N)	617	5	301779 516637
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (NE)	623	5	302288 516525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (NE)	623	5	302288 516525
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	624	5	302039 516643
72	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	A5SE (SW)	636	5	301137 515362
73	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	A5SE (SW)	636	5	301137 515362
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NE (NE)	644	5	302411 516431
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NE (NE)	649	5	302415 516434
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (NE)	650	5	302657 516074
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (NE)	650	5	302657 516074
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	663	5	302289 516573

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	663	5	302289 516573
80	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	A5NE (W)	664	5	301067 515437
81	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (SE)	682	5	302907 515333
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (NW)	693	5	301360 516510
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (N)	696	5	302025 516718
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 388.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (SE)	698	5	302923 515330
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NE (NW)	711	5	301207 516407
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nor Beck Catchment Name: Ehen-Calder Primacy: 1	A5SE (SW)	768	5	301084 515207
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 647.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (N)	791	5	301597 516762

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 147.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (N)	797	5	302000 516825
89	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	A5SE (SW)	804	5	301038 515208
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 340.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3SE (S)	855	5	302390 514653
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	889	5	301144 516593
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	889	5	301146 516595
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	889	5	301146 516595
94	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	A5SW (W)	895	5	300881 515289
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (N)	905	5	301840 516936
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (N)	909	5	301823 516939

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	926	5	301261 516722
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	929	5	301260 516724
99	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	A5SW (SW)	956	5	300852 515215
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	964	5	300969 516519
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	974	5	301203 516742
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	974	5	301203 516742
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 205.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	984	5	301167 516732
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 459.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A5NW (W)	990	5	300714 515478
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Keekle Catchment Name: Ehen-Calder Primacy: 1	A5NW (W)	990	5	300690 515613

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A5NW (W)	994	5	300690 515579
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	995	5	301201 516766
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A13SE (NW)	999	5	301200 516770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	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	A5NE (W)	544	2	301148 515578
110	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	A5NW (W)	795	2	300900 515537
111	Historical Landfill Sites Licence Holder: Mr Clem Mossop Location: Frizington, Parkside, Cleator Moor, Cumbria Name: Parkside North Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07761 First Input Date: 31st December 1931 Last Input Date: 6th December 1995 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0182 BGS Ref: Not Supplied Other Ref: 147, W176.4.173	A8NE (E)	929	2	303182 515578
112	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	A2SW (SW)	996	2	301337 514747
113	Licensed Waste Management Facilities (Locations) Licence Number: 403709 Location: Unit 12, Cleator Moor, Cumbria, CA25 5QB Operator Name: Whitehaven Skips & Services Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: HCl Waste Transfer Station Licence Status: Revoked Issued: 18th July 2017 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: 22nd April 2020 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	139	2	301760 515511

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	301958 515732
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	6	301958 515732
114	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/surrenderedCancelled 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	A5NW (W)	814	2	300882 515534

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Warwickshire Group	A6NE (SW)	0	1	301958 515732
	BGS 1:625,000 Solid Geology Description: Dinantian Rocks (Undifferentiated)	A7NW (S)	0	1	301992 515565
115	BGS Recorded Mineral Sites Site Name: Aldby Iron Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253029 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	174	1	302386 515417
116	BGS Recorded Mineral Sites Site Name: Aldby Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140659 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	289	1	302320 515220
117	BGS Recorded Mineral Sites Site Name: Aldby Quarry Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140644 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A7SE (SE)	422	1	302410 515114
118	BGS Recorded Mineral Sites Site Name: Birks Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140658 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Eskett Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8NW (E)	464	1	302662 515752
119	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine, Pit No. 7 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140670 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	A8SW (E)	569	1	302809 515404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	BGS Recorded Mineral Sites Site Name: Aldby Brick Field Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253028 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A3NE (SE)	601	1	302526 514973
121	BGS Recorded Mineral Sites Site Name: Bowthorn Colliery Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140715 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	A10NW (NW)	611	1	301324 516381
122	BGS Recorded Mineral Sites Site Name: Aldby Brick Field Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253027 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A3NE (SE)	630	1	302486 514920
123	BGS Recorded Mineral Sites Site Name: Holebeck Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140666 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	A8SW (SE)	676	1	302866 515243
124	BGS Recorded Mineral Sites Site Name: Cleator Moor Iron Ore Mine 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	A2NW (SW)	681	1	301537 515017
125	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140645 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A3NW (S)	683	1	301972 514851

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, 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	A5NE (W)	695	1	301020 515477
126	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, Staple 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	A5NE (W)	721	1	301005 515440
127	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine No. 5 Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253033 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8NW (E)	702	1	302927 515734
128	BGS Recorded Mineral Sites Site Name: Crossfield Iron Ore Mine 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	A2NW (SW)	732	1	301553 514955
129	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine No. 3 Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253032 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8NE (E)	749	1	302990 515672
129	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine No. 2 Pit Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253031 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8NE (E)	786	1	303032 515648

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	BGS Recorded Mineral Sites Site Name: Henry Pit Location: Keekle, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147951 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	A9SW (W)	753	1	300930 515890
131	BGS Recorded Mineral Sites Site Name: Holebeck Iron Ore Mine, Pit No. 2 Location: Cleator Moor, Cumberland Source: British Geological Survey, National Geoscience Information Service Reference: 253030 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Not Supplied Geology: ! Commodity: Iron ore - Hematite Positional Accuracy: Located by supplier to within 10m	A8SE (E)	760	1	302986 515326
132	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine, Pit No. 4 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140662 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	A12SW (E)	760	1	302954 515828
133	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140646 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A3NW (S)	765	1	301983 514763
134	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine, Pit No. 1 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140671 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	A8NE (E)	784	1	303038 515520
134	BGS Recorded Mineral Sites Site Name: Birks Iron Ore Mine, Pit No. 1 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140671 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	A8NE (E)	784	1	303038 515520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	BGS Recorded Mineral Sites Site Name: Hope Pit Location: Keele, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147952 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A5SE (SW)	835	1	301090 515100
136	BGS Recorded Mineral Sites Site Name: Crosslacon Location: Frizington, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140643 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	A15SE (NE)	850	1	302625 516483
137	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, Dean'S Pit Location: Keele, 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	A5SW (SW)	870	1	300920 515270
138	BGS Recorded Mineral Sites Site Name: Todholes Quarries Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140647 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Frizington Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A3SW (S)	873	1	302022 514641
139	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery, No 1 Pit Location: Keele, 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	A5SW (SW)	883	1	300940 515210
140	BGS Recorded Mineral Sites Site Name: Whinny Hill Colliery Location: 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	A5NW (W)	956	1	300721 515644

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	BGS Recorded Mineral Sites Site Name: Jacktrees Pit Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140674 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	A2SE (S)	978	1	301779 514597
142	BGS Recorded Mineral Sites Site Name: Holebeck Iron Ore Mine, Pit No. 7 Location: Cleator Moor, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 140664 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	A8NE (E)	1000	1	303250 515625
	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.	A6NE (SW)	0	7	301958 515732
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (SW)	0	-	301958 515732
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A10SE (N)	0	-	301958 516000
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (S)	0	-	301958 515500
	Mining Instability Mining Evidence: Conclusive Iron Ore Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A6NE (SW)	0	-	301958 515732
	Man-Made Mining Cavities Easting: 301800 Northing: 515300 Distance: 317 Quadrant Reference: A6 Quadrant Reference: SE Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A6SE (S)	317	8	301800 515300
	Man-Made Mining Cavities Easting: 301500 Northing: 515300 Distance: 430 Quadrant Reference: A6 Quadrant Reference: SW Bearing Ref: SW Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A6SW (SW)	430	8	301500 515300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 301600 Northing: 515000 Distance: 672 Quadrant Reference: A2 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A2NW (SW)	672	8	301600 515000
	Man-Made Mining Cavities Easting: 301500 Northing: 515000 Distance: 710 Quadrant Reference: A2 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A2NW (SW)	710	8	301500 515000
	Man-Made Mining Cavities Easting: 301400 Northing: 514900 Distance: 838 Quadrant Reference: A2 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A2NW (SW)	838	8	301400 514900
	Man-Made Mining Cavities Easting: 301700 Northing: 514600 Distance: 1000 Quadrant Reference: A2 Quadrant Reference: SE Bearing Ref: S Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology No Details Detail:	A2SE (S)	1000	8	301700 514600
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	1	302069 515694
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	0	1	302220 515581
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	22	1	302178 515734
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	31	1	302090 515756
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A10SE (N)	57	1	301948 516070
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A11SW (E)	83	1	302145 515807
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	103	1	301904 515462
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	104	1	301929 515464

