

**LAND AT
PETRE WOOD
LANGHO**

**PRELIMINARY
RISK ASSESSMENT**

(PHASE 1 DESK STUDY)



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1 INTRODUCTION

1.1 Introduction

LK Consult Ltd (LKC) has been commissioned by Lancaster Maloney Ltd (e-mail dated 1st October 2012) to carry out a Preliminary Risk Assessment (PRA) for land at Petre Wood, Langho. The PRA was undertaken in support of a future planning application to redevelop the site for a residential end use.

According to guidance set out in CLR11¹ and the National Planning Policy Framework (NPPF)² a PRA with a site reconnaissance is required as a minimum to ascertain if there is a potential contamination risk.

In accordance with current guidance the PRA report will include a site reconnaissance, site history, geology, hydrogeology, hydrology and a landfill search (within 250m of the site boundary). Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site, which will support the identification and assessment of any pollutant linkages. Based on the findings of the PRA an appropriate site investigation can be derived, if required once planning approval has been granted.

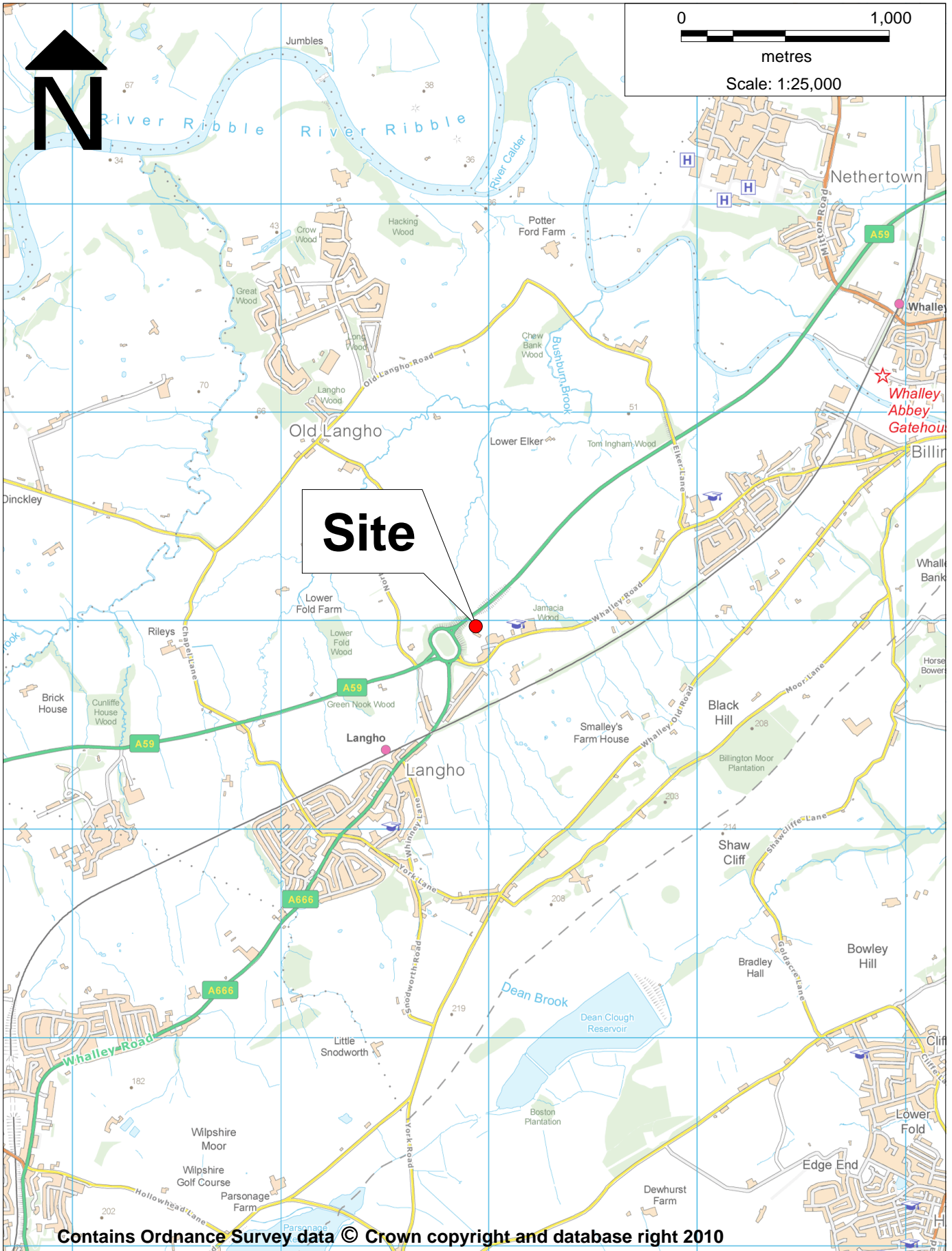
1.2 Background

The site is located south of the A59 in the area of Langho, and is centred at National Grid Reference 370930E 434960N (Figure 1-1). The site is bounded by the A59 to the north and west, farm land to the east and residential properties to the south. The site has most recently been used as farm land.

The site is approximately 0.59ha in size (see Figure 1-2). The site slopes south west with approximate elevations of between 71 and 78m AOD. The site proposed layout is indicated in Figure 1-3 and comprises 25 residential dwellings.

¹ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

² DCL (2012). "National Planning Policy Framework." Department of Communities and Local Government. March 2012.



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Figure 1-1: Location Plan, Land at Petre Wood, Langho, Blackburn

Drawn: October 2012 Scale: See Scale Bar (approx 1:25,000 @ A4)



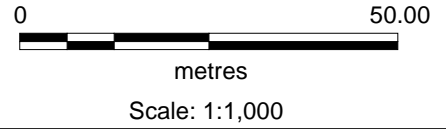
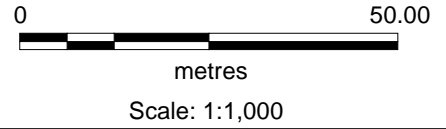


Figure 1-2: Site Boundary, Land at Petre Wood, Langho

Drawn: October 2012 Scale: See Scale Bar (approx 1:1,000 @ A4)





Contains Ordnance Survey data © Crown copyright and database right 2010

Figure 1-3: Proposed Plan, Land at Petre Wood, Langho

Drawn: October 2012 Scale: See Scale Bar (approx 1:1,000 @ A4)



2 SITE HISTORY

In compiling the site history, LKC consulted mapping and other environmental data provided by the Landmark Information Group Ltd and public domain aerial photography. Copies of relevant historical plans are provided in Appendix A and are summarised below. Notable features within 100m of the site boundary have been presented (distances will be approximate). The exception to this will be features that could be infilled historically. The buffer will be 250m for these features.

Site Features	Location	Map Dates Present	Comments
Site Mainly Undeveloped	Whole site	1847-1969	-Site possibly associated with Petre House Farm.
Un-named stream	SW corner	1893-1969	-Potentially culverted after 1969.
Path	Running NW to S	1893-1977	-Path redirected due to the new road, the footpath is marked from N to S from 1973 mapping.
Undifferentiated Building	SE of site	1912-1913	-No longer present after this date.
Cuttings	SW of site	1932-1969	-No longer identified on 1970 mapping.
Undifferentiated Building	Central S	2012	-Identified as an animal shelter from the site reconnaissance.
Surrounding Area Features	Distance/ Location	Map Dates Present	Comments
Pond	170m E	1848-1913	-Annotated as marsh on 1932 mapping only. -Potentially infilled after this date.
Undifferentiated buildings	Adjacent to S	1969-2006	-Possible Garden Centre. -Replaced by housing development.
Garage	80m S	1969-Present	-No longer annotated as garage from 2006 mapping. -Building still present on 2012 mapping. -Identified as a Garage from site reconnaissance.
Road Development	Adjacent W and N	1970-Present	-A59 road development is first marked in 1970, which is completed by 1973 mapping. -With associated cuttings/embankments.
Petre House Farm	Adjacent E	1969-2012	-Buildings adjacent to eastern site boundary in 1969, although annotated on site on subsequent mapping. -Buildings associated with the farm marked onsite to the NE in 1973.
Household Waste Disposal Centre	15m S	1992-2011	-Annotated as a Recycling Centre in 2011. -Recycling Centre closed in April 2011.
Residential dwellings	Adjacent S	2009-Present	-Petre Wood Close and Petre Wood Crescent.
Undifferentiated Building	50m S	2012	-Identified as a Gulf petrol station from site reconnaissance.

Table 2-1: Summary of Site History, Land at Petre Wood, Langho.

3 ENVIRONMENTAL SETTING

In compiling this Section, LKC consulted environmental information provided by Envirocheck Report (Appendix B), Natural England, the Environment Agency and the British Geological Survey (BGS) (Appendix C).

Summary of Environmental Settings			
Geology	Superficial		-Till, Devensian.
	Bedrock		-Mudstone, Bowland Shale Formation.
	Faulting		-None within 1km.
	BGS logs		-SD73SE5, 46m NE (Envirocheck Map ID 30): -Thin clay, gravel and sand layers to 55.17m. -Shale to 171.60m with a coal layer from 121.01m to 121.92m. -Sandstone and shale to 193.55m. -See Appendix C for nearby historical logs.
Hydrogeology	Aquifer Designation	Superficial	-Unproductive.
		Bedrock	-Secondary Undifferentiated.
	Groundwater abstractions		-None within 1km.
Hydrology	Nearest surface water		-Drain on site. -Un-named stream 62m NW.
	Flooding		-No risk.
	Surface water abstractions		-None within 1km.
	Discharge consent		-3 within 1km. -Nearest 85m S, United Utilities Water Plc, storm overflow/storm tank, into freshwater stream-tributary of Bushburn Brook.
	Pollution Incidents		-None within 250m.
Mining	Coal Mining Referral Area		-Outside of coal field area.
	Ground Stability		-Potential for collapsible ground, very low. -Potential for landslide ground, very low. -Potential for running sand, very low. -Potential for shrinking or swelling clay, very low.
	Mineral Abstraction		-Nearest 968m S. Higher Woodcocks, opencast sandstone, operator unknown, operation ceased.
Landfill sites (within 250m)	Known/Registered		-Historic Landfill Site 72m S at Petre Garage. Licence holder unknown, type of waste unknown.
	Potential		-Potentially culverted stream to the far west of the site, no longer marked after 1969 mapping. -Pond 190m E, on mapping from 1848- 1913.
Radon			-Probability of <1% of homes above Action Level. -No further action required.
Designated Sites			-None within 250m.
Contemporary Trade Directory			-6 within 250m. Nearest 78m SE. Car Centre, used car dealers, inactive.
Fuel Station Entries			-Petre Filling Station 50m SE. Currently open.

Table 3-1: Summary of Environmental Setting, Land at Petre Wood, Langho.

4 SITE RECONNAISSANCE

A site reconnaissance of the study site area was carried out by LKC on the 4th October 2012. Photographs are provided in Appendix D.

The site was accessed from a public footpath via a small drive way off Longsight Road (Photographs 1 and 2). The area of proposed development is currently an open field (Photograph 3). The site is bounded to the north and west by the A59, to the east by open fields, and to the south west by residential properties (Photographs 4 to 7).

The ground across the study site was observed to be primarily grass with some wetland type plants (reeds and rushes) (Photograph 8 to 10). A number of small trees were observed along the western boundary and several large trees were also present onsite (Photographs 7, 11 and 12). A small area of concrete was noted on the north eastern boundary where a metal gate leads offsite (Photographs 13 and 14).

The site sloped down towards the south west and was waterlogged. A small stream was identified running from the southern boundary to the north west which had steep embankments. The stream was observed to be fenced off, approximately 1 metre lower than ground level and was overgrown (Photograph 15 and 16).

A derelict farm building was identified with a possible corrugated asbestos roof in the south of the site which appeared to house animals (Photograph 17). Several large metal containers were also present in the south west corner of the site (Photograph 18).

Small areas of rubble and possible fly-tipped materials, such as pallets, were observed on the southern boundary of the site (Photograph 19 to 21). In addition a small trailer containing possible corrugated asbestos cement was observed alongside the derelict farm building (Photographs 22 and 23). A small area of Horsetail was observed along the southern boundary (Photograph 24).

The soil across the site appeared to be mainly orangish grey clay in the south and west of the site (Photographs 25 and 26). The soil in the north west of the site appeared to be dark brown and very organic (Photograph 27). Some made ground was encountered in the footprint of a former building (Photographs 28 and 29).

5 PRELIMINARY CONCEPTUAL MODEL

5.1 Introduction

The aim of the conceptual model is to provide a preliminary assessment of the likelihood of a pollutant linkage for each potential combination of contaminant, pathway and receptor. A conceptual model can be used to make an informed decision on the contamination risks associated with the site and whether further site investigation work is required.

The Sections below are therefore divided into potential contaminant, potential pathway and potential receptor as described in CLR11³. The final Section provides an assessment of the potential pollutant linkages that may still be present on the site if redevelopment were to occur.

5.2 Potential Contaminants

The primary historical onsite features that may be of concern are:

- Evidence of localised development and buildings associated with Petre House Farm; and,
- Possible infilling of streams and cuttings.

Potential contaminants associated with processes relating to farming may include fertilisers, pesticides, oils, fuels and hydrocarbons.

Ash and clinker materials were typically used for activities such as level raising, localised infilling and as a development sub base. The materials may be a source of heavy metals (such as arsenic and lead) and Polycyclic Aromatic Hydrocarbons ((PAHs), such as benzo(a)pyrene (B(a)P))⁴. The former building structures may also have contained Asbestos Containing Materials (ACMs).

The immediate surrounding areas have been mainly developed for residential usage. Three potentially contaminative land-uses have been identified within 250m of the study site; a garage, a garden centre and a Household Waste Disposal Centre.

The Envirocheck Report has identified one known licensed landfill site within 250m of the study site. A review of the historical OS mapping by LKC has identified a potentially infilled and a potentially culverted area within 250m of the site. Therefore, a risk of hazardous gas has been identified.

Hazardous gas generation can also occur from made ground on the site, however this is strongly dependent upon its quantity and composition. There is potential infilling of the former stream and cutting on site. If significant amounts of putrescible or degradable material is found on site hazardous gas generation may be possible.

A significant radon risk not been identified.

³ Defra (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

⁴ Defra (2002). "Potential Contaminants for the Assessment of Land." R&D Publication CLR 8

5.3 Potential Pathways

Principal potential pathways associated with human health from soil contamination are ingestion, dermal and inhalation. The current UK technical report document⁵ recognises ten such pathways comprising four ingestion, two dermal and four inhalation. These are listed as follows:

- Ingestion of soil
- Ingestion of soil-derived indoor dust
- Ingestion of contaminated vegetables
- Ingestion of soil attached to vegetables
- Dermal contact with soil
- Dermal contact with soil-derived indoor dust
- Inhalation of soil-derived outdoor dust
- Inhalation of soil-derived indoor dust
- Inhalation of vapours outside
- Inhalation of vapours inside

The proposed end-use follows a standard conceptual model of 'residential'. For this land use scenario all ten of the pathways will have to be considered.

Surface water and groundwater are principal mechanisms for the migration of contaminants, with rainwater infiltrating through contaminated material and contamination possibly going into solution. Contaminated water may then find preferential pathways to surface waters and underlying aquifer.

Culverts, ditches, drains, service drains may provide preferential pathways off site. A potentially culverted stream to the south west of the site was noted from the desk study.

Bedrock and superficial geology has the potential to impede or provide preferential pathways for contaminants onto or off site.

The underlying Till deposits may impede the migration of contaminants to or from the study site.

The site is situated on mudstone, depending on the pore space and bedding orientation, this may act as a pathway for contaminants onto or off-site.

There are no known geological faults within 250m of the study site.

5.4 Potential Receptors

Potential receptors with respect to human health and hazards present on the site include residents and users of the proposed development and future site construction workers, maintenance workers, flora and fauna in landscaped areas and ecology area. Depending on the nature and concentration of the potential contaminants, the underlying Secondary Undifferentiated Aquifer may also be considered as potential receptors along with building materials and services.

Potential receptors with respect to human health and hazards present on the site include:

- Human Health: Future site residents.
- Controlled Waters: Un-named stream onsite, un-named stream 62m north west, and underlying Secondary Undifferentiated Aquifer.
- Buildings and Services: Landfill/ground gas and contaminants that could affect integrity of building materials and service pipes.
- Flora: within future gardens.

⁵ EA (2008). "Updated Technical Background to the CLEA Model." Science Report – SC050021/SR3.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance⁶) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

5.5 Preliminary Contamination Conceptual Model

The preliminary contamination conceptual model for land at Petre Wood, Langho, is illustrated in Table 5-1 below and has identified seven generic potential pollutant linkages, all of which are considered possible at this stage.

Each linkage is discussed below along with an assessment of the likelihood of each linkage considering the available data and the nature of the development. This conceptual model is based upon contaminant-pathway-receptor pollutant linkages, on the premise that if there is no pollutant linkage then there will be no risk to the receptor⁷.

Pollutant Linkage No.	Contaminant					Pathway	Receptor
	ACM	Gases		Contaminants			
		Hazardous	Ground	Organic	Inorganic		
PL1	?	x	x	?	?	-Dermal contact. -Ingestion of soils and vegetables. -Inhalation of contaminated soil, fibres and dust.	-Future site residents (inc. veg uptake).
PL2	x	x	x	?	x	-Inhalation of vapours. -Vapour migration through permeable strata.	-Future site residents. -Offsite receptors.
PL3	x	?	x	x	x	-Inhalation of hazardous gas. -Migration through permeable strata. -Build up and explosion of gas.	-Future site residents. -Offsite receptors (if gas is generated on site). -Site buildings.
PL4	x	x	x	?	?	-Groundwater migration through permeable strata. -Perched waters migration on site.	-Un-named stream on site. -Secondary Undifferentiated Aquifer. -Un-named stream 62m NW.
PL5	x	?	x	x	?	-Contact with potential hazards.	-Site buildings.
PL6	x	x	x	?	?	-Ingestion of tainted water supply. -Corrosion of metal pipework.	-Future site residents. -Pipework.
PL7	x	x	x	x	?	-Root uptake of phytotoxic contaminants.	-Flora in future gardens.

Table 5-1 Contamination Conceptual Model for land at Petre Wood, Langho.

(Key: ? – pollutant linkage possible; x – pollutant linkage unlikely)

5.5.1 Pollutant Linkage 1

Pollutant linkage 1 refers to the potential asbestos, heavy metals and organic contaminants, such as PAHs and petroleum hydrocarbons coming into direct contact with future site residents. This is considered possible in areas of proposed landscaping and gardens for future site users, mainly in and around the areas of potential infilling and former buildings.

⁶ HSE (1991). "Protection of workers and the general public during development of contaminated land" London HMSO.

⁷ EA (2004). "Model Procedures for the Management of Land Contamination." R&D Publication CLR 11

5.5.2 *Pollutant Linkage 2*

Potential pollutant linkage 2 refers to possible inhalation of vapours affecting the future site residents and future site from potential localised hydrocarbon spillages onsite. This linkage is considered possible around the areas of the former buildings.

5.5.3 *Pollutant Linkage 3*

There may be possible generation and migration of hazardous gas from infilled areas onsite, and from offsite features (landfill 72m south and potentially infilled pond 190m east).

The offsite features are not considered to be a significant gas risk to the site due to a number of factors. Both sites are a significant distance from the site and the intervening Till deposits are likely to impede the migration of any gas from these features onto the site.

The landfill site 72m south appears to have been created in order to allow construction of the existing building. LKC consider that it is unlikely that degradable material would have been used for infilling as it would create a gas risk to the development and likely be geotechnically unsuitable.

The localised potentially infilled areas on site are considered to comprise a localised risk of hazardous gas to future site residents, off site receptors and future site buildings.

Therefore, at this stage, this pollutant linkage is considered possible.

5.5.4 *Pollutant Linkage 4*

Potential pollutant linkage 4 refers to the possible on site contaminants and the underlying Secondary Undifferentiated Aquifer and un-named stream. This linkage is considered possible given the identified presence of made ground and possible localised hydrocarbon spillages on the study site. However, the risk to the aquifer may be minimal due to the underlying Till.

5.5.5 *Pollutant Linkage 5*

Potential pollutant linkage 5 refers to the possible deleterious effects that sulphate may have on building materials such as concrete, water pipes and building structures. Potential made ground comprising ash and clinker may generate sulphate. Therefore, this pollutant linkage is considered possible.

5.5.6 *Pollutant Linkage 6*

Potential pollutant linkage 6 refers to the possible contaminants permeating potable water pipes and consumption by the future residents of the tainted water supply. Given the likely presence of made ground on site and likely contaminants this linkage is also considered possible.

5.5.7 *Pollutant Linkage 7*

Potential pollutant linkage 7 refers to the possible phytotoxic contaminants affecting plant growth. Given the likely presence of made ground onsite and likely heavy metal contaminants, this linkage is also considered possible.

6 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

The primary historical onsite features that may be of concern are evidence of localised development and buildings associated with Petre House Farm and potentially infilling, level raising and development sub bases. Potential contaminants therefore include fertilisers, pesticides, oils, fuels and hydrocarbons, heavy metals, PAHs, ACMs and sulphate.

A significant hazardous gas risk from offsite potentially infilled features and one notified landfill site has not been identified due to their distance from the site, the intervening Till deposits and in the case of the landfill site the likelihood that degradable materials were not used. However potential infilling on site may be a localised source of hazardous gas.

Radon has not been identified from the desk study therefore no specific radon protection precautions are required.

A potential risk to water pipes and flora in landscaped areas has been identified given the likely localised presence of made ground.

The preliminary contamination conceptual model for land at Petre Wood, Langho, as illustrated in Table 5-1 has identified seven generic potential pollutant linkages, all of which are considered possible at this stage.

6.2 Recommendations

In accordance with NPPF, LKC consider that sufficient information on the potential contaminative status of the site is available in this Preliminary Risk Assessment report to allow the validation of any future planning application by the Local Planning Authority and for conditional planning approval to be granted.

Such conditional approval will likely include standard prescriptive conditions requiring a site investigation, risk assessment and, if appropriate, a remedial strategy are completed to the satisfaction of the Local Planning Authority prior to the commencement of any development.

LKC would recommend that once conditional planning approval is granted, a Phase II intrusive survey should be carried out across the site to investigate the potential pollutant linkages further.

LKC recommend the Phase II intrusive survey should focus on key areas of concern such as the former buildings and areas of potential infilling.

A wider grid spacing may be adopted for the previously undeveloped areas of the site.

The scope of this Phase II survey should be prior agreed with the Local Authority and should include the following.

In order to address potential pollutant linkages 1, 2, 5, 6 and 7 solid samples should be collected from trial pits and/or boreholes undertaken across the site subjected to appropriate chemical analyses based upon a broad range of contaminants, including

those identified in Section 5.2. The investigation will follow guidance set out in BS10175⁸ and BS5930⁹.

If significant depths of made ground or organic materials are identified in the site investigation such as around the former buildings and areas of suspected infilling then gas monitoring should be undertaken. The boreholes drilled onsite should be converted to monitoring wells in anticipation of this and where monitoring is required it should be undertaken over a suitable period of time, as recommended in CIRIA C665¹⁰. As a minimum, gas monitoring would likely be over a three month period, with at least six gas monitoring visits under the worst case temporal conditions. The monitoring timescale will need to be agreed beforehand with the Local Authority.

It should be noted that boreholes or trial pits may also be utilised to provide appropriate geotechnical information on sub-surface conditions.

This investigation, in conjunction with appropriate geotechnical testing, will delineate any existing areas of potential contamination and identify and characterise any contaminants encountered. Information from this investigation can then be used to provide a more detailed assessment of the identified pollutant linkages, provide appropriate foundation solutions and, if necessary, identify appropriate remedial measures to ensure that the site is made suitable for its proposed end use.

A copy of this report should be sent as part of the planning application.

⁸ British Standard (2011). "Investigation of Potentially Contaminated Sites – Code of Practice." BS10175:2011

⁹ British Standard (1999). "Code of Practice for Site Investigations." BS5930:1999

¹⁰ CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings." CIRIA C665

APPENDIX A

HISTORICAL MAPS

Historical Mapping Legends

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

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

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

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

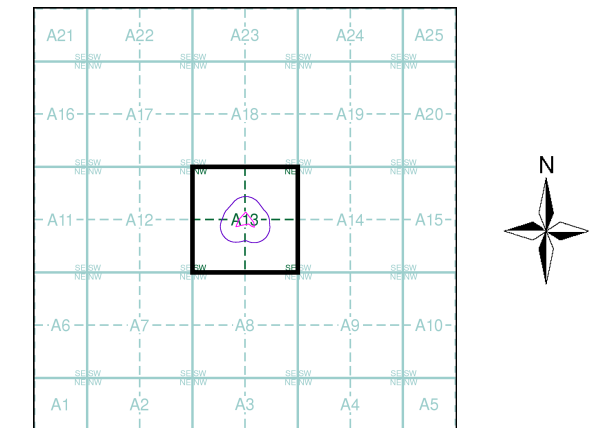
Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff **Slopes** **Top**
Rock **Rock (scattered)**
Boulders **Boulders (scattered)**
Positioned Boulder **Scree**
Non-Coniferous Tree (surveyed) **Coniferous Tree (surveyed)**
Non-Coniferous Trees (not surveyed) **Coniferous Trees (not surveyed)**
Orchard Tree **Scrub** **Bracken**
Coppice, Osier **Reeds** **Marsh, Saltings**
Rough Grassland **Heath** **Culvert**
Direction of water flow **Triangulation Station** **Antiquity (site of)**
Electricity Transmission Line **Electricity Pylon**
B.M. 231.60m **Bench Mark** **Buildings with Building Seed**
Roofed Building **Glazed Roof Building**
Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)
Bks **Barracks** **P** **Pillar, Pole or Post**
Bty **Battery** **PO** **Post Office**
Cemy **Cemetery** **PC** **Public Convenience**
Chy **Chimney** **Pp** **Pump**
Cis **Cistern** **Ppg Sta** **Pumping Station**
Dismtd Rly **Dismantled Railway** **PW** **Place of Worship**
EI 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
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1912	3
Lancashire And Furness	1:2,500	1932	4
Ordnance Survey Plan	1:2,500	1968 - 1969	5
Ordnance Survey Plan	1:2,500	1973 - 1982	6
Supply of Unpublished Survey Information	1:2,500	1973	7
Supply of Unpublished Survey Information	1:2,500	1976	8
Ordnance Survey Plan	1:2,500	1982	9
Large-Scale National Grid Data	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1993 - 1997	11

Historical Map - Segment A13



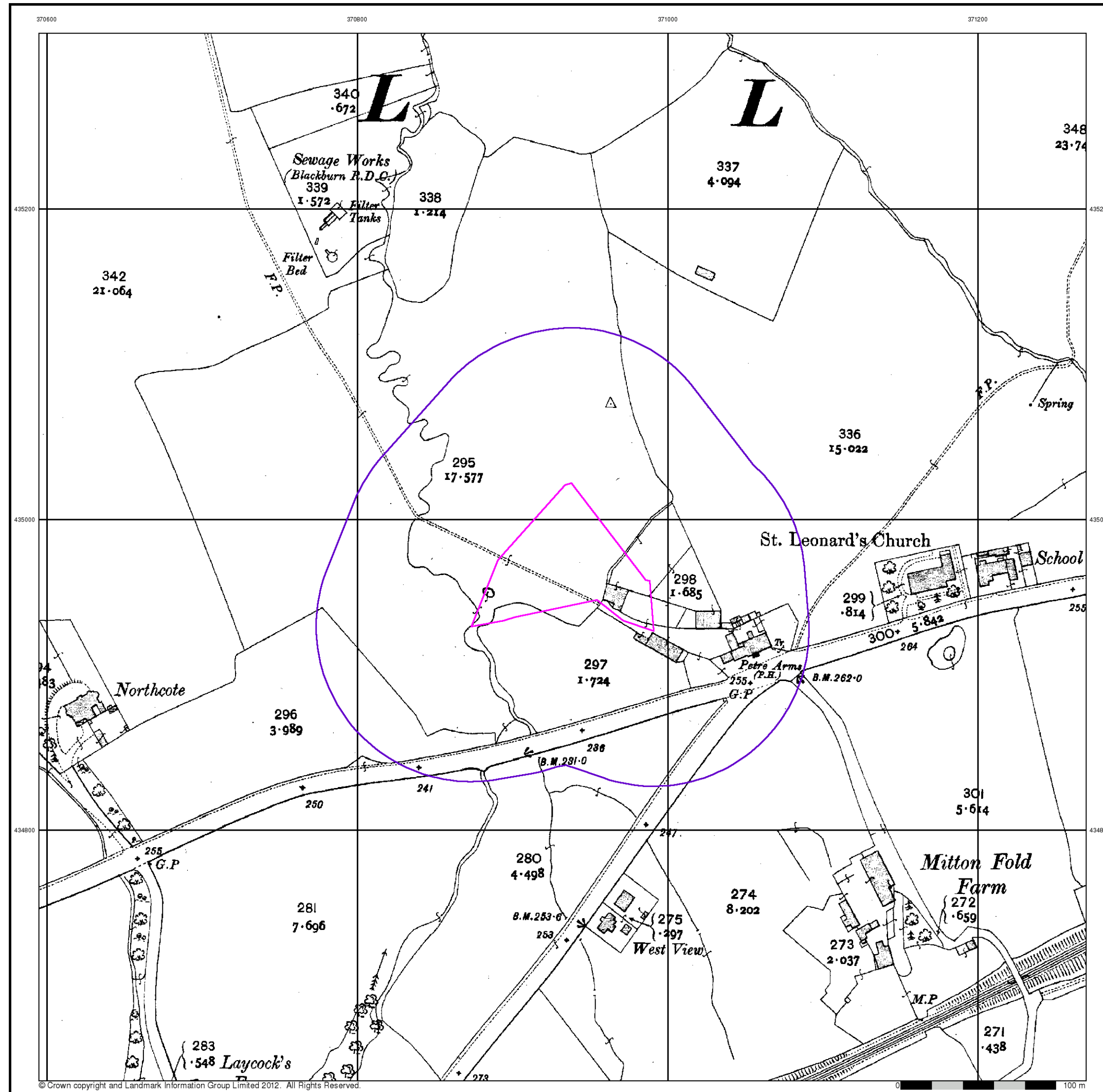
Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

