



Phase 1

Environmental Assessment Report

Jackson Fold Farm

Pilsworth Road

Bury

BL9 8QZ

Date: 2nd August 2023

Version 2

ENVIROSOLUTION LTD

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Document Verification

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Executive Summary

The preliminary environmental site assessment indicates that the site can be classified as moderate to high risk in terms of contamination and the risks to the identified receptors (e.g., human health and buildings) following redevelopment is considered to be moderate to high.

This classification is due to the historic on-site agricultural land uses with the potential to contaminate the shallow soils beneath the site. Additionally, a number of off-site tanks, and historic and currently authorised landfill sites have been identified in the surrounding area. Potential contaminants include heavy metals, hydrocarbons, polyaromatic hydrocarbons (PAHs), asbestos and ground gases (methane and carbon dioxide).

It is recommended a Phase 2 intrusive ground investigation is undertaken prior to site redevelopment to obtain additional information on the ground conditions and the contamination status. The investigation should be carried out by qualified and competent persons. The scope of works for the investigation will need to be submitted and approved by the local authority prior to the commencement of the Phase 2 intrusive works.

Disclaimer

This report has been prepared by EnviroSolution Ltd who has exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant experienced in preparing reports of a similar scope.

However, to the extent that the report is based on or relies upon information contained in records, reports or other materials provided to EnviroSolution Ltd, which have not been independently produced or verified, EnviroSolution Ltd, gives no warranty, representation or assurance as to the accuracy or completeness of such information.

The scope of this report is restricted to potential ground contamination and its environmental impact; it does not cover above-ground hazards (e.g., asbestos in buildings), ecological sensitivities (e.g., bats), biological or horticultural hazards (e.g., Japanese Knotweed) or structural hazards (e.g., building stability) unless specifically referred to in the text of this report.

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1.1 Introduction

1.2 Background

EnviroSolution Ltd was commissioned to undertake a Phase 1 Environmental Site Assessment at a site located at Jackson Fold Farm in Bury. This report was commissioned to provide information on the potential contamination status of the site.

1.3 Objectives

The objective of the preliminary environmental site assessment was:

1. To provide a summary of the environmental setting and historical land use of the site and immediate surrounding area.
2. To obtain information on the ground conditions present beneath the site.
3. To develop a conceptual site model and complete a generic quantitative risk assessment to identify any environmental risks and liabilities associated with ground conditions at the site.

1.4 Scope of Work

To achieve the objectives, the following scope of work was completed:

1. A desk-based study of the site comprising a review of available environmental information for the site such as geological and hydrogeological data and historical land use information.
2. A site walkover.
3. Assessment of potential hazards and constraints during construction and longer term.

This work has been devised to generally comply with the relevant principles and requirements of the following legalisation and guidance:

- Part IIA of the Environmental Protection Act, 1990 and Section 57 of the Environmental Act 1995;
- Contaminated Land (England) (Amendment) Regulations 2012 and Contaminated Land Statutory Guidance (DEFRA, April 2012);
- National Planning Policy Framework (Ministry of Housing, Communities and Local Government, July 2021);
- BS10175: 2011 +A2:2017 “Investigation of Potentially Contaminated Sites- Code of Practice”; and
- Environment Agency (2020) Land Contamination Risk Management Report LCRM “How to assess and manage the risks from land contamination”.

1.5 Information Sources

Historical Ordnance Survey maps have been obtained from historical records, ranging from 1848 to 2015. These maps provide high quality information on historical site use.

The British Geological Survey Geoindex database has been used to provide information on geo-environmental aspects of the site and the immediate surrounding area such as geological, hydrogeological and hydrological data.

The Environment Agency website (www.gov.uk/government/organisations/environment-agency) and Magic website (www.magic.gov.uk) was also used to obtain environmental information.

Industry Profiles produced by the Department of the Environment were utilised to obtain information on processes, materials and wastes associated with potential contaminative land uses near the site.

Readily available information sources have been used to produce this desk-based study. Additional information may be requested by the Local Planning Authority (e.g., local authority environmental information request). As part of the Phase 1 assessment, an environmental search was undertaken by the Pollution Regulatory Team at The Royal Borough of Kensington and Chelsea. This search provides council held trade directory and storage tank records.

2 The Site

2.1 Site Location

The site is located at Jackson Fold Farm, Pilsworth Road, Bury, BL9 8QZ. The British National Grid Reference for the approximate site centre is GR: 382555 409250.

The site location is shown on **Figure 1** in **Appendix A**.

2.2 Site Description

The site description has been prepared following a walkover survey conducted by EnviroSolution Ltd on the 27th of June 2023. The site photographs are included in **Appendix B**.

The site is irregular in shape and covers an approximate area of 2,875 square metres.

Jackson Fold Farm comprises an assortment of buildings including a rendered farmhouse, a stone barn that is used for stabling, brick stables, modern agricultural buildings and associated agricultural land. To the rear of the site there are temporary structures and a couple of caravans and containers.

The site is accessed via a double gate along Pilsworth Road along the southern boundary.

The topography of the site is flat and level with no significant change in elevation.

The surrounding land is largely dominated by waste landfilling to the east, north and south of the site.

No petrol filling stations have been identified within a 250m radius of the site.

The existing site plan is shown on **Figure 2** which is included in **Appendix A**.

2.3 Development Proposals

At this stage it is understood that future development plans are for the redevelopment of the site and include the conversion of the cottage/ stables into a dwelling, the replacement of the stables with 11 no. dwellings and the conversion of the existing barn to 6 no. dwellings.

The proposed development plan is shown on **Figure 3** which is included in **Appendix A**.

2.4 Site History

The development site and surrounding area has been reviewed with reference to historical Ordnance Survey (OS) maps. The history of the site and immediate surrounding area is summarised in Table 1. Copies of the historical OS maps are included in **Appendix C**. A search buffer of 250m has been used.

Table 1 - Historic Mapping Review

Date	Scale	On Site	Off Site
1848	1:10,560	The site is developed with Jacksons Green Farm.	The surrounding area is agricultural fields. Brook 100m north. Pilsworth nursery 150m northeast of the site.
1893	1:2,500	No significant changes.	No significant changes.
1910	1:2,500	Site renamed Jackson Fold.	Tanks directly southwest of the site, 130m southeast, and 200m southwest.
1930	1:2,500	Sewage tank noted on site.	No significant changes.
1937	1:2,500	No significant changes.	No significant changes.
1958	1:10,560	No significant changes.	No significant changes.
1968	1:10,560	No significant changes.	No significant changes.
1992	1:2,500	No significant changes.	No significant changes.
2006	1:10,000	No significant changes.	Large areas to the east, south and north are quarried. Pilsworth Quarry to the north and Pilsworth South Quarry to the south.
2014	1:10,000	No significant changes.	No significant changes.

*Google street view images from 2012 indicate the southern buildings were used as a limousine hire business and motorcycle tyre sales. Anecdotal information from the site owner states that tyres were not fitted or repaired on site and commercial businesses ceased activity on site in 2016.

3 Environmental Setting

3.1 Geology

Geological maps of the area indicate that the site is directly underlain by superficial hummocky glacial till deposits (Diamicton), deposited during the Pleistocene Epoch period. Diamicton generally comprises unsorted and unstratified drift, generally over-consolidated. It consists of a heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape (diamicton).

The underlying bedrock is the Pennine Lower Coal Measures Formation which is of Carboniferous age. The Pennine Lower Coal Measures generally consist of interbedded mudstones, siltstones and sandstones with common coal seams.

The nearest geological fault is located 230m southwest of the site.

A copy of the geological maps is included in **Appendix D**.

3.2 Radon

The site lies within an elevated band of radon potential where it is estimated that between 1-3% of the properties are above the action level (medium probability). Radon protective measures are not deemed necessary for the development.

3.3 Coal Mining Activity

The site falls within a Coal Mining Reporting Area described as having minable coal deposits but does not lie within a 'Development High Risk Area' for coal mining, as defined by the Coal Authority. As such, it is considered that there are no coal mining related hazards which could affect the site.

A copy of the coal mining summary map is included in **Appendix E**.

3.4 Hydrogeology

The superficial deposits are designated as a Secondary (undifferentiated) Aquifer, defined as; has been assigned in cases where it has not been possible to attribute either category A or B to a rock type due to the variable characteristics of the rock type.

The underlying bedrock deposits are designated as a Secondary A Aquifer defined as; secondary A aquifers comprise permeable layers that can support local water supplies, and may form an important source of base flow to rivers.

There are no records of a groundwater abstraction licences located within a 1km radius of the site.

The site does not lie within a Source Protection Zone and no such zone is located within a 1km radius of the site.

A copy of the hydrogeological maps is included in **Appendix F**.

3.5 Hydrology

There are no significant surface water features (rivers, lakes and reservoirs) located within a 1km radius of the site.

A small unnamed brook is located 100m north of the site.

3.6 Flood Risk

The site lies within a Flood Zone 1 (low probability), land assessed as having less than a 1 in 1,000 annual probability of river flooding (0.01%) in any year (low risk). The completion of a detailed Flood Risk Assessment is not deemed necessary for this site.

3.7 Waste Management Facilities

There are 3 no. records of historic landfill sites located within a 1km radius of the site. The landfill site information is summarised in Table 2 below:

Table 2 – Historic Landfill Summary

Landfill Site	Operation Dates	Waste Type	Distance from Site
Pilsworth Sand Pit Phase A	1987 – 1989	Inert, Industrial, Special	210m E
Pilsworth Sand Pit	1987 – 1989	Industrial	220m W
Roach Bank	1970 – 1991	Inert	890m W

There are 2 no. currently authorised landfill sites located within a 1km radius of the site. The landfill site information is summarised in Table 3 below:

Table 3 – Authorised Landfill Summary

Landfill Site	Operation Dates	Waste Type	Distance from Site
Pilsworth North Landfill Site	From 2022	Waste landfilling; >10 T/D with capacity >25,000T excluding inert waste	20m E
Pilsworth South Landfill Site	From 2020	Waste landfilling; >10 T/D with capacity >25,000T excluding inert waste	25m S

There are no record of sites operating under an environmental permit for waste operations within a 1km radius of the site recorded by the Environment Agency.

3.8 Environmental Permits, Incidents and Registers

There are several records of sites located within a 1km radius of the development site operating under an environmental permit for discharges to water and groundwater. The closest of which is located 200m south of the site for waste collection.

There are 6 no. records of pollution incidents recorded by the Environment Agency having occurred within a 1km radius of the site. The pollution incidents are summarised in Table 4 below:

Table 4 – Pollution Incident Summary

Pollutant	Distance from Site
contaminated water (suspended solids)	150m NW
Oils and fuel (diesel)	565m W
Inert materials and wastes (rocks and gravels)	765m SW
Contaminated water (other contaminated water)	880m S
Oils and fuel (Gas and fuel oils)	935m SW
Oils and fuel (Unidentified oil)	990m S

There is a single record of a site located within a 1km radius of the development site operating under an environmental installation permit recorded by the Environment Agency. The permit is held by Holchem Laboratories Limited 690m southwest of the site for inorganic chemicals.

3.9 Designated Environmentally Sensitive Sites

There are 2 no. records of designated environmentally sensitive sites located within a 1km radius of the site. The designations are summarised in Table 5 below:

Table 5 – Environmental Designations Summary

Designation	Distance from Site	Information
Greenbelt	On Site	The site lies within Greenbelt land.
Local Nature Reserve	950m SW	The Hollins Vale Local Nature Reserve is located 950m southwest of the site.

4 Preliminary Conceptual Site Model

4.1 Introduction

In order to assess the environmental risks present, a preliminary conceptual model has been developed for the site. This model has been developed using best practice guidelines in conjunction with the current assessment framework taking into account the development proposals. This preliminary conceptual model is based on the gathered desk-based information (e.g. historical OS data and data sourced from the EA, Geoindex and Magic databases).

The conceptual site model is a representation of the hypothesised relationships between sources, pathways and receptors which allows the identification of potential pollutant linkages and whether these linkages have the potential to comprise significant harm and/or pollution of controlled waters in relation to the site. This model comprises three elements:

Source – the key pollutant hazards associated with the site

Receptor – the key targets at risk from the sources

Pathway – the means by which the contaminant can cause harm to the receptor

If all three elements are present, then a potential pollutant linkage exists, and this may require further assessment.

4.2 Potential Contamination Sources

The site has been developed with the farmstead of Jackson Fold Farm since as far back as 1848. Historic maps indicate a sewage tank in the northwestern corner. Given the historic agricultural uses, contaminants may be present within the soils associated with these uses. Potential contaminants include heavy metals, polyaromatic hydrocarbons (PAHs), hydrocarbons, pathogens and asbestos.

Several tanks are recorded from historical mapping within the surroundings around the site that have the potential contaminate the shallow soils with hydrocarbons.

In addition to the above a number of historic and currently authorised landfill sites have been identified in the surrounding area that have the potential to contaminate the shallow soils at the site. Potential contaminants include heavy metals, PAHs, hydrocarbons, phenols, acids, asbestos and ground gases (methane and carbon dioxide).