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	114	1	301864 515489
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	116	1	301735 515546
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	125	1	301738 515535
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	132	1	301732 515530
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	158	1	301729 515503
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	189	1	302300 515320
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	229	1	301549 515503
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	302012 515797
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (NW)	246	1	301751 516225
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	302012 515797
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	25	1	301892 515574
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NW (SE)	46	1	302248 515454
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	246	1	301754 516227
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (S)	113	1	301864 515489
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	141	1	301731 515521
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	151	1	301730 515511
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7SW (SE)	189	1	302300 515320
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	1	302012 515797
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (N)	27	1	301896 516059
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A10NE (N)	246	1	301754 516227
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NE (SW)	0	1	301958 515732
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SE (N)	27	1	301896 516059
	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	A6NE (SW)	0	1	301958 515732
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A7NW (E)	0	1	302176 515675
	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	A6NE (SW)	0	1	301958 515732
	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	A7NW (E)	0	1	302176 515675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	Contemporary Trade Directory Entries Name: Fellview Garden Ornaments Location: Birks Rd, Cleator Moor, Cumbria, CA25 5HU Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SE)	2	-	302252 515525
144	Contemporary Trade Directory Entries Name: Klm Location: Unit 16, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Garden Ornament Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	53	-	301738 515612
145	Contemporary Trade Directory Entries Name: Alan Dick Engineering Ltd Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (W)	73	-	301634 515634
145	Contemporary Trade Directory Entries Name: Mothersill Engineering Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NW (W)	75	-	301615 515656
145	Contemporary Trade Directory Entries Name: Travis Perkins Plc Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A6NE (SW)	107	-	301651 515587
146	Contemporary Trade Directory Entries Name: C B Autos Location: Unit 20B Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	79	-	301798 515560
146	Contemporary Trade Directory Entries Name: Sneckyeat Garage Location: Unit 20B Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	79	-	301798 515560
147	Contemporary Trade Directory Entries Name: Cumbria Fabrications Location: 8 Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Metal Products - Fabricated Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	86	-	301685 515596
148	Contemporary Trade Directory Entries Name: Spencer Associates International Location: Unit 11, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Precision Engineers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	87	-	301842 515533
149	Contemporary Trade Directory Entries Name: Upholstery Service Location: Plot 2 The Old Brewery, Birks Road, Cleator Moor, CA25 5HU Classification: Seating Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (E)	103	-	302315 515631
150	Contemporary Trade Directory Entries Name: Rudhalls Location: Birks Road, Cleator Moor, Cumbria, CA25 5HU Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (E)	117	-	302310 515666
150	Contemporary Trade Directory Entries Name: Ross & Mason Location: Birks Road, Cleator Moor, Cumbria, CA25 5HU Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (E)	156	-	302342 515686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	Contemporary Trade Directory Entries Name: Bespoke Backdrops Location: Unit 15f Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Photographic Equipment & Supplies - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A6NW (W)	128	-	301576 515616
151	Contemporary Trade Directory Entries Name: Solway Engineering Location: Unit C15, Leconfield Ind Est, Cleator Moor, Cumbria, CA25 5QB Classification: Engineers - General Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NW (W)	133	-	301560 515636
152	Contemporary Trade Directory Entries Name: Brannan Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QE Classification: Thermometers & Thermostats Status: Active Positional Accuracy: Automatically positioned to the address	A6NW (W)	260	-	301471 515538
153	Contemporary Trade Directory Entries Name: Capalex Location: Leconfield Industrial Estate, Cleator Moor, Cumbria, CA25 5QB Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NW (SW)	284	-	301549 515438
154	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	A6NW (W)	348	-	301391 515499
155	Contemporary Trade Directory Entries Name: Optilon (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	A6NW (W)	356	-	301354 515550
156	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	A6SW (SW)	364	-	301473 515391
157	Contemporary Trade Directory Entries Name: Station Yard Garage Location: Station Yard, High Street, Cleator Moor, Cumbria, CA25 5AA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (SW)	401	-	301747 515232
157	Contemporary Trade Directory Entries Name: S A Miller Location: Station Yard, High Street, Cleator Moor, Cumbria, CA25 5AA Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (SW)	401	-	301747 515232
157	Contemporary Trade Directory Entries Name: Millers Garage Location: Station Yard, High Street, Cleator Moor, CA25 5AA Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (SW)	403	-	301747 515230
158	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	A6SW (SW)	416	-	301368 515416
159	Contemporary Trade Directory Entries Name: Brush Strokes Location: A, 75, High Street, Cleator Moor, Cumbria, CA25 5BL Classification: Wallpapers & Wall Coverings Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	432	-	301848 515154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	Contemporary Trade Directory Entries Name: Adair Hardware Location: 77, High Street, Cleator Moor, Cumbria, CA25 5BL Classification: Hardware Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6SE (S)	433	-	301859 515148
160	Contemporary Trade Directory Entries Name: Cleator Moor Auto & Body Repairs Location: Wyndham Street, Cleator Moor, CA25 5AN Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NW (S)	436	-	302105 515071
161	Contemporary Trade Directory Entries Name: North Press Location: 3-5, Jacktrees Road, Cleator Moor, CA25 5BD Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A2NE (S)	497	-	301899 515063
162	Contemporary Trade Directory Entries Name: Bethwaites Printers Location: 14, Ennerdale Road, Cleator Moor, Cumbria, CA25 5LD Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NW (S)	504	-	302146 514993
163	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	A6SW (SW)	519	-	301456 515222
164	Contemporary Trade Directory Entries Name: S H Pickthall Location: Aldby Lane, Cleator Moor, Cumbria, CA25 5DH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NE (SE)	542	-	302375 514971
165	Contemporary Trade Directory Entries Name: E C & J A Cook Location: Aldby Garage, Aldby Lane, Cleator Moor, Cumbria, CA25 5DH Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A3NW (S)	560	-	302261 514933
166	Contemporary Trade Directory Entries Name: Lushes Lakeland Sausage Location: Phoenix Ct, The Sq, Cleator Moor, Cumbria, CA25 5PT Classification: Sausage Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A2NE (S)	582	-	301940 514964
166	Contemporary Trade Directory Entries Name: Willi Nilli Location: Unit 4, Cleator Moor Business Centre, Phoenix Court, The Square, Cleator Moor, Cumbria, CA25 5PT Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NE (S)	607	-	301949 514936
166	Contemporary Trade Directory Entries Name: S A W H Electronics Location: Unit 2, Cleator Moor Business Centre, Phoenix Court, The Square, Cleator Moor, CA25 5PT Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NE (S)	608	-	301948 514935
167	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	A6SW (SW)	601	-	301418 515149

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	Contemporary Trade Directory Entries Name: H J Timmins Location: Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NE (S)	624	-	301905 514930
168	Contemporary Trade Directory Entries Name: Adairs Autos Location: Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Garage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A2NE (S)	664	-	301855 514903
168	Contemporary Trade Directory Entries Name: Earl Street Mobility Location: Earl House, Earl Street, Cleator Moor, Cumbria, CA25 5AU Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A2NE (S)	668	-	301883 514891
169	Contemporary Trade Directory Entries Name: Premier Pallets Location: Ennerdale Rd, Cleator Moor, Cumbria, CA25 5DH Classification: Pallets, Crates & Packing Cases Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A3NE (SE)	687	-	302343 514815
170	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	A9SE (W)	721	-	300954 515771
171	Contemporary Trade Directory Entries Name: D C Cleaning & Property Maintenance Location: Unit 8 Phoenix Court, Cleator Moor Business Centre, Cleator Moor, Cumbria, CA25 5PE Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A3SW (S)	753	-	302112 514746
172	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	A6SW (SW)	418	-	301368 515414

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Copeland Borough Council - Environmental Health Department	June 2020 September 2017	Annually Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2021	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	July 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control Copeland Borough Council - Environmental Health Department	February 2015	Variable
Local Authority Pollution Prevention and Controls Copeland Borough Council - Environmental Health Department	February 2015	Not Applicable
Local Authority Pollution Prevention and Control Enforcements Copeland Borough Council - Environmental Health Department	February 2015	Variable
Nearest Surface Water Feature Ordnance Survey	June 2021	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region	June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - North Area	July 2021	Quarterly
Water Abstractions Environment Agency - North West Region	July 2021	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
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	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	July 2021	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	May 2021	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - North Area	July 2021	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	July 2021	Quarterly
Local Authority Landfill Coverage Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	February 2003 February 2003	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	October 2018 October 2018	
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	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Planning Hazardous Substance Consents Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2021	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2021	Quarterly
Gas Pipelines National Grid	May 2021	Annually
Underground Electrical Cables National Grid	May 2021	Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Copeland Borough Council - Planning Lake District National Park	October 2020 October 2020	Quarterly Quarterly
Areas of Unadopted Green Belt Copeland Borough Council - Planning Lake District National Park	October 2020 October 2020	Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	January 2021	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually
World Heritage Sites Historic England	May 2021	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Copeland Borough 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	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Cumbria County Council - Economy And Environment Department Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Historic England 1 Waterhouse Square, 138 - 142 Holborn, London, EC1N 2ST	Telephone: 0370 333 0607 Email: customers@historicengland.org.uk Website: www.historicengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

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
- 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

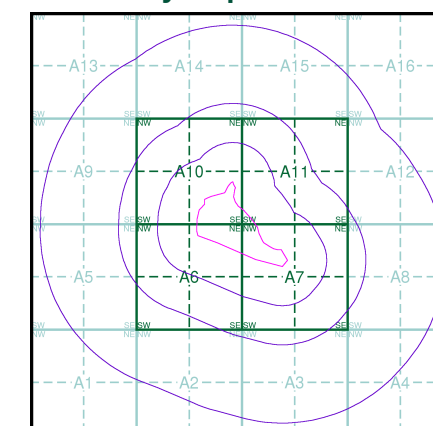
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A