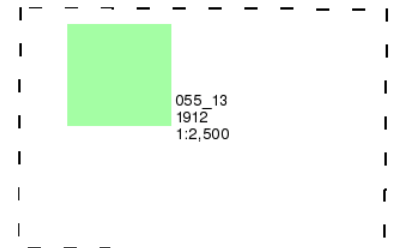
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



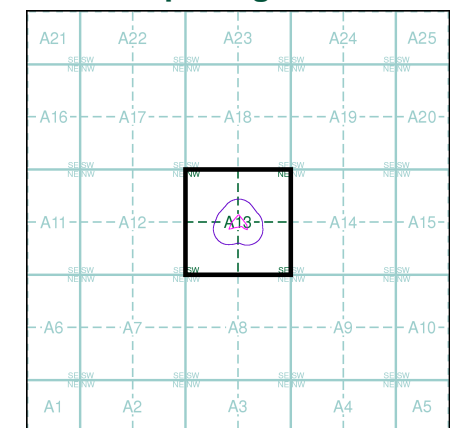
LK
CONSULT LIMITED
Lancashire And Furness
Published 1912
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



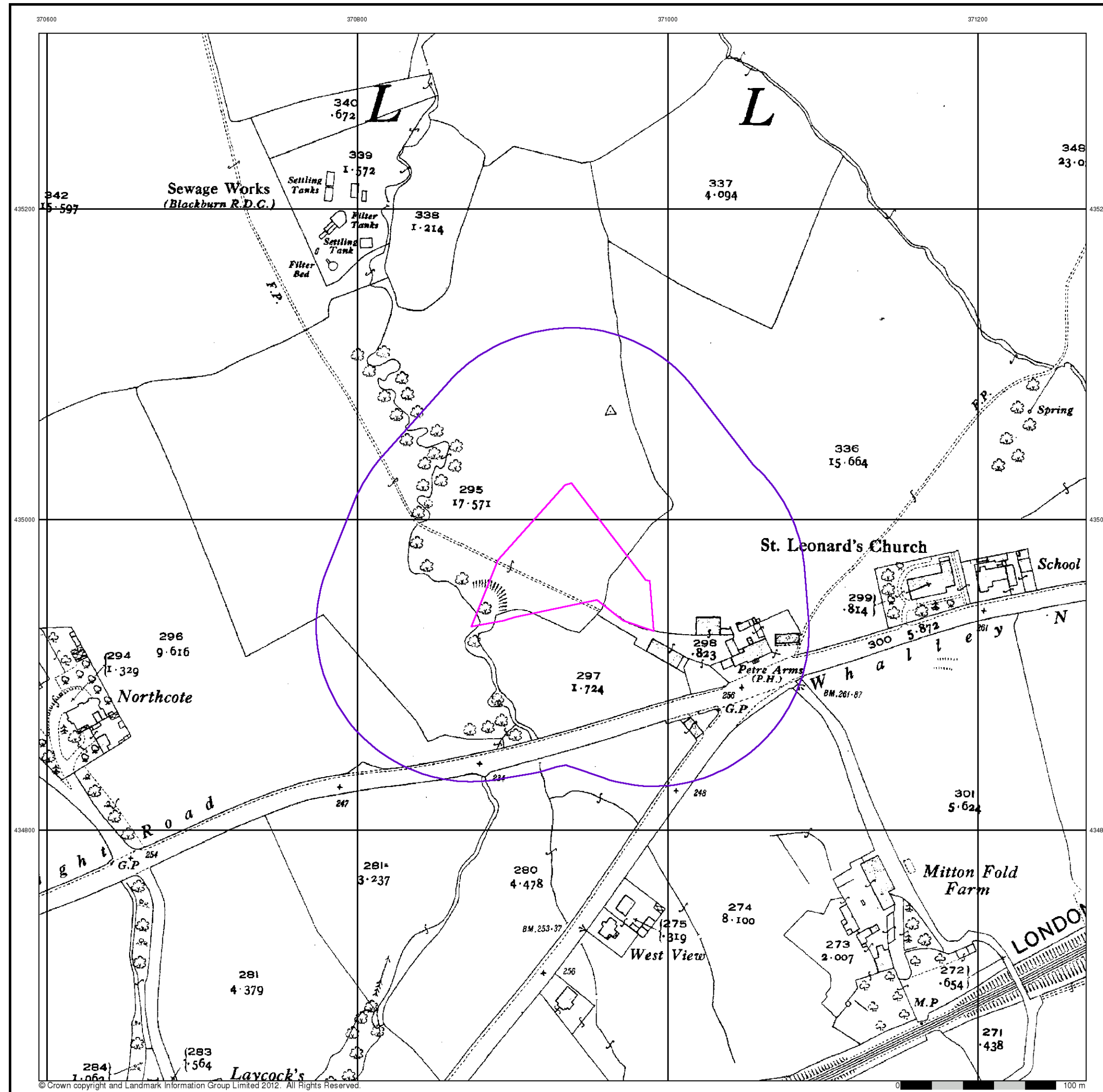
Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

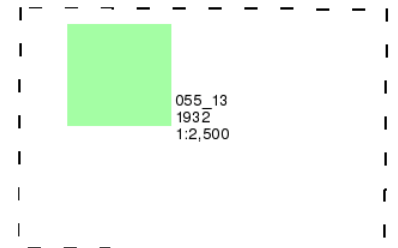
Landmark
Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



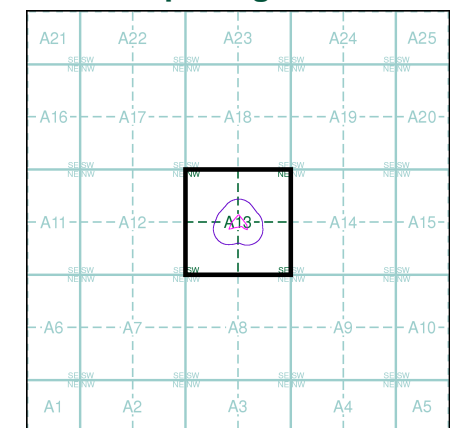
LK
CONSULT LIMITED
Lancashire And Furness
Published 1932
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



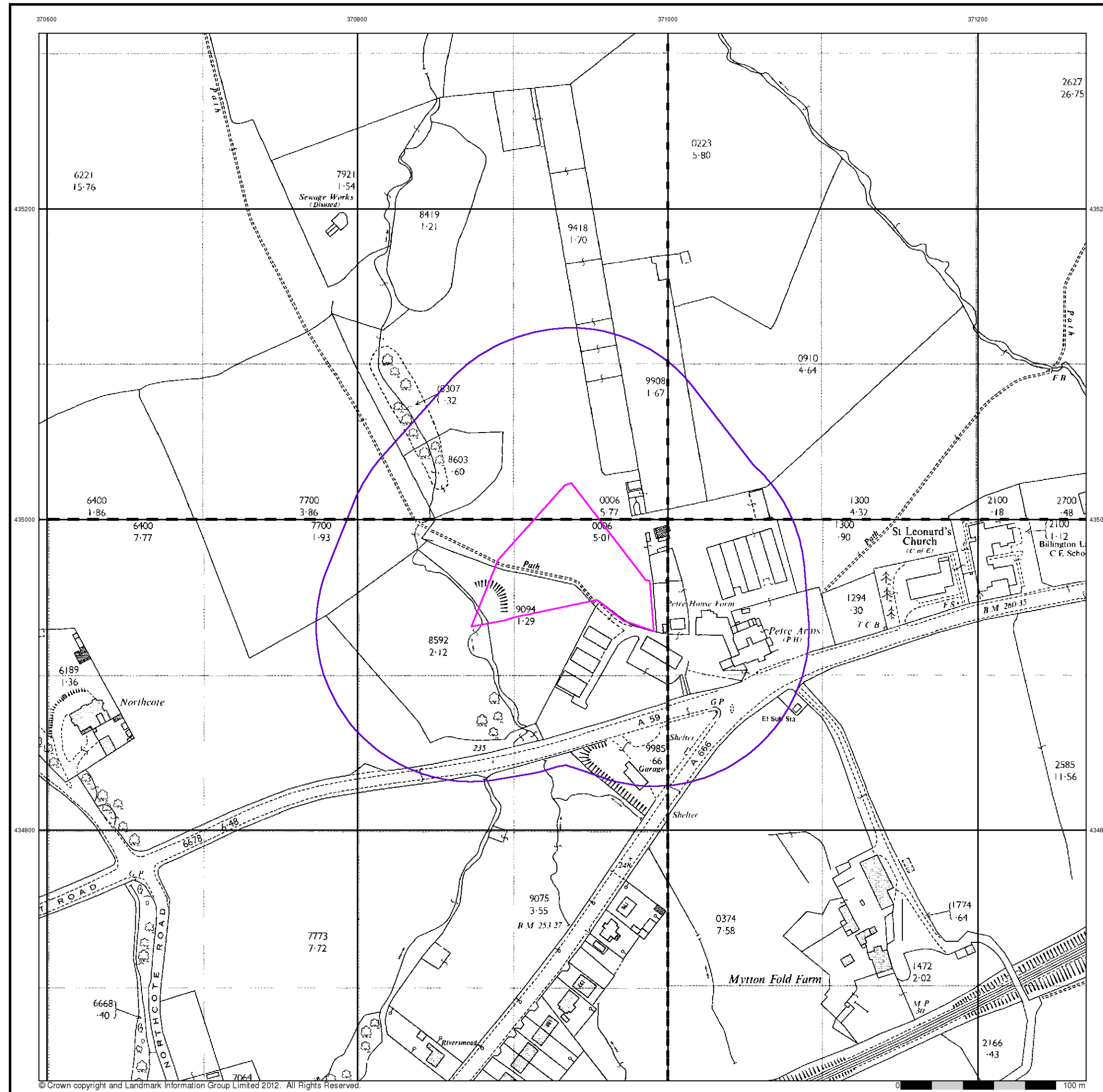
Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

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



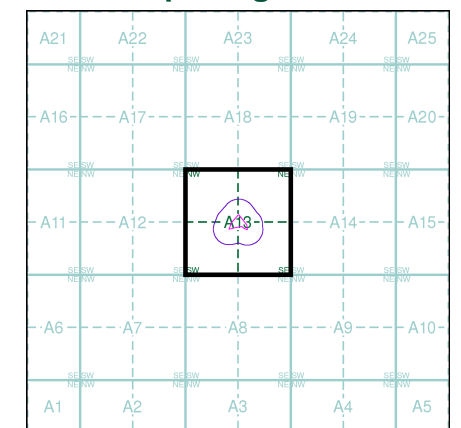
Ordnance Survey Plan
Published 1968 - 1969
Source map scale - 1:2,500

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)

SD7035 1968 12,500	SD7135 1968 12,500
SD7034 1969 12,500	SD7134 1969 12,500

Historical Map - Segment A13



Order Details

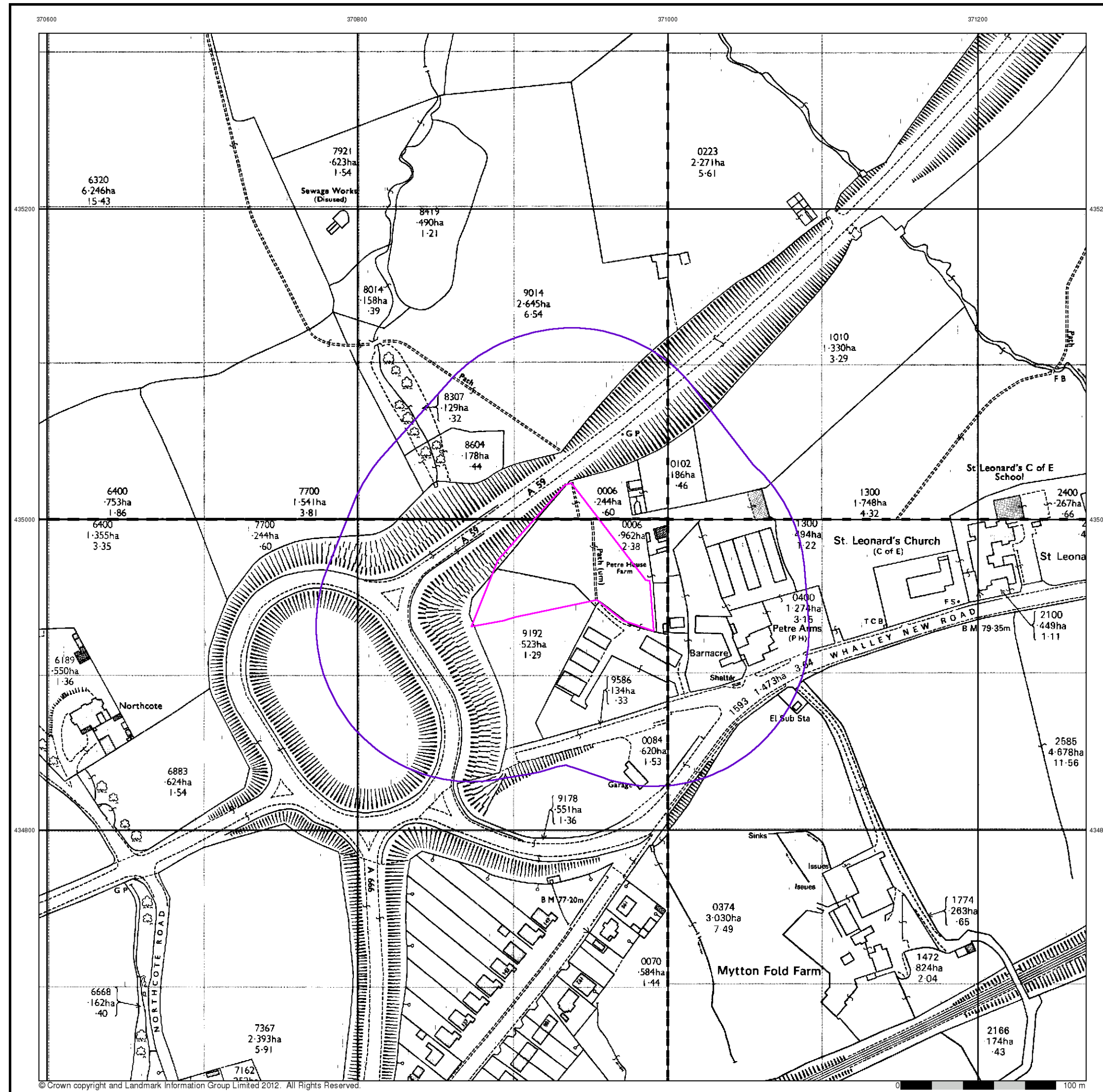
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



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



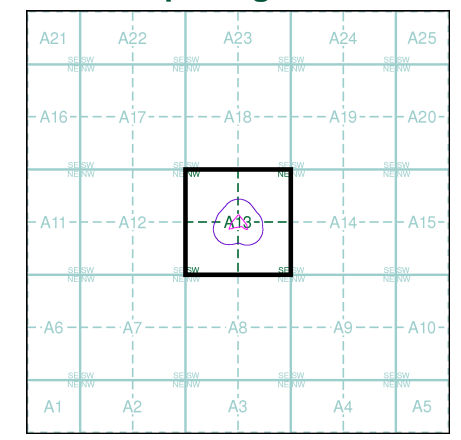
LK
CONSULT LIMITED
Ordnance Survey Plan
Published 1973 - 1982
Source map scale - 1:2,500

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)

SD7035 1973 12,500	SD7135 1973 12,500
SD7034 1977 12,500	SD7134 1982 12,500

Historical Map - Segment A13

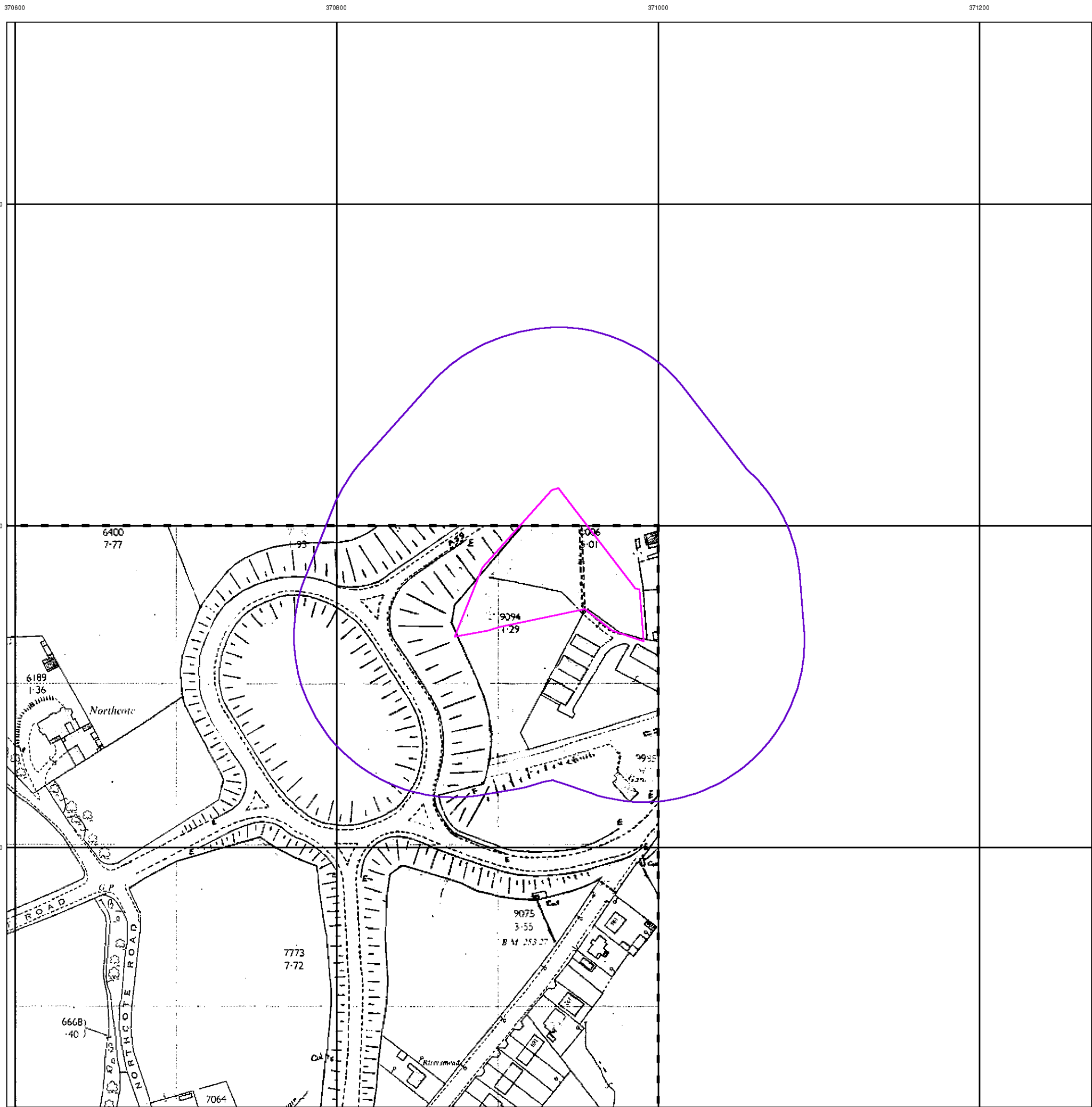


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



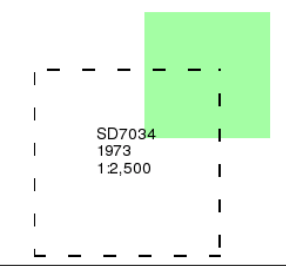
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LK
CONSULT LIMITED
Supply of Unpublished Survey Information

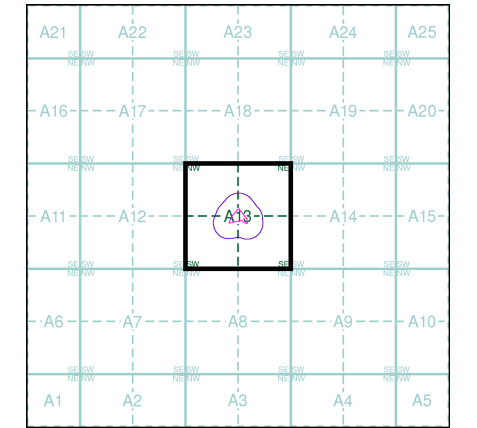
Published 1973
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

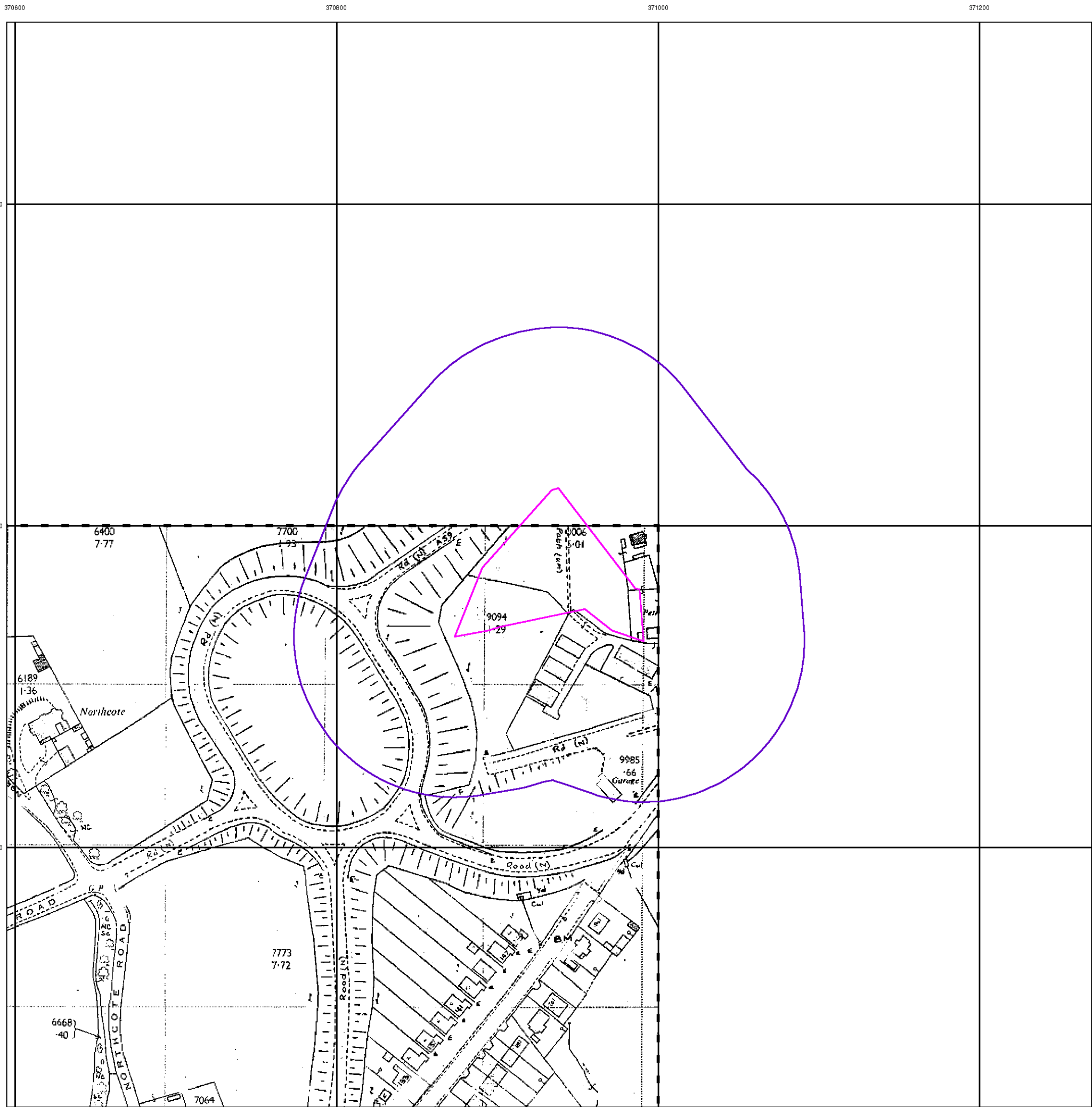


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

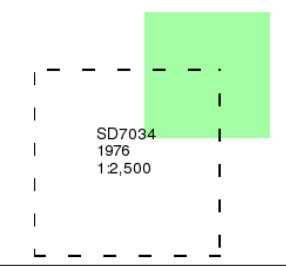
Land at Petre Wood, Langho, Blackburn, BB6 8FD



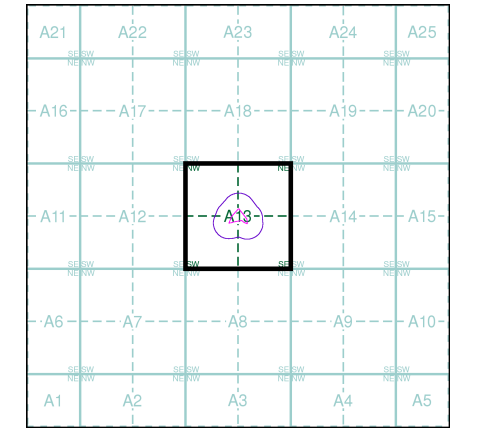
Published 1976
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

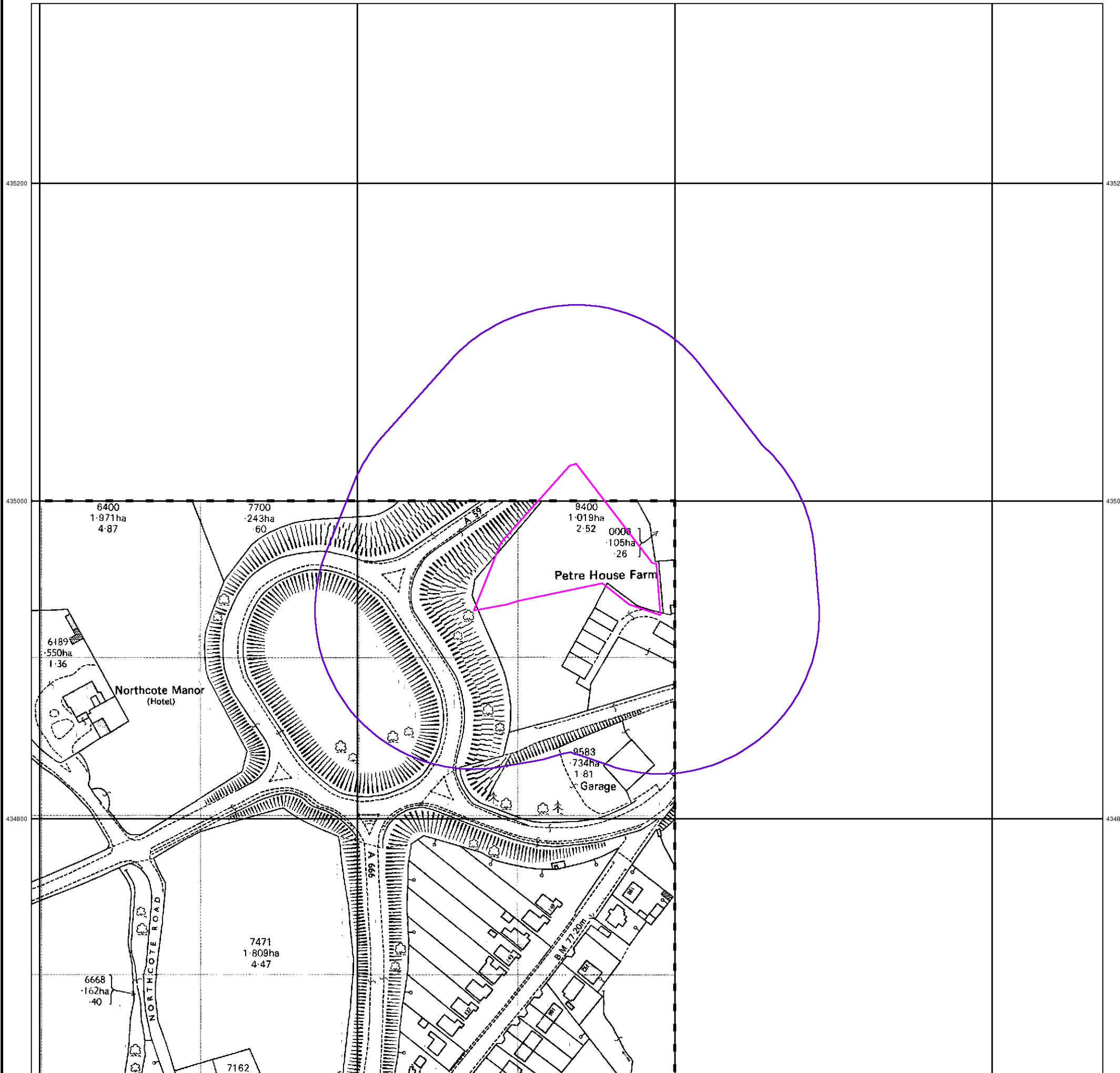
Land at Petre Wood, Langho, Blackburn, BB6 8FD