4.3 Receptors

The potential receptors considered to be at risk from soil and groundwater contamination associated with the site are summarised in Table 6 below:

Table 6 - Receptor Description

Receptor	Details
Human (On Site)	- Construction workers - Future site users - Site visitors
Human (Off Site)	- Adjacent site users
Controlled Waters	- Secondary (undifferentiated) Aquifer - Secondary A Aquifer - Brook
Building/ construction materials	- Foundations - Buried services
Environmental Receptors	- Greenbelt - Local Nature Reserves

4.4 Pathways

The potential exposure pathways linking contamination with the receptors identified above are summarised in Table 7 below:

Table 7 - Exposure Pathways Summary

Receptor	Details of Exposure Pathway
Human (on-site)	- Direct ingestion of contaminated soil/groundwater - Dermal contact with soil/groundwater - Inhalation of gases and vapours
Human (off-site)	- Inhalation of fibres and particulates - Inhalation of migrating gases and vapours
Controlled waters	- Vertical and lateral migration of dissolved phase contaminants via preferential pathways to groundwater aquifers

Receptor	Details of Exposure Pathway
	- Direct surface water run-off to surface water features
Building/construction	- Buried materials/services - Contact with contaminated soil and/or groundwater

4.5 Potential Pollution Linkages

4.5.1 Human Health

At this stage it is understood that future development plans are for the redevelopment of the site and include the conversion of the cottage/ stables into a dwelling, the replacement of the stables with 11 no. dwellings and the conversion of the existing barn to 6 no. dwellings. This is considered to be a non-sensitive end use.

The presence of buildings and hardstanding would eliminate the risk of exposure, via the dermal contact and ingestion pathways to future site users to any ground contamination that may remain following development.

There could be a potential risk of exposure to any ground contamination that remains following redevelopment in the proposed areas of soft landscaping (i.e. gardens), to future site users, via all possible exposure pathways.

Any ground gases (i.e. methane and carbon dioxide) and vapours that are present within the soils beneath the site could potentially ingress into future buildings through preferential pathways (e.g. service entry points). Therefore, there would be a risk of exposure via inhalation to future site users.

There is the potential for construction workers and adjacent land users to be exposed to soil and groundwater contamination during site redevelopment. However, the use of appropriate PPE and the adoption of suitable Health and Safety methods will help to reduce the risks posed to human health during this work.

4.5.2 Controlled Waters

The site is directly underlain by diamicton deposits (Till) which are designated as a Secondary (undifferentiated) Aquifer. The diamicton may contain layers of sands and gravels which would provide a preferential pathway for contaminants to migrate to the site.

There are no groundwater abstraction licences held within 1km of the site and the site does not lie within a Source Protection Zone.

There are no significant surface water features within a 1km radius.

A small brook is located 100m north of the site. It is considered to be at such a distance from the site to be of low sensitivity.

Overall, the risk to controlled waters is deemed to be low.

4.5.3 Building/Construction Materials/Buried Services

The presence of any soil and groundwater contaminants beneath the site could potentially impact on construction materials for future new developments, such as below ground structures and services. Concrete foundations are particularly sensitive to aggressive ground conditions, i.e., sulphate attack.

If ground gases and vapour are present in the soil beneath the site, then there would be the potential risk of ingress into new properties which could present a risk of explosion.

4.6 Environmental Designations

The proposed development is not considered to pose a risk to the identified environmental receptors.

4.7 Preliminary Hazard Assessment

A preliminary hazard assessment is presented in Table 8. The preliminary hazard assessment is a qualitative assessment of the risks posed by each potential pollutant linkage described above and is used to identify the requirement for additional work (e.g., intrusive ground investigation).

Table 8 – Preliminary Hazard Assessment

Source 1	Pathway	Receptor	Likelihood	Effect	Risk	Assessment
Contaminated soil	Ingestion (via soil dust), inhalation (via soil dust and vapours), ingestion through dirty hands, dermal contact with soil/water.	Future site users Adjacent site users Construction workers	2	3	Moderate	On-site contamination source potential identified. Areas of soft landscaping will provide exposure pathways to sensitive receptors.
Contaminated soil groundwater	Direct contact	Buildings/ services	2	3	Moderate	On-site contamination source identified.
Contaminated groundwater	Downward or lateral migration Surface water run-off	Secondary (undifferentiated) Aquifer Secondary B Aquifer	1	2	Low	There are no sensitive groundwater abstractions located nearby. The site does not lie within a Source Protection Zone. No sensitive surface water features have been identified.
Ground gas / vapours Radon	Inhalation, ingress into buildings	Buildings / services Future site users Adjacent site users Construction workers	3	4	High	Ground gas potential identified from off-site landfills. Hydrocarbon vapours potential from off-site sources. Site is located within a medium probability area for radon.

Using Risk Matrix (Table 9) Degree of Risk (R) = Likelihood (L) x Effect (E)

Table 9 - Risk Matrix, Degree of Risk (R) = Likelihood (L) x Effect (E)

Likelihood	Description	Probability	Effect (E)	Description
5	Almost certain	>70%		
4	Probable	50-70%	4	Severe
3	Likely	30-50%	3	Medium
2	Unlikely	10-30%	2	Mild
1	Negligible	<10%	1	Minor
Risk (R)	Risk Level	Action		
1-5	Low	None required		
6-10	Moderate	Further assessment via Phase 2 intrusive ground investigation.		
>10	High	Further assessment via Phase 2 intrusive ground investigation.		

5 Conclusions and Recommendations

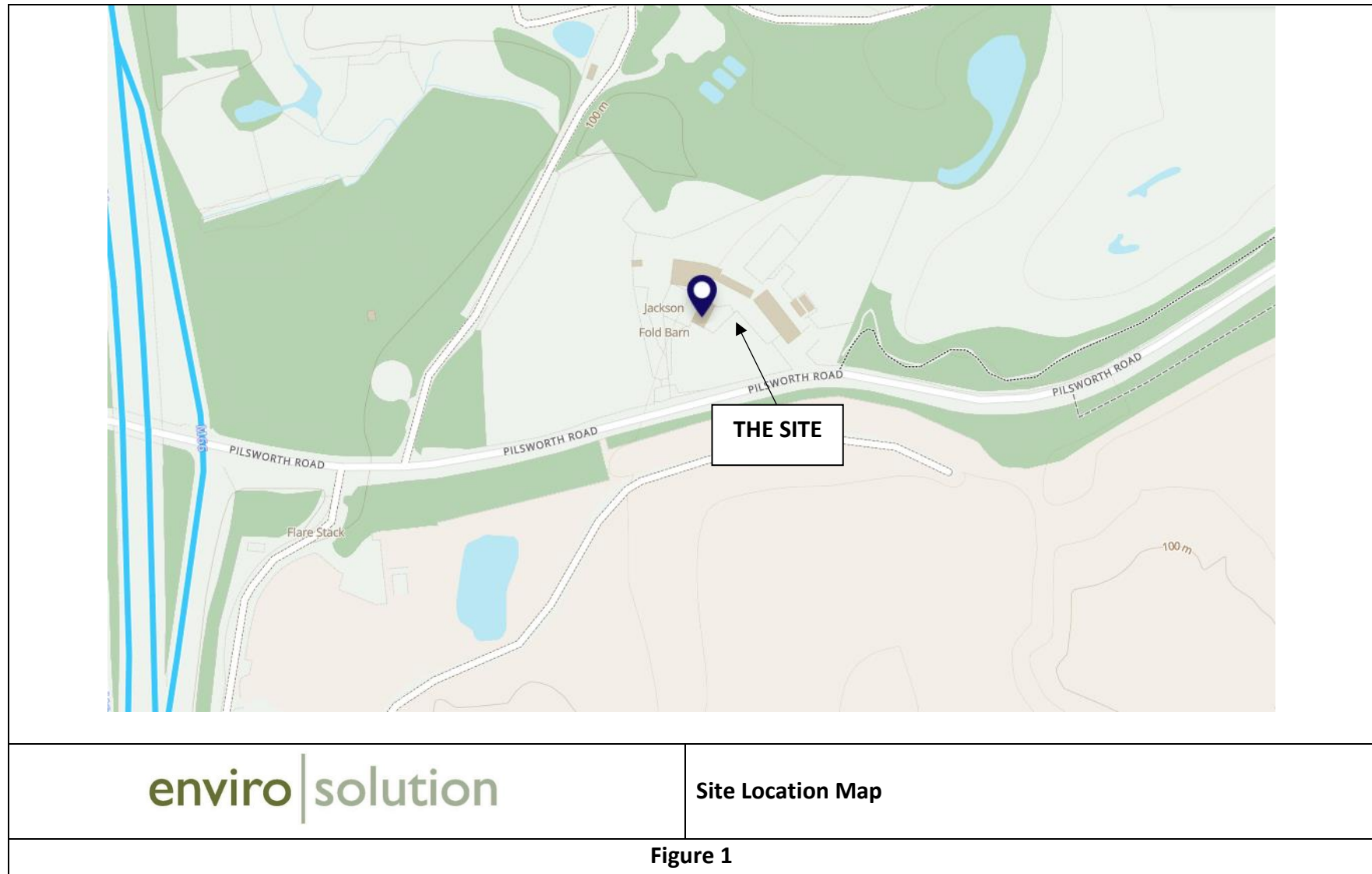
The preliminary environmental site assessment indicates that the site can be classified as moderate to high risk in terms of contamination and the risks to the identified receptors (e.g., human health and buildings) following redevelopment is considered to be moderate to high.

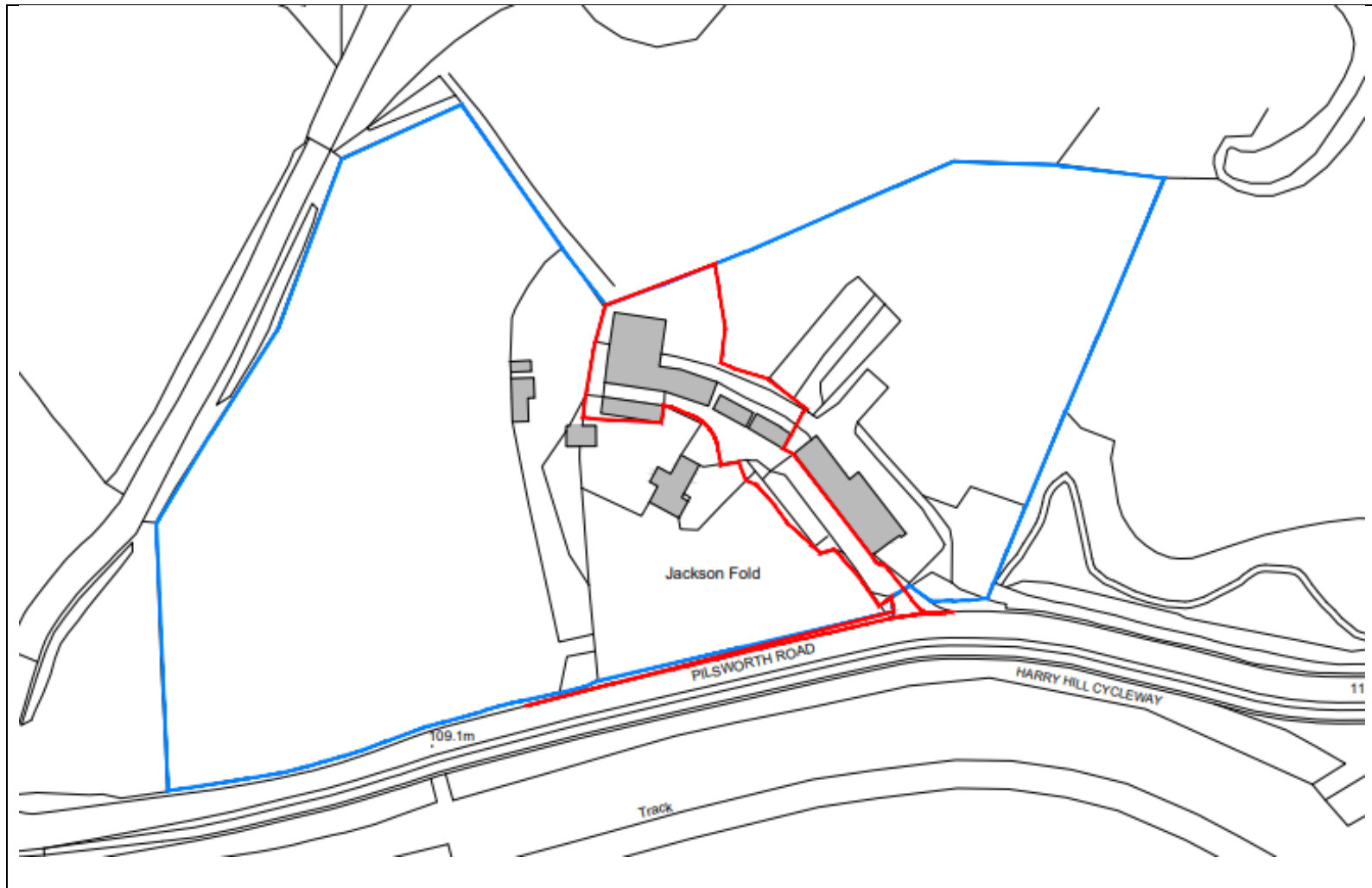
This classification is due to the historic on-site agricultural land uses with the potential to contaminate the shallow soils beneath the site. Additionally, a number of off-site tanks, and historic and currently authorised landfill sites have been identified in the surrounding area. Potential contaminants include heavy metals, hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), asbestos and ground gases (methane and carbon dioxide).