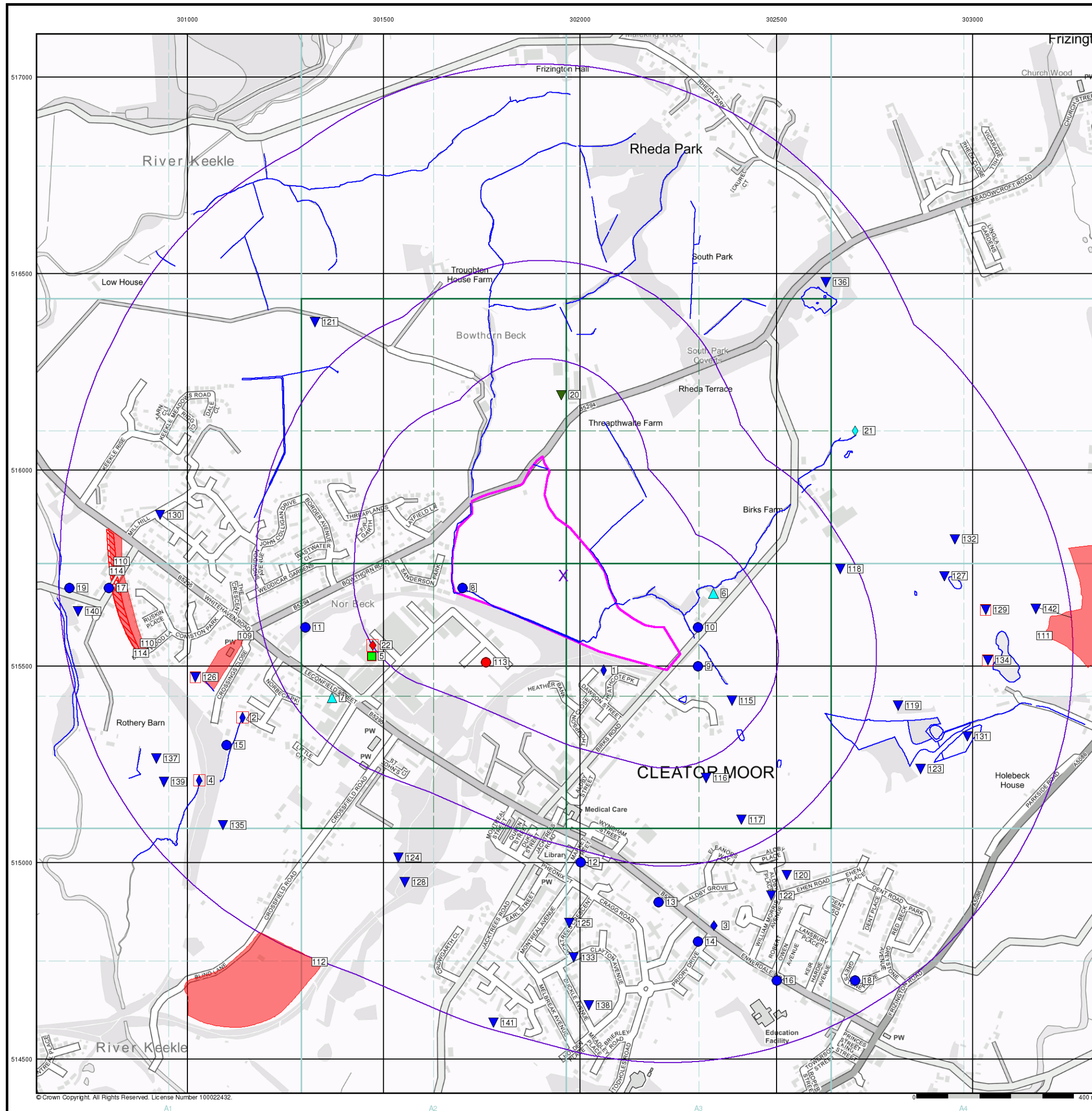


Order Details

Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW





Industrial Land Use Map

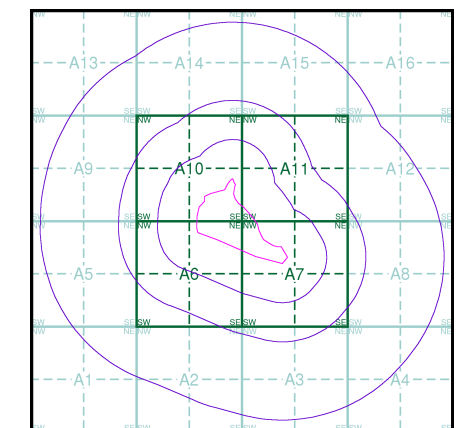
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

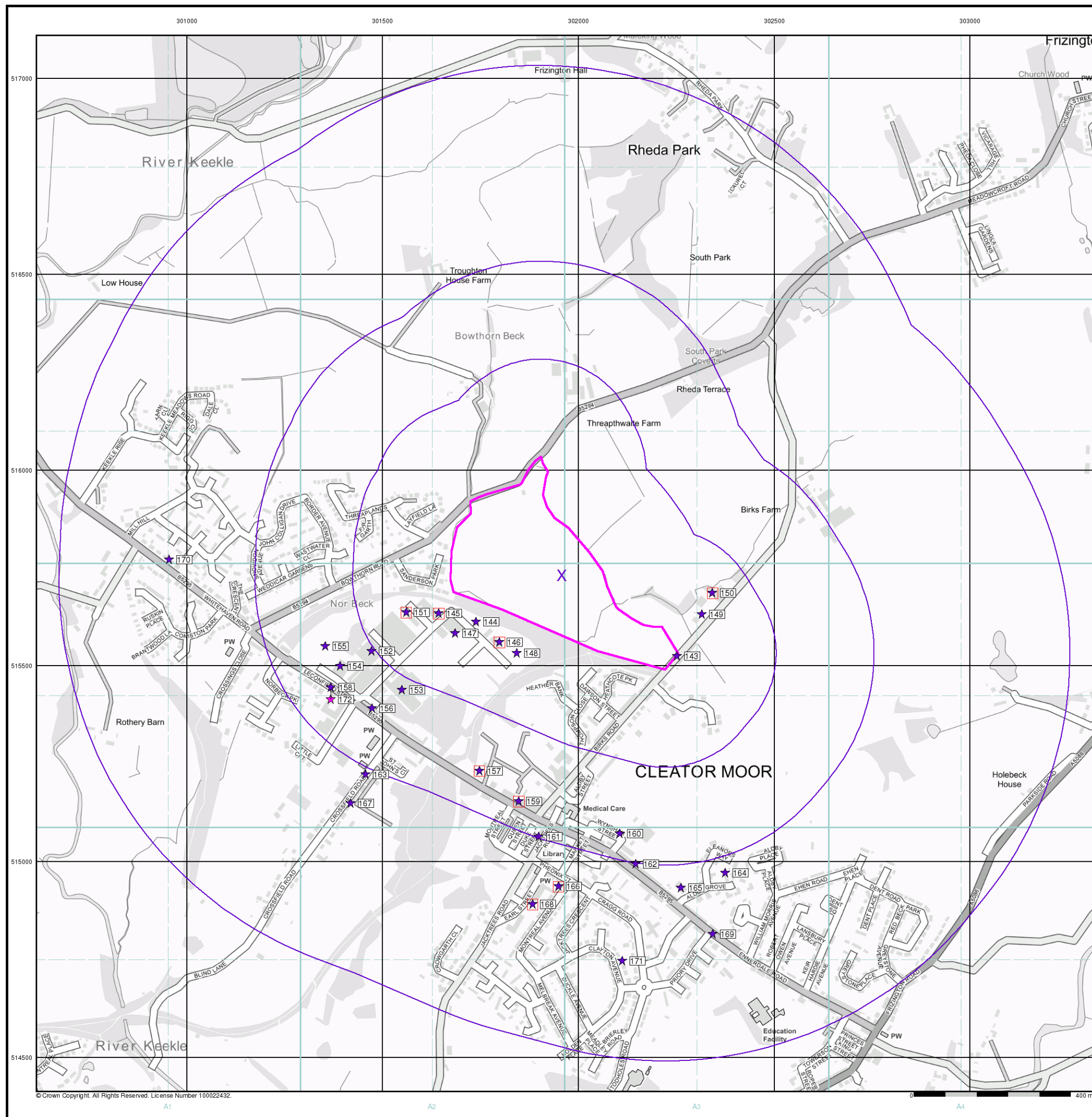
Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301960, 515730
Slice: A
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

Landmark
INFORMATION GROUP

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



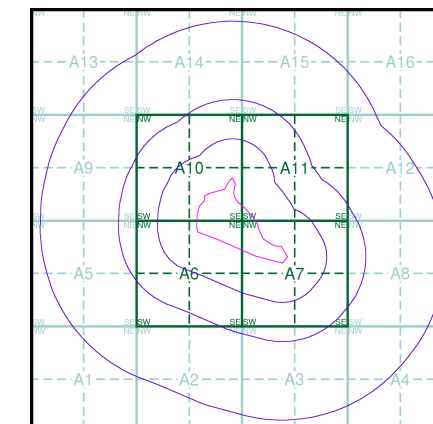
General

- 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: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



General

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

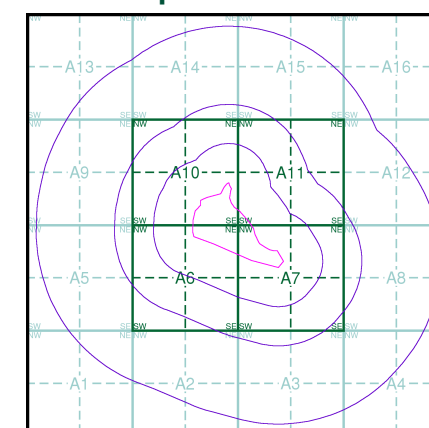
Agency and Hydrological (Boreholes)