370600

370800

371000

371200



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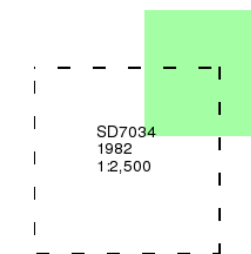
0 100 m

Published 1982

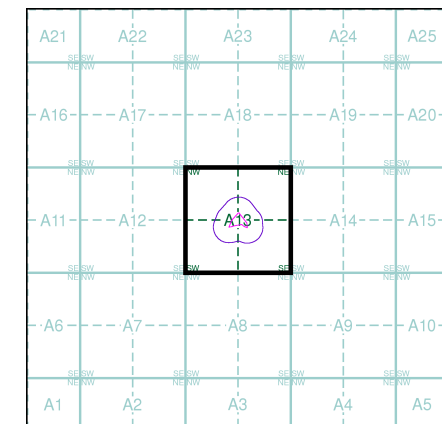
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

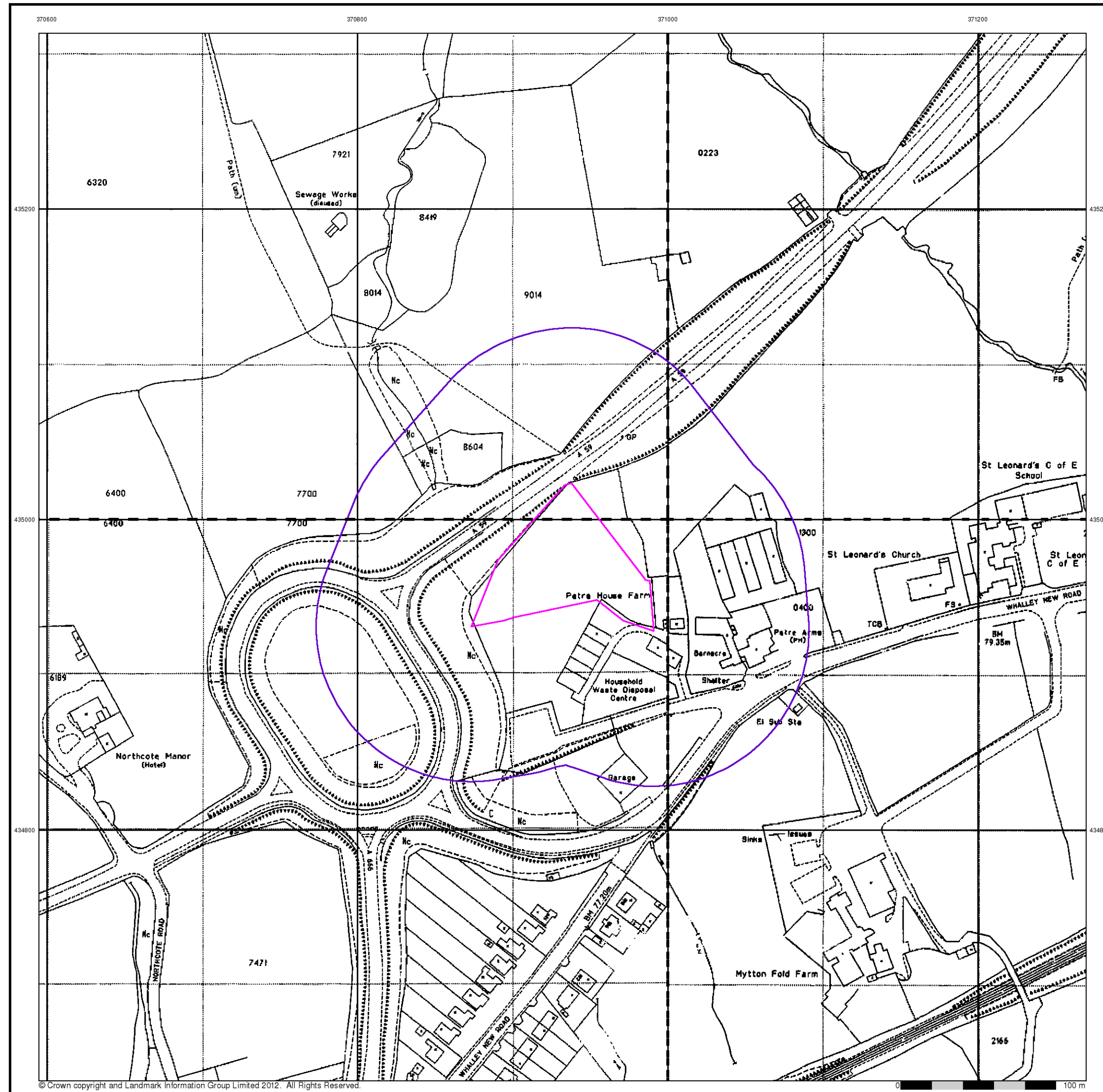


Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 100

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



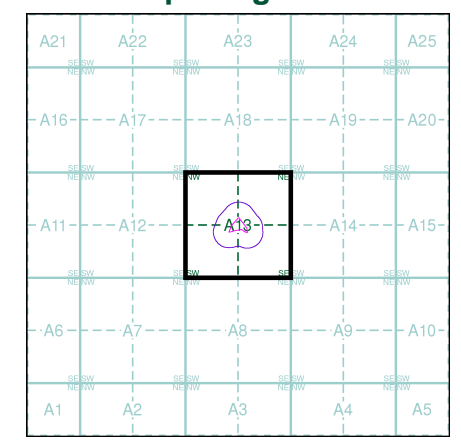
LK
CONSULT LIMITED
Large-Scale National Grid Data
Published 1992
Source map scale - 1:2,500

'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)

SD7035	SD7135
1992	1992
12,500	12,500
SD7034	SD7134
1992	1992
12,500	12,500

Historical Map - Segment A13



Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details

Land at Petra Wood, Langho, Blackburn, BB6 8FD

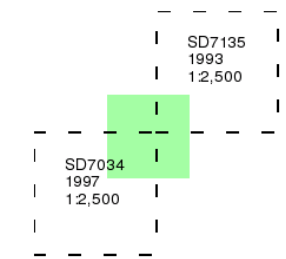
Landmark
Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



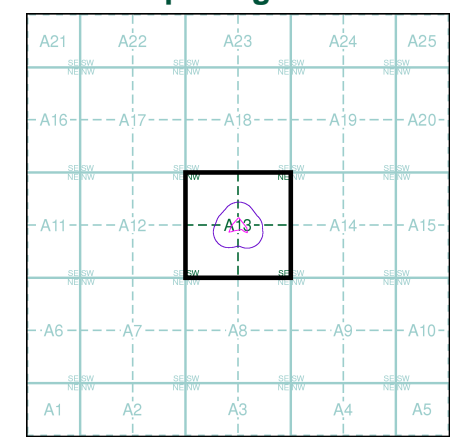
LK
CONSULT LIMITED
Large-Scale National Grid Data
Published 1993 - 1997
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details
Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 100

Site Details
Land at Petre Wood, Langho, Blackburn, BB6 8FD

Landmark
Information Group
Tel: 0844 844 9952
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

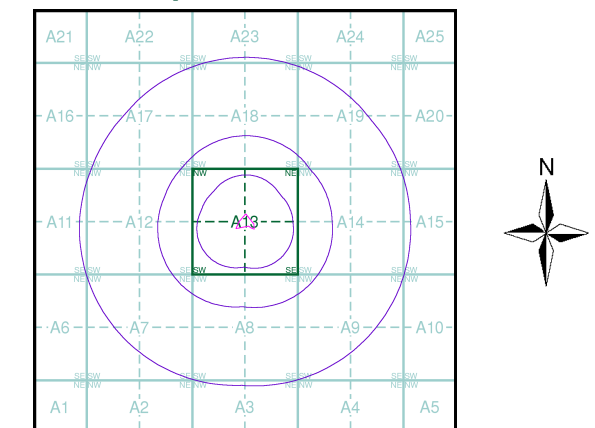
	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Heath
	Rough Grassland		Marsh
	Reeds		Saltings
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

1:10,000 Raster Mapping

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

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1847 - 1848	3
Yorkshire	1:10,560	1848	4
Lancashire And Furness	1:10,560	1895	5
Yorkshire	1:10,560	1896	6
Lancashire And Furness	1:10,560	1912 - 1913	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1966	11
Ordnance Survey Plan	1:10,000	1970 - 1978	12
Ordnance Survey Plan	1:10,000	1972 - 1975	13
Blackburn	1:10,000	1974	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	2006	16
10K Raster Mapping	1:10,000	2012	17

Historical Map - Slice A



Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Fireproof Building		Prominent Fireproof Building
	Non-fireproof Building		Non-fireproof Building (non-dwelling)
	Factory, mill, and flour mill, with chimneys		Factory, mill, and flour mill, without chimneys
	Power Station, drawn to scale		Hydroelectric Power Station
	Radio Station, drawn to scale		Telephone Station, drawn to scale
	Abandoned Open-pit Mine or Quarry		Open-pit Salt Mine
	Pit		Oil Deposit or Well
	Oil Seepage		Natural Gas Tank
	Tailings Pile		Fuel Storage Tanks
	Bench Mark		Drill Hole
	Burial Mound		Triangulation Point on Burial Mound
	Single-track Railroad		Double-track Railroad
	Small Bridge		Tunnel
	Pipe (Culvert)		Railroad and Station Building
	Coniferous Forest		Deciduous Forest
	Mixed Forest		Lawns
	Citrus Orchard		Wet Ground
	Scattered Vegetation		

243,8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0,2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

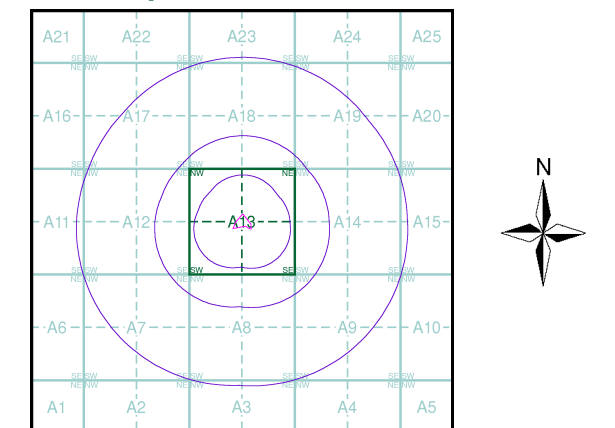
	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Partly Demolished Buildings		Demolished Buildings
	Built-Up Area with Fireproof Buildings Predominant		Built-Up Area with Non-Fireproof Buildings Predominant
	Individual Fireproof Building		Prominent Industrial Building
	Individual Dwelling, Fireproof		Ruins of an Individual Dwelling
	Factory or Mill Chimney		Factory or Mill with Chimney
	Factory or Mill without Chimney		Salt Mine
	Operating Shaft or Mine		Non-Operating Shaft or Mine
	Pit		Stone Quarry
	Gas Pump or Service Station		Fuel Storage or Natural Gas Tank
	Oil or Natural Gas Derrick		Small Hydroelectric Power Station
	Power Station		Transformer Station
	Cemetery		Burial Mound (height in metres)
	Triangulation Point on Burial Mound		Triangulation Point
	Bench Mark		Bench Mark (monumented)
	Telegraph Office		Telephone Station
	Radio Station		Radio Tower
	Airfield or Seaplane Base		Landing Strip
	Cut		Fill
	Km Post		Plantings
	Telegraph/Telephone Lines		Main Highway
	Highway under Construction		Improved Dirt Road (former truck road)
	Small Bridge		Pipe (Culvert)
	Tunnel		Dismantled Railroad
	Double-track Railroad with First Class Station		Railroad Under Construction
	Shore Embankment		River or Ditch with Embankment
	Water Reservoir or Rain Water Pit		Spring
	Well		Isobath with value
	Heavy (Index) Contour Line		Half Contour Line
	Contour Line and Value		Spot Elevation Value
	Coniferous		Deciduous
	Mixed		Scrub

Key to Numbers on Mapping

LK
CONSULT LIMITED
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1847 - 1848	3
Yorkshire	1:10,560	1848	4
Lancashire And Furness	1:10,560	1895	5
Yorkshire	1:10,560	1896	6
Lancashire And Furness	1:10,560	1912 - 1913	7
Lancashire And Furness	1:10,560	1932 - 1933	8
Lancashire And Furness	1:10,560	1938	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1966	11
Ordnance Survey Plan	1:10,000	1970 - 1978	12
Ordnance Survey Plan	1:10,000	1972 - 1975	13
Blackburn	1:10,000	1974	14
Ordnance Survey Plan	1:10,000	1992	15
10K Raster Mapping	1:10,000	2006	16
10K Raster Mapping	1:10,000	2012	17

Russian Map - Slice A



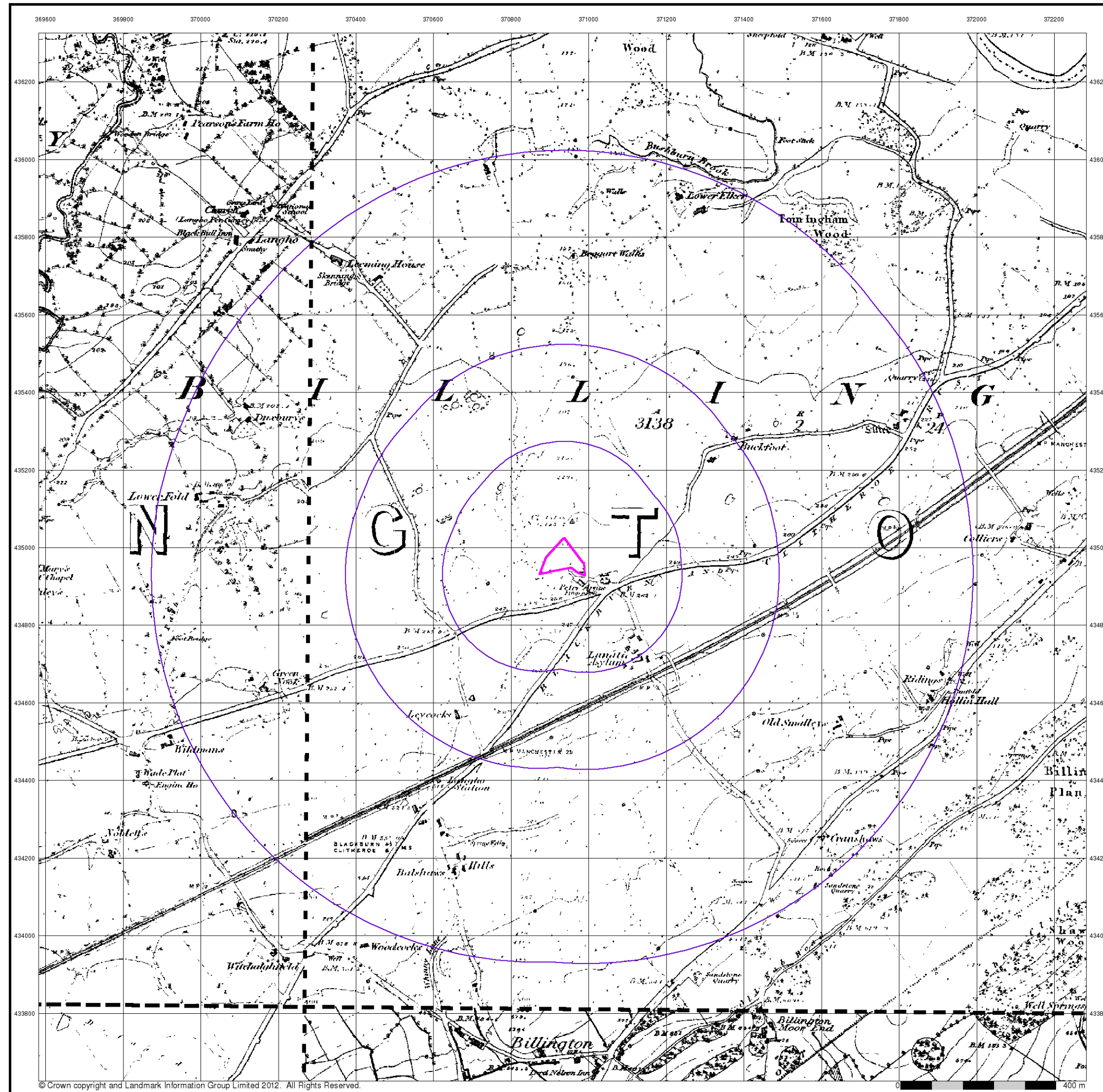
Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

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



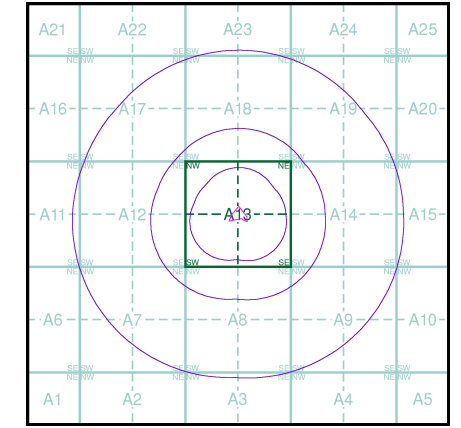
LK
 CONSULT LIMITED
Lancashire And Furness
 Published 1847 - 1848
 Source map scale - 1:10,560

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

Map Name(s) and Date(s)

05400 1847 1:10,560	05500 1848 1:10,560
06200 1848 1:10,560	06300 1848 1:10,560

Historical Map - Slice A



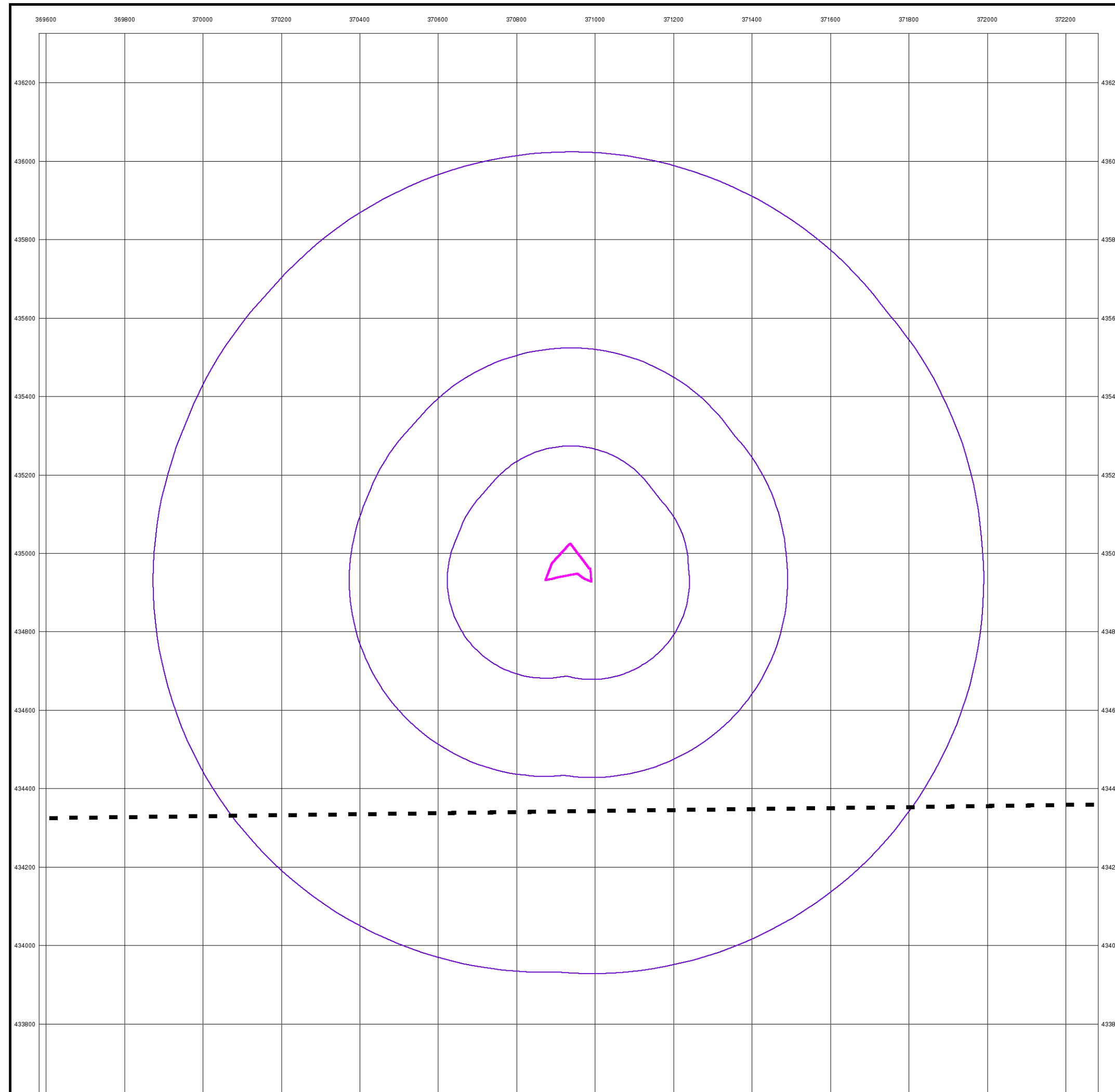
Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

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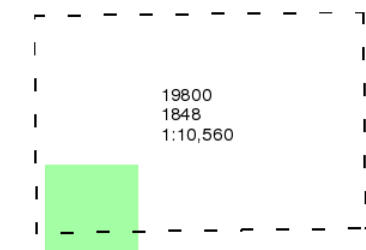


Published 1848

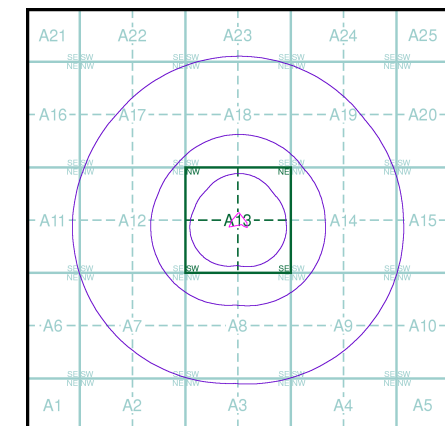
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

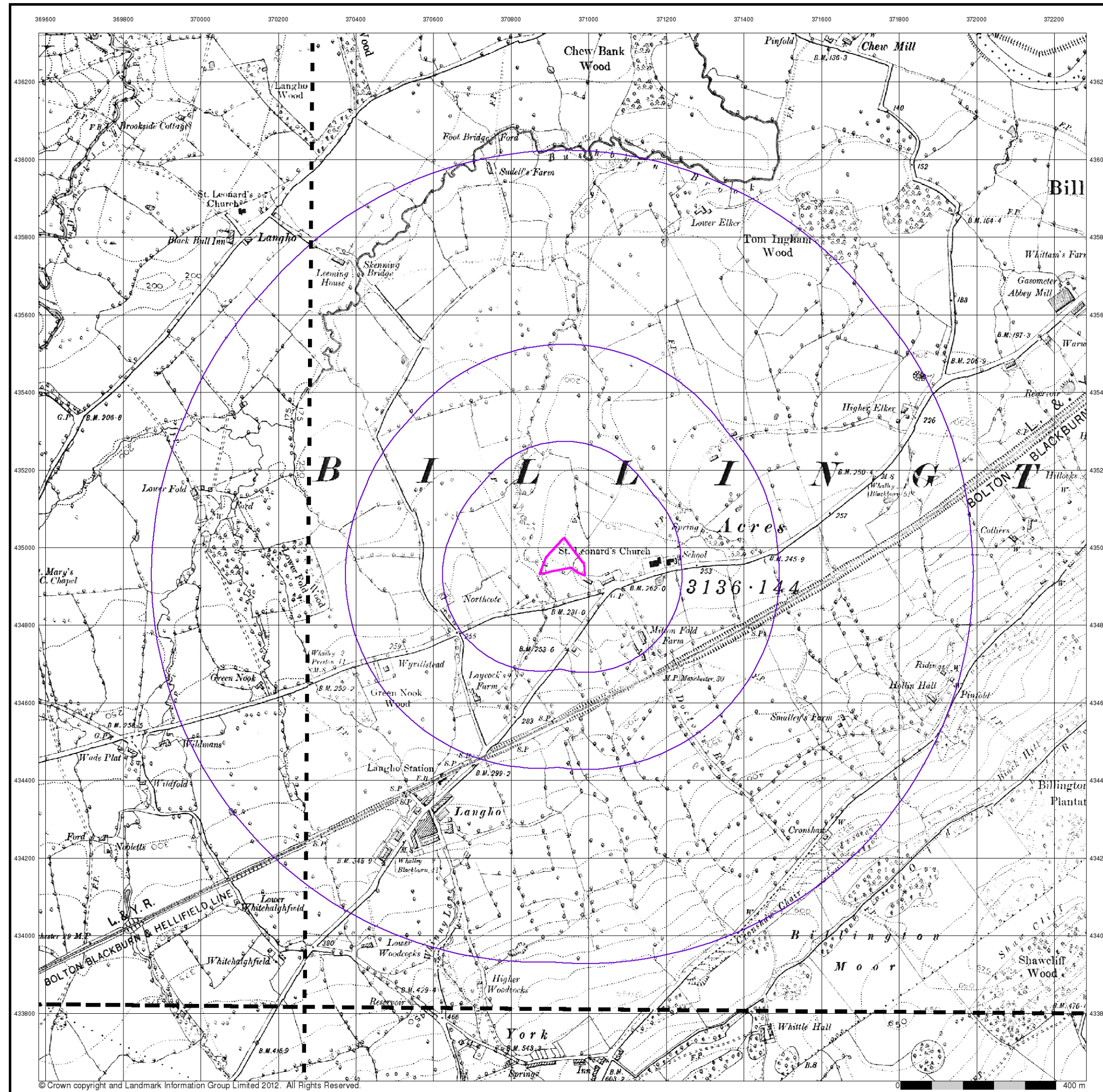


Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



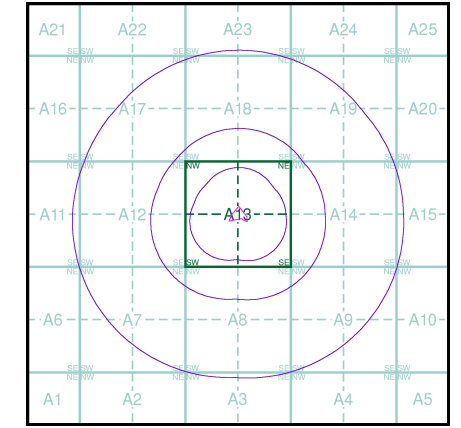
LK
CONSULT LIMITED
Lancashire And Furness
Published 1895
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

054SE 1895 1:10,560	055SW 1895 1:10,560
062NE 1895 1:10,560	063NW 1895 1:10,560

Historical Map - Slice A

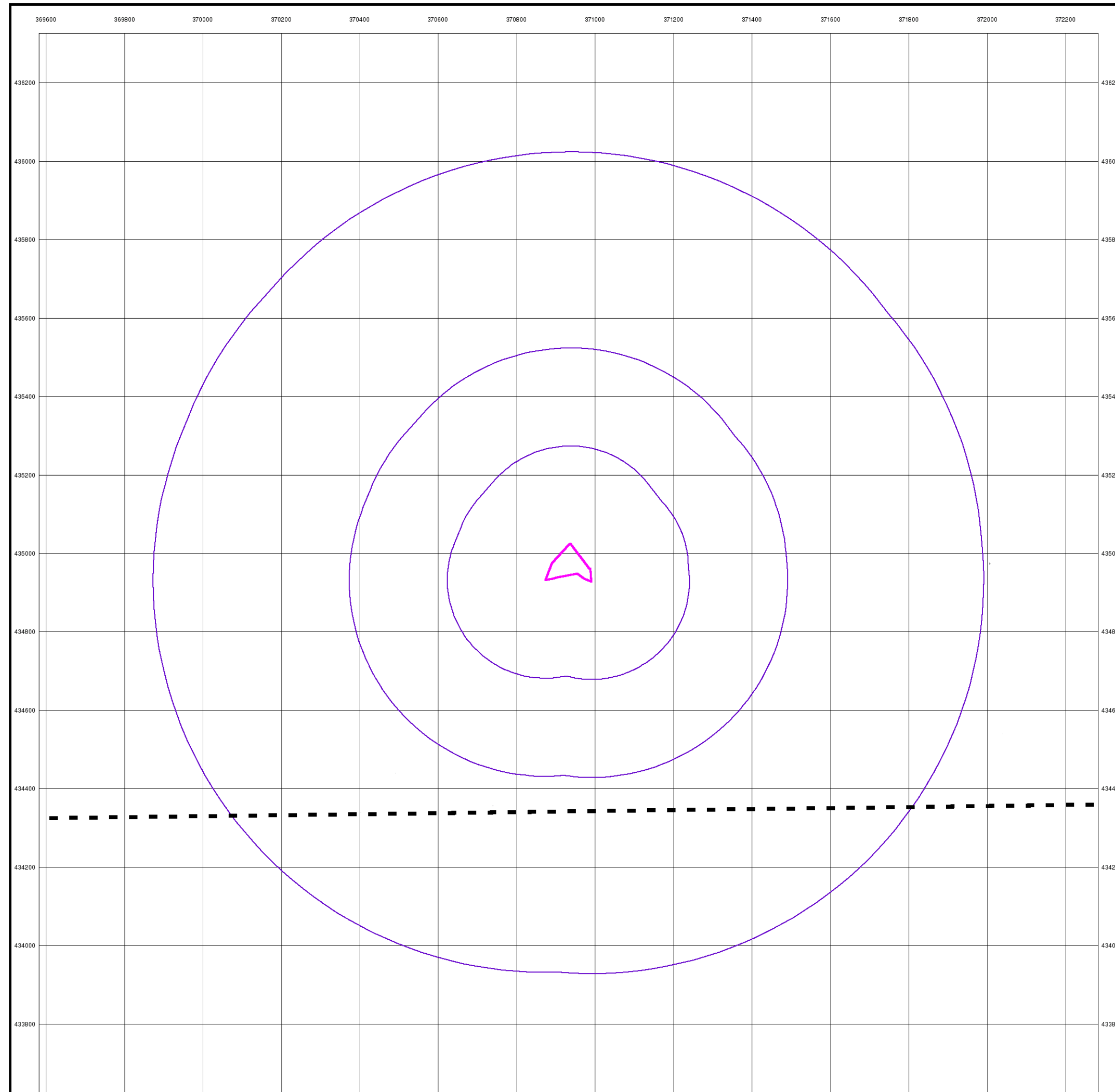


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



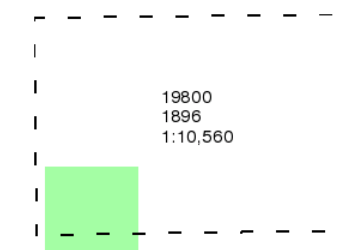
© Crown copyright and Landmark Information Group Limited 2012. All Rights Reserved.