It is recommended a Phase 2 intrusive ground investigation is undertaken prior to site redevelopment to obtain additional information on the ground conditions and the contamination status. The investigation should be carried out by qualified and competent persons. The scope of works for the investigation will need to be submitted and approved by the local authority prior to the commencement of the Phase 2 intrusive works.

APPENDICES

Appendix A – Site Location and Site Plan





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Existing Site Plan

Figure 2



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Proposed Development Plan

Figure 3

Appendix B – Site Photographs



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Entrance looking north



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Land to the west



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Stable buildings



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Northern end of stables



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Interior of stables



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Adjacent land to the north



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Farmhouse looking
northwest



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Appendix C – Historic Maps

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

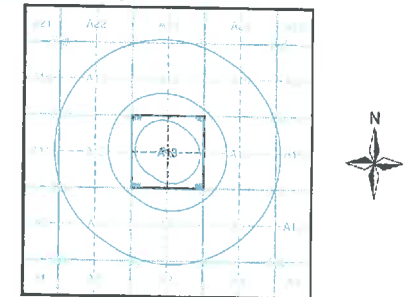
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848 - 1851	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1910	5
Lancashire And Furness	1:10,560	1923 - 1931	6
Lancashire And Furness	1:10,560	1932	7
Lancashire And Furness	1:10,560	1938	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1965 - 1967	10
Ordnance Survey Plan	1:10,000	1974	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983 - 1984	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2014	15

Historical Map - Slice A



Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ

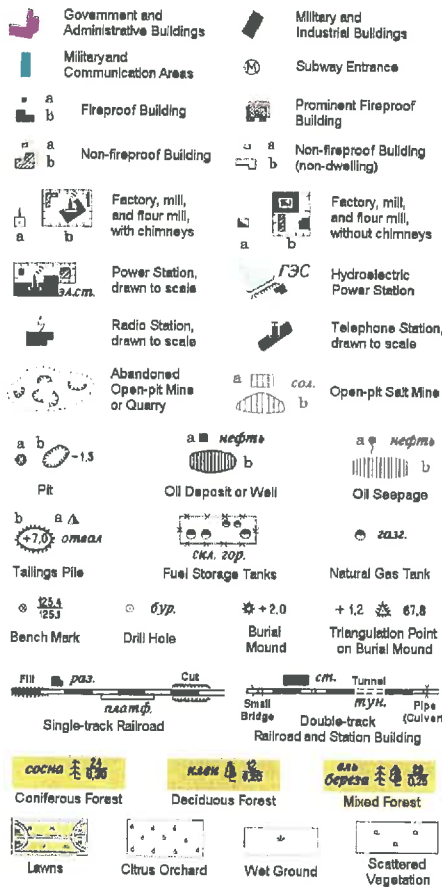


Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale



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

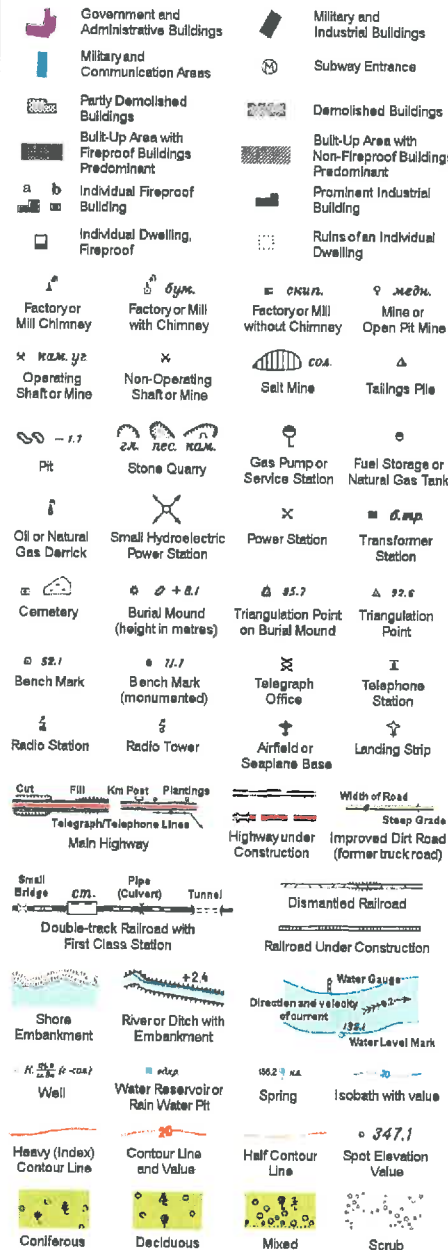
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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



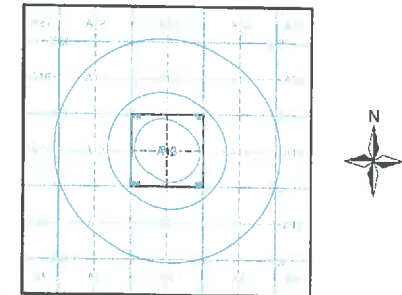
Key to Numbers on Mapping



Historical Mapping & Photography Included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,580	1848 - 1851	3
Lancashire And Furness	1:10,580	1894	4
Lancashire And Furness	1:10,580	1910	5
Lancashire And Furness	1:10,580	1923 - 1931	6
Lancashire And Furness	1:10,580	1932	7
Lancashire And Furness	1:10,580	1938	8
Ordnance Survey Plan	1:10,000	1955 - 1958	9
Ordnance Survey Plan	1:10,000	1965 - 1967	10
Ordnance Survey Plan	1:10,000	1974	11
Manchester	1:25,000	1975	12
Ordnance Survey Plan	1:10,000	1983 - 1984	13
10K Raster Mapping	1:10,000	2008	14
VectorMap Local	1:10,000	2014	15

Russian Map - Slice A



Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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

Lancashire And Furness

Published 1848 - 1851

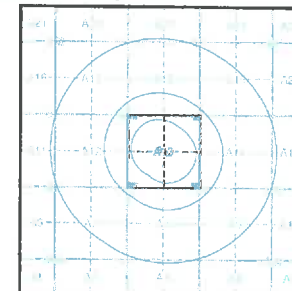
Source map scale - 1:10,560

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 data given therefore is often some years later than the surveyed data. 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)

08800
1851
1:10,560
09800
1848
1:10,560

Historical Map - Slice A

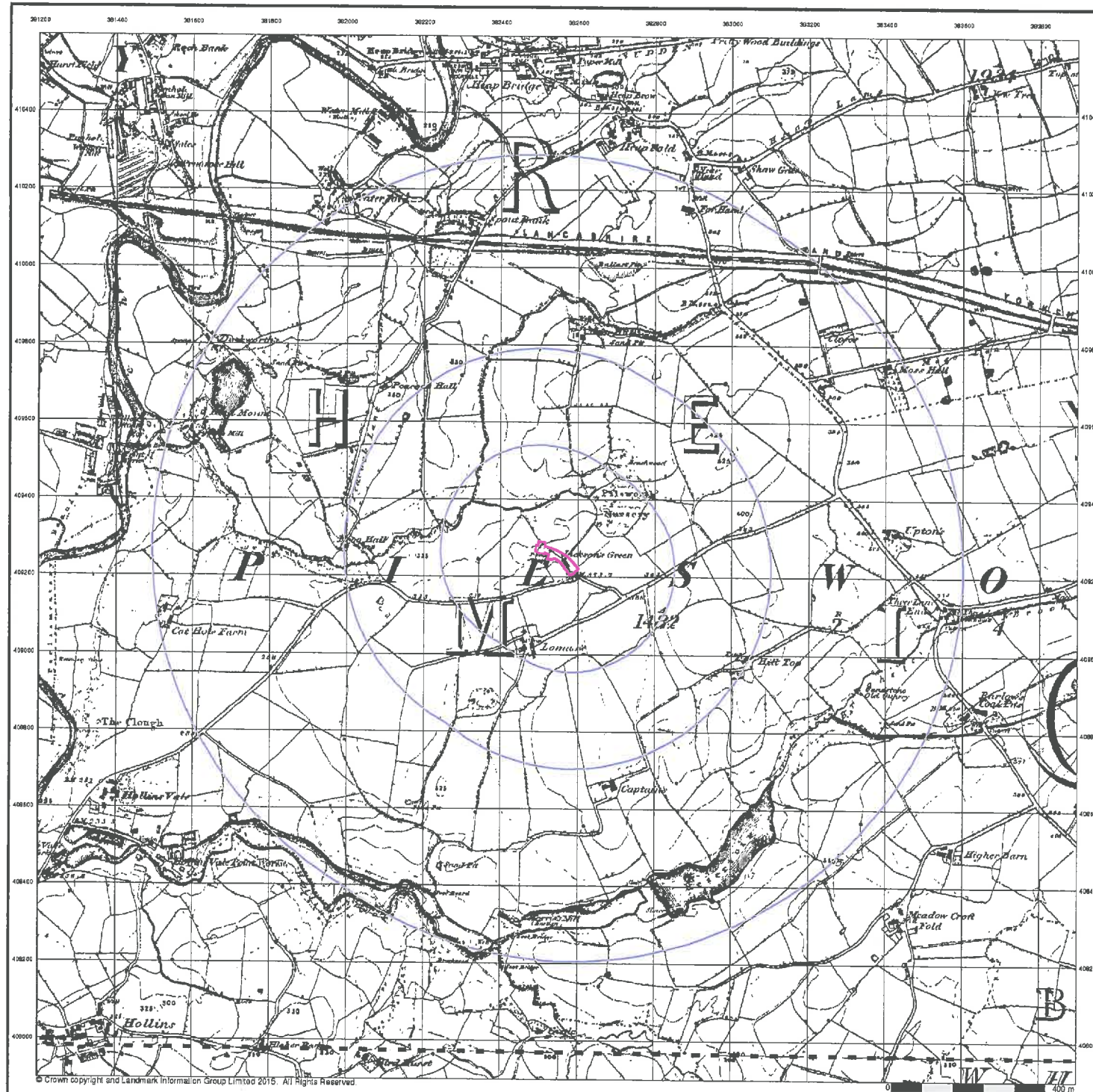


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness Published 1894

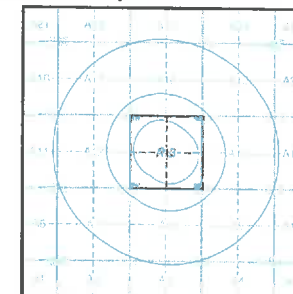
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

096SW	1894	1:10,560
096NW	1894	1:10,560

Historical Map - Slice A

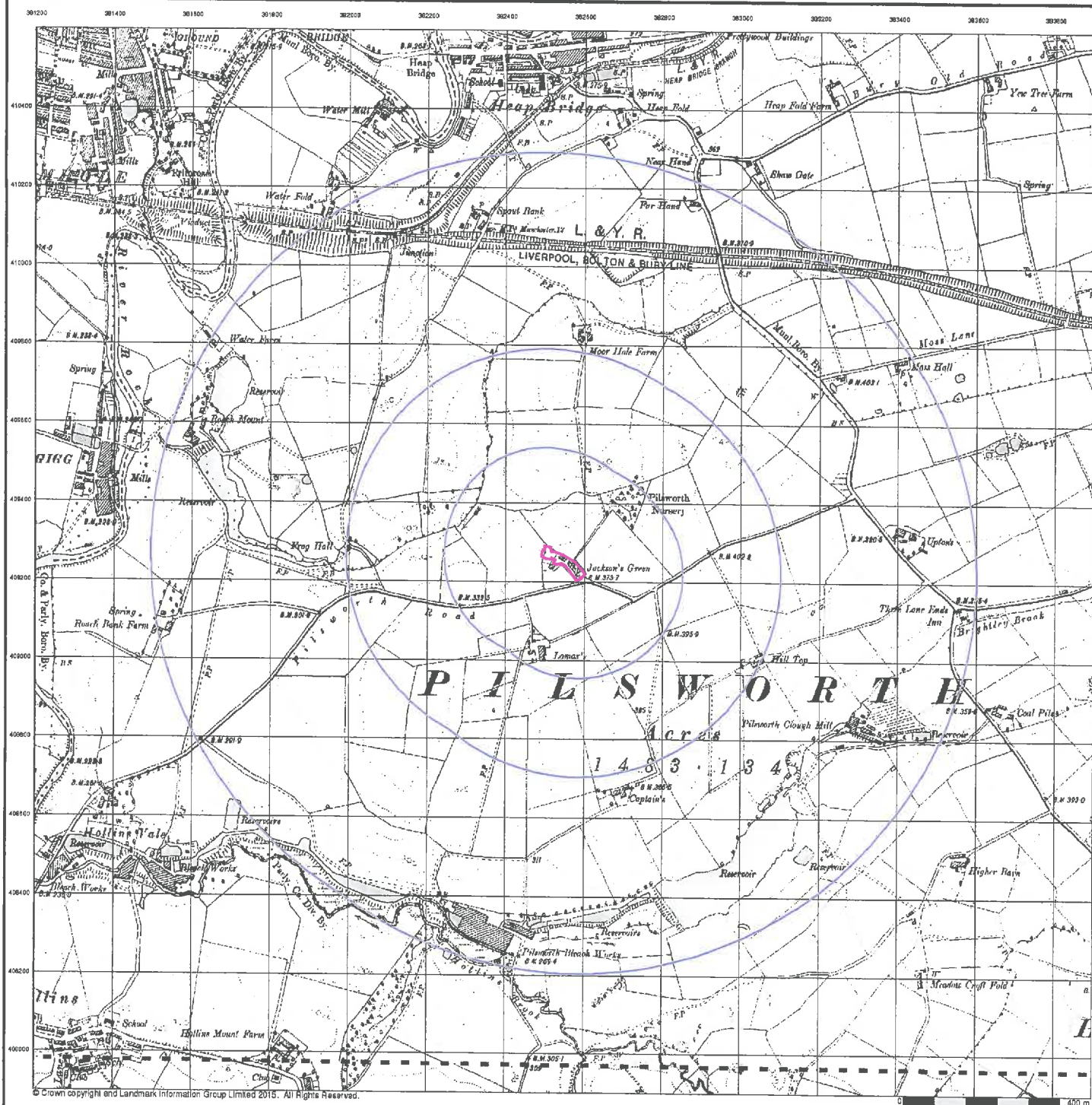


Order Details

Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness Published 1910

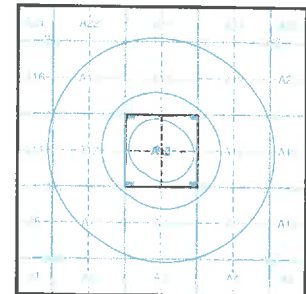
Source map scale - 1:10,560

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)