-  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

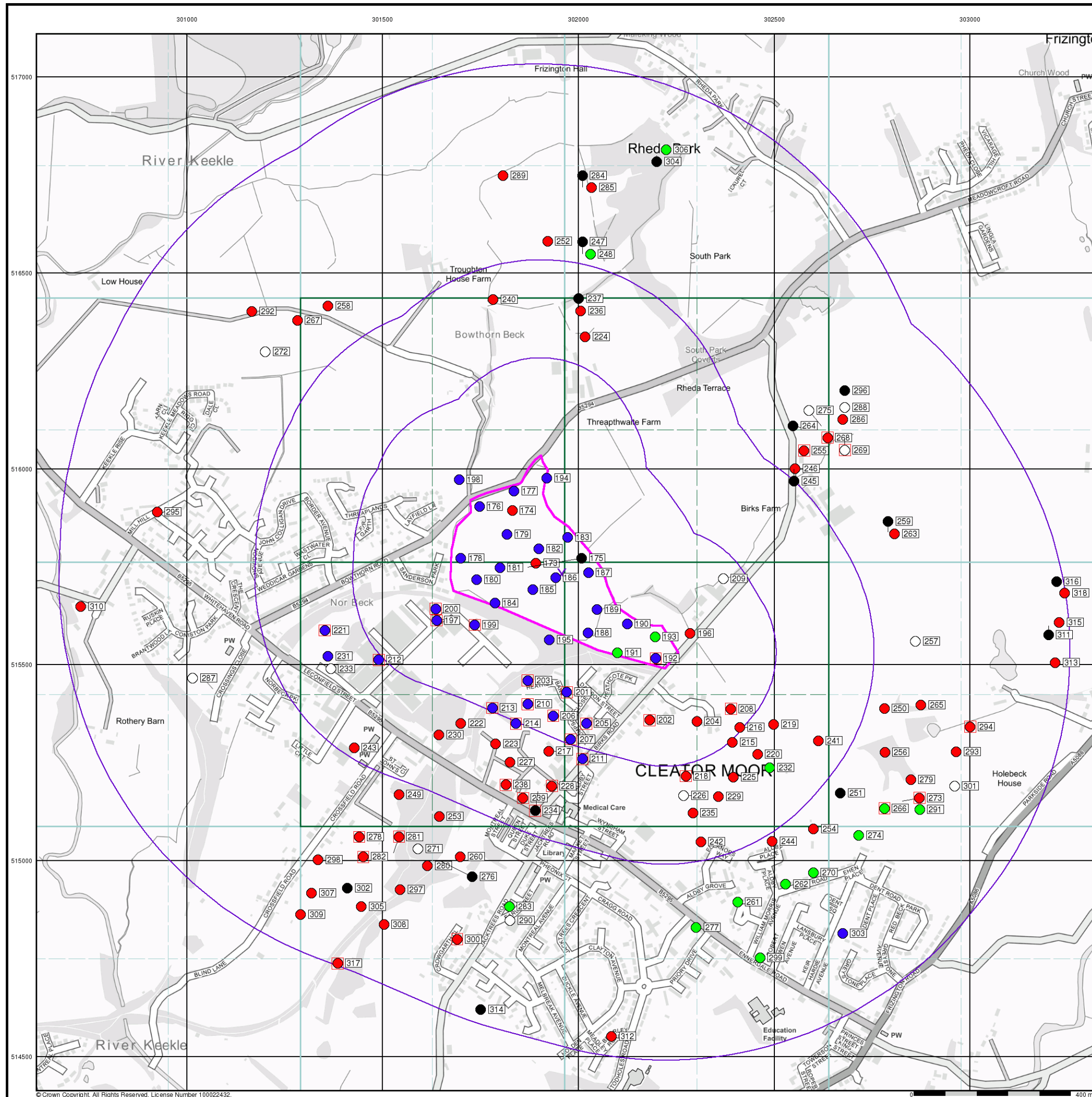


Order Details

Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



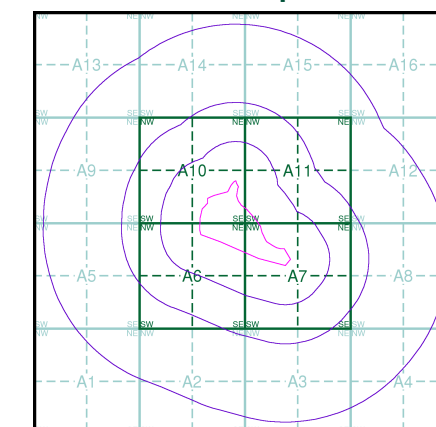
General

-  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 |

OS Water Network Map - Slice A

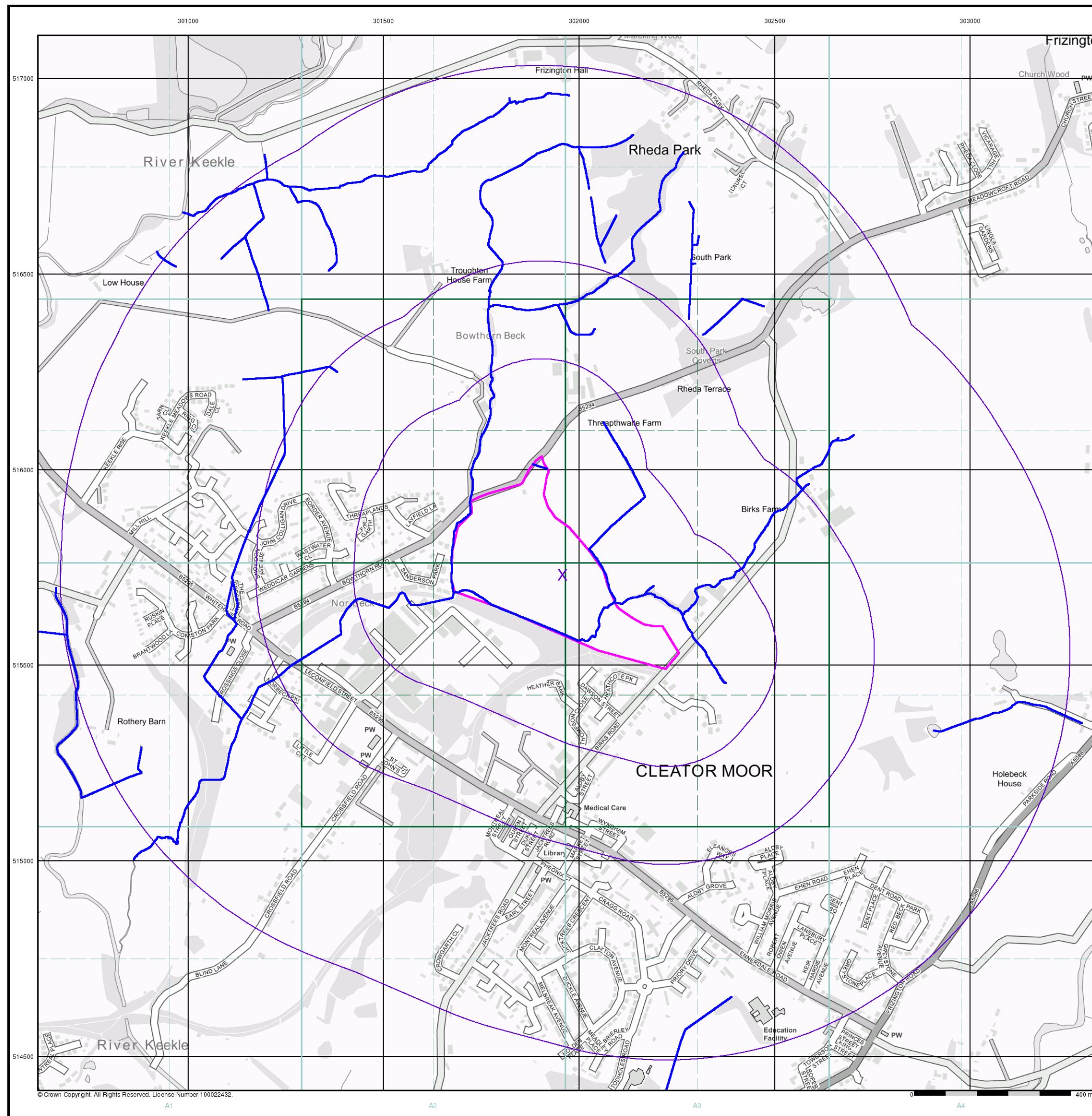


Order Details

Order Number: 283883620_1_1
 Customer Ref: S210806
 National Grid Reference: 301960, 515730
 Slice: A
 Site Area (Ha): 13.1
 Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW



Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr R Woods, Solmek Ltd, 12 Yarm Road, Stockton on Tees, Cleveland, TS18 3NA

Order Details

Order Number: 283883620_1_1
Customer Ref: S210806
National Grid Reference: 301920, 515730
Site Area (Ha): 13.1
Search Buffer (m): 1000

Site Details

Flat, 73A, High Street, CLEATOR MOOR, CA25 5BW

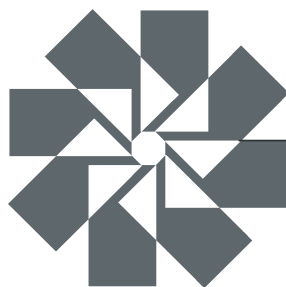
Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>

Appendix D Coal Mining Report

David Bellis Consulting Surveyors
Ltd
8, Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH

(DX 720352 Harrogate)

T: 01423 529911 F: 01423 529922
E: contact@coalsearch.plus.com
W: www.coalsearch.plus.com



COAL SEARCH PLUS+
Protecting your investment

By

David Bellis
CONSULTING SURVEYORS

Regulated Coal Mining Search Report

Incorporating Cheshire Brine Screening



SITE LOCATION AND COAL MINING FEATURE PLAN

ADDRESS: Site B, Cleator Moor, CA25 5JZ

SEARCH NUMBER: 440386



Ordnance Survey Copy License Number 100014904

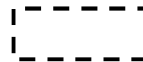
Contains Ordnance Survey data © Crown copyright and database right 2021

KEY

Property Boundary



50m property boundary buffer



Coal mining subsidence claims
within 50m (section 7)



Mine entries within 20m (section 5)

Adits



Shafts



Symbols are indicative only and are not drawn to scale. Do not scale from this plan.

World Topographic Map - Sources: Esri, HERE, Garmin, Intermap, Increment P Corp, GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

This plan shows the location of the subject property and where relevant the location of mine entries and subsidence claims referred to in the attached CoalSearchPlus+ regulated coal mining search report. The plan must be viewed in conjunction with the detailed findings in the attached report. A coal mining risk rating, including recommended further action where appropriate, is given at the conclusion of the report. (section 8)

This plan shows reportable features relevant to the property only. Additional relevant coal mining aspects are reported upon within the report. The report and content of this plan are specific to the property under consideration. The report contents should not be used in relation to other property in the area.

Mine entries are reported if they are located within the property boundary or within 20m of it. (see report section 5 for detail)

Coal mining subsidence claims, made since 31st October 1994 and recorded by The Coal Authority, are reported for the subject property or property located within 50m of its boundary. Records of claims prior to this date are not normally retained by The Coal Authority and will not be reported. (see report section 7 for details)

Property owners have the benefit of the protection of the Coal Mining Subsidence Act 1991* in the event of the occurrence of damage from disused coal mine workings including from disused coal mine entries.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused shafts and adits). The emergency telephone number at all times is (01623) 646333. If you have any questions or queries regarding the content of this coal mining report please contact David Bellis Consulting Surveyors Ltd.

* Note The Coal Mining Subsidence Act 1991 does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester

Serial Number 440386

Client detail :

Solmek
(Site Investigations) Ltd
12 Yarm Road
Stockton on Tees
Cleveland
TS18 3NA

CoalSearchPlus+ by David Bellis Consulting
Surveyors Ltd
8 Mornington Terrace
Harrogate
North Yorkshire
HG1 5DH
(DX 720352 Harrogate)

Tel 01423 529911
Fax 01423 529922

Search produced by M J Peace

Property details:

Site B
Cleator Moor
CA25 5JZ

Your ref : SOL5333 S210805**Purchaser :****Vendor :**

In accordance with your instructions received 23 Aug 2021 we have inspected plans and records of coal mine workings and have made enquiries with respect to Cheshire brine extraction in relation to the above property and can report as follows :

1. SEAM DETAILS FOR PAST UNDERGROUND COAL MINING : In relation to the property the undermentioned seam(s) have been worked within the likely zone of physical influence on the surface.

Seam	Depth (m)	Sect (cm)	Date	Remarks
Bannock	63	180	Pre 1900	Adjacent
Main	83	339	Pre 1900	Adjacent

2. SEAM DETAILS FOR CURRENT AND FUTURE UNDERGROUND COAL MINING : The undermentioned seam(s) are currently being worked, or licenses to work are being determined, or have been granted to work, within the likely zone of physical influence on the surface in relation to the property.

Seam	Depth (m)	Sect (cm)	Date	Remarks
				Coal in reserve - no workings currently planned.

3. UNDERLYING GEOLOGY :

The property is situated in an area of Drift over Sandstones over Coal Measures.

Conjectured surface faulting.

Serial Number 440386

4. OPENCAST COAL MINING :

Past Opencast Workings : The property is not situated within the boundary of a former opencast coal mining site.

Present Opencast Workings : The property is not situated within 200m of the boundary of a currently operating opencast coal mining site.

Future Opencast Workings : The property is not situated within 800m of the boundary of an opencast site for which a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

5. MINE ENTRIES, MINE GAS, SURFACE HAZARDS AND ADDITIONAL INFORMATION :

The Coal Authority licensed Mine Entry dataset shows no evidence of any shafts or adits within 20 metres of the property or the boundary of the property.

There are no tips or lagoons in the vicinity of the Property.

There are possible workings in minerals other than coal.

The Coal Authority licensed Mine Gas dataset shows no record of mine gas emissions within the property or the property boundary requiring action.