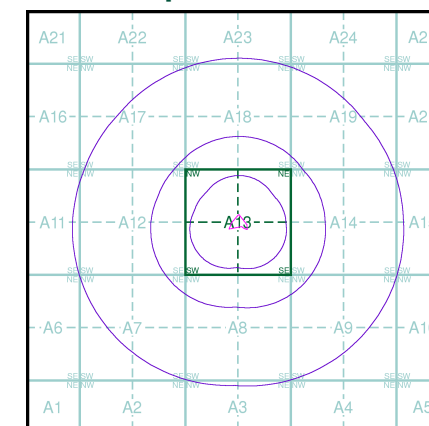
Published 1896
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

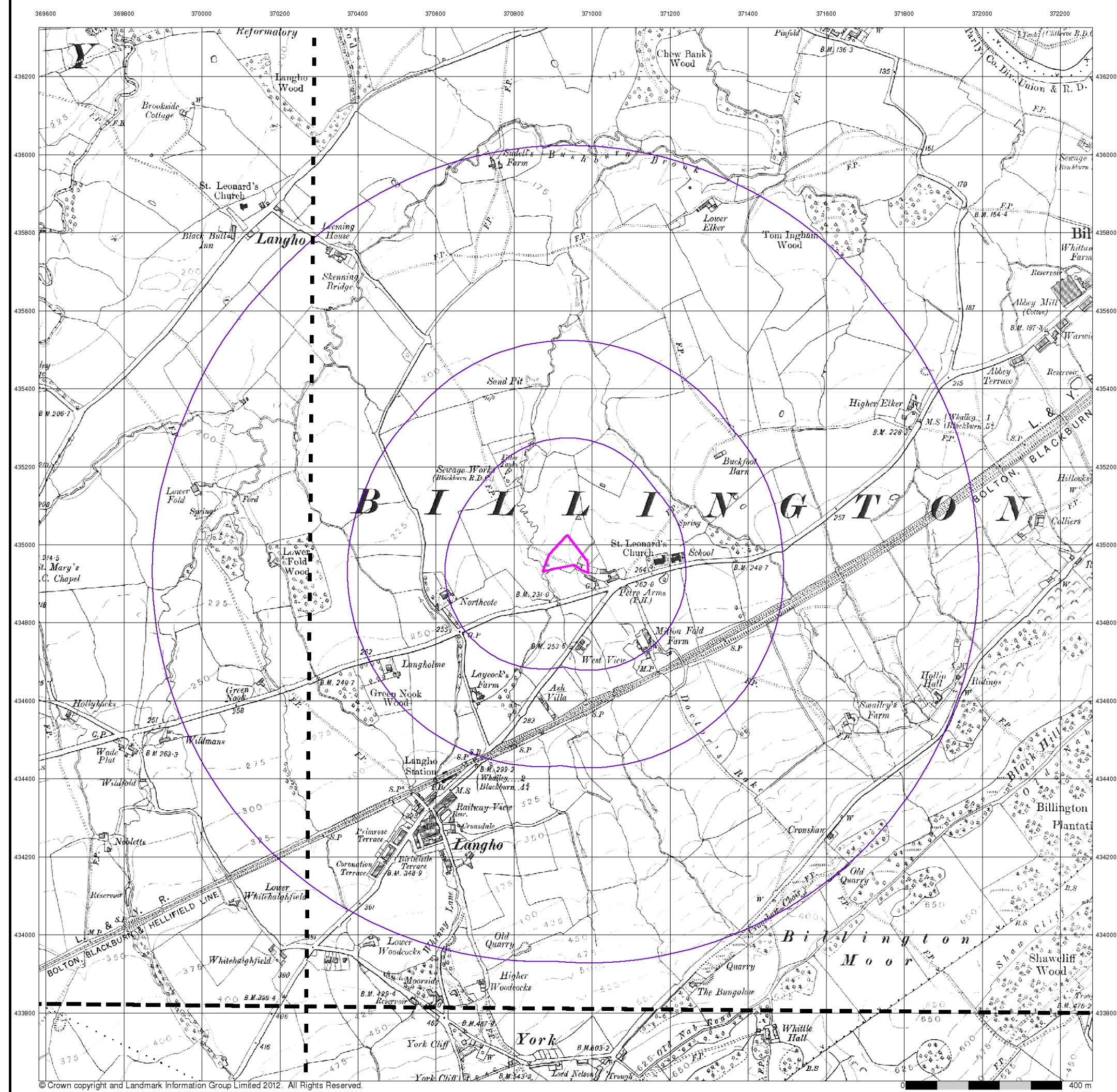
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
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Site Details

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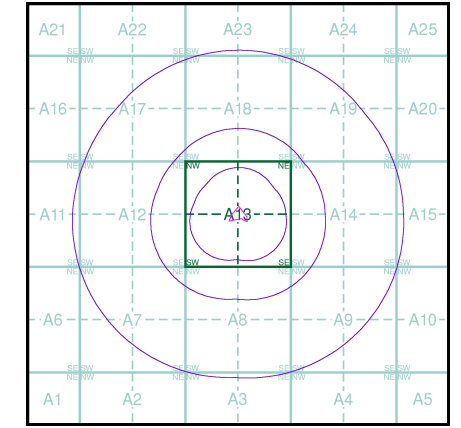
LK
CONSULT LIMITED
Lancashire And Furness
Published 1912 - 1913
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

054SE 1913 1:10,560	055SW 1913 1:10,560
062NE 1912 1:10,560	063NW 1912 1:10,560

Historical Map - Slice A

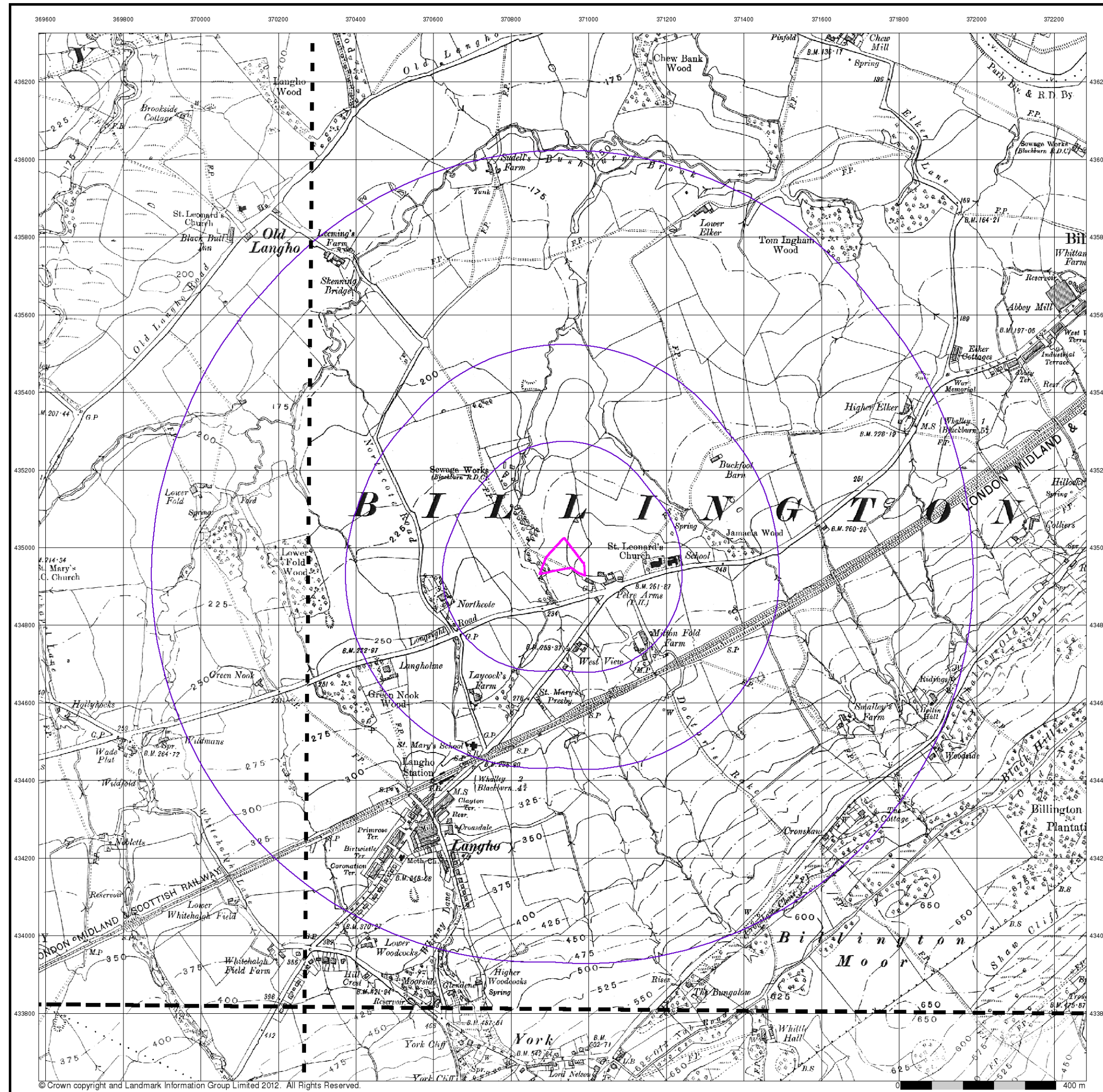


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



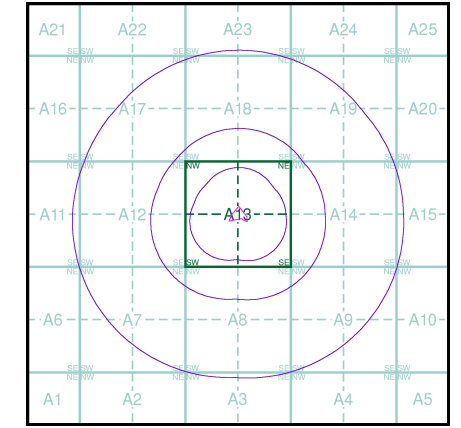
LK
CONSULT LIMITED
Lancashire And Furness
Published 1932 - 1933
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

054SE 1932 1:10,560	055SW 1933 1:10,560
062NE 1932 1:10,560	063NW 1932 1:10,560

Historical Map - Slice A



Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

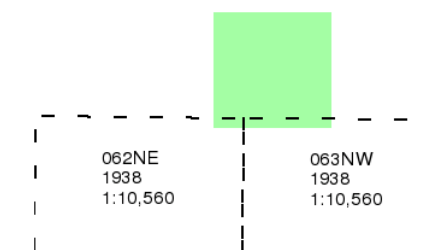
Landmark
Information Group
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Published 1938

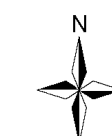
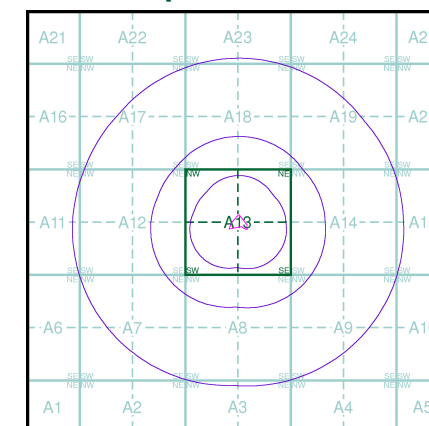
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

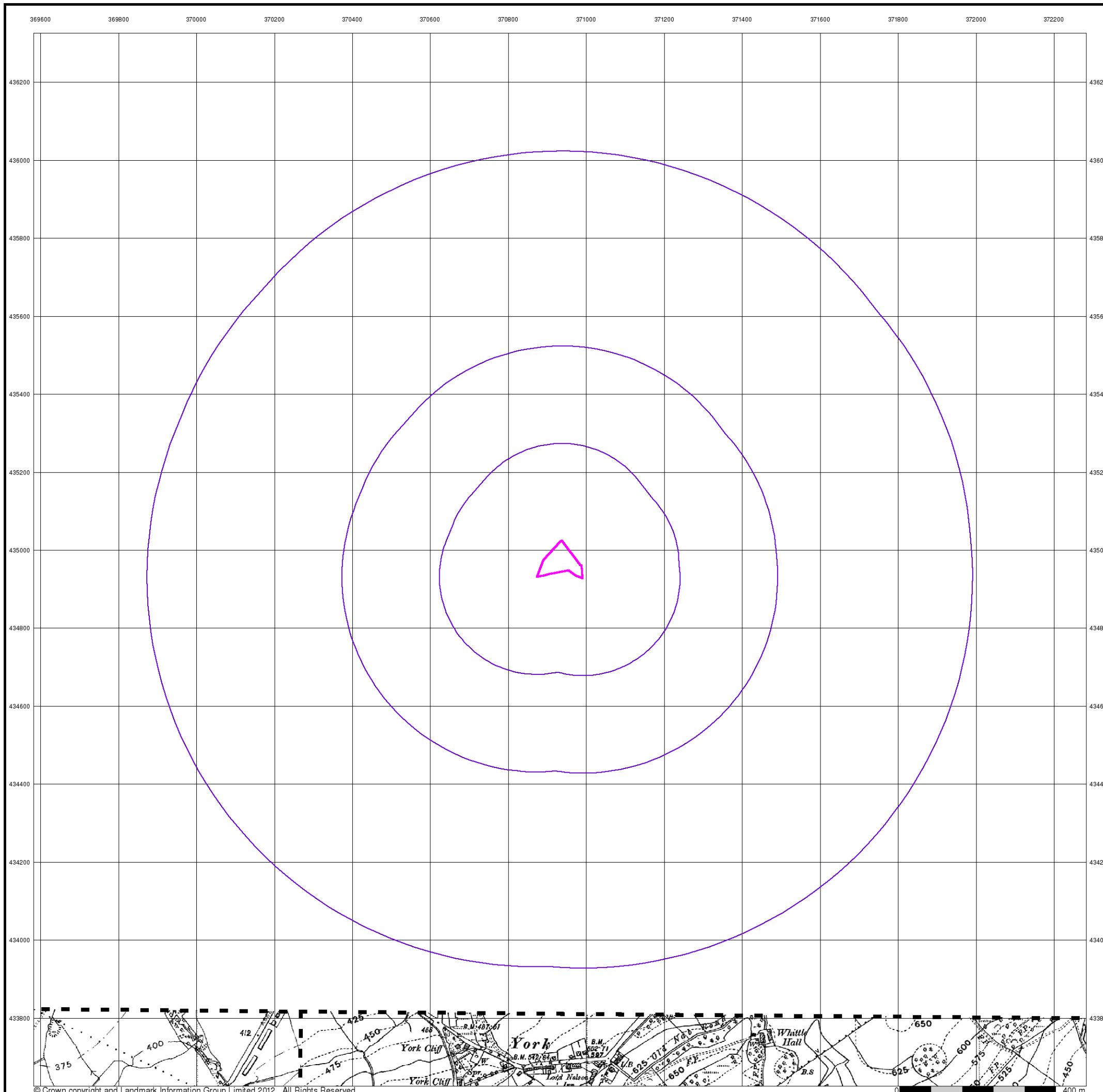


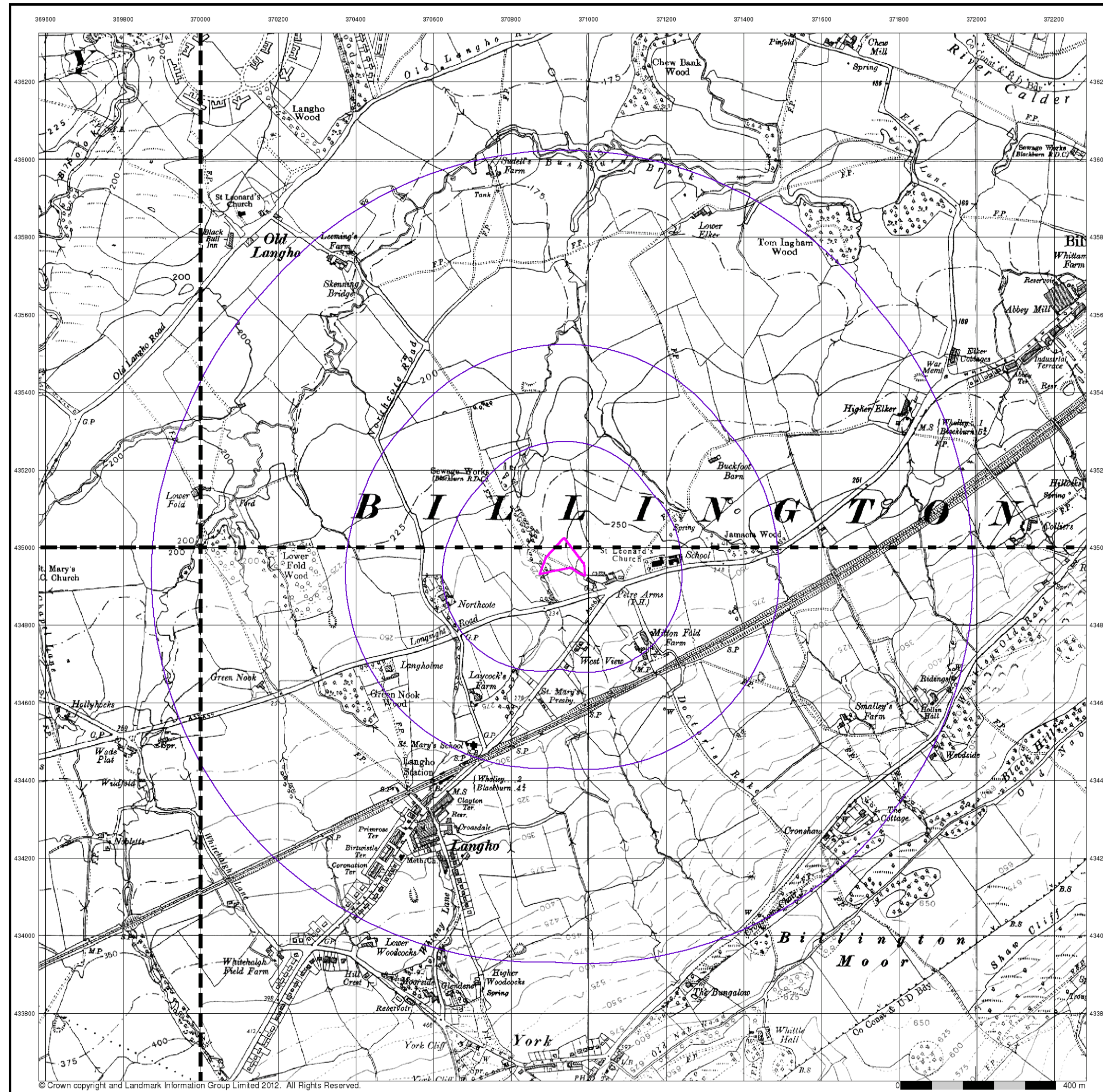
Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD





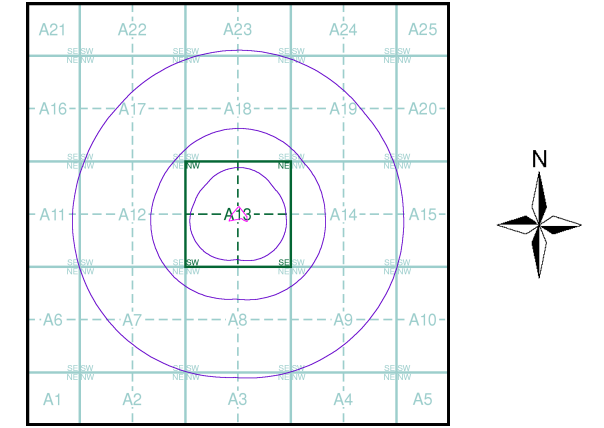
Ordnance Survey Plan
Published 1955 - 1956
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD63NE	SD73NW
1956	1955
1:10,560	1:10,560
SD63SE	SD73SW
1956	1955
1:10,560	1:10,560

Historical Map - Slice A



Order Details

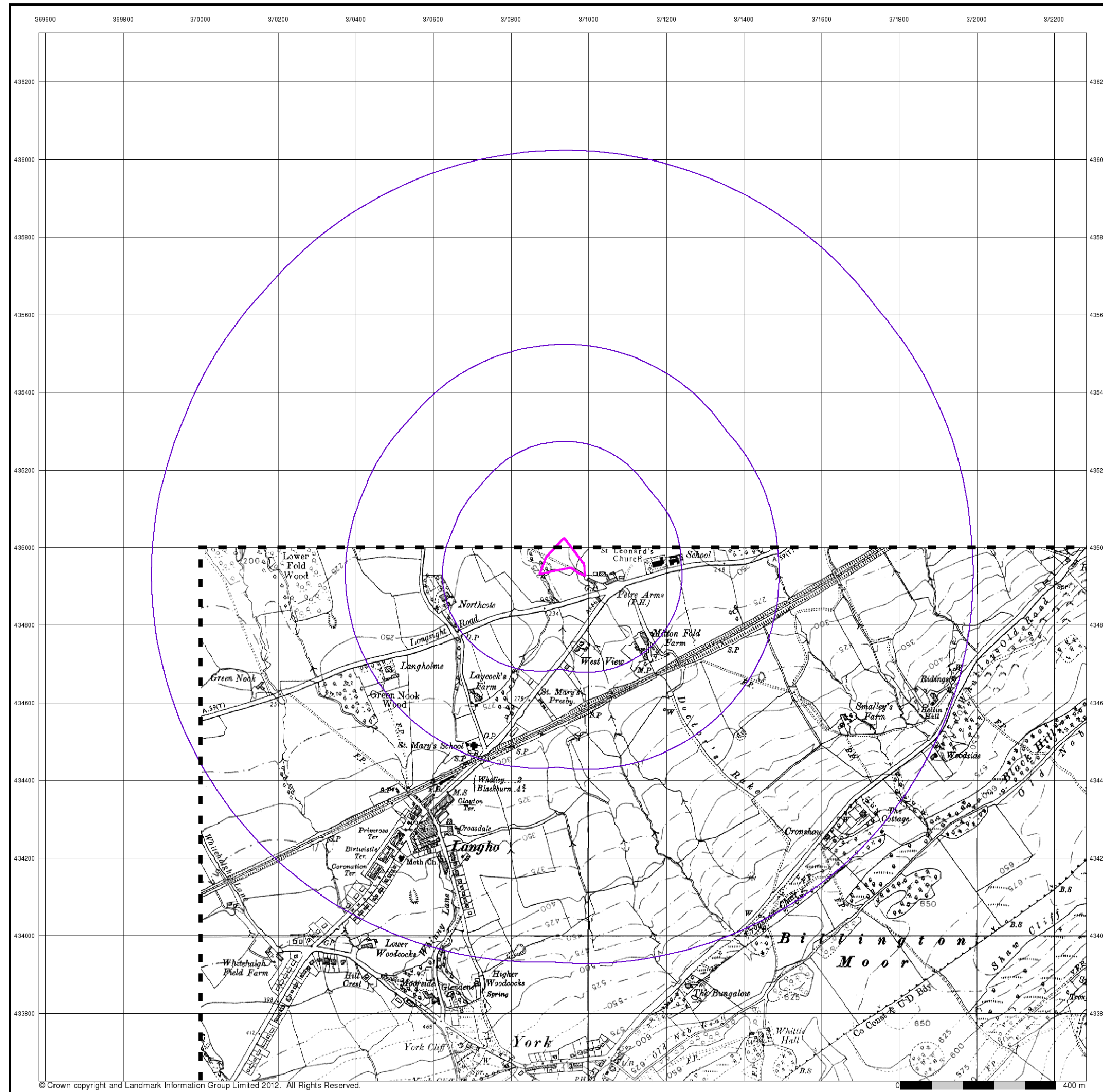
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
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Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



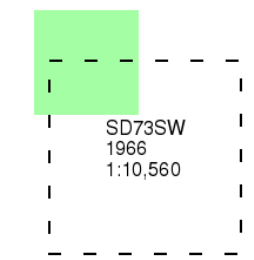
Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



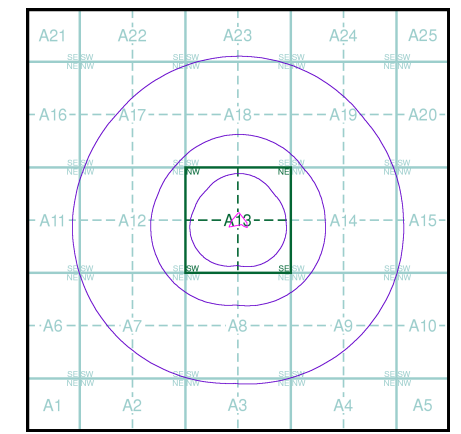
Published 1966
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

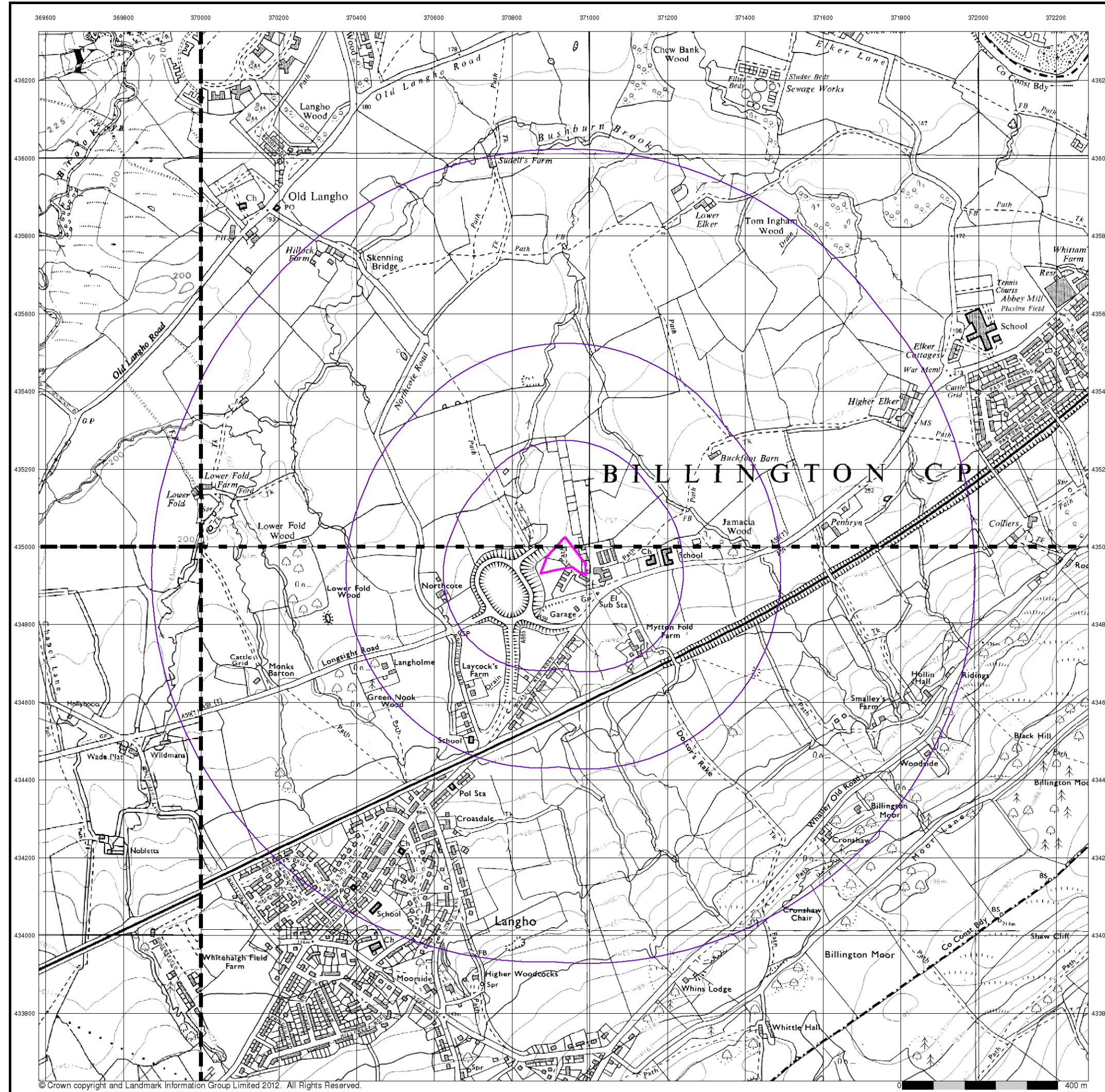


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
National Grid Reference: 370930, 434960
Slice: A
Site Area (Ha): 0.59
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Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