08BSW	1910	1:10,560
09BNW	1910	1:10,560

Historical Map - Slice A

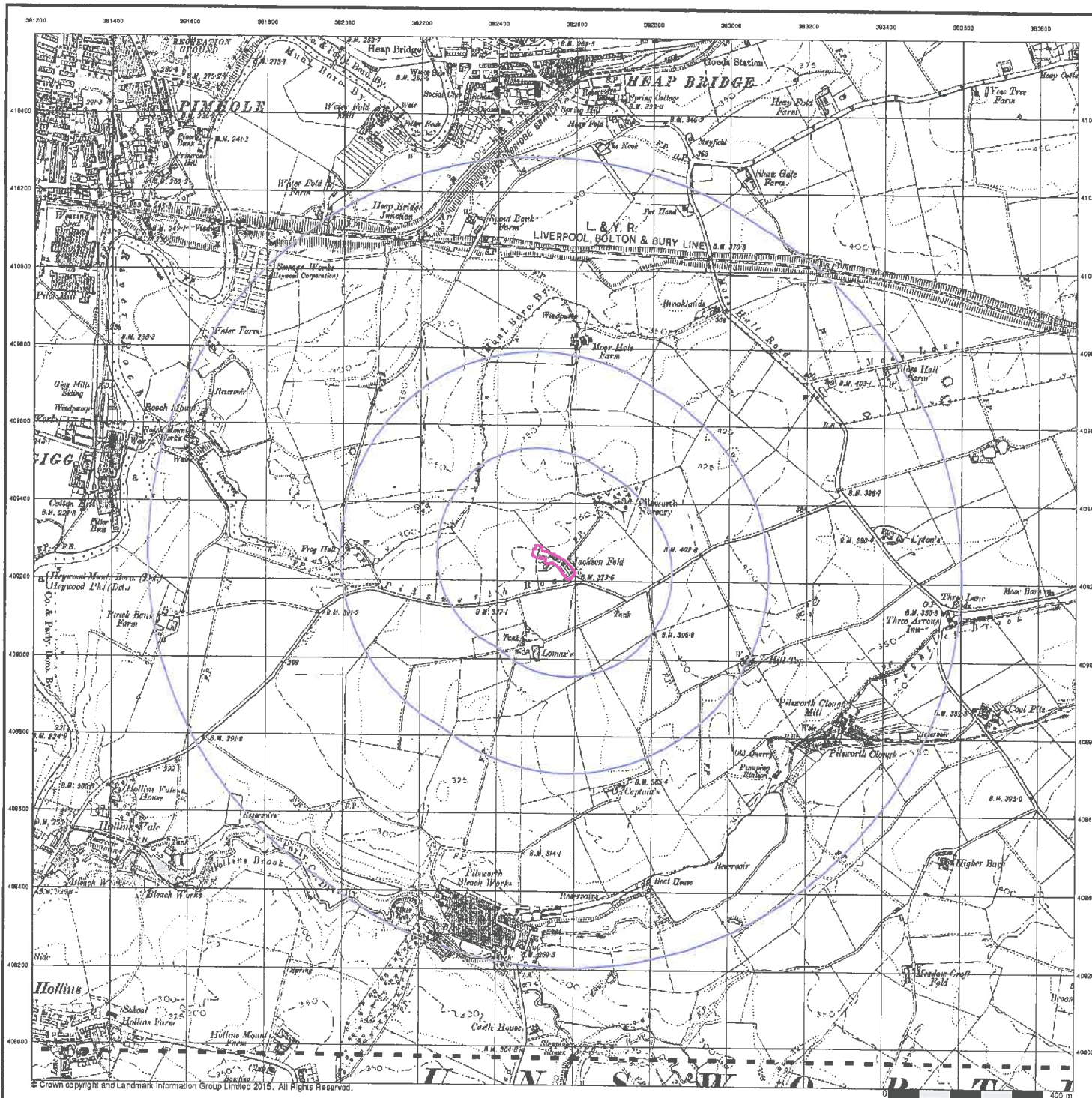


Order Details

Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness

Published 1923 - 1931

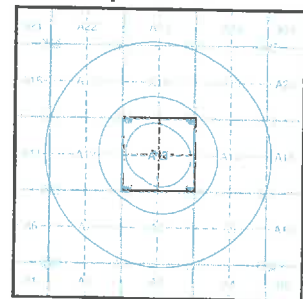
Source map scale - 1:10,560

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 1838, 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)

058SW	1931	1:10,560
096NW	1923	1:10,560

Historical Map - Slice A

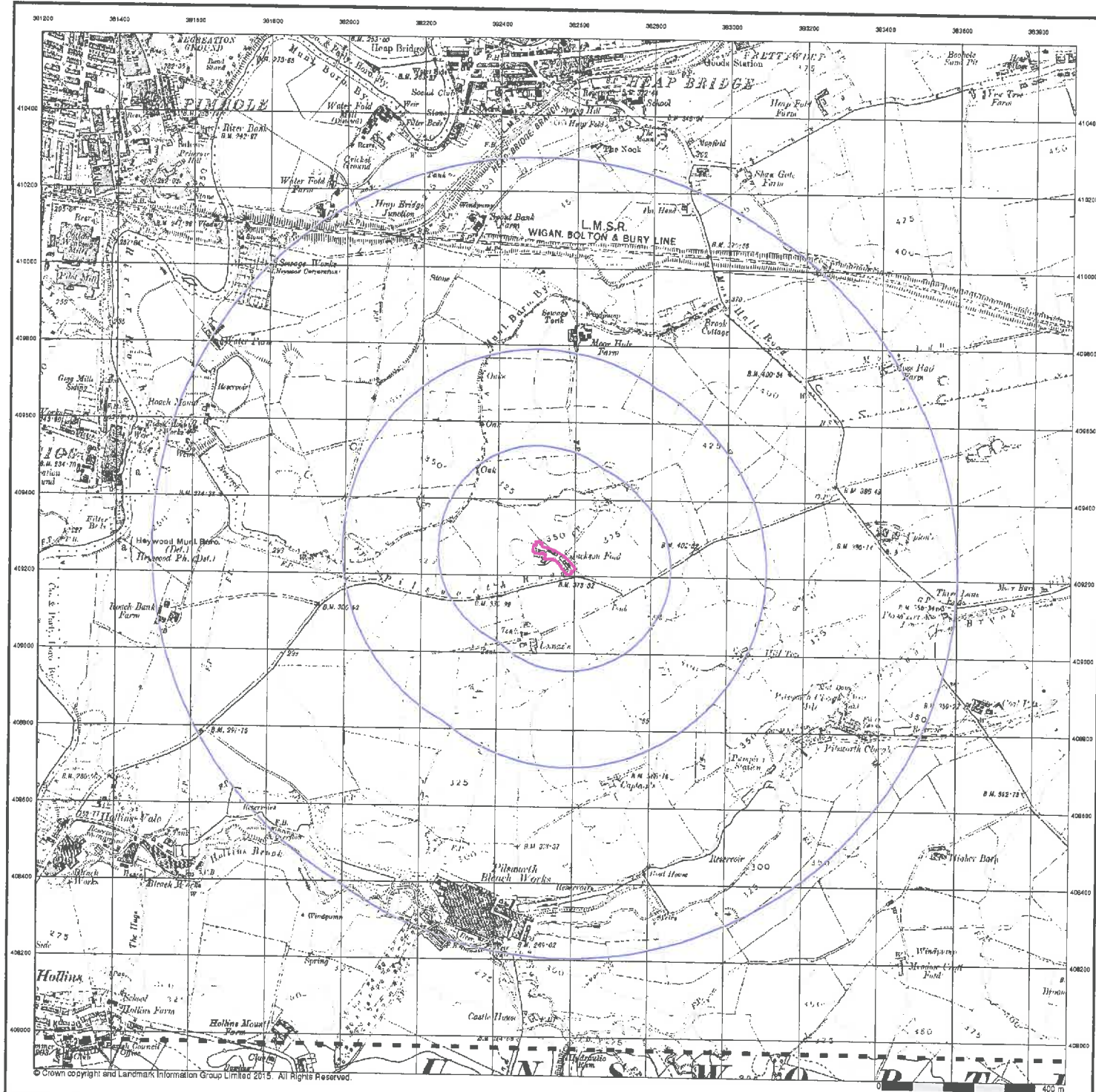


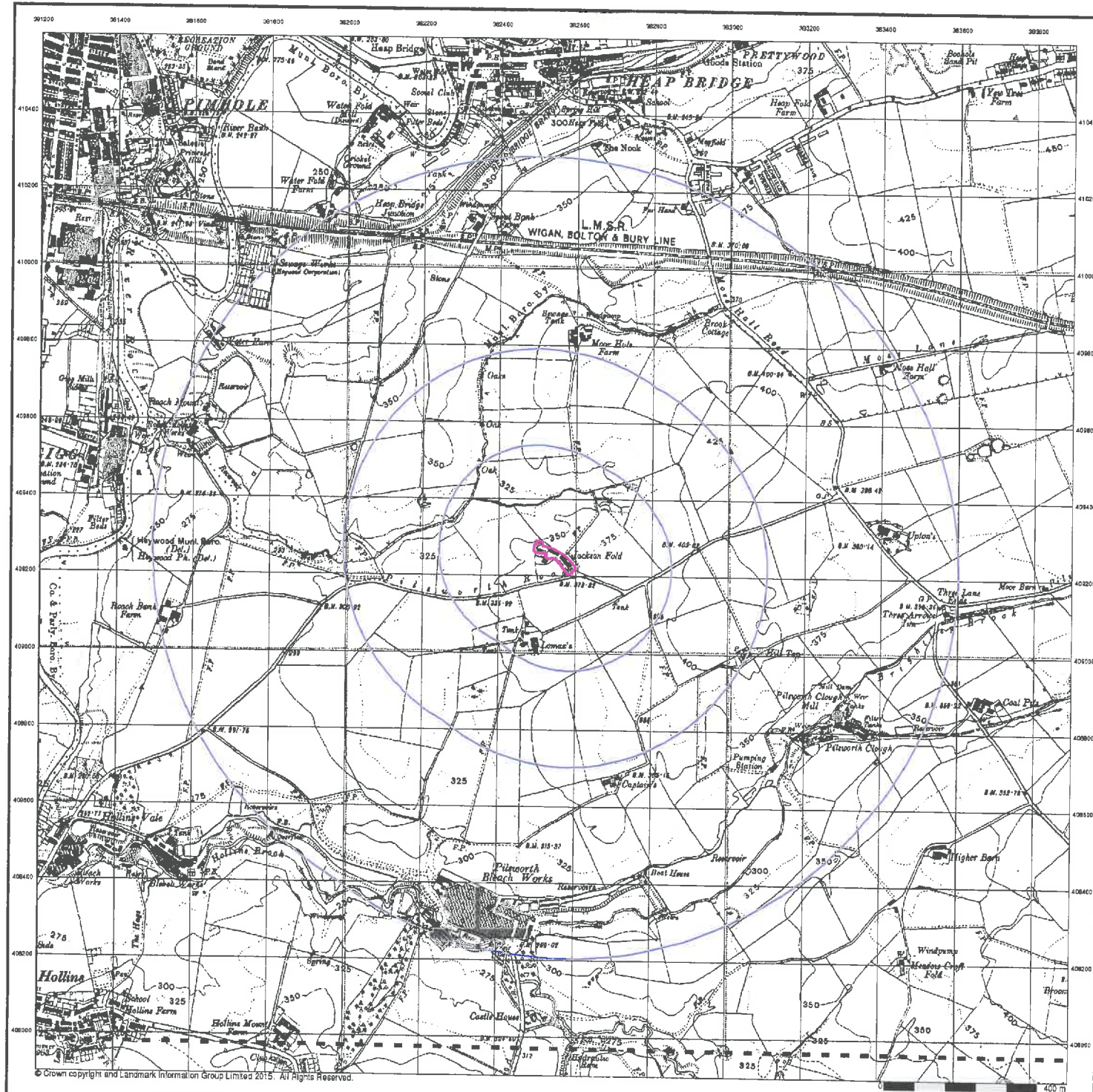
Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ





Lancashire And Furness Published 1938

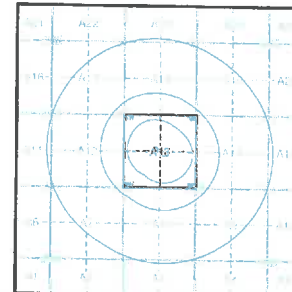
Source map scale - 1:10,560

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)

088SW	1938	1:10,560
096NW	1938	1:10,560

Historical Map - Slice A



Order Details

Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

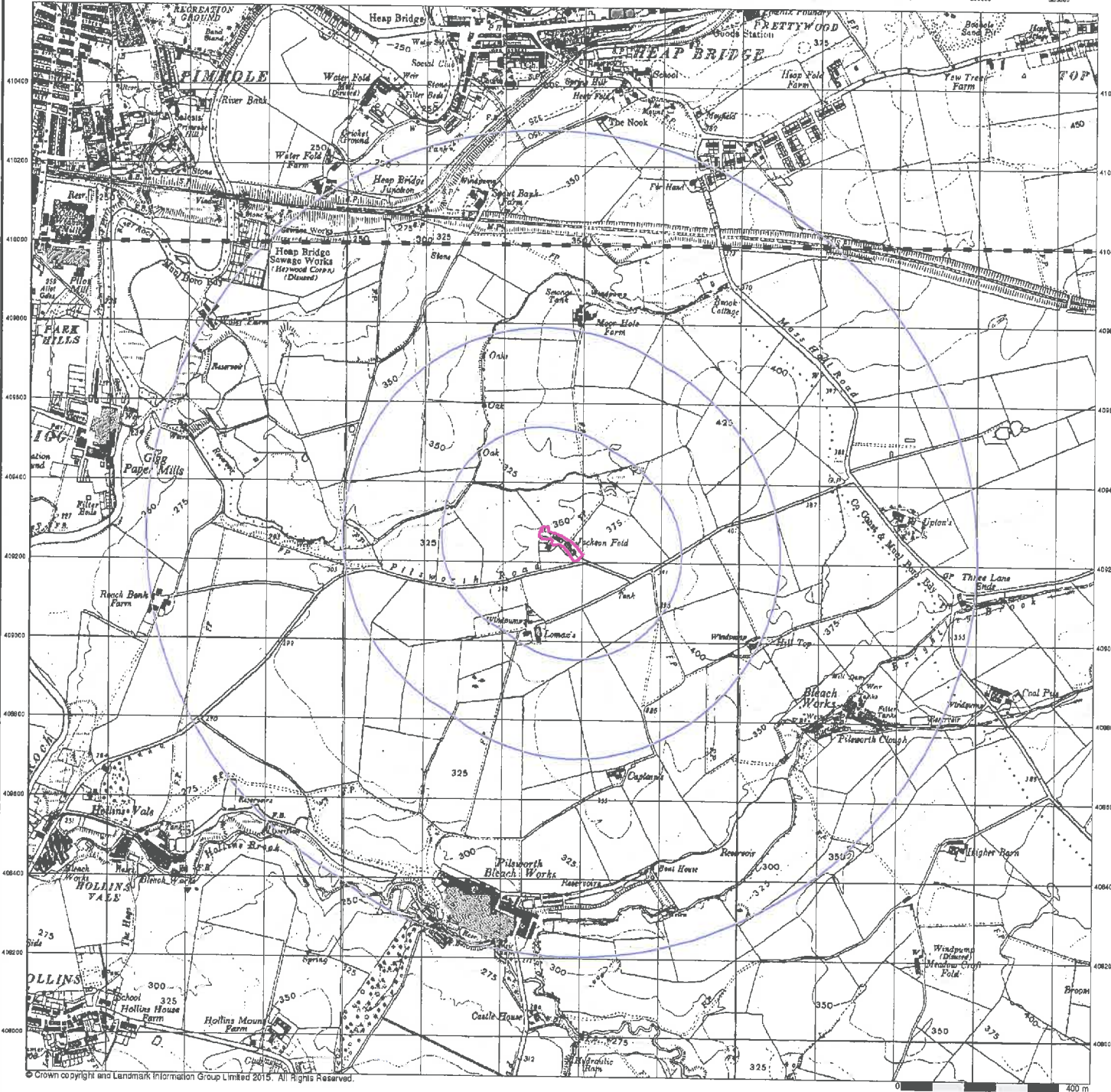
Site Details

Jackson Fold Farm, Plisworth Road, BURY, Lancashire, BL9 8QZ



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301250 301400 301550 301700 301850 302000 302150 302300 302450 302600 302750 302900 303050 303200 303350 303500 303650



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Ordnance Survey Plan Published 1955 - 1956

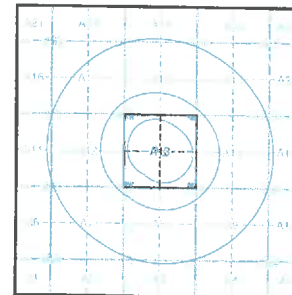
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD81SW
1956
1:10,560
SD80NW
1955
1:10,560

Historical Map - Slice A



Order Details

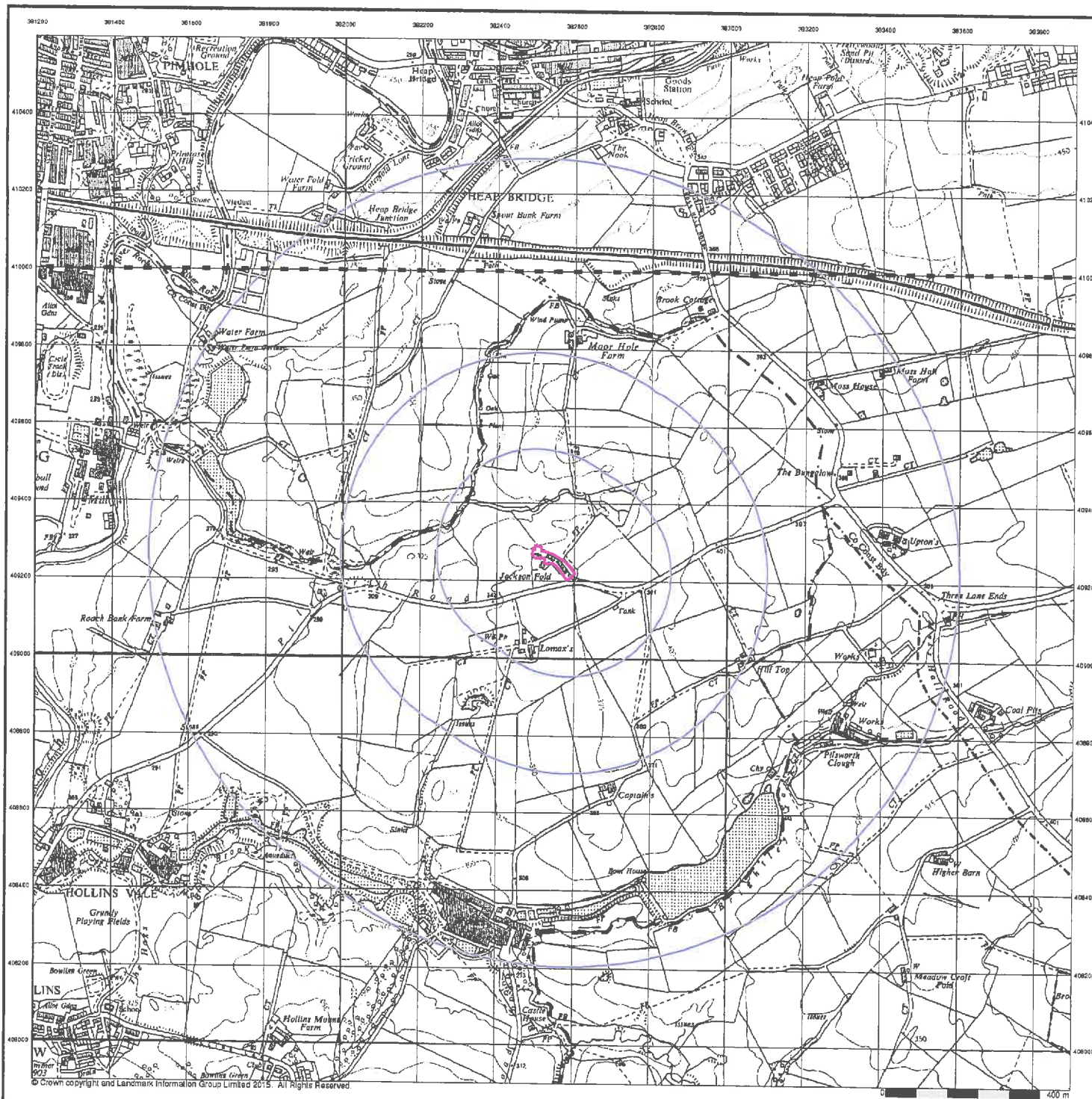
Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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Ordnance Survey Plan

Published 1965 - 1967

Source map scale - 1:10,000

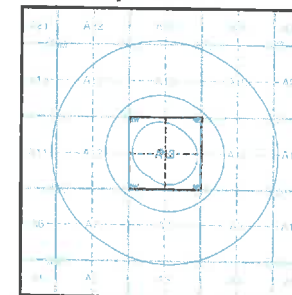
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given therefore is often some years later than the surveyed data. 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)

SD81SW
1967
1:10,560

SD80NW
1965
1:10,560

Historical Map - Slice A



Order Details

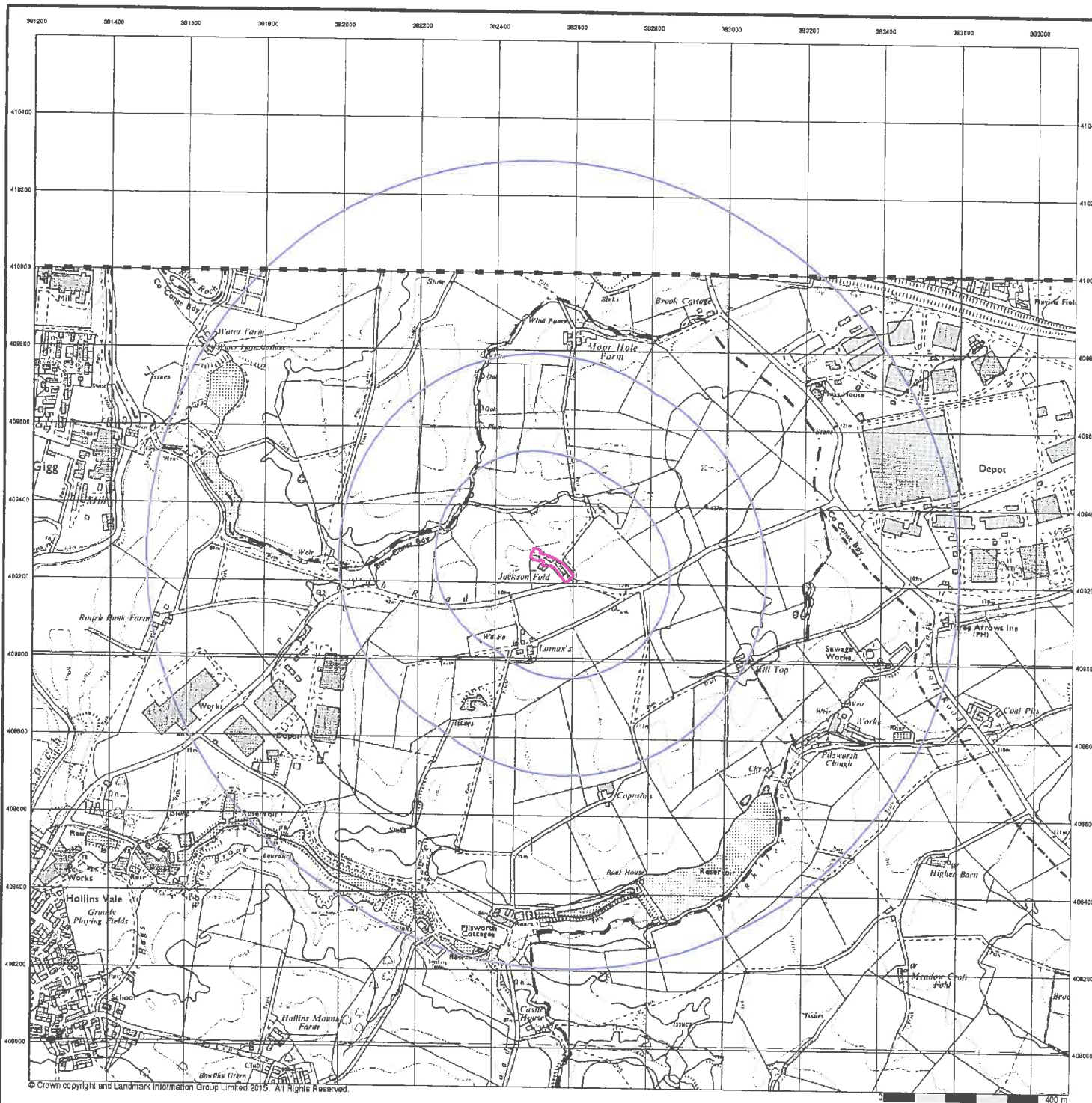
Order Number: 65308318 1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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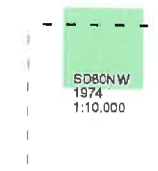