The Coal Authority licensed Coal Mining Related Hazards dataset shows that the property has not been subject to remedial works by the Coal Authority, or its representatives, under the Coal Authority Emergency Surface Hazard Call Out Procedures.

6. NOTICES IN RELATION TO FUTURE COAL MINING ACTIVITY :

We have no knowledge of any intention to work coal by underground methods within influencing distance on the surface in the vicinity of the property for which section 46 notices have been issued under the Coal Mining Subsidence Act 1991.

7. PAST COAL MINING RELATED SUBSIDENCE :

A review of the records held by the Coal Authority has shown no evidence of coal mining related subsidence claims in relation to the subject property since 31st October 1994. This is the period for which records are held by the Coal Authority.

8. CONCLUSION (COAL MINING) : In the light of the above facts we conclude that in relation to coal mining :

Old workings are present but all settlement is likely to have completed long ago.
In our opinion it is unlikely that coal will be worked in the foreseeable future.

COAL MINING RISK LEVEL : We recommend that the transaction is treated as :

Serial Number 440386

Where this report is to be used for development purposes particular attention is drawn to the paragraphs below concerning the ownership of in situ coal, coal workings and the risks from mine gases.

Please note that the overall coal mining risk level above is based upon an assessment of the detailed information contained in the body of the report. The risk assessment must be used in conjunction with the detailed report.

If development of the property is being considered then all necessary enquiries and investigations should be completed prior to the commencement of works to ensure that proposals follow good engineering practice for development in mining areas. The Coal Authority has ownership of in situ coal, coal mines (both current and disused) and coal mine shafts and adits. Activities that intersect, enter or disturb any of the Coal Authority's interests require the written permission of the Authority.

Any development proposals should consider risks to the development, or adjacent property, of generating or displacing underground gases where coal seams or former mining works are disturbed. The need for effective measures to prevent gasses entering public properties should be assessed and properly addressed. These actions are necessary due to the public safety implications of development in these circumstances.

CHESHIRE BRINE EXTRACTION INFORMATION :

The property lies outside the Cheshire Brine Compensation District as prescribed by the Cheshire Brine Pumping (Compensation for Subsidence) Act 1952.

With respect to coal mining there is nothing to prevent a claim being made under the provisions of the Coal Mining Subsidence Act 1991 and subsequent legislation, but it must not be inferred that the Coal Authority or their licensees will necessarily accept that any damage has been caused as a result of mining subsidence.

If you require any further information please contact CoalSearchPlus+ on 01423 529911 or via our website www.coalsearch.plus.com.

This report is prepared in accordance with the CoalSearchPlus+ terms and conditions as published on the CoalSearchPlus+ website (www.coalsearch.plus.com) on the date of issue of this report.

This is a Coal Mining Search Report and is not to be interpreted as being part of an Environmental Assessment of the property.

We cannot be held responsible for the accuracy of the information provided to us by third party organisations.

The information and/or material supplied is composed from data based in many cases on measurements and records of various standards of reliability and age. We cannot be held responsible for the accuracy of such information.

This search report is based upon the privately owned CoalSearchPlus+ mining record database, data supplied to CoalSearchPlus+ under license from the Coal Authority, and plans and records held by the Coal Authority and made publicly available at the time of inspection which may include British Geological Survey and Ordnance Survey data. Organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining (Subsidence) Act 1991 and the Coal Industry Act 1994.

This report contains Data provided by the Coal Authority. Any and all analysis and interpretation of the Coal Authority Data in this report is made by David Bellis Consulting Surveyors Ltd trading as CoalSearchPlus+, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be copyright of the Coal Authority and permission should be sought from David Bellis Consulting Surveyors Ltd prior to any re-use.

Serial Number 440386

Coal Authority Address : The Coal Authority, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, HG18 4RG
British Geological Survey Address : British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham NG12 5GG

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Coal Authority data supplied under license may contain Ordnance Survey information Crown Copyright © 100020315 [2021]

The information contained in this report relates to the property address given by the individual or organisation ordering the report. Where a plan indicating the property location and boundary is supplied with the instruction the report is based on that information. Where no plan is supplied the report is based on the property location as defined in publicly available mapping data. At all times it remains the responsibility of the instructing organisation or individual to define the boundary of the property.

Additional notes applicable to Residential Coal Mining Reports only:

David Bellis Consulting Surveyors Ltd is not aware of any personal or business relationship between the person conducting or preparing the search and any person involved in the sale of the property.

This report is a desk study of existing published geological and coal mining records, the CoalSearchPlus+ coal mining data base and data supplied under license by the Coal Authority. In order to compile this report enquiries have been made in relation to the following:

Past Coal Mining – the existence of any previously worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings,

A statement of shallow depth generally indicates records show that coal has been mined within 30m of the surface. In some circumstances coal classified as shallow may extend up to a depth of 50m.

A statement of moderate depth indicates records show that coal has been mined at between 30m and 500m depth.

A statement of 'at depth' indicates records show that coal has been mined at depths of over 500m.

Present Coal Mining - the existence of any currently worked seams of coal within influencing distance on the surface in relation to the property including an indication of the depth and age of the workings. The existence of coal that could be worked at some time in the future will be enquired into and detail of any relevant licenses disclosed where available.

Underlying Geology - the underlying geology of the property will be reviewed and briefly described in relation to coal mining.

Opencast Coal Mining - the existence of past present and future opencast coal mining, specifically :

- if the property is situated within the boundary of a former opencast site. In the case of old opencast workings it must be understood that the records are often unclear regarding the site boundary and or worked areas. Published records and data supplied under license by the Coal Authority will be reviewed to give our opinion of the existence of relevant former opencast coal workings.
- if the property is situated within 200m of the boundary of a currently operating opencast site.
- if the property is situated within 800m of the boundary of an opencast for which either a license to extract coal by opencast methods has been granted or a license to do so is currently being determined.

Mine Entries, Mine Gas, Surface Hazards and Additional Information – the existence of any mine entries within 20m of the property or the boundary of the property and its associated land and buildings (the definition of the boundary of the property is the responsibility of the individual or organisation ordering this report). Where a mine entry is found to exist the approximate location of the mine entry will be indicated on a plan. The existence of unworked coal will be enquired into and our opinion regarding the likelihood of it being worked at some time in the past will be given where relevant.

It will be reported if mine gas emissions relating to the property are recorded by The Coal Authority.

It will be reported if The Coal Authority has carried out work in relation to the property after a report of an alleged coal mining related hazard under the Coal Authority's Emergency Hazard Call Out procedures.

Any other relevant coal mining related features discovered will be noted.

Notices in relation to future coal mining activity – the existence of notices indicating an intention to work coal by underground methods in the future.

Past coal mining related subsidence – report if The Coal Authority licensed Claim Dataset shows record of a coal mining subsidence claim having been reported on the subject property or any other property within 50m of the boundary of the subject property since 31st October 1994. Where available claim detail information will be given for claims on the subject property only.

Coal Mining Risk Level – the opinion of David Bellis Consulting Surveyors Ltd of the risk posed to the property from coal mining given all the information contained in the report. The risk to the property is given in relation to the majority of the housing stock in the immediate area.

Cheshire Brine – the location of the property in relation to the Cheshire Brine Compensation District.

Additional information, including answers to many frequently asked questions, can be found on the CoalSearchPlus+ website, www.coalsearch.plus.com

Complaints Procedure

David Bellis Consulting Surveyors Ltd is registered with the Property Codes Compliance Board as a subscriber to the Search Code. A key commitment under the Code is that firms will handle any complaints both speedily and fairly.

If you want to make a complaint, we will:

Serial Number 440386

- Acknowledge it within 5 working days of receipt.
- Normally deal with it fully and provide a final response, in writing, within 20 working days of receipt.
- Keep you informed by letter, telephone or e-mail, as you prefer, if we need more time.
- Provide a final response, in writing, at the latest within 40 working days of receipt.
- Liaise, at your request, with anyone acting formally on your behalf.

Complaints should be sent to:

Mr M. Peace, Director, David Bellis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, North Yorkshire, HG1 5DH
Tel : 01423 529911 Fax : 01423 529922 Email : contact@coalsearch.plus.com

If you are not satisfied with our final response, or if we exceed the response timescales, you may refer the complaint to The Property Ombudsman scheme (TPOs):

Tel: 01722 333306, Website: www.tpos.co.uk, E-mail: admin@tpos.co.uk

We will co-operate fully with the Ombudsman during an investigation and comply with his final decision.

Date : 31 Aug 2021

Signed :



Serial Number 440386**Important Consumer Protection Information**

This search has been produced by David Belis Consulting Surveyors Ltd, 8 Mornington Terrace, Harrogate, HG1 5DH (T: 01423 529911, F: 01423 529922, E: contact@coalsearch.plus.com) which is registered with the Property Codes Compliance Board (PCCB) as a subscriber to the Search Code. The PCCB independently monitors how registered firms maintain compliance with the Code.

The Search Code:

- provides protection for homebuyers, sellers, estate agents, conveyancers and mortgage lenders who rely on the information included in property search reports undertaken by subscribers on residential and commercial property within the United Kingdom
- sets out minimum standards which firms compiling and selling search reports have to meet
- promotes the best practice and quality standards within the industry for the benefit of consumers and property professionals
- enables consumers and property professionals to have confidence in firms which subscribe to the code, their products and services.

By giving you this information, the search firm is confirming that they keep to the principles of the Code. This provides important protection for you.

The Code's core principles

Firms which subscribe to the Search Code will:

- Display the Code logo prominently on their search reports.
- Act with integrity and carry out work with due skill, care and diligence.
- At all times maintain adequate and appropriate insurance to protect consumers.
- Conduct business in an honest, fair and professional manner.
- Handle complaints speedily and fairly.
- Ensure that all products and services comply with industry registration rules and standards and relevant laws.
- Monitor their compliance with the Code.

Complaints

If you have a query or complaint about your search, you should raise it directly with the search firm, and if appropriate ask for any complaint to be considered under their formal internal complaints procedure. If you remain dissatisfied with the firm's final response, after your complaint has been formally considered, or if the firm has exceeded the response timescales, you may refer your complaint for consideration under The Property Ombudsman scheme (TPOs). The Ombudsman can award up to £5,000 to you if the Ombudsman finds that you have suffered actual financial loss and/or aggravation, distress or inconvenience as a result of your search provider failing to keep to the Code.

Please note that all queries or complaints regarding your search should be directed to your search provider in the first instance, not to TPOs or to the PCCB.