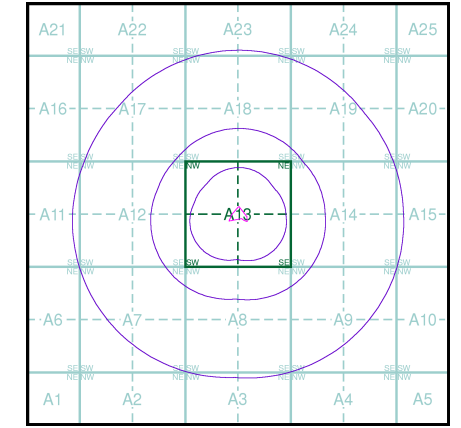
Ordnance Survey Plan
Published 1970 - 1978
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD63NE	SD73NW
1970	1970
1:10,560	1:10,560
SD63SE	SD73SW
1978	1973
1:10,000	1:10,000

Historical Map - Slice A



Order Details

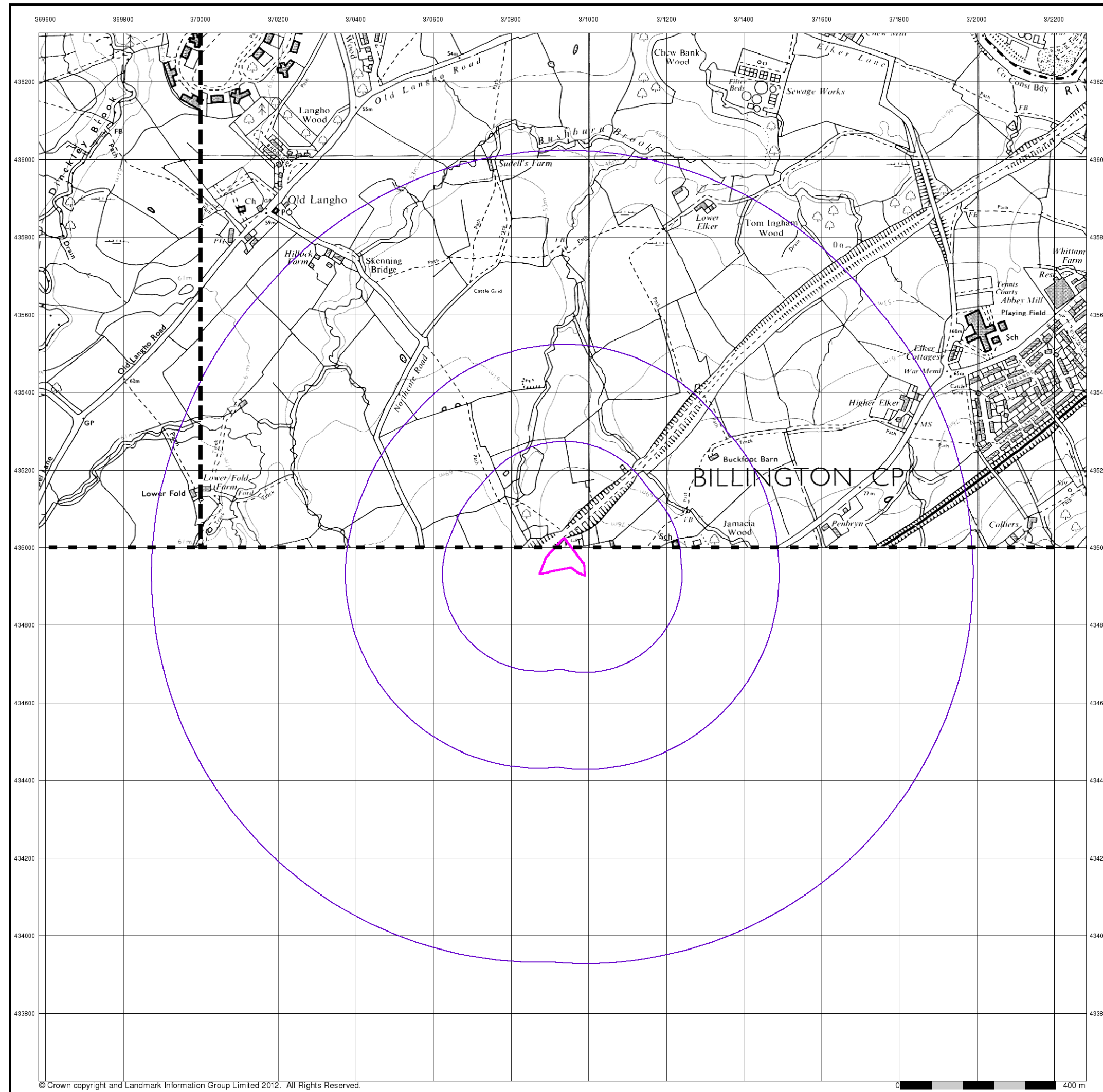
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
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Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



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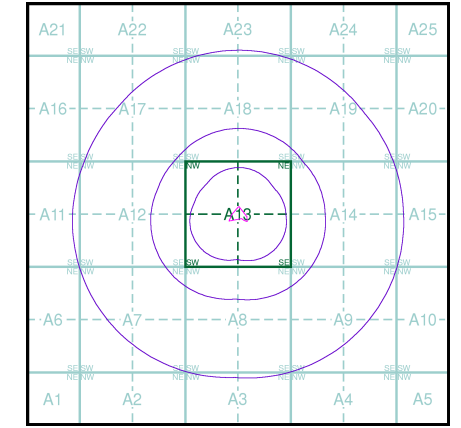
Ordnance Survey Plan
Published 1972 - 1975
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD63NE 1972 1:10,000	SD73NW 1975 1:10,000
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Historical Map - Slice A



Order Details
 Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details
 Land at Petre Wood, Langho, Blackburn, BB6 8FD

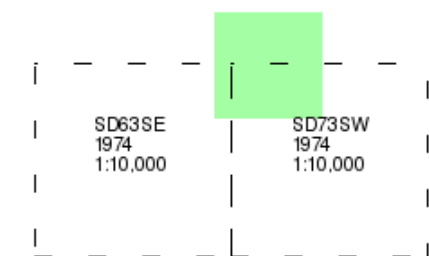
Published 1974

Source map scale - 1:10,000

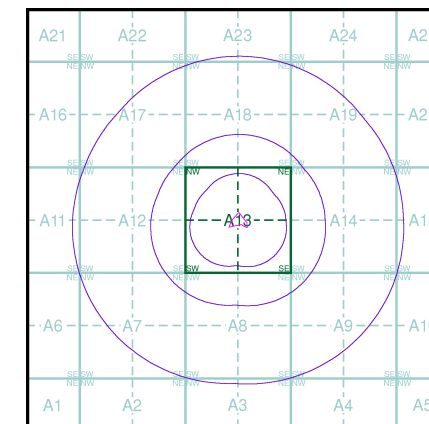
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A

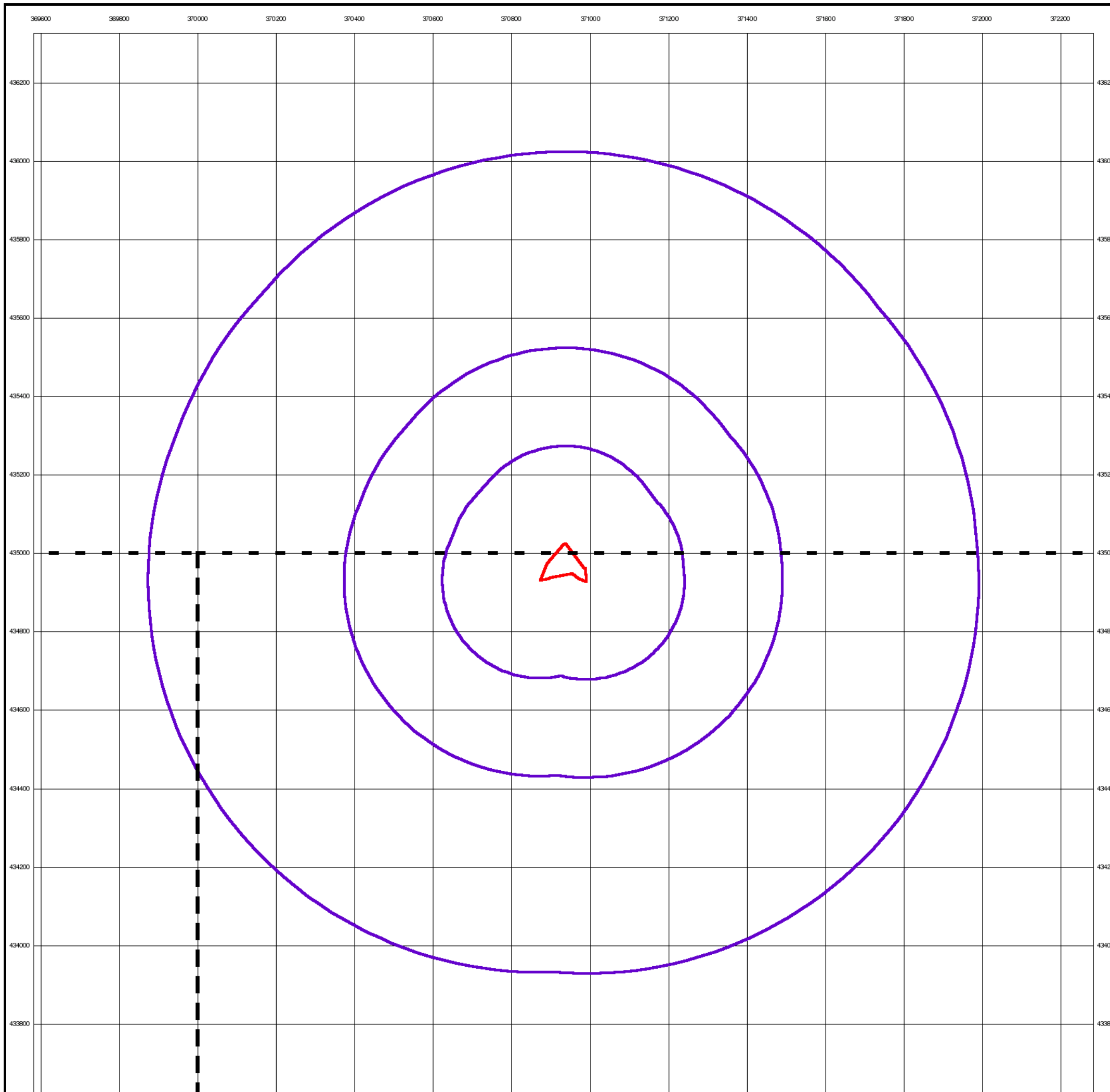


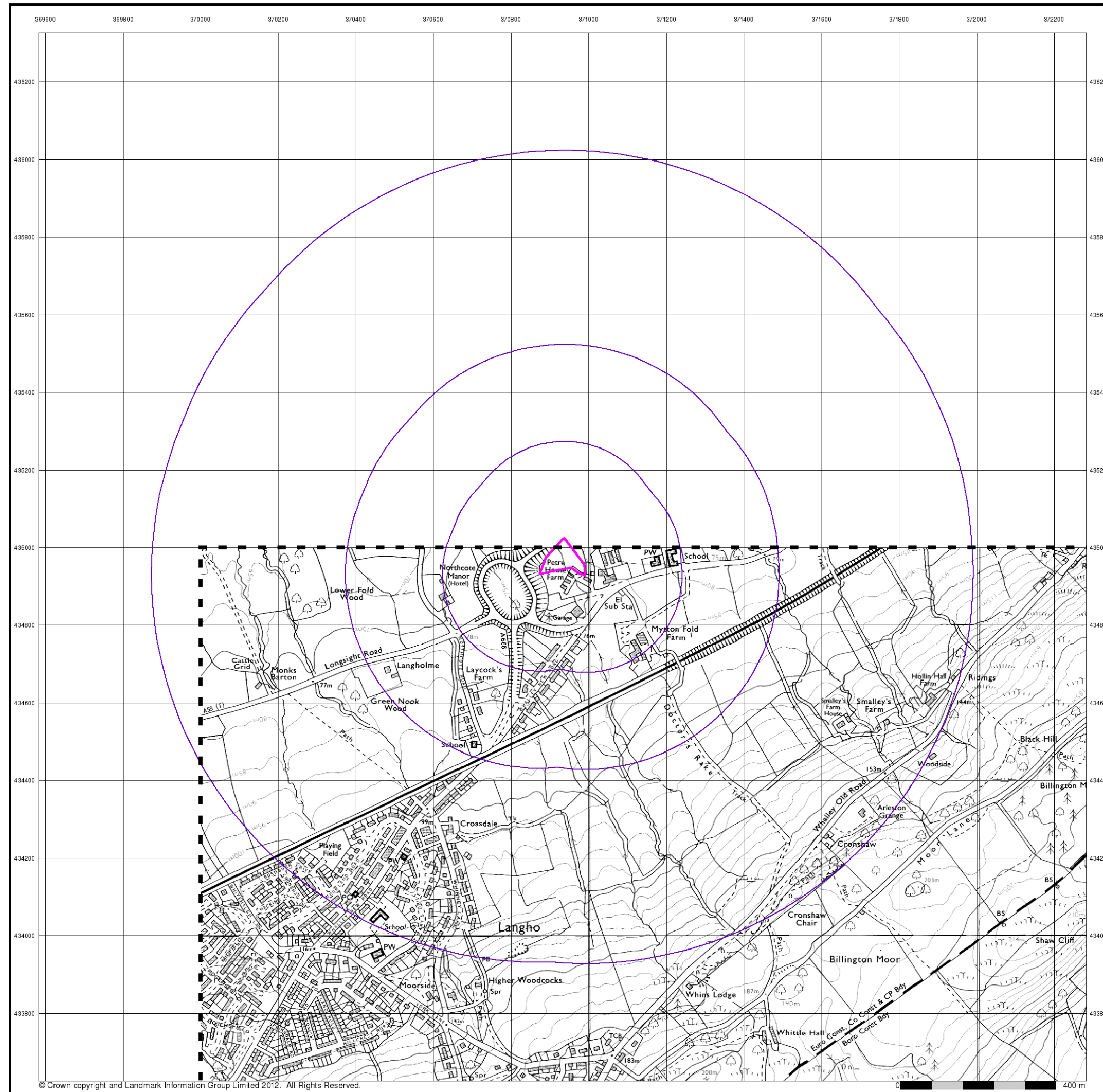
Order Details

Order Number: 41670718_1_1
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Site Details

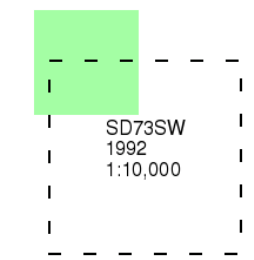
Land at Petre Wood, Langho, Blackburn, BB6 8FD



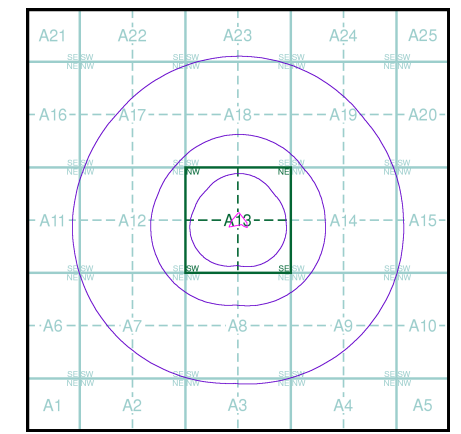


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Map Name(s) and Date(s)



Historical Map - Slice A

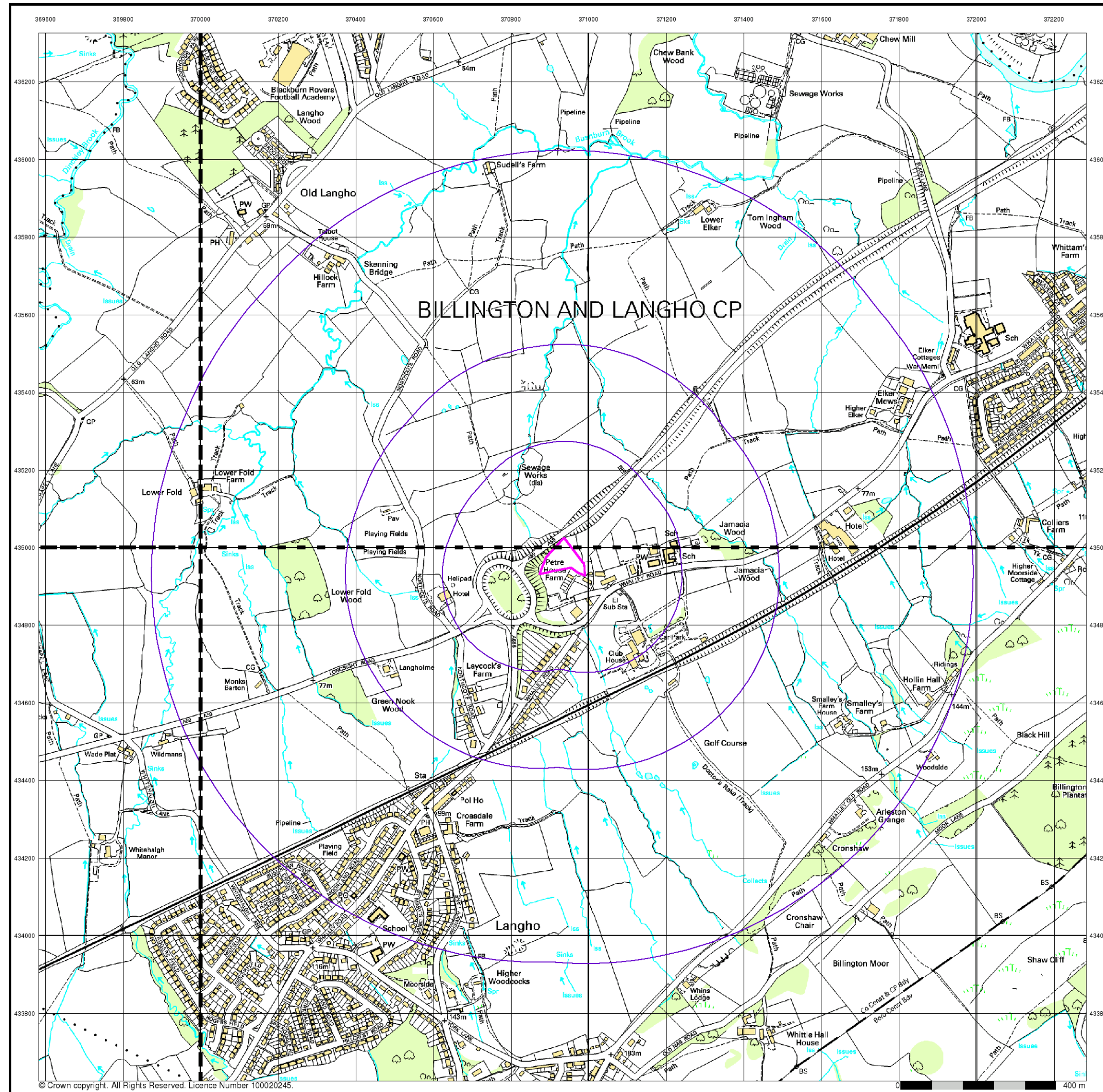


Order Details

Order Number: 41670718_1_1
Customer Ref: LKC-12-1001
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Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



CONSULT LIMITED

10k Raster Mapping

Published 2006

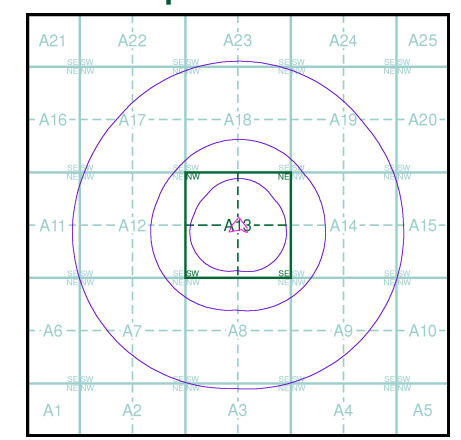
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD63NE 2006 1:10,000	SD73NW 2006 1:10,000
SD63SE 2006 1:10,000	SD73SW 2006 1:10,000

Historical Map - Slice A



Order Details

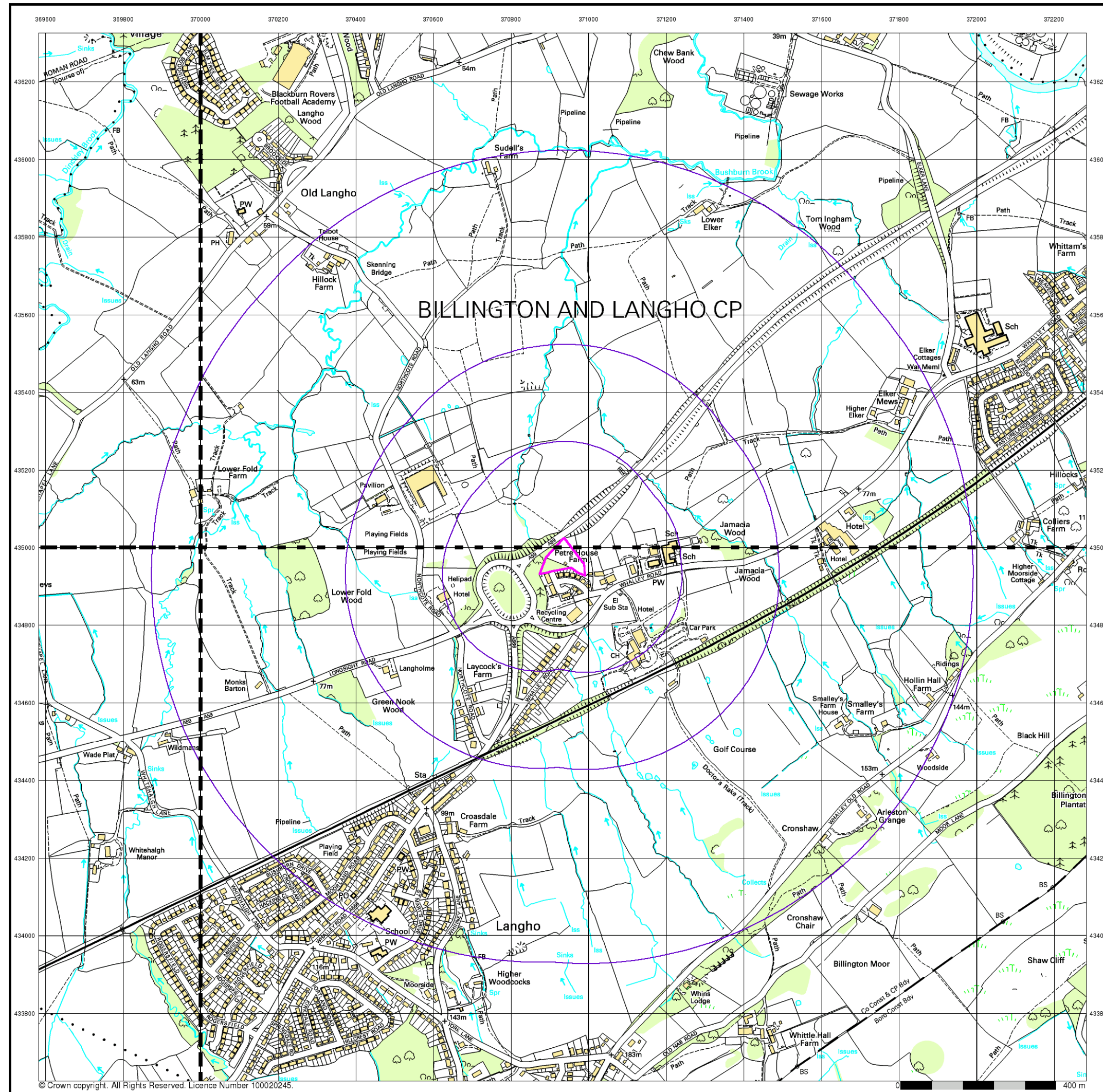
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 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



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



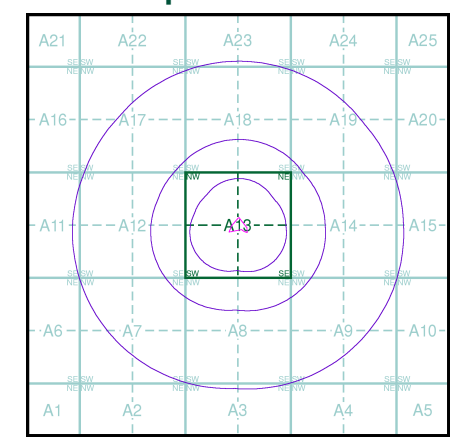
10k Raster Mapping
Published 2012
Source map scale - 1:10,000

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)

SD63NE 2012 1:10,000	SD73NW 2012 1:10,000
SD63SE 2012 1:10,000	SD73SW 2012 1:10,000

Historical Map - Slice A



Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



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

APPENDIX B

ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

41670718_1_1

Customer Reference:

LKC-12-1001

National Grid Reference:

370930, 434960

Slice:

A

Site Area (Ha):

0.59

Search Buffer (m):

1000

Site Details:

Land at Petre Wood

Langho

Blackburn

BB6 8FD

Client Details:

L Consult

LK Consult Ltd

Bury Business Centre

Kay Street

Bury

Lancashire

BL9 6BU

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	5
Hazardous Substances	-
Geological	7
Industrial Land Use	14
Sensitive Land Use	15
Data Currency	16
Data Suppliers	20
Useful Contacts	21

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 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 the attached 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 v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		2	1	
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1		1		
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters	pg 1				4
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 2		3		3
Water Abstractions	pg 3				(*2)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 3	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 5		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 5		1		
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 5		2		
Registered Waste Treatment or Disposal Sites					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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 7	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 7	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 12				1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 12	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 14		6		2
Fuel Station Entries	pg 14		1		

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt	pg 15			1	
Areas of Unadopted Green Belt	pg 15			1	
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Petre Arms Roundabout, Langho, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Calder (Ribble) Reference: 01RIB0017 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Stream Trib Bushburn Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	85	1	370900 434850
1	<p>Discharge Consents</p> <p>Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Langho Sewer, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01la1546 Permit Version: 1 Effective Date: 13th July 1967 Issued Date: Not Supplied Revocation Date: 13th July 1967 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Bushburn Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	85	1	370900 434850
2	<p>Discharge Consents</p> <p>Operator: The Governors Of St Leonards Property Type: Education Location: St Leonards C Of E Primary School, Whalle New Road, Langho, Blackburn, Bb6 8 Ab Authority: Environment Agency, North West Region Catchment Area: Bushburn Brook Reference: 017190640 Permit Version: 1 Effective Date: 21st September 1999 Issued Date: 21st September 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Bushburn Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A14NW (E)	298	1	371280 435020
3	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Petre Garage Ltd Location: Whalley New Road, Langho, BLACKBURN, Lancashire, BB6 8AB Authority: Ribble Valley Borough Council, Environmental Health Department Permit Reference: PPC / 20 Dated: 31st July 2000 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location</p>	A13SE (S)	110	2	370971 434821
	<p>Nearest Surface Water Feature</p>	A13NW (NW)	62	-	370849 435019
4	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Construction Location: Tributary Of River Calder, BILLINGTON Authority: Environment Agency, North West Region Pollutant: Oils - Gas Oil Note: Not Supplied Incident Date: 19th March 1998 Incident Reference: CE980240 Catchment Area: Calder - Lancs Receiving Water: Freshwater Stream/River Cause of Incident: Accidental Spillage/Leakage Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A14NW (E)	657	1	371600 435200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Other Location: LANGHO Authority: Environment Agency, North West Region Pollutant: Sewage Sludge Note: Not Supplied Incident Date: 6th May 1998 Incident Reference: CE980366 Catchment Area: Calder - Lancs Receiving Water: Freshwater Stream/River Cause of Incident: Land Runoff Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	678	1	370900 435700
6	Pollution Incidents to Controlled Waters Property Type: Sheep Location: Billington, BLACKBURN Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Animal Carcasses Note: Not Supplied Incident Date: 19th September 1998 Incident Reference: CE980900 Catchment Area: Ribble - Non-Tidal Receiving Water: Freshwater Stream/River Cause of Incident: Deliberate Disposal To Drain Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	847	1	371800 435200
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Bushburn Brook; Drain Tracing Dye Incident Date: 16th October 1991 Incident Reference: 91330299 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	889	1	370001 435101
8	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 25th March 2008 Incident Reference: 573188 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A13SW (SW)	12	1	370866 434922
9	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 14th February 2008 Incident Reference: 564069 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A13NW (NW)	66	1	370850 435027
10	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 11th November 2007 Incident Reference: 544427 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A13NW (NW)	116	1	370828 435078
11	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 23rd April 2007 Incident Reference: 488519 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Other Pollutant	A8NW (SW)	569	1	370606 434429