Ordnance Survey Plan Published 1974

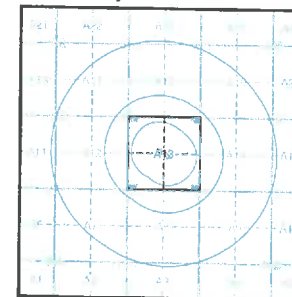
Source map scale - 1:10,000

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 1:10,000 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 1:10,000 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: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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Fax: 0844 844 9951
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VectorMap Local

Published 2014

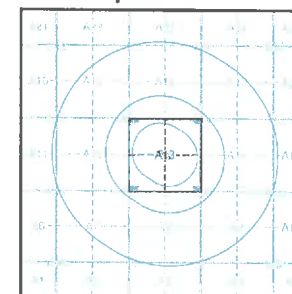
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD81SW
2014
Variable
SD80NW
2014
Variable

Historical Map - Slice A

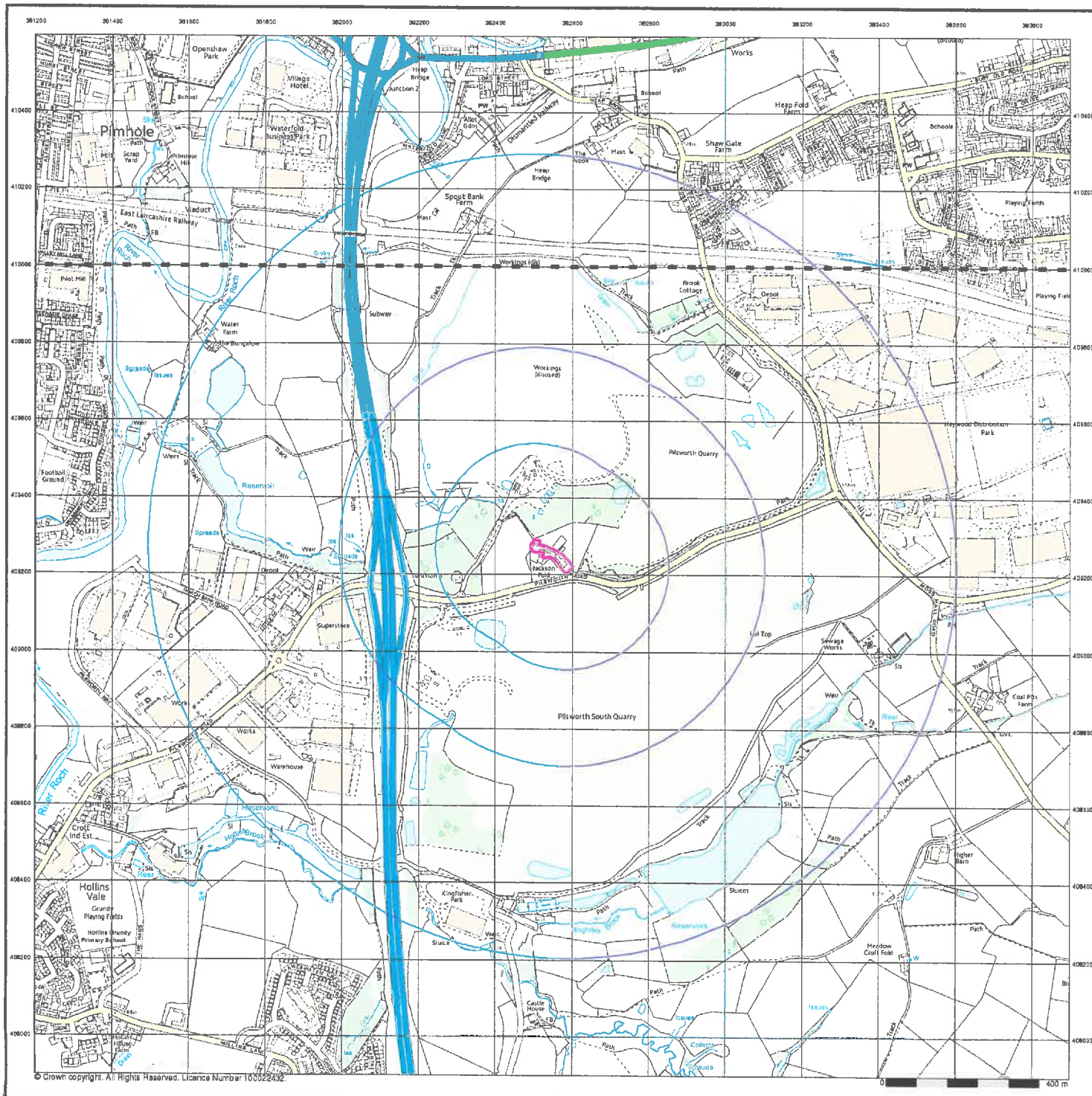


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

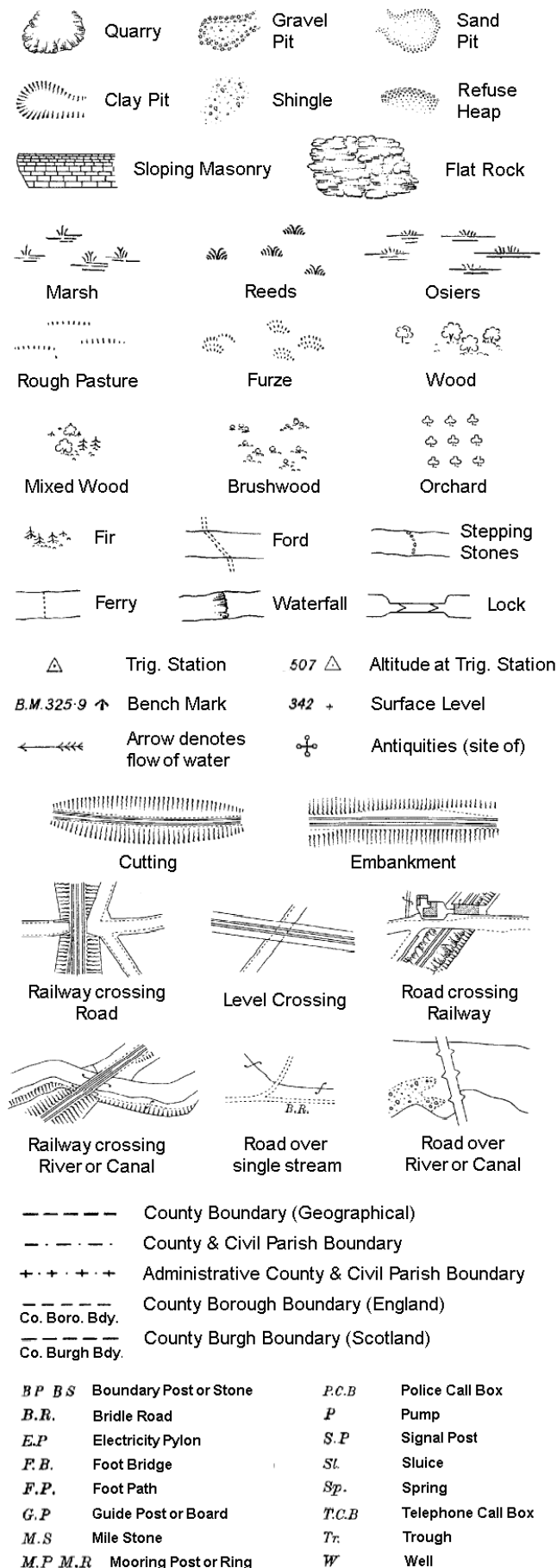
Site Details

Jackson Fold Farm, Plisworth Road, BURY, Lancashire, BL9 8QZ

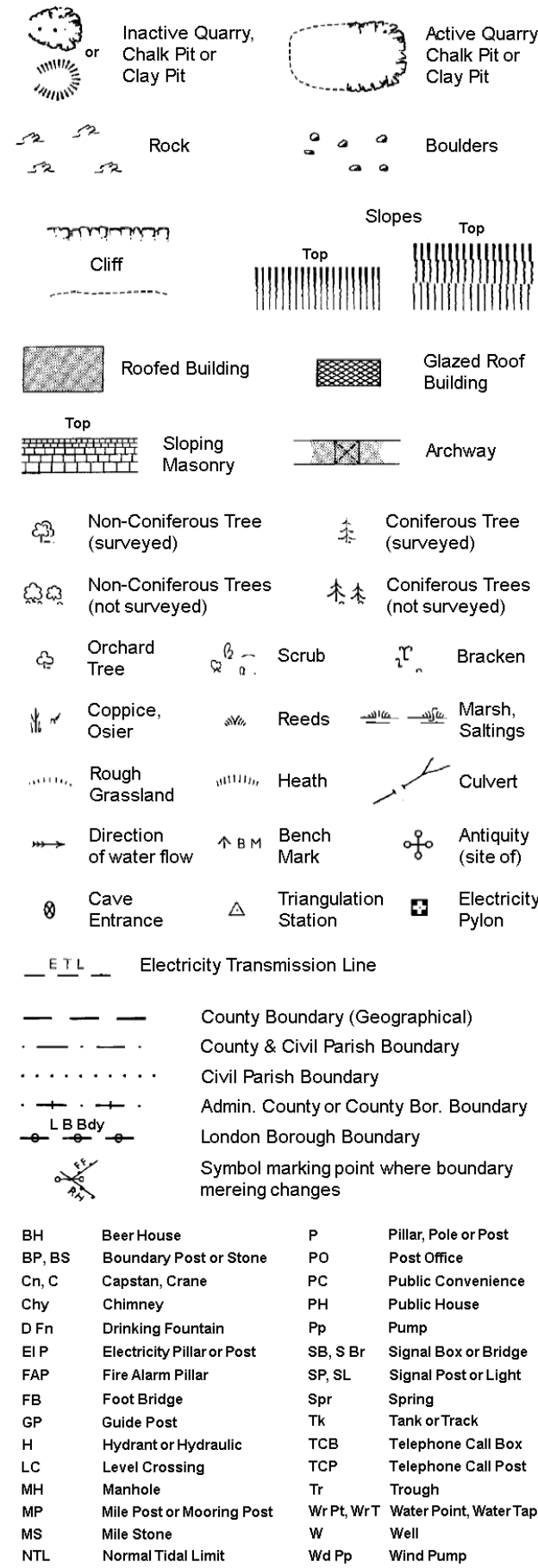


Historical Mapping Legends

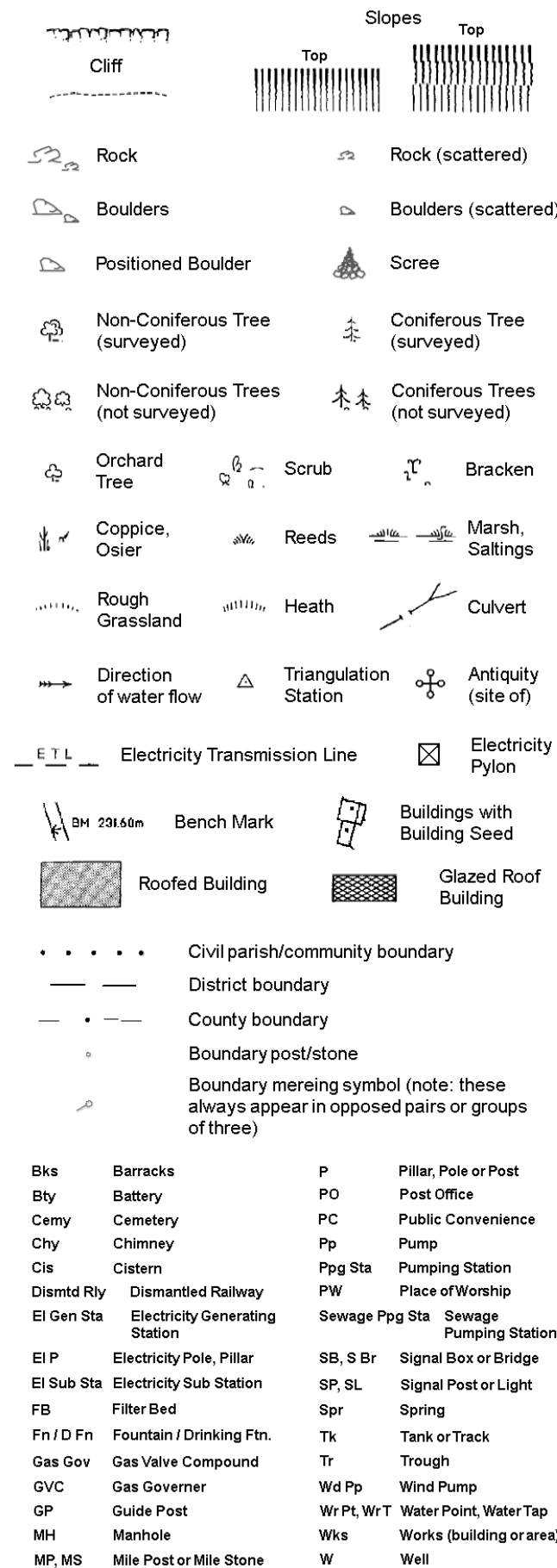
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