TPOs Contact Details:

The Property Ombudsman scheme
Milford House
43-55 Milford Street
Salisbury
Wiltshire SP1 2BP
Tel: 01722 333306
Fax: 01722 332296
Website: www.tpos.co.uk
Email: admin@tpos.co.uk

You can get more information about the PCCB from www.propertycodes.org.uk.

PLEASE ASK YOUR SEARCH PROVIDER IF YOU WOULD LIKE A COPY OF THE SEARCH CODE

Serial Number 440386**David Bellis Consulting Surveyors Ltd and CoalSearchPlus+ Terms and Conditions (Available in large print by request)**

1. Definitions.
 - a) The Service Provider is David Bellis Consulting Surveyors Ltd, trading as CoalSearchPlus+.
 - b) The Applicant is the Individual, Organisation, or appointed officer of said Organisation placing a Request with the Service Provider.
 - c) The Third Party Provider is any Organisation from which the Service Provider obtains data and/or information on behalf of the Applicant in the normal course of fulfilling the Applicants Request.
 - d) The request is a formal Request by the Applicant with CoalSearchPlus+ to retrieve specific data and/or information.
2. CoalSearchPlus+ accept Requests only on the basis that the Applicant is acting as a principal and is directly liable for payment of our invoice or account.
3. It is the policy of CoalSearchPlus+ to observe confidentiality with regard to the identity and affairs of our customers to the extent permitted by law, but, in common with other service providers, we may be required exceptionally to disclose information to governmental and other public authorities.
4. The placing of a Request by the Applicant with CoalSearchPlus+ confirms acceptance of these terms and conditions.
5. Any Order Form produced by CoalSearchPlus+, either printed or published on the CoalSearchPlus+ website, is an invitation to treat. The Applicant makes an offer to buy from CoalSearchPlus+ by the submission of a Request, subject to clause 10. Acceptable modes of transmission for a Request are facsimile (fax), telephone, electronic mail(e-mail), online transmission via the CoalSearchPlus+ website only, Document Exchange (DX), Royal Mail or courier appointed by the Applicant.
6. Orders will be accepted on order forms other than CoalSearchPlus+ forms however these will be accepted under the standard CoalSearchPlus+ terms and conditions only, subject to Clause 10.
7. CoalSearchPlus+ reserves the right to refuse any Request.
8. CoalSearchPlus+ reserves the right to cancel any Request at any time.
9. Proof of transmission of a Request by the Applicant does not constitute proof of receipt by CoalSearchPlus+.
10. It is the responsibility of the Applicant to ensure the accuracy, legibility, clarity and completeness of all data and/or information provided to CoalSearchPlus+ as part of the Request, including but not limited to, names, numbers, addresses, location plans, and boundary plans. This applies whether the Request is submitted on CoalSearchPlus+ order forms either printed or published on the CoalSearchPlus+ website or on the Applicants own order form.
11. CoalSearchPlus+ may request additional relevant data and/or information from the Applicant in the course of fulfilling a Request, including, but not limited to, names, numbers, addresses, location plans, and boundary plans.
12. CoalSearchPlus+ may request clarification of data and/or information supplied by the Applicant.
13. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified, CoalSearchPlus+ cannot be held responsible for any resultant loss or delay.
14. If, subsequent to Clause 11. and/or Clause 12., requested data and/or information is not provided and/or clarified within a reasonable period of time, CoalSearchPlus+ reserves the right to cancel the Request in whole or in part. The Applicant remains liable for all fees, Taxes and Disbursements accrued prior to the cancellation.
15. CoalSearchPlus+ reserves the right to subcontract data and/or information retrieval to selected Organisations and/or Individuals. CoalSearchPlus+ is not required to reveal the identity of its Subcontractors.
16. CoalSearchPlus+ will, in the process of fulfilling the request, retrieve data and/or information from publicly and/or commercially available sources and the CoalSearchPlus+ mining database. The sources of data used will primarily be data held by The Coal Authority under an agreement with the Health and Safety Executive, data owned by the British Geological Survey and the CoalSearchPlus+ database.
17. A CoalSearchPlus+ mining report is a report of the interpretation of the data sources in 16. made by CoalSearchPlus+ staff.
18. CoalSearchPlus+ coal mining search reports are based upon the plans and records available from data sources detailed in 16. at the time the report was produced. It should be understood that third party organisations reserve the right to vary their proposals and intentions as to their future mining operations without prior notice save as provided in the Coal Mining Subsidence Act 1994. CoalSearchPlus+ cannot be held responsible for changes to the future proposals and intentions of Third Parties.
19. The information and/or material supplied in a CoalSearchPlus+ coal mining report is composed from data based, in many cases, on measurements and records of various standards of reliability and age. In some instances (usually relating to older records) it is necessary for CoalSearchPlus+ to make assumptions regarding the 'best plot' position of mining features. For these reasons users of CoalSearchPlus+ reports should take the position of mining features detailed in reports to be indicative only.
20. The data and/or information that a coal mining search report is based on is constantly being updated. A CoalSearchPlus+ coal mining search report is based on the most up to date information available at the time that the report is produced however it cannot be guaranteed that the information and/or data will not become obsolete at some time in the future. Responsibility for the supply of accurate and up to date information to CoalSearchPlus+ lies with the data supplying organisations listed in 16.
21. A CoalSearchPlus+ coal mining search report relates only to coal mining and minerals worked in relation to coal mining. Other reports may be required in relation to other minerals.
22. A CoalSearchPlus+ coal mining search report is not a substitute for site investigation or a mining survey. Depending on the content of a coal mining search report, or whether development is intended, the Applicant must decide whether a site investigation or mining survey is required.
23. CoalSearchPlus+ coal mining reports comply with the Search Code.

Serial Number 440386

24. All CoalSearchPlus+ reports are covered by professional indemnity insurance. The content of CoalSearchPlus+ coal mining search reports does not prevent any future claim being made by the Applicant against the Coal Authority in respect of coal mining related subsidence.
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26. All CoalSearchPlus+ coal mining search reports give the information detailed in the services section of the CoalSearchPlus+ website and summarised in the report. Further explanation of this information is available in the Glossary and/or the Frequently Asked Questions areas of the CoalSearchPlus+ website. Alternatively contact CoalSearchPlus+ who will be happy to explain the content of a report.
27. The Request is fulfilled when all reports, data and/or information requested by the Applicant have been retrieved and/or compiled by CoalSearchPlus+ and delivered by electronic mail (e-mail) or fax or post or document exchange (DX) or a combination of these methods as required by the Applicant. Alternative delivery arrangements are at the discretion of CoalSearchPlus+.
28. If Requests for multiple reports, data and/or information relating to multiple addresses were made on a single order form these will be fulfilled individually by the delivery of the reports, data and/or information relating to each individual address being treated as an individual Request.
29. CoalSearchPlus+ is not responsible for any loss or misdelivery of retrieved data and/or information caused by failure of Document Exchange (DX), Royal Mail or internet service provider. Most retrieved data and/or information is archived by CoalSearchPlus+ and a copy may be requested by the Applicant. If the data and/or information could not be archived CoalSearchPlus+ reserves the right to treat the request as a new Request.
30. Delivery, by whatever agreed means, will be accompanied by an invoice. Delivery by electronic mail may be followed up with a paper invoice by post or DX. Where Applicants have agreed account facilities with CoalSearchPlus+ invoicing may be on a monthly basis. In all cases the Applicant agrees to provide CoalSearchPlus+ with remuneration for the full amount shown on the invoice, including all Fees, Taxes and Disbursements.
31. The Applicant will be liable for payment of the full invoice amount within 14 days from the date of receipt of the invoice. CoalSearchPlus+ reserve the right to charge for costs and expenses incurred in recovering late payments and to charge interest at the rate of 8% above the Bank of England base rate per annum for the full period that the payments are overdue.
32. Where full payment of the invoice is not made by the Applicant within 14 days from receipt of the invoice CoalSearchPlus+ reserve the right to withdraw account facilities from the Applicant and cancel any individual agreements concerning fees or other Terms and Conditions that may have been made between the Applicant and CoalSearchPlus+.
33. Where possible the Applicant will receive Advance Notice of the cost of the Request, including all Fees, Taxes and Disbursements, prior to receipt of the invoice. This advance notice will take the form of the price for the service requested as published on the CoalSearchPlus+ website, or the price as individually agreed between CoalSearchPlus+ and the Applicant.
34. Additional Fees, Taxes and Disbursements may arise during the course of data and/or information retrieval, over and above Advance Notice costs as in clause 33. The Applicant is liable for any such additional costs. Where possible, the Applicant is notified of additional costs prior to fulfilment of the Request.
35. If the Applicant shall pay in advance of receipt of the invoice, then the Applicant remains liable for any underpayment.
36. Any overpayment on the part of the Applicant will be refunded. Arrangements for refunds are agreed on a case-by-case basis, through discussion between CoalSearchPlus+ and the Applicant.
37. The Applicant may cancel the Request in whole or in part at any time prior to Clause 27.
38. If the Applicant cancels the Request in whole or in part prior to Clause 27, the Applicant remains liable for all Fees, Taxes and Disbursements already accrued prior to the Cancellation.
39. CoalSearchPlus+ accept no liability for any loss incurred by the Applicant or the Applicant's client where the Applicant is acting as an agent for a client, due to late fulfilment and delivery of the Request.
40. CoalSearchPlus+ accept no liability for any loss to the Applicant, or the Applicant's client where the Applicant is acting as an agent for a client, due to any negative outcome of a report provided in the process of the correct and accurate fulfilment of the Request.
41. Any disputes relating to the provision of coal mining search reports should be addressed to the Practice Principal, CoalSearchPlus+ in the first instance. Disputes will be settled according to the CoalSearchPlus+ complaints procedure detailed in each report.
42. Independent Dispute Resolution - If you make a complaint and we are unable to resolve it to your satisfaction you may refer the complaint to The Property Ombudsman scheme (website: www.tpos.co.uk email: admin@tpos.co.uk Tel: 01722 333306). We will cooperate fully with the Ombudsman during an investigation and comply with his final decision.
43. Third Party and subcontractor Terms and Conditions shall apply in addition to these clauses. Should any conflict arise between CoalSearchPlus+ Terms and Conditions and Third Party or Subcontractor Terms and Conditions, then CoalSearchPlus+ Terms and Conditions prevail unless and until CoalSearchPlus+ expressly states otherwise in writing and/or courts of England and Wales establish otherwise.
44. No variation to these Terms and Conditions is effective unless and until CoalSearchPlus+ expressly agrees in writing.
45. CoalSearchPlus+ reserves the right to alter these terms and conditions as appropriate, without notice, at any time. Such amended Terms and Conditions will become effective upon publication on the CoalSearchPlus+ website.
46. These Terms and conditions are subject to English Law and the exclusive jurisdiction of the courts of England and Wales.