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - North West Region, North Area Incident Date: 14th June 2011 Incident Reference: 893889 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage</p>	A7NE (SW)	588	1	370440 434534
13	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - North West Region, North Area Incident Date: 8th July 2006 Incident Reference: 414884 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials and Wastes/Soil Conditioners</p>	A17NE (NW)	835	1	370420 435680
	<p>Water Abstractions</p> <p>Operator: N W W A Northern Div Licence Number: 2671336004 Permit Version: Not Supplied Location: Borehole, Dean Clough, Adjoining Shawcliffe Lane, GREAT HARWOOD Authority: Environment Agency, North West Region Abstraction: Public Water Supply Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1818 Yearly Rate (m3): 331858 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A5NW (SE)	1724	1	372200 433700
	<p>Water Abstractions</p> <p>Operator: United Utilities Water Plc Licence Number: 2671336003 Permit Version: 100 Location: Upper & Lower Dean Imp. Reservoirs, Great Harwood Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 7137 Yearly Rate (m3): 2613950 Details: Upper & Lower Dean Imp Reservoirs Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th May 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(S)	1995	1	371500 433000
	<p>Groundwater Vulnerability</p> <p>Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000</p>	A13SE (SW)	0	1	370934 434961
	<p>Drift Deposits</p> <p>Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000</p>	A13SE (SW)	0	1	370934 434961
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - Undifferentiated</p>	A13SE (SW)	0	3	370934 434961
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - Undifferentiated</p>	A13NE (N)	0	3	370934 435001
	<p>Superficial Aquifer Designations</p> <p>Aquifer Designation: Unproductive Strata</p>	A13NE (N)	0	3	370934 435001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (SW)	0	3	370934 434961
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p>Historical Landfill Sites</p> <p>Licence Holder: Not Supplied Location: Northcote Mannor Hotel, Langho, Lancashire Name: Petre Garage Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL07675 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Unknown Material Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 2300/0182 BGS Ref: Not Supplied Other Ref: K1/03/030</p>	A13SE (S)	72	1	370967 434861
15	<p>Licensed Waste Management Facilities (Locations)</p> <p>Licence Number: 54116 Location: Land/premises At, Longsight Road, Langho, Blackburn, Lancashire, BB6 8AB Operator Name: Sita Lancashire Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, North Area Site Category: Special Waste Transfer Stations Licence Status: Surrendered Issued: 14th May 1993 Last Modified: 28th January 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 20th June 2011 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (S)	134	1	370900 434800
	<p>Local Authority Landfill Coverage</p> <p>Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency</p>		0	2	370934 434961
	<p>Local Authority Landfill Coverage</p> <p>Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency</p>		0	7	370934 434961
16	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Sita (Lancashire) Ltd Licence Reference: L 494 Site Location: Petre Arms H.W.D.C, Longsight Road, Langho, Blackburn, Lancashire, Bb6 8ab Operator Location: Tustin Court, Portway, Preston, Lancashire, Pr2 2yq Authority: Environment Agency - North West Region, Central Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 14th May 1993 Preceded By: Sr 66 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Car Batteries Gen.Household/Com/Ind.Waste Household Chemicals Mineral Oils Prohibited Waste: Clinical Wastes</p>	A13SW (S)	77	1	370910 434860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Lancashire Waste Services Licence Reference: SR 66 Site Location: Petre Arms H.W.D.C, Longsight Road, Langho, Blackburn, Lancashire, Bb6 8ab</p> <p>Operator Location: PO Box 9, Guildhouse, Cross Street, PRESTON, Lancashire, PR1 8RD Authority: Environment Agency - North West Region, Central Area Site Category: Civic Amenity Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st July 1991 Preceded By: Not Given Licence: Superseded By: L 494 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Car Batteries Deliv.By H' Holders Commercial Waste Garden Waste General Household Waste H' Hold Chemicals Deliv.By H' Holders Waste Mineral Oil Deliv.By H' Holders</p> <p>Prohibited Waste: Animal Wastes Clinical Wastes</p>	A13SW (S)	77	1	370910 434860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Tournaisian and Visean (Carboniferous Limestone Series)	A13SE (SW)	0	3	370934 434961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SW)	0	4	370934 434961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	0	4	370934 435000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (E)	10	4	371000 434961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	35	4	371000 435000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	136	4	370843 435127
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	200	4	371000 435213

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	302	4	370580 435000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (SE)	688	4	371255 434291
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	696	4	370658 435661
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	717	4	371509 434433
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	727	4	370641 435687
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	760	4	371627 434514

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	774	4	371000 434155
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	788	4	371000 435808
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14SE (E)	817	4	371796 434791
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	824	4	371000 435845
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	874	4	370000 434961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	877	4	370000 435000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	891	4	370797 434044
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	891	4	370816 434042
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	904	4	370000 434700
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	929	4	370934 434000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	929	4	371000 434000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel <15 mg/kg Concentration:	A8SW (S)	932	4	370851 434000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	944	4	370721 434000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	950	4	370689 434000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SW (NW)	973	4	370000 435365
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	973	4	371198 433978
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A23SE (N)	977	4	370934 436000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A23SE (N)	979	4	371000 436000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SW (NW)	990	4	370000 435404
17	BGS Recorded Mineral Sites Site Name: Higher Woodcocks Location: , Langho, Great Harwood, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 92759 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Pendle Grit Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	968	3	370818 433965
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	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	A13NE (N)	0	3	370934 435001
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	3	370934 434961
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	3	370934 435001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Contemporary Trade Directory Entries Name: Car Centre Location: Whalley Rd, Langho, Blackburn, Lancashire, BB6 8AB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (SE)	78	-	371058 434890
19	Contemporary Trade Directory Entries Name: Sita Location: Whalley Road, Langho, Blackburn, BB6 8AB Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (S)	88	-	370928 434853
20	Contemporary Trade Directory Entries Name: Petre Garage Ltd Location: Whalley Road, Langho, Blackburn, Lancashire, BB6 8AB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	109	-	370970 434822
20	Contemporary Trade Directory Entries Name: Petre Fuel Station & Car Sales Location: Whalley Road, Langho, Blackburn, Lancashire, BB6 8AB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	109	-	370970 434822
21	Contemporary Trade Directory Entries Name: T J Branch Services Location: Whalley Rd, Langho, Blackburn, Lancashire, BB6 8AB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	160	-	371150 434924
22	Contemporary Trade Directory Entries Name: Newcentral Car Sales Location: Whalley Rd, Langho, Blackburn, Lancashire, BB6 8AB Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	220	-	371210 434942
23	Contemporary Trade Directory Entries Name: Raymond Smith Location: Whalley Road, Billington, Clitheroe, Lancashire, BB7 9HY Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	885	-	371794 435326
24	Contemporary Trade Directory Entries Name: D K Services Location: 14, Bushburn Drive, Langho, Blackburn, BB6 8EZ Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	952	-	370280 434187
25	Fuel Station Entries Name: Petre Filling Station Location: Whalley Road, Langho, Blackburn, Lancashire, BB6 8AB Brand: Gulf Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	61	-	370998 434868

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<p>Areas of Adopted Green Belt</p> <p>Authority: Ribble Valley Borough Council Plan Name: Ribble Valley District Wide Local Plan Status: Adopted Plan Date: 30th June 1998</p>	A8NE (SE)	307	5	371091 434636
27	<p>Areas of Unadopted Green Belt</p> <p>Authority: Ribble Valley Borough Council Plan Name: Ribble Valley Districtwide Local Plan Alterations Review Status: First Deposit Plan Date: 31st March 2004</p>	A8NE (SE)	307	5	371091 434636













Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Blackburn with Darwen Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	August 2012 July 2012 March 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2012	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	September 2012	Quarterly
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	July 2012	Quarterly
Local Authority Integrated Pollution Prevention And Control Hyndburn Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Hyndburn Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Hyndburn Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	January 2012 June 2011 November 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	September 2012	Monthly
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	September 2012	Monthly
Registered Radioactive Substances Environment Agency - North West Region	July 2012	Quarterly
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	July 2012 July 2012	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	July 2012	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	July 2012	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	January 2011	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	September 2011	Annually
Source Protection Zones Environment Agency - Head Office	July 2012	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	July 2012	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	July 2012	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	July 2012	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	July 2012	Quarterly
Flood Defences Environment Agency - Head Office	July 2012	Quarterly
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	July 2012 July 2012	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	July 2012 July 2012	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	July 2012 July 2012	Quarterly Quarterly
Local Authority Landfill Coverage Blackburn with Darwen Borough Council Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blackburn with Darwen Borough Council Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	May 2012	Bi-Annually
Explosive Sites Health and Safety Executive	June 2012	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Ribble Valley Borough Council Hyndburn Borough Council - Planning Blackburn with Darwen Borough Council Lancashire County Council	June 2012 March 2012 November 2011 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Ribble Valley Borough Council Hyndburn Borough Council - Planning Blackburn with Darwen Borough Council Lancashire County Council	June 2012 March 2012 November 2011 October 2011	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Variable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2012	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	January 2012	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	February 2011	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

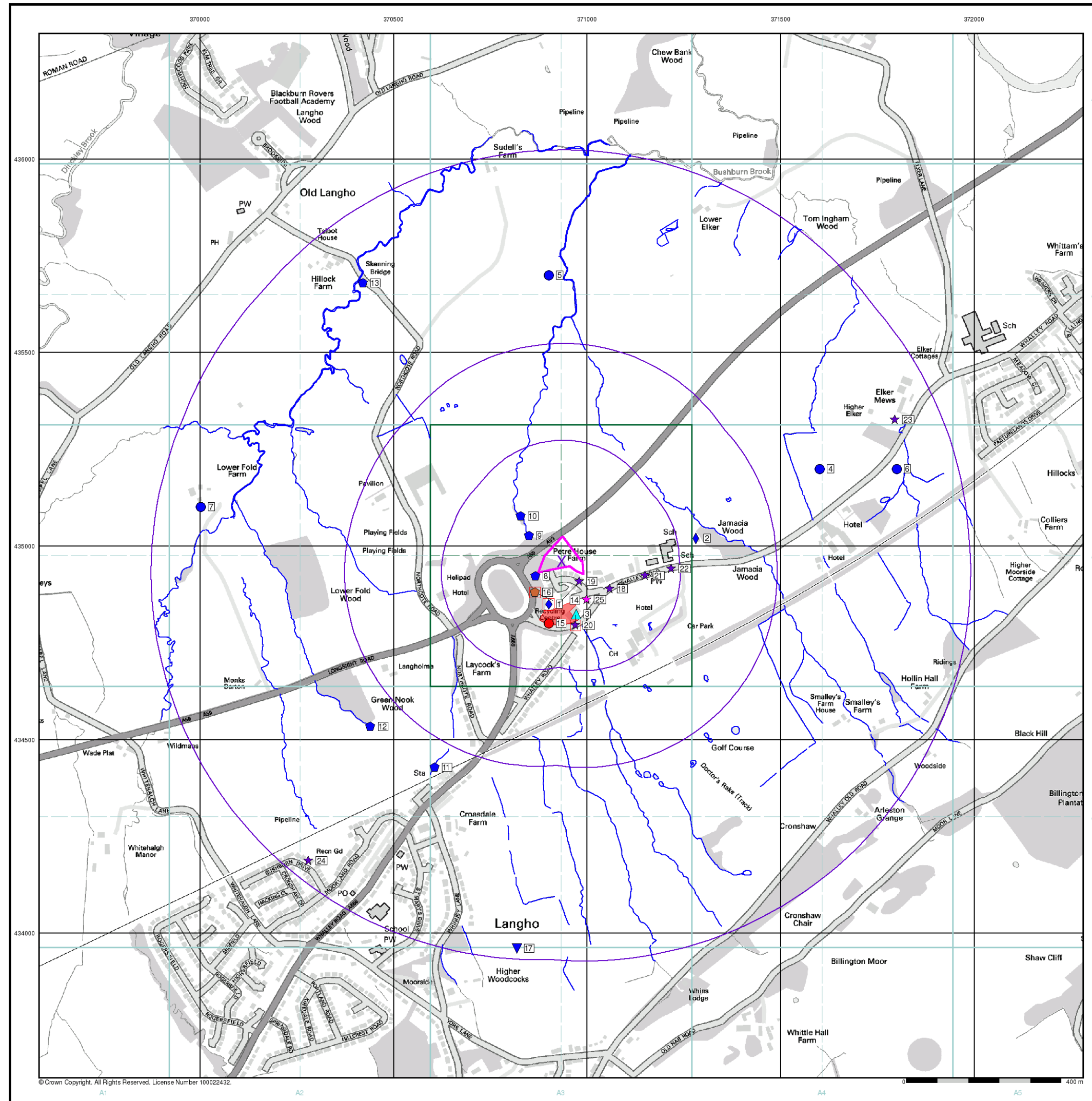
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2012	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2012	Quarterly
Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Blackburn with Darwen Borough Council Hyndburn Borough Council Ribble Valley Borough Council	August 2012 August 2012 August 2012	As notified As notified As notified
Areas of Unadopted Green Belt Blackburn with Darwen Borough Council Hyndburn Borough Council Ribble Valley Borough Council	August 2012 August 2012 August 2012	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	July 2012	Bi-Annually
Environmentally Sensitive Areas Natural England	February 2012	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2012	Bi-Annually
Marine Nature Reserves Natural England	August 2012	Bi-Annually
National Nature Reserves Natural England	February 2012	Bi-Annually
National Parks Natural England	August 2012	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Annually
Ramsar Sites Natural England	August 2012	Bi-Annually
Sites of Special Scientific Interest Natural England	August 2012	Bi-Annually
Special Areas of Conservation Natural England	August 2012	Bi-Annually
Special Protection Areas Natural England	August 2012	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 <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Countryside Council for Wales	 CYNGOR CEFN GWLAD CYMRU COUNTRYSIDE COUNCIL FOR WALES
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

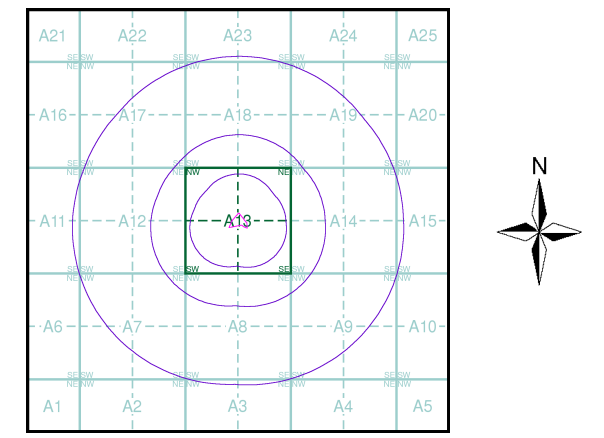
Contact	Name and Address	Contact Details
1	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	Ribble Valley Borough Council - Environmental Health Department Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Landmark Information Group Limited 5 - 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Telephone: 01392 441761 Fax: 01392 441709 Email: cssupport@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk
5	Ribble Valley Borough Council Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 414488 Website: www.ribblevalley.gov.uk
6	Hyndburn Borough Council Development Services, Eagle Street, Accrington, Lancashire, BB5 1LN	Telephone: 01254 388111 Fax: 01254 391625 Website: www.hyndburnbc.gov.uk
7	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
-	Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / 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)
 - 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: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details
 Land at Petre Wood, Langho, Blackburn, BB6 8FD

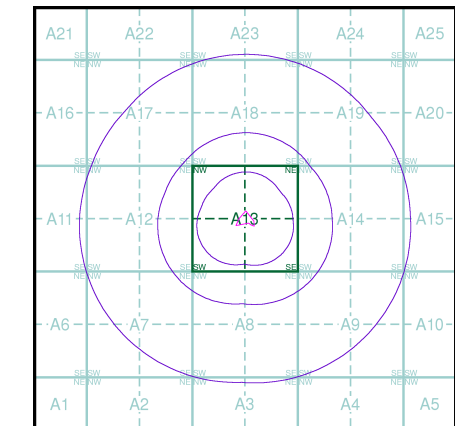
General

-  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

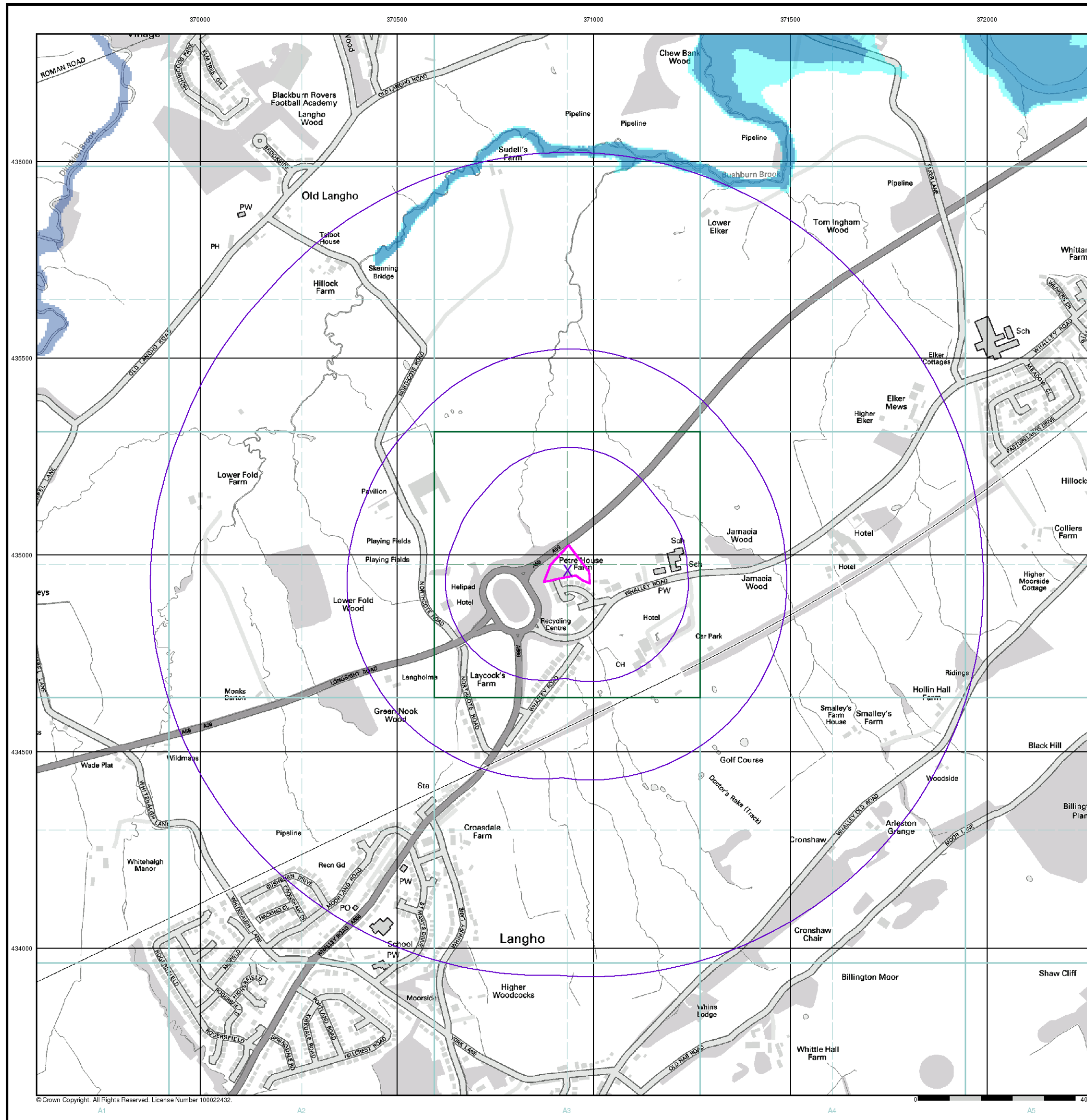


Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



General

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

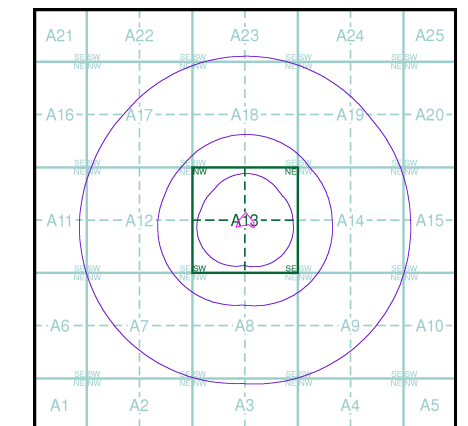
Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole datasheet 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

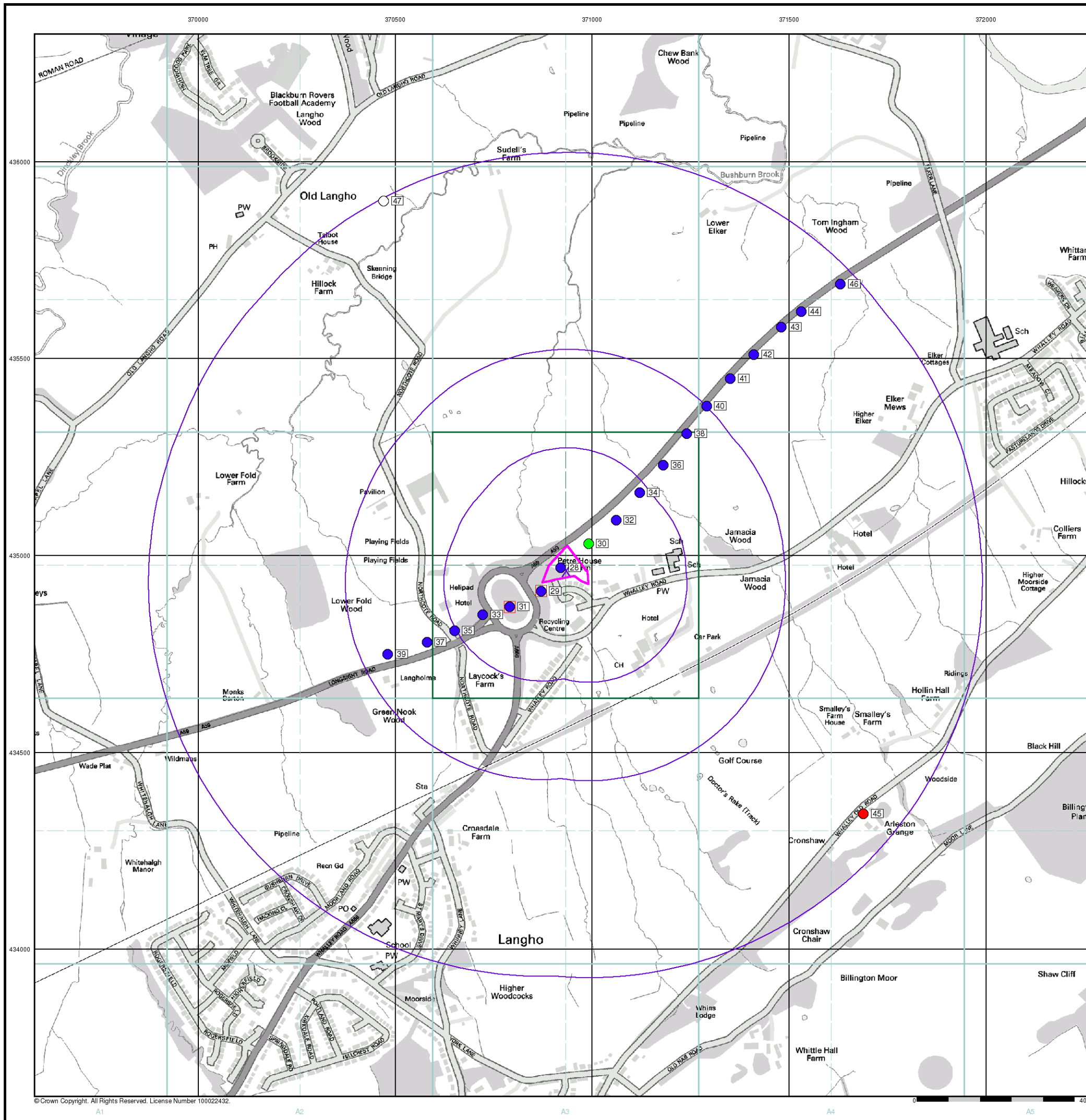


Order Details

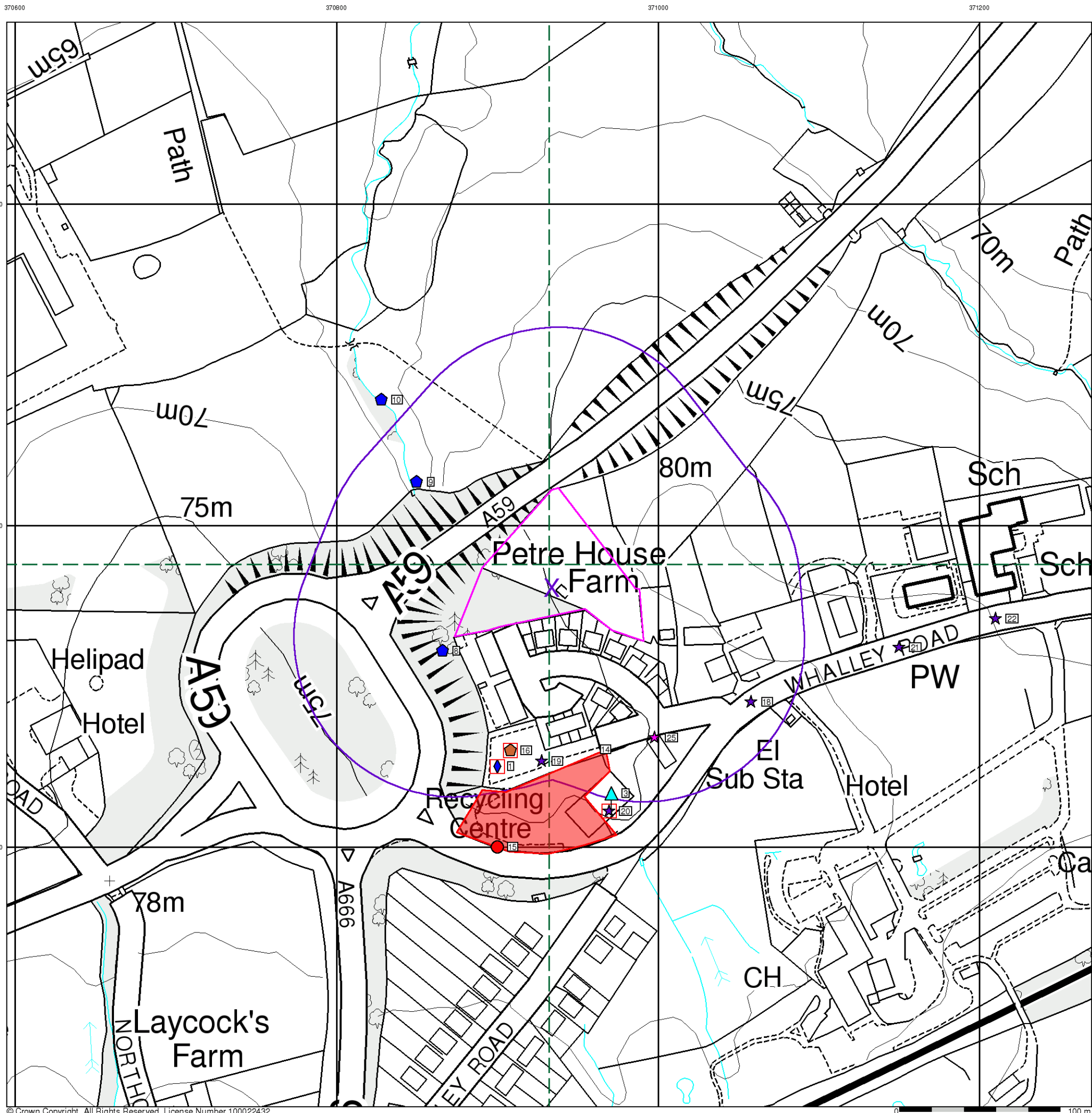
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

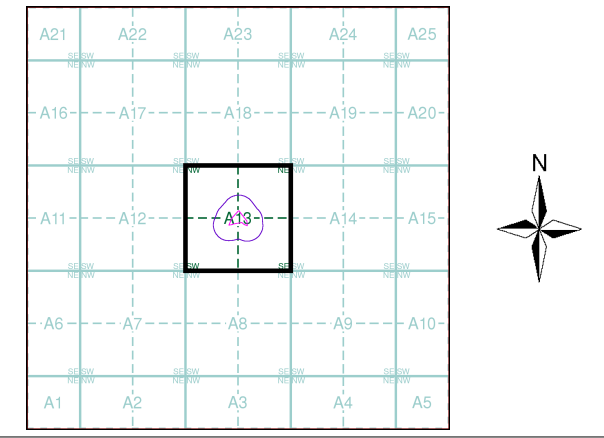


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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - 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 - Segment A13