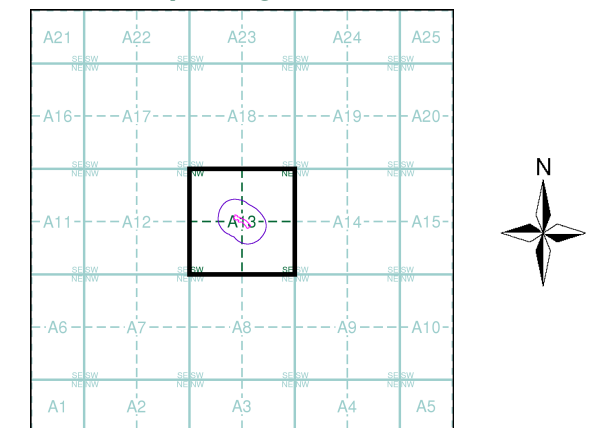
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1930	4
Lancashire And Furness	1:2,500	1937 - 1945	5
Ordnance Survey Plan	1:2,500	1958	6
Ordnance Survey Plan	1:2,500	1968	7
Additional SIMs	1:2,500	1981	8
Large-Scale National Grid Data	1:1,250	1992	9
Large-Scale National Grid Data	1:2,500	1992	10

Historical Map - Segment A13



Order Details

Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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Lancashire And Furness

Published 1893

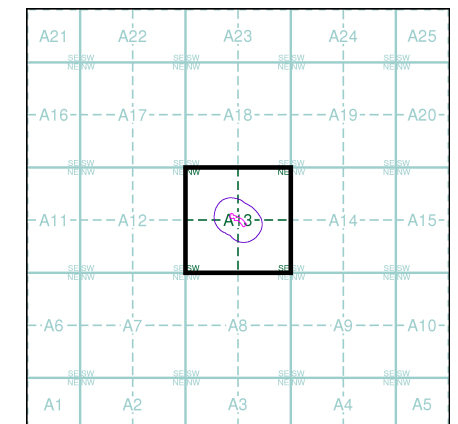
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

088_10	1893	1:2,500
088_14	1893	1:2,500

Historical Map - Segment A13

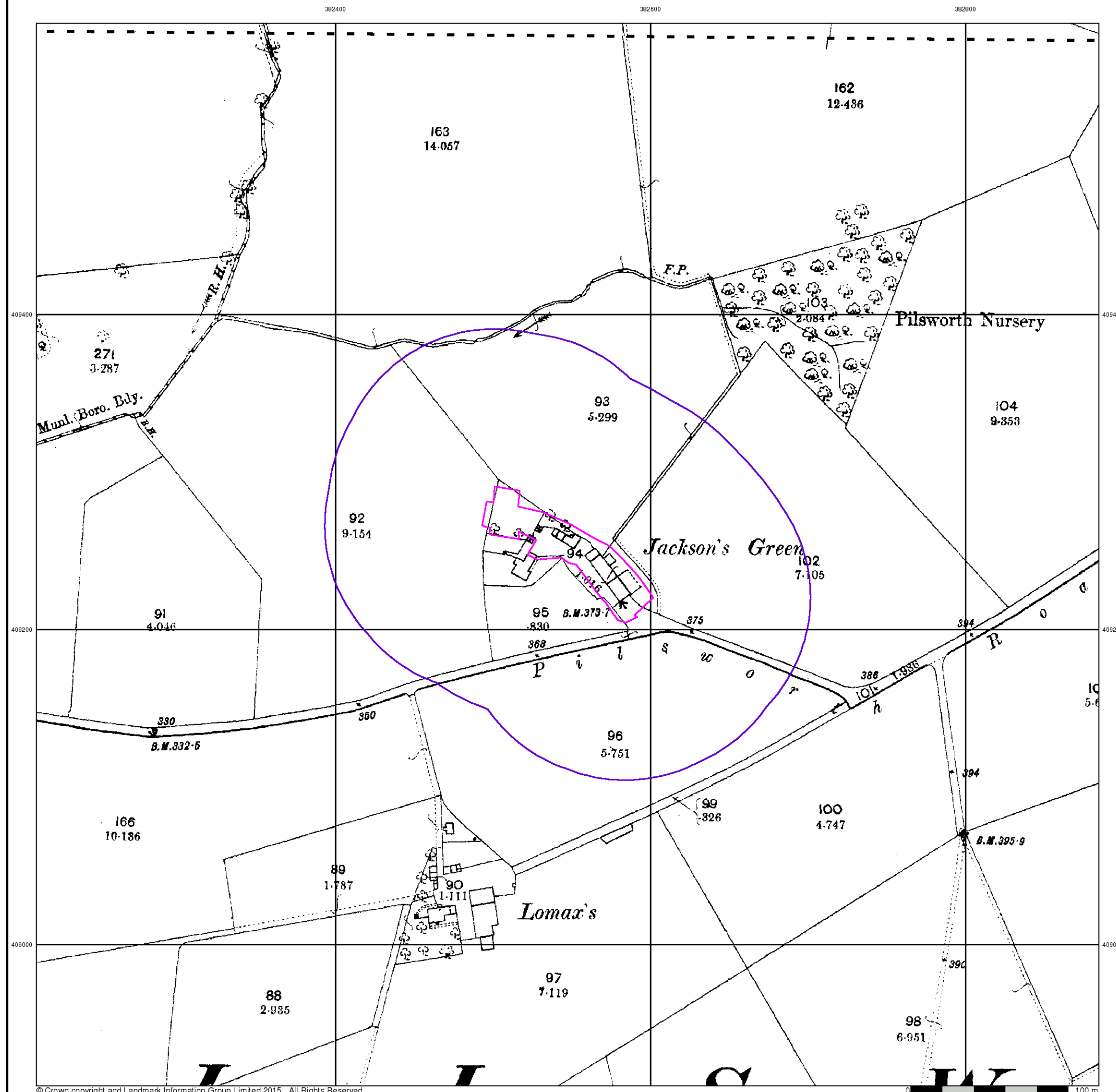


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness

Published 1910

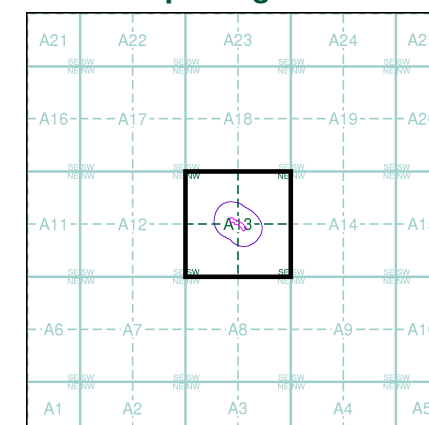
Source map scale - 1:2,500

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)

088_10	1910	1:2,500
088_14	1910	1:2,500

Historical Map - Segment A13

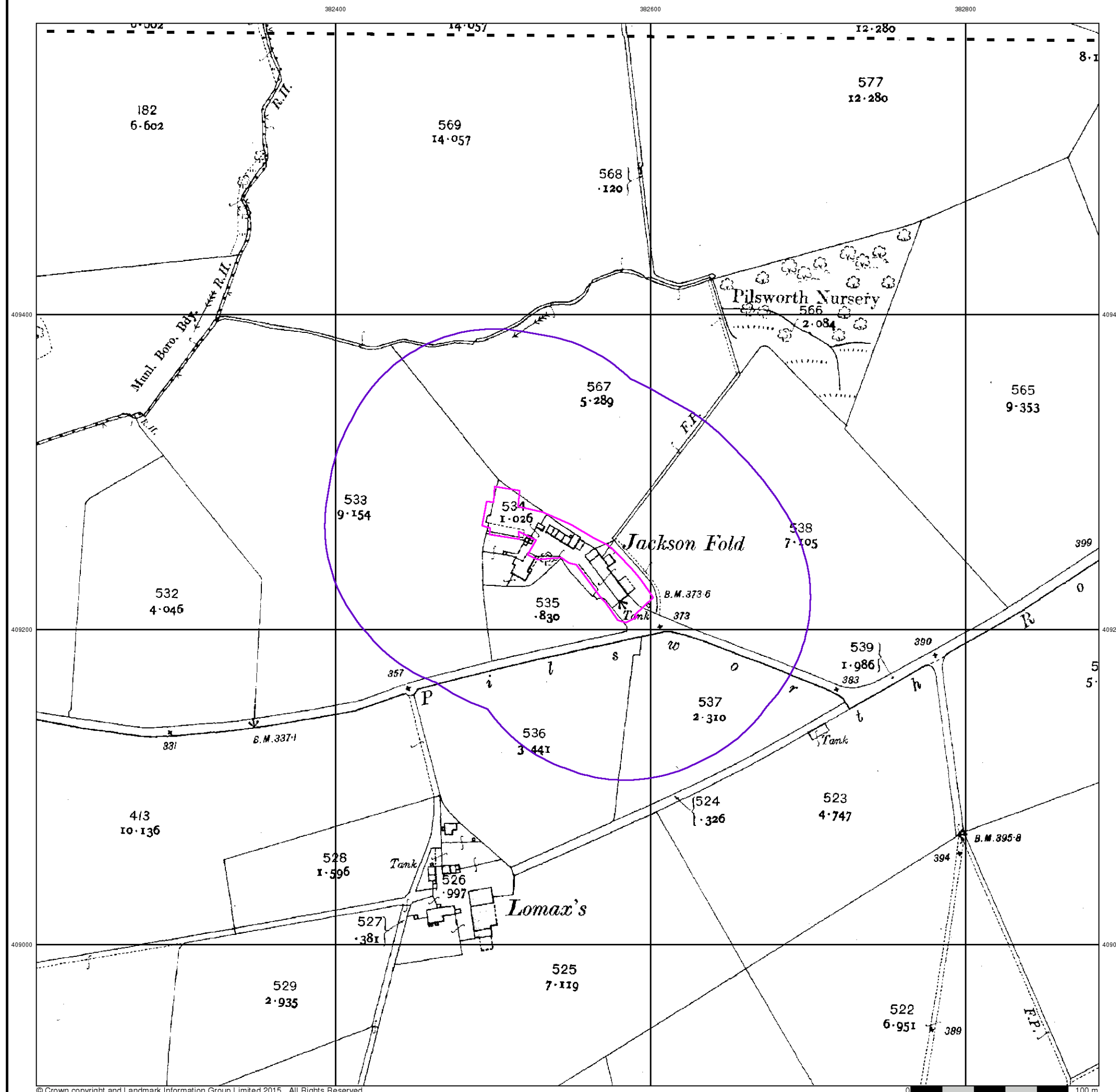


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness

Published 1930

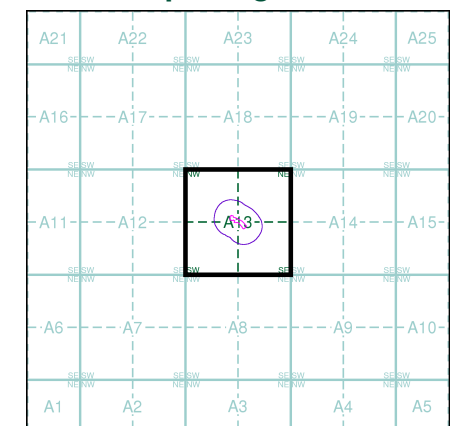
Source map scale - 1:2,500

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)