Appendix E

BGS Borehole Scan

NM 01 NW / 355

NDC	GEOTECHNICAL CONSULTANTS		BORING METHOD(S)		CABLE PERCUSSION	BOREHOLE No 1	
			MACHINE(S)		PILCON 1000 (150mm)	SHEET No 1 of 1	
CONTRACT CLEATOR MOOR						CHAINAGE OFFSET CUT/FILL	

Daily Progress		Samples and In situ Tests		Ground Level		DESCRIPTION OF STRATA
Date	Ground Water	Levels B.G.L.	Type	Symbol	Depth	
14.11.78					78.94m AOD	
					0.40 78.54	TOP SOIL.
		0.60	U			Firm light brown partially organic sandy silty CLAY with grey silt veins.
					1.10 77.84	
		1.50	J			
		2.00	U			
						Stiff to very stiff reddish brown sandy silty CLAY with scattered fine to coarse gravel.
		3.70	W			
		4.00	N(50)*		4.00 74.94	Moderately weathered thinly bedded reddish grey fine grained moderately weak micaceous SANDSTONE.
4.5m	3.7m				4.50 74.44	End of Borehole.

REMARKS

Boulder obstruction between 2.80 and 4.00 metres B.G.L.

Water level at 1.80 metres B.G.L. after casing withdrawn.

* C.P.T. blow count for initial 50mm penetration.

Key	U=Undisturbed Sample	J=Hand Samples	B=Bulk Sample	=Casing Level	REPORT No
	W=Ground Water Sample	N=S/CPT 'N' Values	Δ=Water First Met	004/N/384	

Appendix F Contamination Guidelines

UK BACKGROUND

Environmental Protection Act 1990: Part 2A Revised Statutory Guidance (April 2012)

This revised document explains how the Local Authority should decide if land, based on a legal interpretation, is contaminated. The document replaces the previous guidance given in Annex 3 of DEFRA Circular 01/2006, issued in accordance with section 78YA of the 1990 Environmental Protection Act.

The main objectives of the Part 2A regime are to *“identify and remove unacceptable risks to human health and the environment”* and to *“seek to ensure that contaminated land is made suitable for its current use”*.

Part 2A uses a risk based approach to defining contaminated land whereby the “risk” is interpreted as *“the likelihood that harm, or pollution of water, will occur as a result of contaminants in, on or under the land”* and by *“the scale and seriousness of such harm or pollution if it did occur”*.

For a relevant risk to exist a contaminant, pathway and receptor linkage must be present before the land can be considered to be contaminated. The document explains that *“for a risk to exist there must be contaminants present in, on or under the land in a form and quantity that poses a hazard, and one or more pathways by which they might significantly harm people, the environment, or property; or significantly pollute controlled waters.”*

A conceptual model is used to develop and communicate the risks associated with a particular site.

To determine if land is contaminated the local authority use various categories from 1 to 4. Categories 1 and 2 include *“land which is capable of being determined as contaminated land on grounds of significant possibility of significant harm to human health.”*

Categories 3 and 4 *“encompass land which is not capable of being determined on such grounds”*.

PRELIMINARY CONCEPTUAL MODEL

Preliminary Conceptual Models are undertaken in accordance with CIRIA C552. The Preliminary Conceptual Model assesses the consequence and the likelihood of a risk being realised to provide a risk classification, using the tables detailed below.

CONSEQUENCE OF RISK BEING REALISED (Based on C552 CIRIA, 2001)

Classification	Definition	Example
Severe	Short-term (acute) risk to human health, the environment, an element of the development or other aspect with is likely to result in <i>significant harm</i> , damage or both.	High concentrations of cyanide on the surface of an informal recreational area. Major spills of contaminants from site into controlled water. High concentrations of explosive gas in the subsurface environment that have a clear unobstructed pathway into buildings.
Moderate	Chronic damage to human health, a plausible chance that an event will occur, although the timeline is not immediate to be in the short-term.	Appreciable concentration of contamination that over the longer-term will cause significant harm i.e. high lead concentration in topsoil. Shallow mine workings that are potentially unstable but may remain in a satisfactory or stable conditions for a number of years.
Mild	Low level pollution of non-sensitive water, a feasible hazardous scenario although the timeline of such occurring can probably be considered in 10's of years.	The effect of high sulphate concentrations on structural concrete. Pollution of non-classified groundwater.
Minor	Harm, although not necessarily significant to human health, or with respect to other aspects of the development, which are considered implausible in terms of occurrence, or will have little consequential impact.	The presence of contaminants at such low concentrations that protective equipment is required during site works. Any damage to structures is minimal and will not be structural in characteristics.

PROBABILITY OF RISK BEING REALISED (C552 CIRIA, 2001)

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

RISK CLASSIFICATION MATRIX (C552 CIRIA, 2001)

Risk = Probability x Consequence		Consequence			
		Severe	Moderate	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

HUMAN RECEPTORS

Human exposure to contaminants present in soils can occur via several pathways. Direct exposure pathways include dermal absorption after contact with contaminated ground, inhalation of soil or dust, inhalation of volatilised compounds, and inadvertent soil ingestion (or deliberate soil ingestion in the case of some children). Other indirect pathways include human ingestion of plants grown in contaminated soil or contaminated ground or surface water. Contaminants associated with wind blown dust can affect humans on surrounding sites.

VEGETATION

Plants can be affected by soil contamination in a number of ways resulting in growth inhibition, nutrient deficiencies and yellowing of leaves. Contaminants are taken up by plants through the roots and through foliage. Contaminants identified as being highly phytotoxic include boron, cadmium, copper, lead, nickel, and zinc.

To establish if the levels of contaminants present on a site may pose a risk to vegetation the results of the contamination testing are compared to a series of threshold values published in 'Code of Good Agricultural Practice for the Protection of Soil'.

GROUNDWATER AND SURFACE WATER RECEPTORS

The principal pathway by which soil contamination may reach the water environment is through a slow seepage or leaching to groundwater or surface water. The potential for contaminants to migrate along such pathways is dependent on the chemical and physical characteristics of the contaminants and the local hydrogeology. Surface watercourses may also accumulate contamination as contaminated sediments are deposited within the water body.

Where the site investigated overlies major/principal aquifers (and in some cases minor/secondary aquifers depending on certain conditions), groundwater Source Protection Zones and areas in close proximity to groundwater abstractions, contamination test results have been compared with the Water Supply (Water Quality) Regulations 1989 and The Water Supply (Water Quality) Regulations 2000.

Should a surface water receptor, such as a fresh water environment (river, canal, stream, lake etc), or marine environment be considered sensitive in relation to a site, then test results are compared with DEFRA & SEPA Environmental Quality Standards (2004). Many of the Environmental Quality Standards are hardness (CaCO_3) depended. Where no hardness values are available, Solmek assume conservative values (of between 0 and 50mg/l).

In the absence of vulnerable ground and surface water environments, Solmek may compare any test results with the Environment Agency Leachate Quality Threshold Values.

DETAILED QUANTITATIVE RISK ASSESSMENT (DQRA)

In line with Environment Agency's guidance document Environment Agency *Land Contamination Risk Management*, which replaced the now-withdrawn *Contaminated Land Report 11 – Model Procedures for the Management of Land Contamination (2004)*, a DQRA for groundwater/human health may be required following a Phase 2 investigation and before the preparation of a Phase 3 Remediation Strategy. For human health DQRA, a site specific assessment criteria is undertaken using CLEA Software Version 1.06. For groundwater DQRA, the Environment Agency Remedial Targets Worksheet Version 3.1 is used.

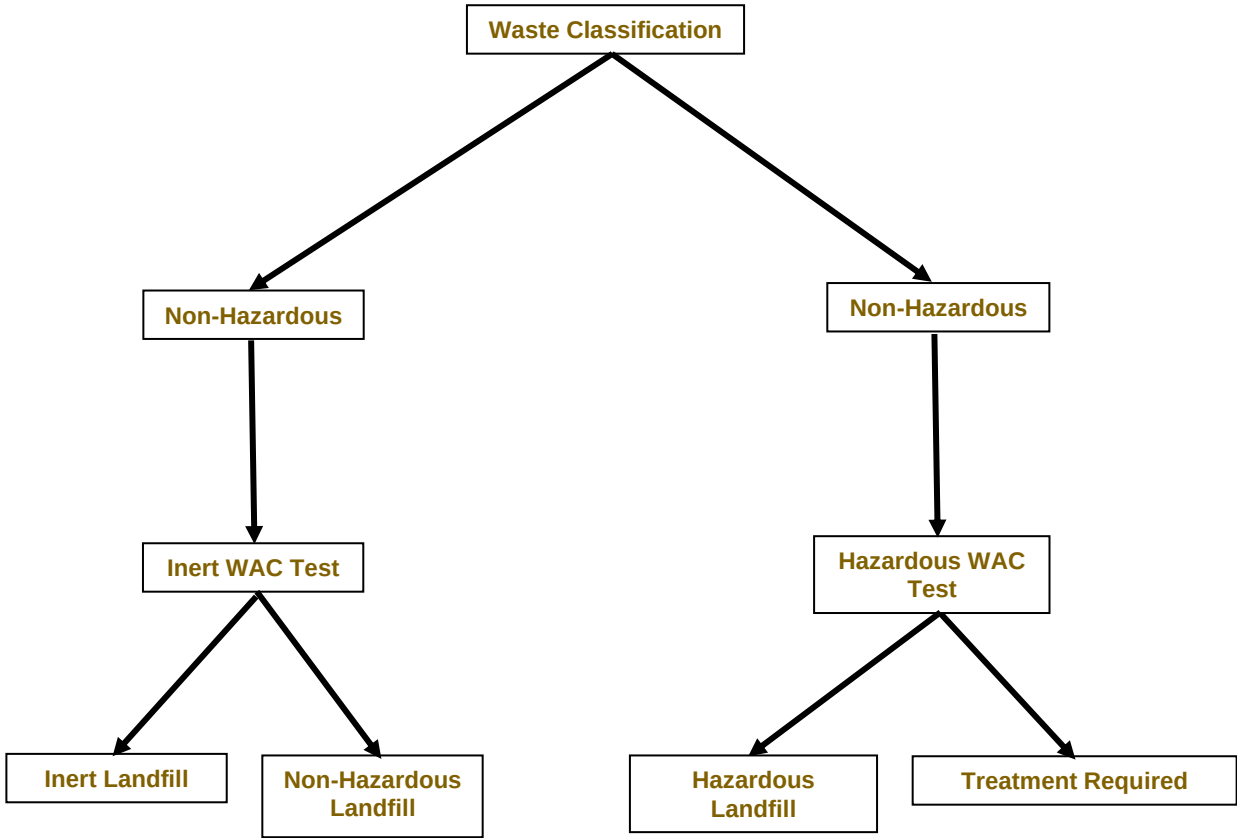
WASTE CLASSIFICATION AND WASTE ACCEPTANCE CRITERIA

During the site strip and construction activities, material may be required to be removed from site. Any such material would require classification, in line with Environment Agency Technical Guidance *Waste Classification: Guidance on the classification and assessment of waste (2015)*. This would classify the material as either Non-Hazardous or Hazardous Waste.