Order Details


Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip




Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Quaternary - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Quaternary - Quaternary
	ALF	Alluvial Fan Deposits	Gravel, Sand, Silt and Clay	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PRSS	Parsonage Sandstone	Sandstone	Kinderscoutian - Kinderscoutian
	KG	Kinderscout Grit	Sandstone	Kinderscoutian - Kinderscoutian
	LK	Lower Kinderscout Grit	Sandstone	Kinderscoutian - Kinderscoutian
	SDSH	Sabden Shales	Mudstone and Siltstone	Kinderscoutian - Arnsbergian
	PG	Pendle Grit Member	Sandstone	Pendleian - Pendleian
	WWG	Warley Wise Grit	Sandstone and Siltstone, Interbedded	Pendleian - Pendleian
	PG	Pendle Grit Member	Siltstone and Sandstone	Pendleian - Pendleian
	MG	Millstone Grit Group [See also Migr]	Mudstone, Siltstone and Sandstone	Namurian - Namurian
	BSG	Bowland Shale Formation	Mudstone	Yeadonian - Asbian
	RKM	Rad Brook Mudstone Member	Mudstone	Holkerian - Holkerian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	BOH	Hodderense Limestone Formation	Limestone	Holkerian - Holkerian
	CLHOM	Clitheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated)	Mudstone	Holkerian - Chadian
		Faults		



Geology 1:50,000 Maps

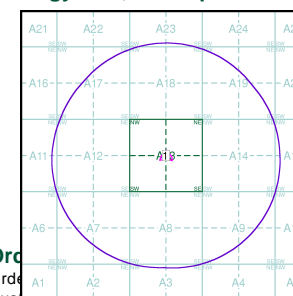
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	068
Map Name:	Clitheroe
Map Date:	1975
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Available
Landslip:	Available
Rock Segments:	Available

Geology 1:50,000 Maps - Slice A



Order

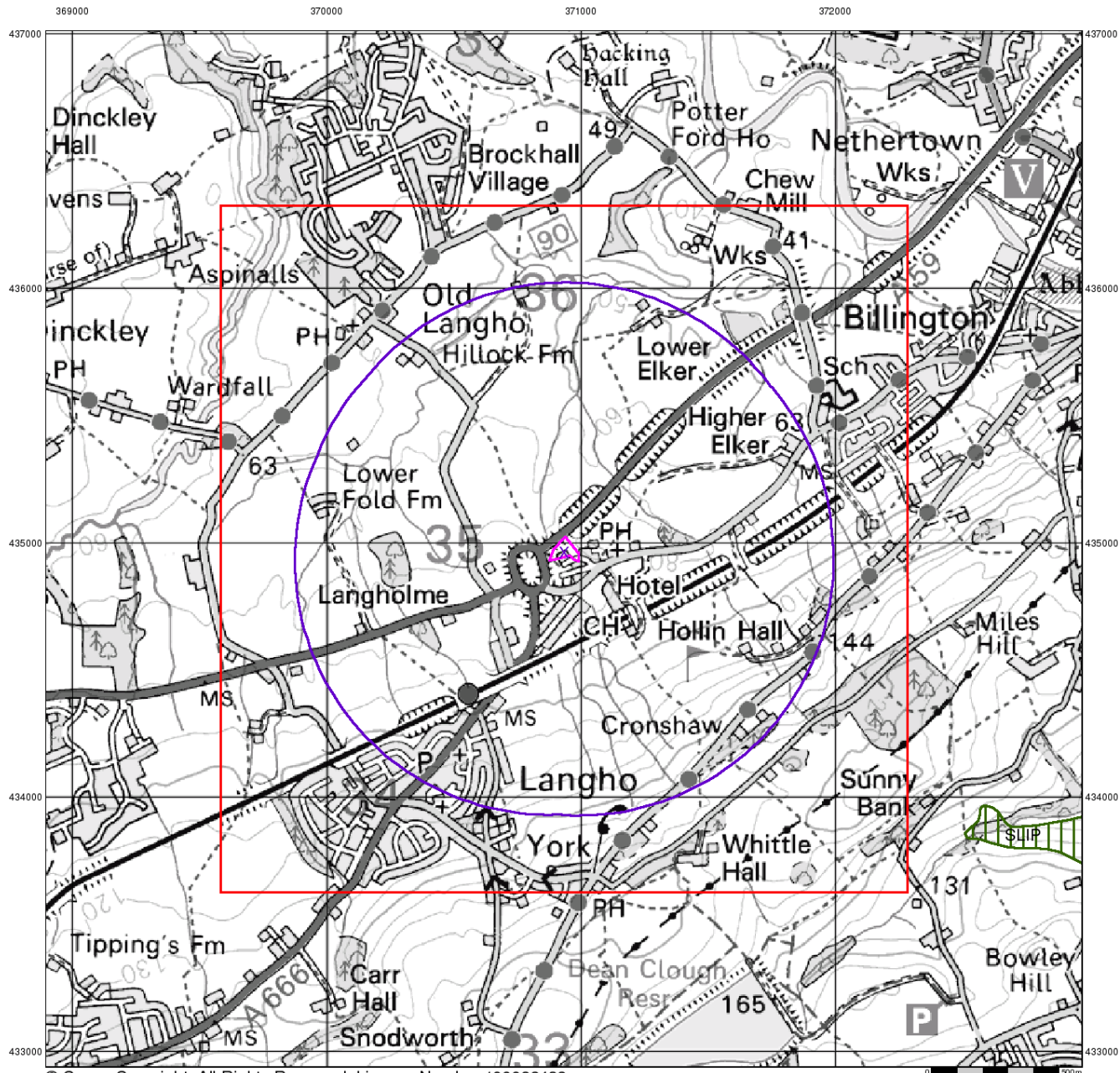
Customer Reference: ETC 12 1007
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details:

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Artificial Ground and Landslip

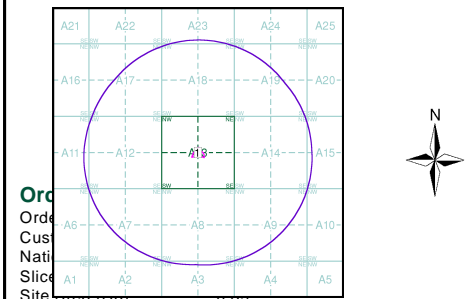
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



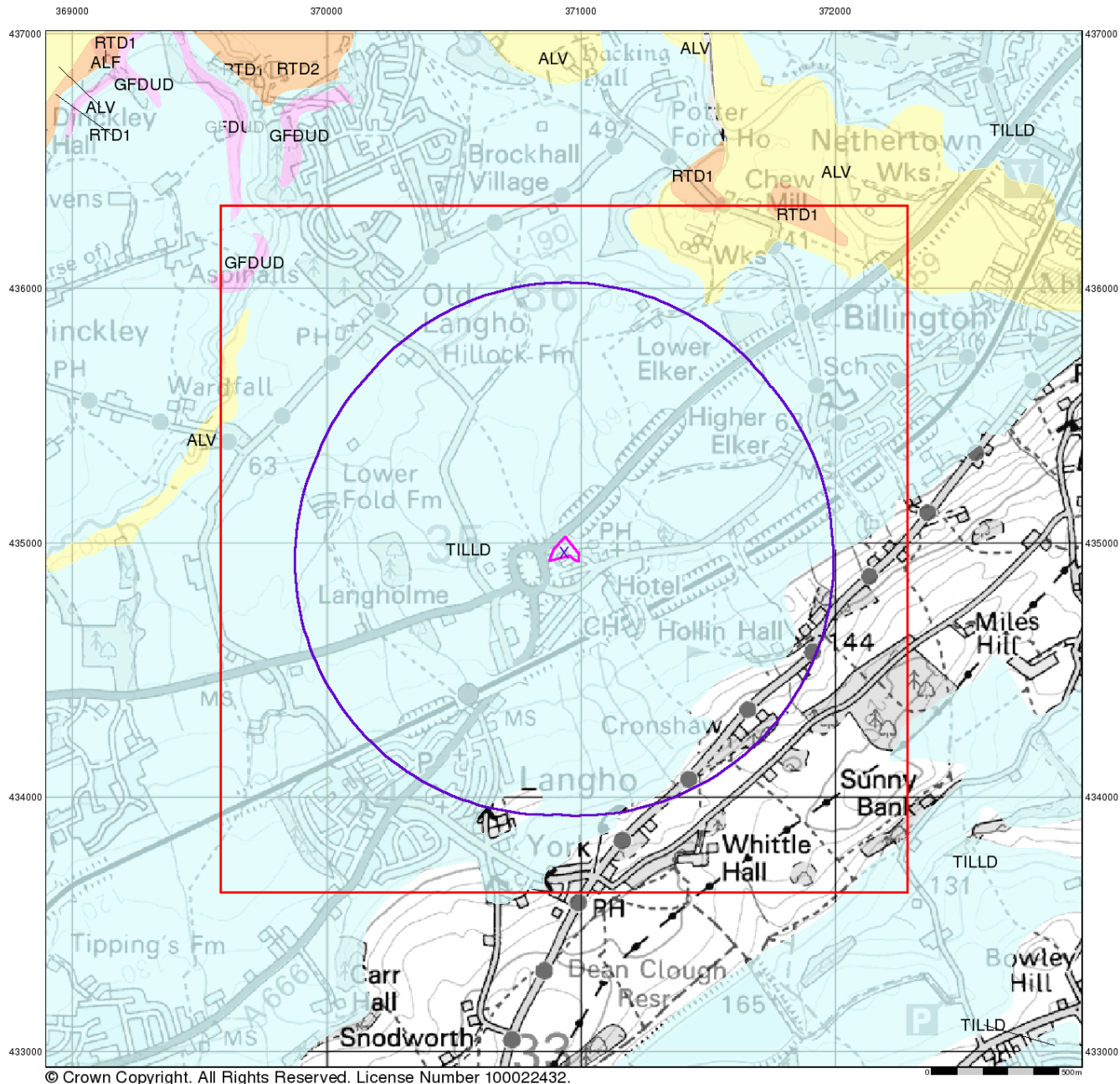
Search Buffer (m): 1000

Site Details:

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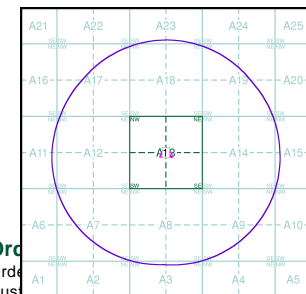
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order
Cus

National Grid Reference: 370930, 434960

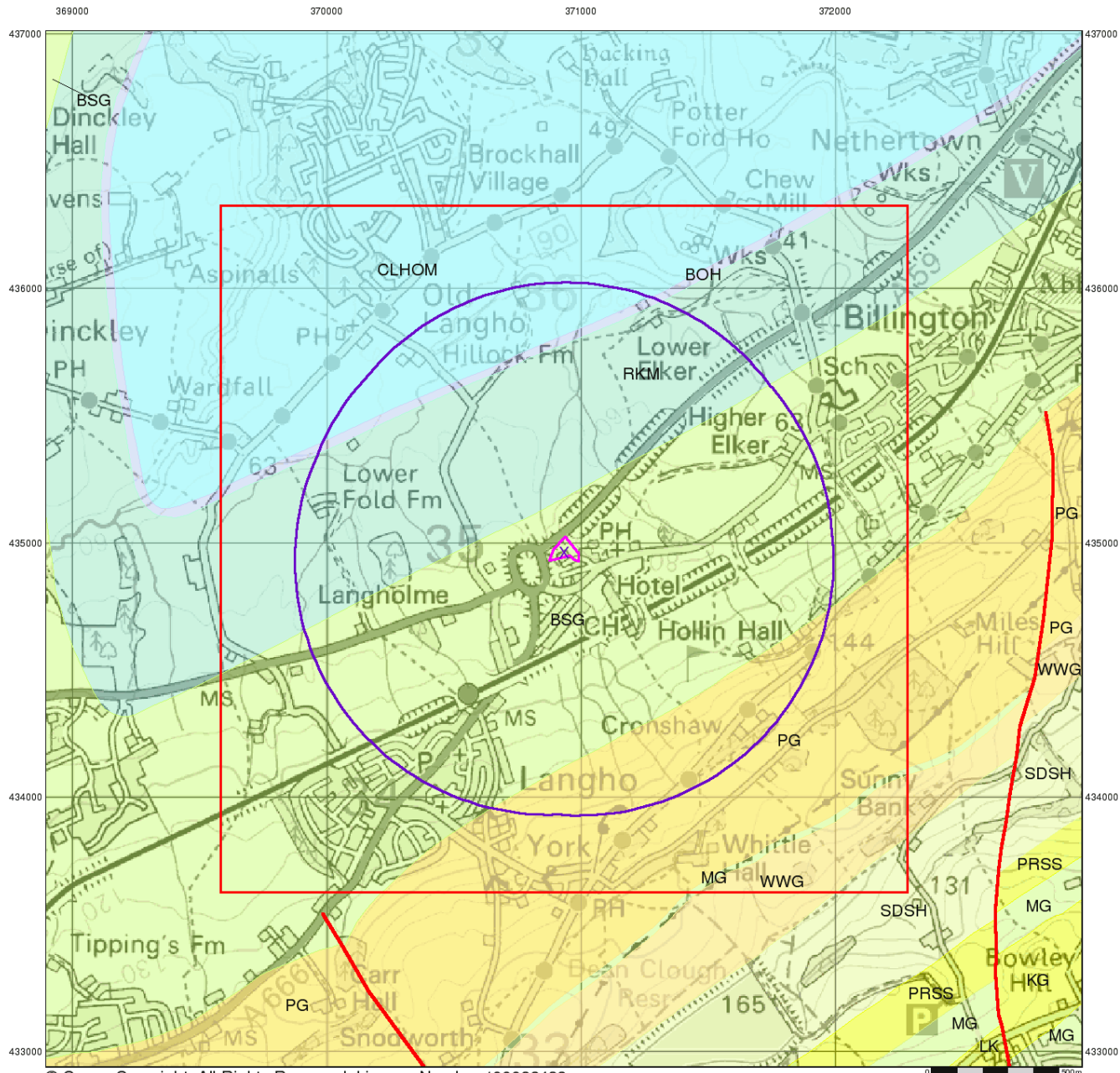
Slice: A
Site Area (Ha): 0.59
Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

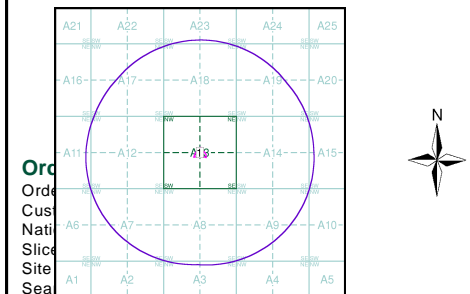
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A

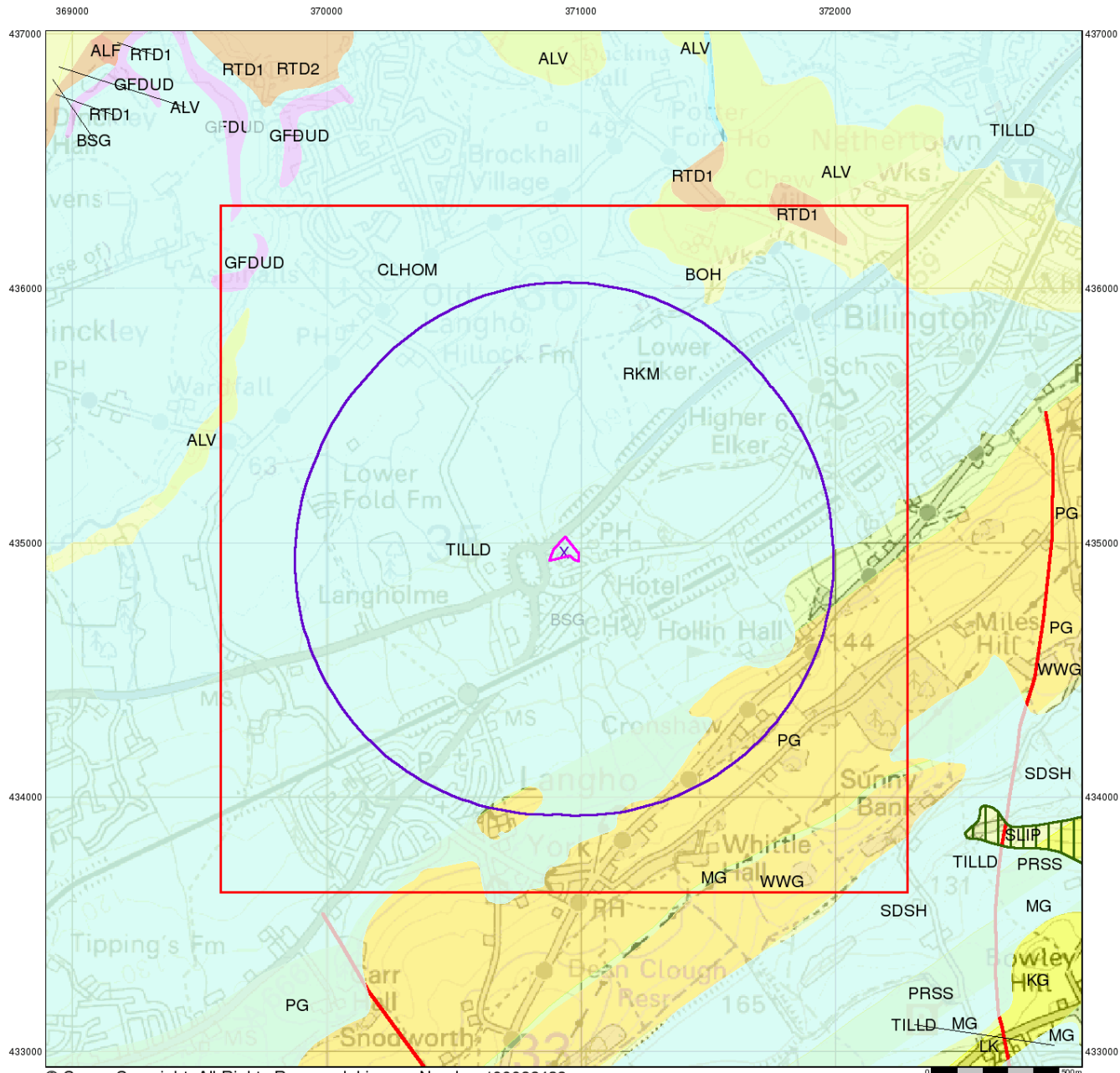


Site Details:

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Combined Surface Geology

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

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

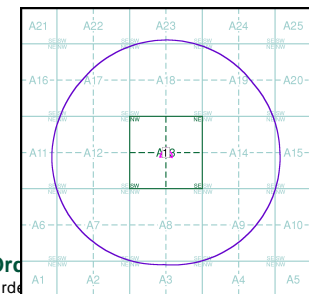
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order

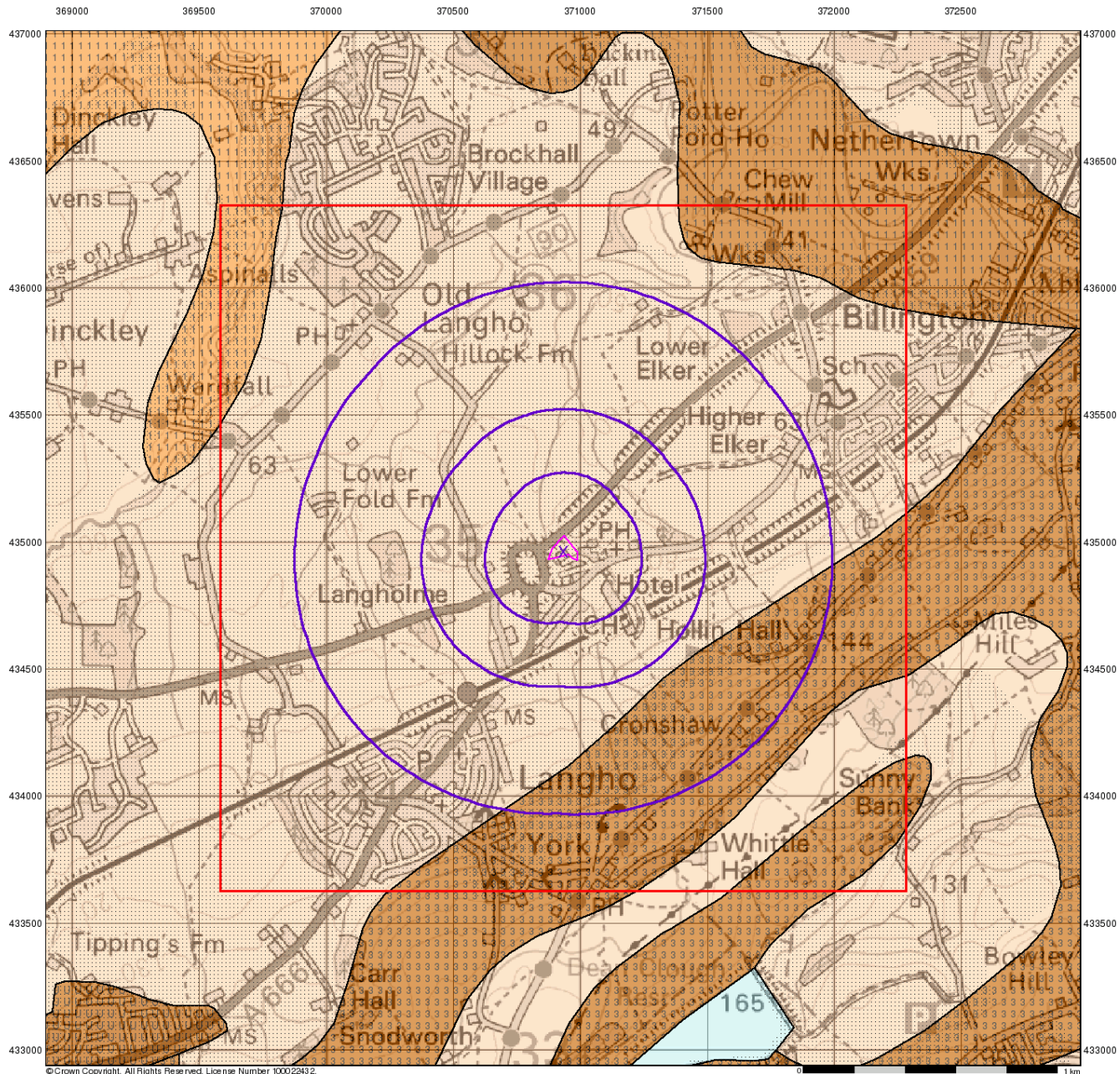
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 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details:

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Groundwater Vulnerability

General

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

Agency and Hydrological

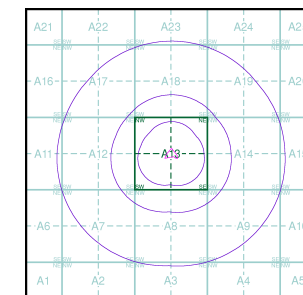
Geological Classes

- Major Aquifer (Highly Permeable)
- Minor Aquifer (Variably Permeable)
- Non Aquifer (Negligibly Permeable)
- Water or Sea
- Drift Deposit

Soil Classes

- High (H) 1, 2, 3, U
- Intermediate (I) 1, 2
- Low
- High (H) 1, 2, 3, U
- Intermediate (I) 1, 2
- Low

Site Sensitivity Context Map - Slice A



Order Details

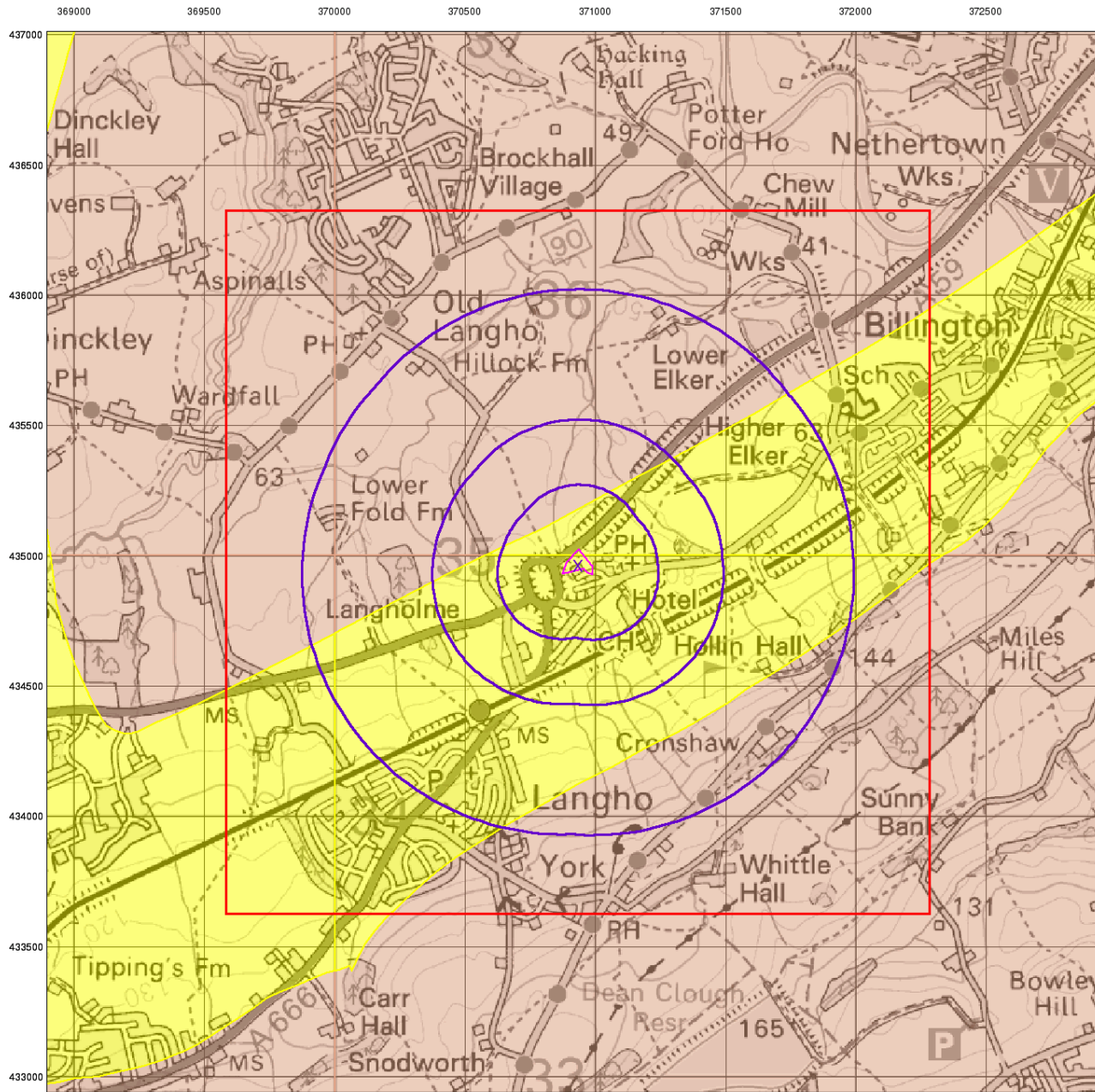
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 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

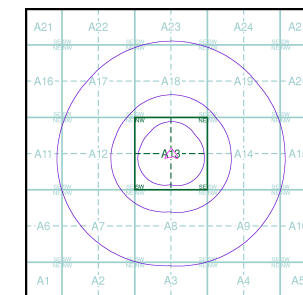
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

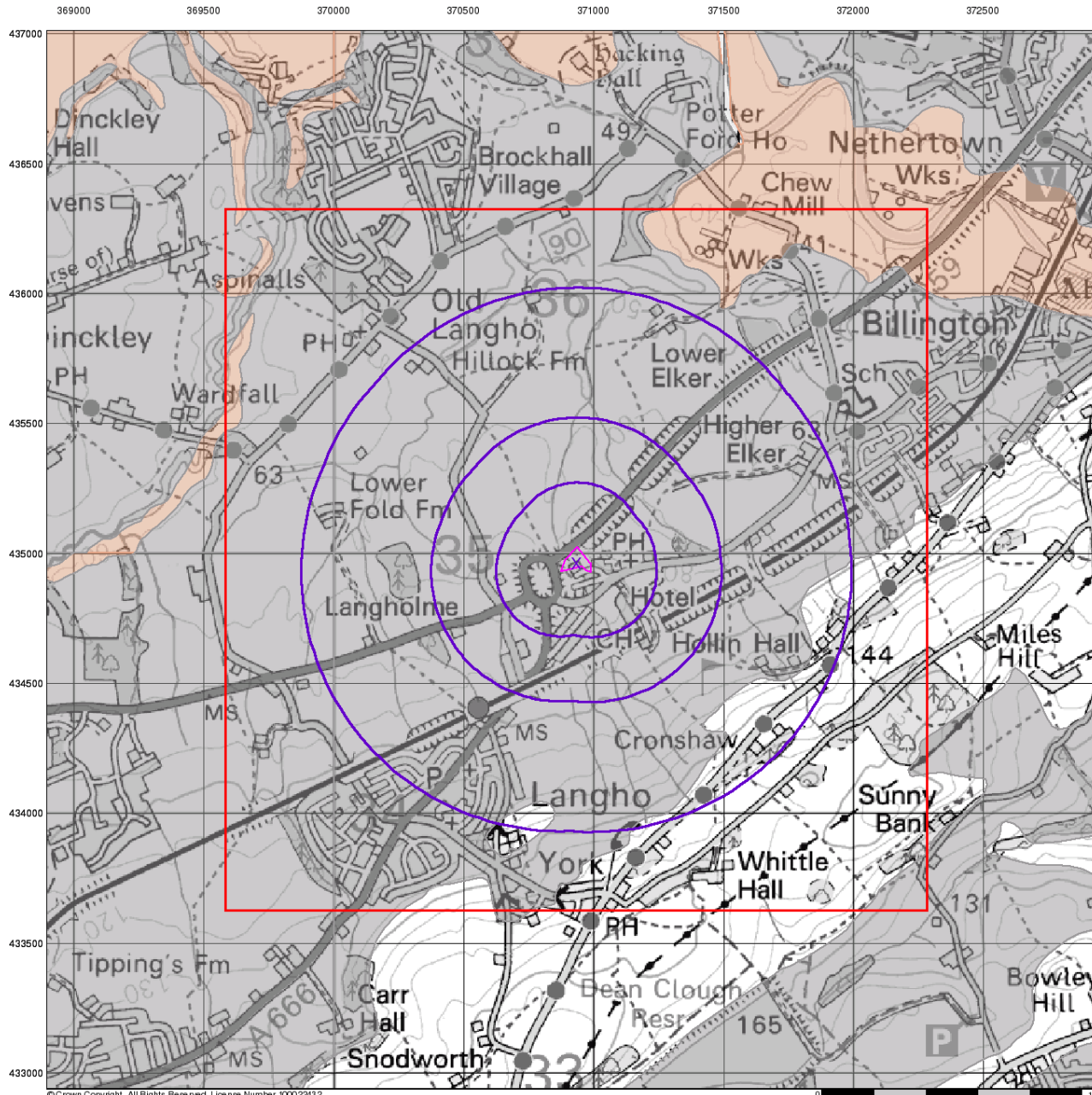
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

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Superficial Aquifer Designation

General

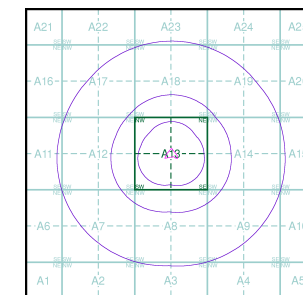
- ▭ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- ▭ Slice
- B Map ID

Agency and Hydrological

Geological Classes

- ▭ Principal Aquifer
- ▭ Secondary A Aquifer
- ▭ Secondary B Aquifer
- ▭ Secondary Undifferentiated
- ▭ Unproductive Strata
- ▭ Unknown

Site Sensitivity Context Map - Slice A



Order Details

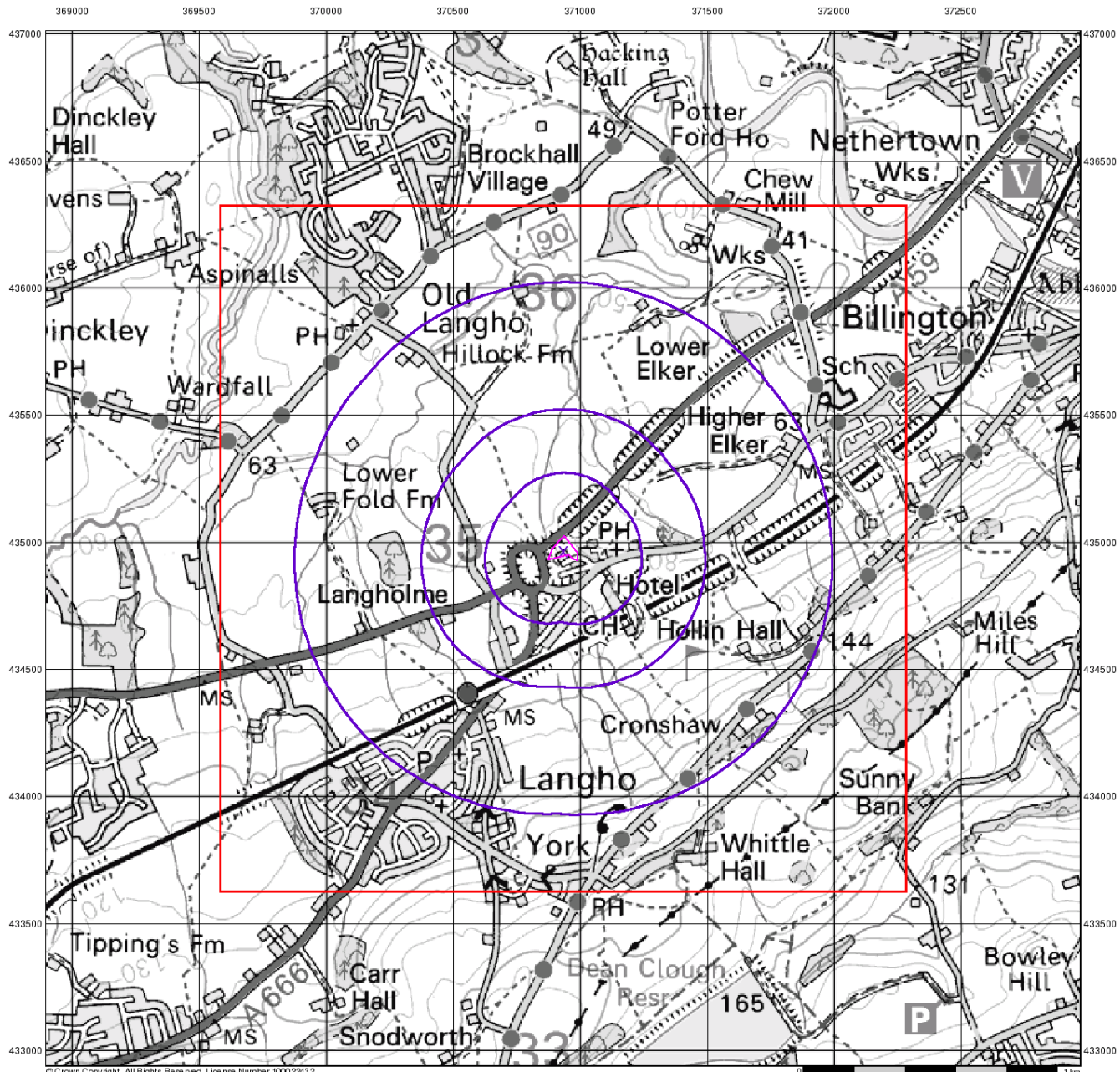
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB6 8FD



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Source Protection Zones

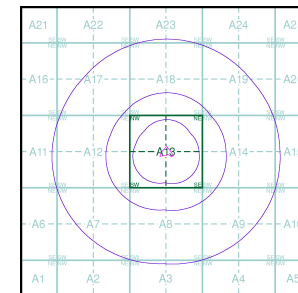
General

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

Agency and Hydrological

- Source Protection Zone I
- Source Protection Zone II
- Source Protection Zone III
- Zone of Special Interest
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

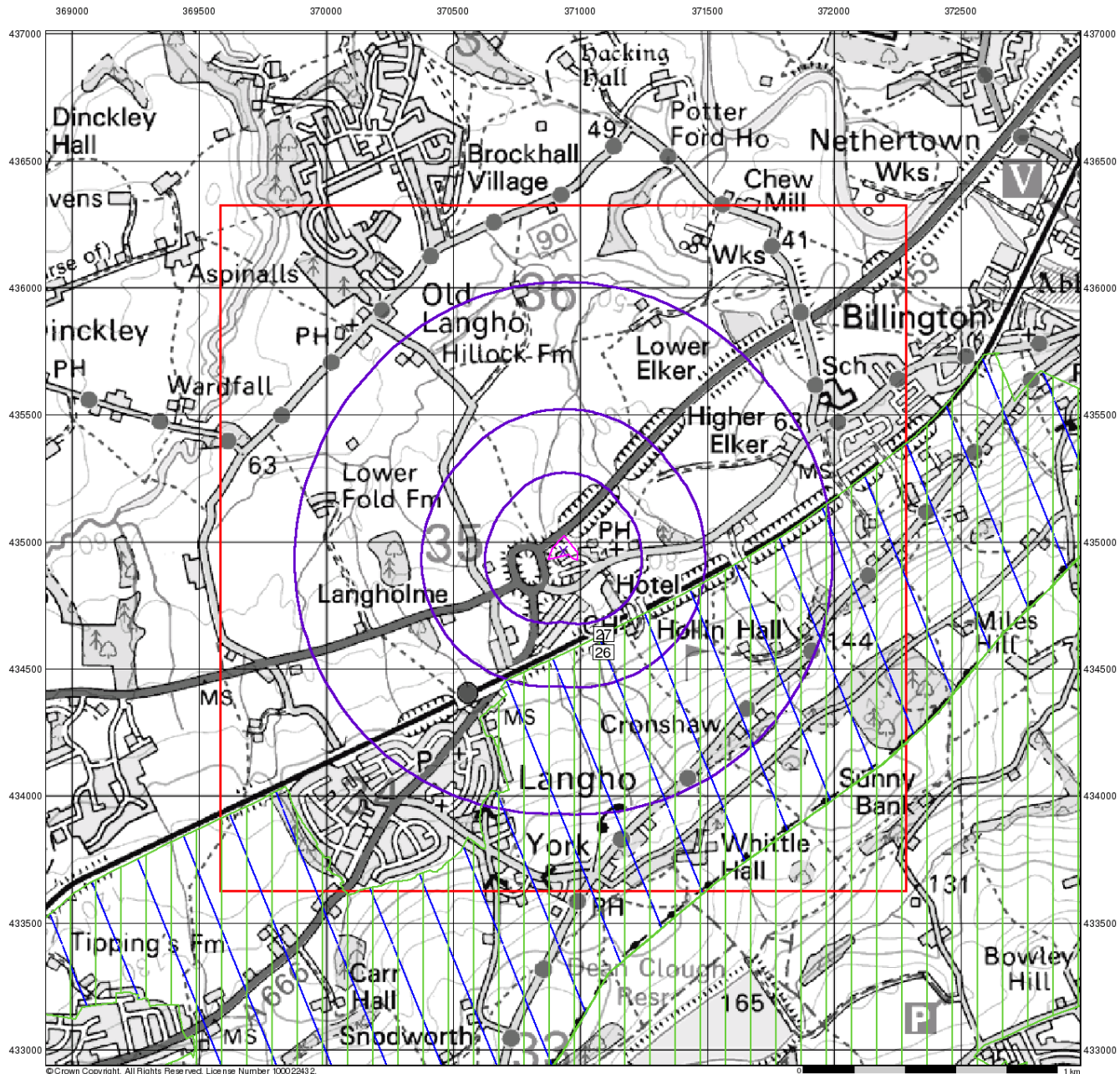
Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

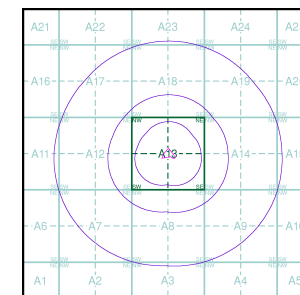
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 41670718_1_1
 Customer Ref: LKC-12-1001
 National Grid Reference: 370930, 434960
 Slice: A
 Site Area (Ha): 0.59
 Search Buffer (m): 1000

Site Details

Land at Petre Wood, Langho, Blackburn, BB8 8FD



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

APPENDIX C

BGS BOREHOLE LOGS

Envirocheck[®] Report:

BGS Boreholes Datasheet

Order Details:

Order Number:

41670718_1_1

Customer Reference:

LKC-12-1001

National Grid Reference:

370930, 434960

Slice:

A

Site Area (Ha):

0.59

Borehole Search Buffer (m):

1000

Site Details:

Land at Petre Wood

Langho

Blackburn

BB6 8FD

Client Details:

L Consult

LK Consult Ltd

Bury Business Centre

Kay Street

Bury

Lancashire

BL9 6BU

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
BGS Boreholes	pg 1	1	12	5	8

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

Report Version v47.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	BGS Boreholes BGS Reference: Sd73sw29 Drilled Length (m): 6.86 Borehole Name: A59 Whalley-Clitheroe By-Pass 117	A13SW (NW)	0	3	370920 434970
29	BGS Boreholes BGS Reference: Sd73sw26 Drilled Length (m): 3.35 Borehole Name: A59 Whalley-Clitheroe By-Pass 5826/2	A13SW (SW)	4	3	370870 434930
29	BGS Boreholes BGS Reference: Sd73sw25 Drilled Length (m): 3.66 Borehole Name: A59 Whalley-Clitheroe By-Pass 5826/1	A13SW (SW)	14	3	370860 434930
29	BGS Boreholes BGS Reference: Sd73sw27 Drilled Length (m): 5.82 Borehole Name: A59 Whalley-Clitheroe By-Pass 5826/3	A13SW (SW)	14	3	370890 434920
29	BGS Boreholes BGS Reference: Sd73sw28 Drilled Length (m): 4.42 Borehole Name: A59 Whalley-Clitheroe By-Pass 5826/4	A13SW (SW)	22	3	370870 434910
30	BGS Boreholes BGS Reference: Sd73nw5 Drilled Length (m): 11.58 Borehole Name: A59 Walley-Clitheroe By-Pass Bh116	A13NE (NE)	46	3	370990 435030
31	BGS Boreholes BGS Reference: Sd73sw23 Drilled Length (m): 5.64 Borehole Name: A59 Whalley-Clitheroe By-Pass 5825/3	A13SW (SW)	82	3	370810 434880
31	BGS Boreholes BGS Reference: Sd73sw22 Drilled Length (m): 5.64 Borehole Name: A59 Whalley-Clitheroe By-Pass 5825/2	A13SW (SW)	85	3	370800 434890
31	BGS Boreholes BGS Reference: Sd73sw21 Drilled Length (m): 4.88 Borehole Name: A59 Whalley-Clitheroe By-Pass 5825/1	A13SW (SW)	103	3	370780 434890
31	BGS Boreholes BGS Reference: Sd73sw24 Drilled Length (m): 5.87 Borehole Name: A59 Whalley-Clitheroe By-Pass 5825/4	A13SW (SW)	104	3	370790 434870
32	BGS Boreholes BGS Reference: Sd73nw6 Drilled Length (m): 7.32 Borehole Name: A59 Walley-Clitheroe By-Pass Bh115	A13NE (NE)	138	3	371060 435090
33	BGS Boreholes BGS Reference: Sd73sw20 Drilled Length (m): 7.16 Borehole Name: A59 Whalley-Clitheroe By-Pass 127	A13SW (SW)	165	3	370730 434850
34	BGS Boreholes BGS Reference: Sd73nw7 Drilled Length (m): 7.32 Borehole Name: A59 Walley-Clitheroe By-Pass Bh114	A13NE (NE)	228	3	371120 435160
35	BGS Boreholes BGS Reference: Sd73sw19 Drilled Length (m): 6.1 Borehole Name: A59 Whalley-Clitheroe By-Pass 128	A13SW (SW)	255	3	370650 434810
36	BGS Boreholes BGS Reference: Sd73nw8 Drilled Length (m): 6.1 Borehole Name: A59 Walley-Clitheroe By-Pass Bh113	A13NE (NE)	319	3	371180 435230
37	BGS Boreholes BGS Reference: Sd73sw18 Drilled Length (m): 4.57 Borehole Name: A59 Whalley-Clitheroe By-Pass 129	A12SE (SW)	331	3	370580 434780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	BGS Boreholes BGS Reference: Sd73nw9 Drilled Length (m): 9.14 Borehole Name: A59 Walley-Clitheroe By-Pass Bh112	A13NE (NE)	417	3	371240 435310
39	BGS Boreholes BGS Reference: Sd73sw17 Drilled Length (m): 4.27 Borehole Name: A59 Whalley-Clitheroe By-Pass 130	A12SE (SW)	434	3	370480 434750
40	BGS Boreholes BGS Reference: Sd73nw10 Drilled Length (m): 7.62 Borehole Name: A59 Walley-Clitheroe By-Pass Bh111	A19SW (NE)	502	3	371290 435380
41	BGS Boreholes BGS Reference: Sd73nw11 Drilled Length (m): 5.79 Borehole Name: A59 Walley-Clitheroe By-Pass Bh110	A19SW (NE)	594	3	371350 435450
42	BGS Boreholes BGS Reference: Sd73nw12 Drilled Length (m): 9.14 Borehole Name: A59 Walley-Clitheroe By-Pass Bh109	A19SW (NE)	678	3	371410 435510
43	BGS Boreholes BGS Reference: Sd73nw13 Drilled Length (m): 7.62 Borehole Name: A59 Walley-Clitheroe By-Pass Bh108	A19SW (NE)	777	3	371480 435580
44	BGS Boreholes BGS Reference: Sd73nw14 Drilled Length (m): 7.62 Borehole Name: A59 Walley-Clitheroe By-Pass Bh107	A19SW (NE)	841	3	371530 435620
45	BGS Boreholes BGS Reference: Sd73sw6 Drilled Length (m): 30.48 Borehole Name: Riding Cottage Billington	A9NE (SE)	910	3	371688 434344
46	BGS Boreholes BGS Reference: Sd73nw15 Drilled Length (m): 7.62 Borehole Name: A59 Walley-Clitheroe By-Pass Bh106	A19NE (NE)	961	3	371630 435690
47	BGS Boreholes BGS Reference: Sd73nw148 Drilled Length (m): Not Supplied Borehole Name: Wilpshire Moor	A17NE (NW)	993	3	370470 435900

BGS Boreholes	Version	Update Cycle
BGS Boreholes British Geological Survey - National Geoscience Information Service	July 2012	Quarterly

Contact Details	Contact Logo
3 British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
- Landmark Information Group Limited The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk	

N.G.R. 72923196

SD 73 SW/5

S 5,000

British Geological Survey

C. ISLER & Co., LTD.,

ARTESIAN & CONSULTING WELL ENGINEERS

BEAR LANE, SOUTHWARK, S.E.1.

Telegraphic Address: "ISLER, LONDON"
Telephone No: WATERLOO 7044 (3 lines).

BIRMINGHAM BRANCH: 93, Broad Street.
LEEDS BRANCH: Bardon Chambers, King Street.

CHART

of Borehole at Messrs. Rishy Crispe Ltd

Quality House,

GT. HARWOOD,

Lancs. (N.G.R. SD 72923196)

Bored by **R. Kitching.** Date Commenced **October, 1966.**

Water Levels: Standing **119** Ft. Pumping **386** Ft. Completed **February, 1967.**

Supply **1,200** Galls. per hour. Analysis if made

Lined with **6** Ft. **6** Ins. of **18** Ins. Tubes **at surface** Ft. above below Surface.

98 **0** **15** **1 ft. above**

180 **0** **12** **1 ft. above**

222 **0** **10** **128 ft. below**

Boring Stage ^{above}/_{below} Ground or Street Level Ft. Height above Sea Level Ft.

Stratum	Thickness.	Total.	Thick. Depth (Metric)	
			Rods in.	Rods out.
BOREHOLE No. 1.				
Soil	1 0	1 0	0-31	0-31
Sandy clay	1 0	2 0	0-30	0-61
Gravel	1 0	3 0	0-30	0-91
Sand	3 6	6 6	1-07	1-98
Clay and boulders	23 0	29 6	7-01	8-99
Sand and gravel	2 0	31 6	0-61	9-60
Boulder clay	1 6	33 0	0-46	10-06
Loamy sand	45 0	78 0	13-71	23-77
Loamy sand and gravel	12 0	90 0	3-66	27-43
Clay	8 0	98 0	2-44	29-87
Sand and gravel	17 0	115 0	5-18	35-05
Soft clay	25 0	140 0	7-62	42-67
Boulder clay	18 0	158 0	5-49	48-16
Soft clay	16 0	174 0	4-88	53-04
Boulder clay	7 0	181 0	2-13	55-17
Blue Shale	7 0	188 0	2-13	57-30
Light grey shale	10 0	198 0	3-05	60-35
Dark grey shale	65 0	263 0	19-81	80-16
Black shale	15 0	278 0	4-57	84-73
Grey shale	4 0	282 0	1-22	85-95
Black shale and rock beds	68 0	350 0	20-73	106-68
Blue shale	47 0	397 0	14-33	121-01
Coal	3 0	400 0	0-91	121-92
Grey shale (fireclay)	15 0	415 0	4-57	126-49
Grey sandstone	36 0	451 0	10-98	137-47
Dark grey shale	112 0	563 0	34-13	171-60
Grey sandstone	72 0	635 0	21-95	193-55

S. Green Lake

Basal dune

W.H. Rock

R.P. ROUGH ROCK

Vertically Checked YES No Date taken

Two photo were fired (40 lb + 25 lb) in the lower ss: but without success

British Geological Survey

British Geological Survey

76/96

CHART

measures: Highy Gripps Ltd

of Borehole at

Utility House,

GT. BARROD,

LANCS. 63 NW/E.

C. ISLER & Co., LTD.,
ARTESIAN & CONSULTING WELL ENGINEERS
BEAR LANE, SOUTHWARK, S.E.1.

Telegraphic Address: "ISLER, LONDON"
Telephone No: WATERLOO 7044 (3 lines)

BIRMINGHAM BRANCH: 93, Broad Street.
LEEDS BRANCH: Bardon Chambers, King Street.

B. Kitching.

Bored by B. Kitching. Date Commenced October, 1966
Water Levels: Standing 119 Ft. Pumping 586 Ft. Completed February, 1967

Supply 1,200 Galls. per hour. Analysis if made
Lined with 6 Ft. 6 Ins. of 18 Ins. Tubes at surface Ft. above Surface.
98 0 15 1 ft. above
180 0 12 1 ft. above
222 0 10 128 ft. below

Sited by 0 on 6" lanes: 63 NW/E. 1967

Boring Stage above Ground or Street Level 9.67 Ft. Height above Sea Level 9.67 Ft.

Stratum	Thickness.	Total.	Water level.	
			Rods in	Rods out
BOREHOLE No. 1.				
Soil	1 0	1 0		
Sandy clay	1 0	2 0		
Gravel	4 0	6 0		
DRIFT	3 6	9 6		
Clay and boulders	25 0	25 6		
(PREVIOUS BORED)	2 0	31 6		
VALLEY	1 6	33 0		
Loamy sand	45 0	78 0		
Loamy sand and gravel	12 0	90 0		
Clay	3 0	93 0		
Sand and gravel	17 0	110 0		
Soft clay	25 0	135 0		
Boulder clay	18 0	153 0		
Soft clay	16 0	169 0		
Boulder clay	7 0	176 0		
Blue shale	7 0	183 0		
LOWER	10 0	193 0		
COAL MEASURES	65 0	258 0		
(EXACT HORIZONS)	15 0	273 0		
Grey shale	4 0	277 0		
UNCERTAIN, BUT (MAY BE BRASS MINO)	28 0	305 0		
Black shale and rock beds	47 0	352 0		
Blue shale	3 0	355 0		
BRASSY MINE	3 0	358 0		
Coal	15 0	373 0		
Grey shale (fireclay)	36 0	409 0		
Grey sandstone	112 0	521 0		
WOODHEAD HILL ROCK	78 0	599 0		
ROUGH ROCK	78 0	677 0		
Grey sandstone				

Two shots (40 lbs and 25 lbs) were fired in the lowest sandstone
 in an attempt to improve the supply, without success

Vertically Checked, YES Date taken

10/10/67

14. 3.67

WATER RESOURCES BOARD

WELL RECORD

W.R.B. REF. No. **SD73/15**

SHEET 1

R.A. LICENCE No.

1. WELL IDENTITY

NATIONAL GRID REFERENCE **SD 7298 3195**

Well at near Risby Knopp via Quality House

I.G.S. REF. No. **76/96 SD73/SWS**

Town St. Harwood

RIVER AUTHORITY

County Lancs.

HYDROMETRIC AREA

Owner of well

SUB-CATCHMENT

Well made by C. Jeter 96 Ltd.

Date of sinking Dec 1966

Information from C. Jeter 96 Ltd / 1/68

Date received 9.10.67

2. WELL DESCRIPTION

Level of ground surface m. If well top is not at above* m.
 above sea level (O.D.) ft. ground level how far below ft.

Shaft m. deep; Diameter at top m.; at bottom m.
 ft. ft. ft.

Bore m. deep; Diameter at top m.; at bottom m.
 ft. ft. ft.

Details of headings

DETAILS OF PERMANENT LINING TUBES

Length 6'6" m.; Diam. 18" ft.; Plain ft.; Slotted ft.; Top m. above surface
 ft. below

Length 92' m.; Diam. 15" ft.; Plain 1' ft.; Slotted ft.; Top m. above surface
 ft. below

Length 180' m.; Diam. 12" ft.; Plain 1' ft.; Slotted ft.; Top m. above surface
 ft. below

Length 222' m.; Diam. 10" ft.; Plain 123' ft.; Slotted ft.; Top m. below surface

Details of well screen

DETAILS OF REST WATER LEVELS DURING CONSTRUCTION

Water struck at depths of below well top

Rest level of water m. above O.D. * m. deep. Date
 ft. below well top when bore ft.

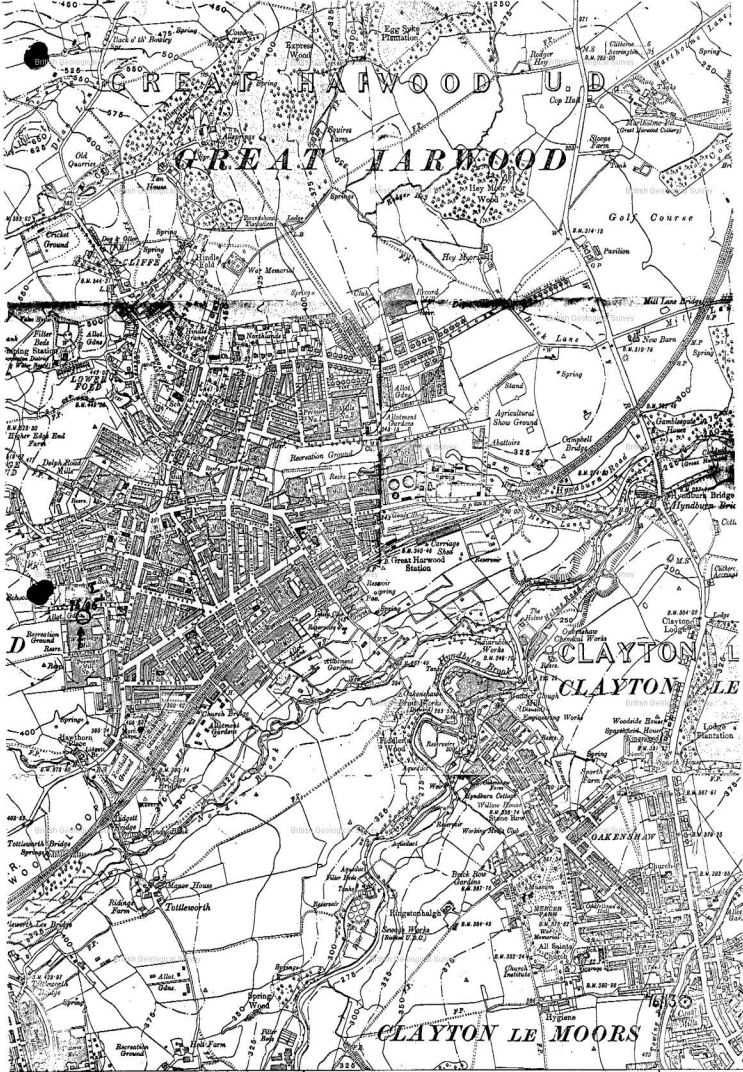
Rest level of water m. above O.D. * m. deep. Date
 ft. below well top when bore ft.

Rest level of water on completion of bore m. above O.D. * m. deep. Date
 ft. below well top when bore ft.

Method of drilling

Brief details of well development e.g. acid treatment etc.

* delete as applicable



5573/15

APPENDIX D

SITE RECONNAISSANCE PHOTOGRAPHS



Photograph 1 (facing S):
Site access via a private driveway.



Photograph 2 (facing N):
Site accessed via a public footpath over a stile.



Photograph 3 (facing W):
Site is currently an open field.



Photograph 4 (facing N):
A59 is adjacent to the northern site boundary.



Photograph 5 (facing E):
Open fields to the east of the site.



Photograph 6 (facing SE):
Residential area south of site.



Photograph 7 (facing S):
Residential area south of site.



Photograph 8 (facing W):
Site is covered by grass



Photograph 9 (facing W):
Wetland type plants present onsite.



Photograph 10 (facing S):
Reeds present near to the stream.



Photograph 11 (facing N):
Large tree present onsite.



Photograph 12 (facing W):
Dense trees on western site boundary.



Photograph 13:
Concrete onsite.



Photograph 14 (facing NE):
Gate to adjacent field surrounded by concrete.



Photograph 15 (facing S):
Stream present onsite.



Photograph 16 (facing SW):
Stream present onsite with steep banks.



Photograph 17 (facing S):
Existing farm building which appeared to house animals.



Photograph 18 (facing W):
Metal storage containers onsite.



Photograph 19:
Rubble and possibly fly-tipped waste onsite.



Photograph 20:
Rubble and possibly fly-tipped waste onsite.



Photograph 21 (facing W):
Pallets noted onsite.



Photograph 22:
Trailer with possible corrugated asbestos inside.



Photograph 23:

Trailer with possible corrugated asbestos inside.



Photograph 24:

Horsetail identified onsite along the southern boundary.



Photograph 25:

Saturated orangish grey clay.



Photograph 26:
Saturated orangish grey clay.



Photograph 27:
Organic soil noted in the northern part of the site.



Photograph 28:
Made ground identified in the footprint of the former building onsite.



Photograph 29:
Made ground identified in the footprint of the former building onsite.

Bury Business Centre,
Kay Street, Bury BL9 6BU

Tel: 0161 763 7200

The Corn Exchange, Fenwick Street,
Liverpool L2 7QL

Tel: 0151 235 8716

Unit 121, Wright Business Centre,
1 Lonmay Road, Glasgow G33 4EL

Tel: 0141 773 6269

www.thelkgroup.com