Once the material has been classified, determining the suitable landfill for disposal is governed by landfill directive Waste Acceptance Criteria (WAC) testing, with landfills categorized as Inert Waste, Stable Non-Reactive Hazardous Waste and Hazardous Waste. The WAC testing relates to materials that are to be exported from a site/development to landfill, and do not directly relate to human health specifically. The testing results are generally presented as certificates which can be used by site owners/contractors etc, which should be presented to the accepting waste facility or waste contractor.

If waste classification and/or WAC testing are not undertaken, material taken off site may be subject to WAC testing by the appropriate waste disposal company. The decision on whether or not to accept waste, or whether further testing is required, is at the discretion of the waste disposal company.

The below flow chart provides further information on the waste classification process.



CONSTRUCTION

MATERIALS

Materials at risk from possible soil contaminants include inorganic matrices such as cement and concrete and also organic material such as plastics and rubbers. Acid ground conditions and high levels of sulphates can accelerate the corrosion of building materials. Where pH and soluble sulphate analysis has been undertaken, Solmek compare the test results with the guidelines presented within BRE Special Digest 1, 2005 (3rd Edition) ‘Concrete in Aggressive Ground’. Plastics and rubbers are generally used for piping and service ducts and are potentially attacked by a range of chemicals, most of which are organic, particularly petroleum based substances. Drinking water supplies can be tainted by substances that can penetrate piping and water companies enforce stringent threshold values.

The levels of potential contaminants should be compared to thresholds supplied in the UK Water Industry Research (UKWIR) publication “Guidance for the selection of Water Supply Pipes to be used in Brownfield Sites” (January 2011). A Brownfield Site is defined in the document as “Land or premises that have not previously been used or developed that may be vacant or derelict”. It should be noted that Brownfield sites may not be contaminated. The guidance does not apply to Greenfield Sites however water companies may have their own assessment criteria which should be checked by the developer. The table below outlines the pipe material selection threshold concentrations.

Parameter group	Pipe Material (Threshold concentrations in mg/kg)					
	PE	PVC	Barrier pipe (PE-AL-PE)	Wrapped Steel	Wrapped Ductile Iron	Copper
Extended VOC suite by purge and trap or head space and GC-MS with TIC	0.5	0.125	Pass	Pass	Pass	Pass
+ BTEX + MTBE	0.1	0.03	Pass	Pass	Pass	Pass
SVOCs TIC by purge and trap or head space and GC-MS with TIC (aliphatic and aromatic C5-C10)	2	1.4	Pass	Pass	Pass	Pass
+ Phenols	2	0.4	Pass	Pass	Pass	Pass
+ Cresols and chlorinated phenols	2	0.04	Pass	Pass	Pass	Pass
Mineral oil C11-C20	10	Pass	Pass	Pass	Pass	Pass
Mineral oil C21-C40	500	Pass	Pass	Pass	Pass	Pass
Corrosive (Conductivity, Redox and pH)	Pass	Pass	Pass	Corrosive if pH <7 and conductivity >400µS/cm	Corrosive if pH <5, Eh not neutral and conductivity >400µS/cm	Corrosive if pH <5 or >8 and Eh positive
Specific suite identified as relevant following site investigation						
Ethers	0.5	1	Pass	Pass	Pass	Pass
Nitrobenzene	0.5	0.4	Pass	Pass	Pass	Pass
Ketones	0.5	0.02	Pass	Pass	Pass	Pass
Aldehydes	0.5	0.02	Pass	Pass	Pass	Pass
Amines	Fail	Pass	Pass	Pass	Pass	Pass

REQUIREMENTS OF PARTIES WITHIN THE DEVELOPMENT PROCESS

Interested parties involved in the development process may use the data in different ways and there may be varying views and interpretation of the factual data. Local Authority staff may have a view on contamination and human health and the wider environment. The Environment Agency are concerned principally with the protection of Controlled waters. Building insurers, funders and purchasers may be primarily concerned with issues of potential commercial blight. Purchasers are also not always fully informed, and perceptions on issues associated with risk can affect the decision to purchase. Developers and construction organisations will focus on financial aspects of dealing with the contamination in the context of the development and construction programme.

RISKS & LIABILITIES FROM CONTAMINATION

In simple terms, risks associated with contamination may be considered in terms of 1) statutory risks and 2) development related risks. If contamination is severe or forms a potential hazard based on its potential to affect groundwater, surface water or human health, a statutory risk may be present, and as such, if the risk is not reduced, criminal proceedings may be instigated by a government body or local authority.

If the contamination is less severe or not considered to be mobile, it may be considered a commercial liability which could, in theory remain untreated, but which may at a later date affect the value of the property, or, with changing legislation, become a statutory risk. Commercial liabilities could give rise to civil proceedings by third parties if there are grounds for action.

Appendix G

Notes on Limitations

♣Solmek conditions of offer, notes on limitations & basis for contract (ref: version1/2021)

These conditions accompany our tender and supercede any previous conditions issued. Solmek will prepare a report solely for the use of the Client (the party invoiced) and its agent(s). No reliance should be placed on the contents of this report, in whole or in part by 3rd parties. The report, its content and format and associated data are copyright, and the property of Solmek. Photocopying of part or all of the contents, transfer or reproduction of any kind is forbidden without written permission from Solmek. A charge may be levied against such approval, the same to be made at the discretion of Solmek.

Solmek cannot be held liable and do not warrant, or otherwise guarantee the validity of information provided by third parties and subsequently used in our reports. Solmek are not responsible for the action negligent of otherwise of subcontractors or third parties.

Site investigation is a process of sampling. The scope and size of an investigation may be considered proportional to levels of confidence regarding the ground and groundwater conditions. The exploratory holes undertaken investigate only a small volume of the ground in relation to the overall size of the site, and can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions as encountered within each of the exploratory holes. There may be different ground conditions elsewhere on the site which have not been identified by this investigation and which therefore have not been taken into account in this report. Reports are generally subject to the comments of the local authority and Environment Agency. The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that mobile contamination, ground gas levels and groundwater levels may vary owing to seasonal, tidal and/or weather related effects. Solmek cannot be held liable for any unrecorded or unforeseen obstructions between exploratory boreholes and trial pits. This includes instances where previous structures on the site (buried man made structures) or the presence of boulder clay (cobbles and/or boulder obstructions) have been anticipated. All types of piling operations should make allowance for obstructions within the construction budget to accommodate this. Unrecorded ancient mining may occur anywhere where seams that have been worked and influence the rock and soil above. Dissolution cavities can occur where gypsum or chalk is present. Rotary drilling is the recommended technique to prove the integrity of the rock.

Where the scope of the investigation is limited via access to information, time constraints, equipment limitations, testing, interpretation or by the client or his agents budgetary constraints, elements not set out in the proposal and excluded from the report are deemed to be omitted from the scope of the investigation.

Desk studies are generally prepared in accordance with RICS guidelines. Environmental site investigations are generally undertaken as 'exploratory investigations' in accordance with the definitions provided in paragraph 5.4 of BS 10175:2011 in order to confirm the conceptual assumptions. You are advised to familiarize yourself with the typical scope of such an investigation. No pumping of water will be undertaken unless a licence or facilities/equipment have been arranged by others.

Where the type, number or/and depth of exploratory hole is specified by others, Solmek cannot and will not be responsible for any subsequent shortfall or inadequacy in data, and any consequent shortfall in interpretation of environmental and geotechnical aspects which may be required at a later date in order to facilitate the design of permanent or temporary works.

All information acquired by Solmek in the course of investigation is the property of Solmek, and, only also becomes the joint property of the Client only on the complete settlement of all invoices relating to the project. Solmek reserve the right to use the information in commercial tendering and marketing, unless the Client expressly wishes otherwise in writing. The quoted rates do not include VAT, and payment terms are 30 days from dispatch of invoice from our offices. Quotes are subject to a site visit.

We have allowed for 1 mobilisation and normal working hours unless otherwise stated. The scope of the investigation may be reviewed following the desk study and/or fieldwork. The presence or otherwise of Japanese Knotweed or other invasive plants can be difficult to identify especially during winter months. If Japanese Knotweed or other invasive species are suspect, it should be confirmed by an ecologist. We have not allowed for acquiring services information, and cannot be responsible for damage to underground services or pipes not shown to us or not clearly shown on plans. Costs incurred will be passed on to you, and in commissioning Solmek you understand and accept that you/your agent have a contractual relationship with Solmek & you accept this. Our rates assume unobstructed, reasonably level and firm access to the exploratory positions and adequate clear working areas and headroom. We have priced on the basis that you or your client have the necessary permissions, wayleaves and approvals to access land. All boreholes and pits are backfilled with arisings except where gas monitoring pipes are installed with stopcock covers. Solmek are not responsible for any uneven surfaces as a result of siteworks and rutting and backfilled excavations may require re-levelling and/or making good by others after fieldwork is complete, and Solmek has not allowed for this. No price has been provided or requested for a return visit to remove pipework and covers. Hourly rates apply to consultancy only and do not include expenses unless otherwise shown. If warranties are required, legal costs incurred will be passed on to you assuming Solmek agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.

We reserve the right to pursue full payment of the invoice prior to release of any information including reports. We advise you/your client that we may elect to pursue our statutory rights under late payment legislation, and will apply 8% to the base rate for unreasonably late payments. Solmek are exempt from the CIS Scheme. Solmek offer to undertake work only in strict accordance with conditions covered by our current insurances, which are available for inspection. Solmek are not responsible for acts, negligent or otherwise of subcontractors and as a matter of policy cannot indemnify any other parties. Professional indemnity Insurance is limited to ten times the invoice net total except where stated otherwise by Solmek. Solmek give notice that consequential loss as a direct or indirect result of Solmek's activities or omission of the same are excluded.