088_10	1930	1:2,500
088_14	1930	1:2,500

Historical Map - Segment A13

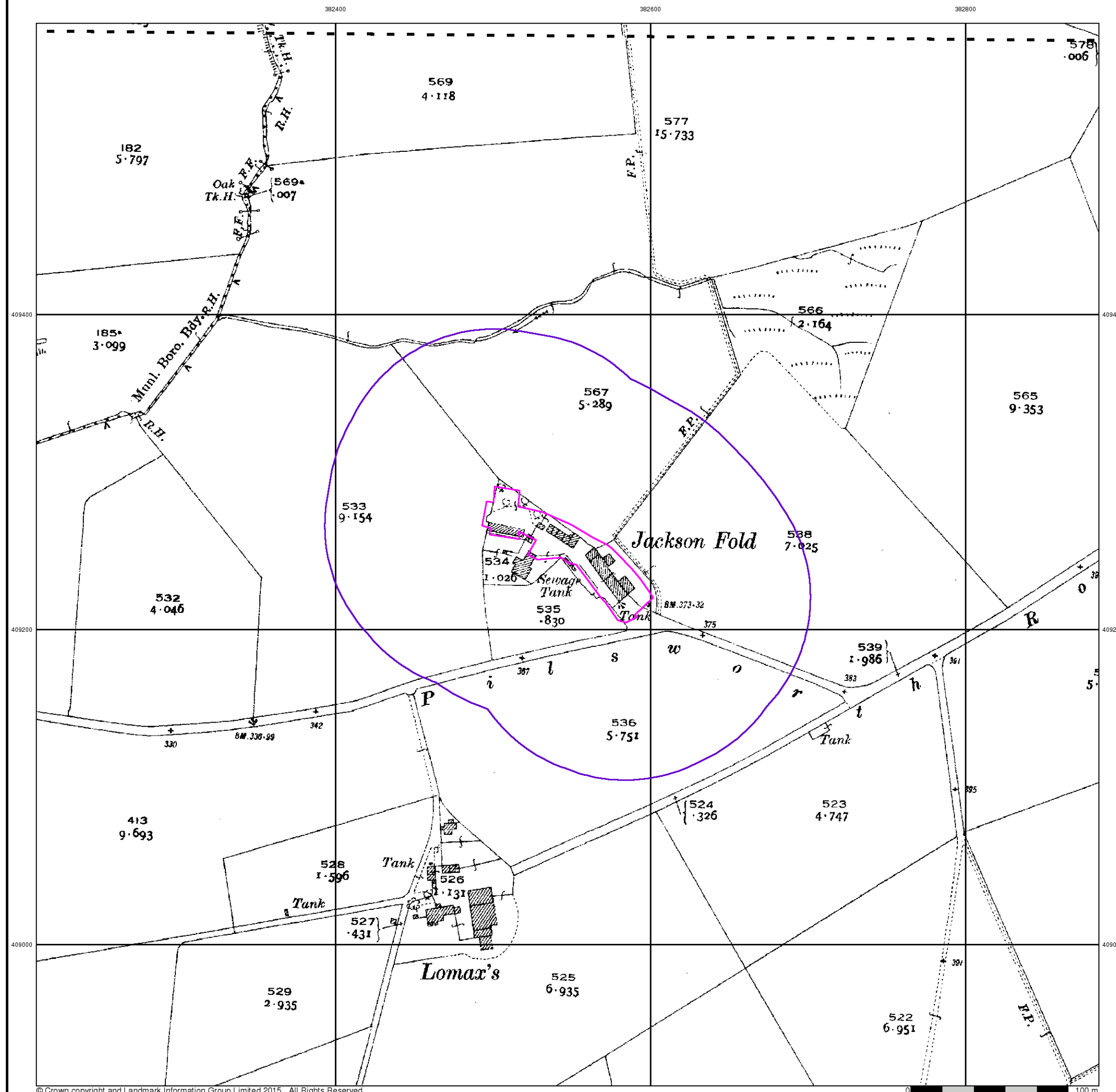


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Lancashire And Furness

Published 1937 - 1945

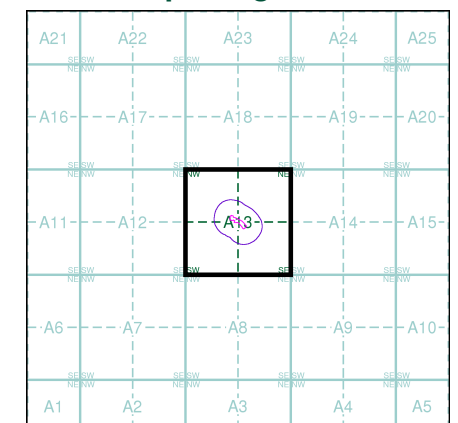
Source map scale - 1:2,500

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)

088_10	1937	1:2,500
088_14	1945	1:2,500

Historical Map - Segment A13

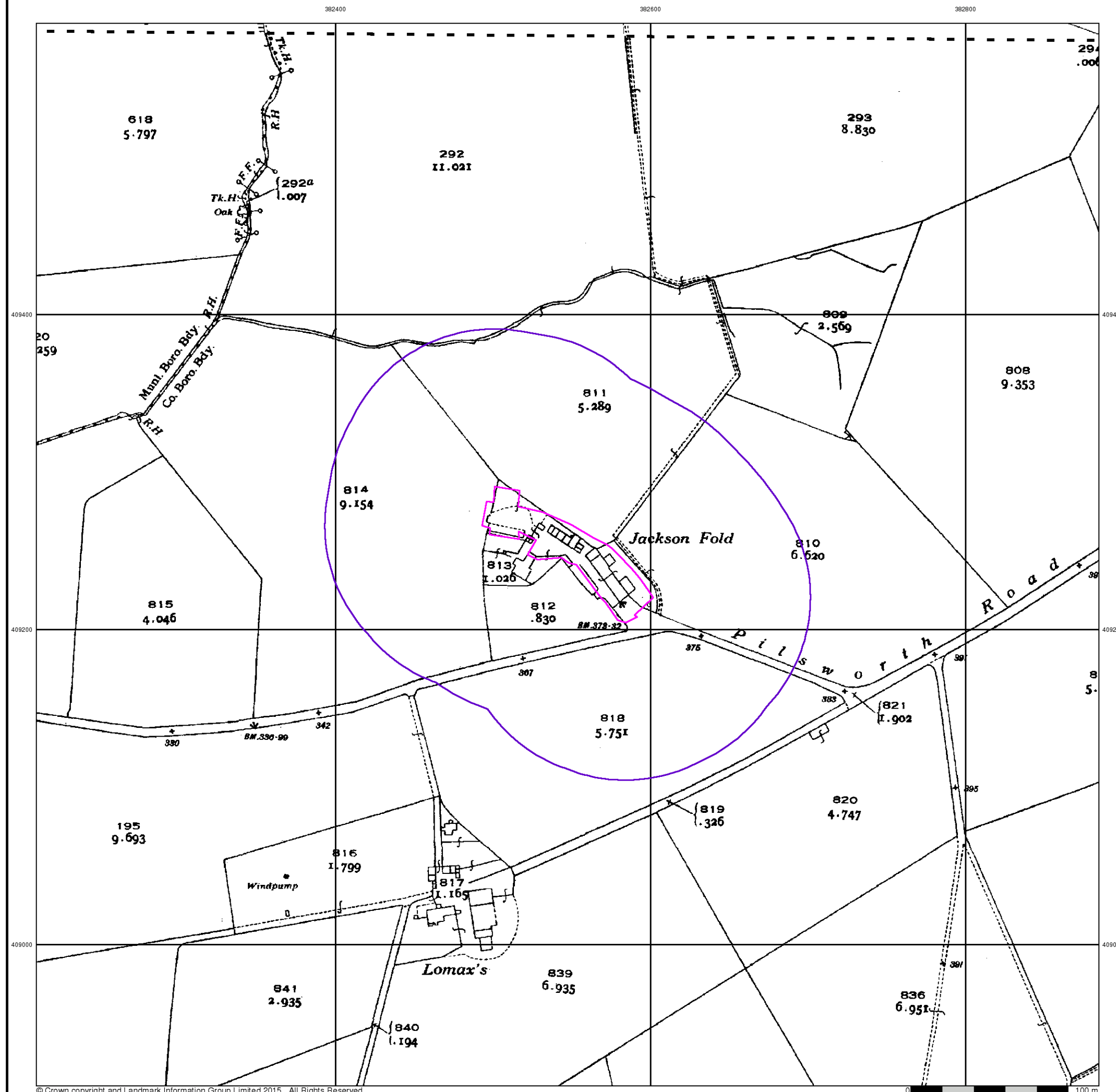


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Ordnance Survey Plan

Published 1958

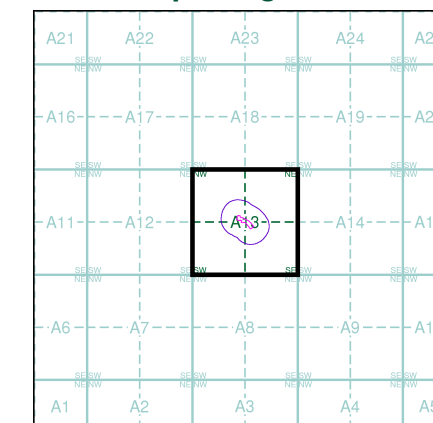
Source map scale - 1:2,500

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)

SD8209	1958	1:2,500
SD8208	1958	1:2,500

Historical Map - Segment A13

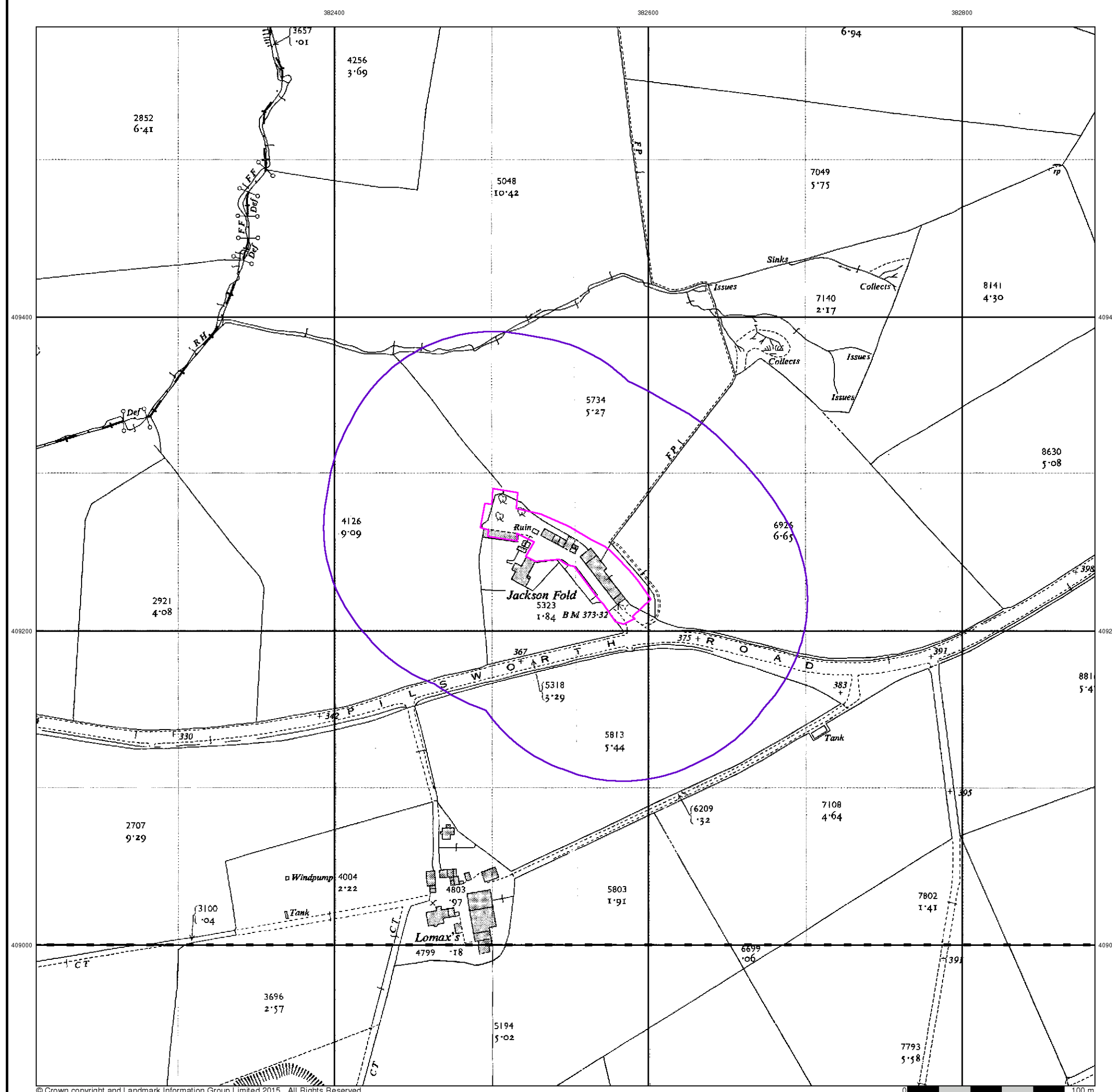


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



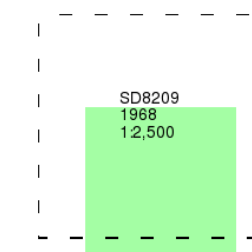
Ordnance Survey Plan

Published 1968

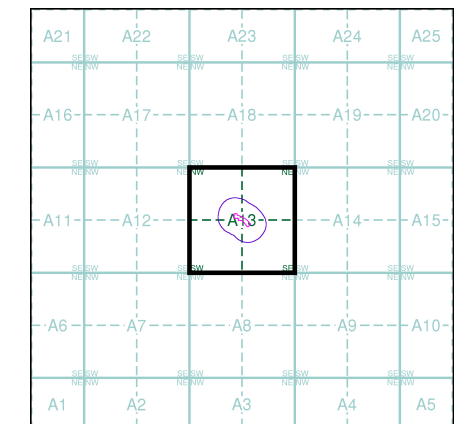
Source map scale - 1:2,500

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

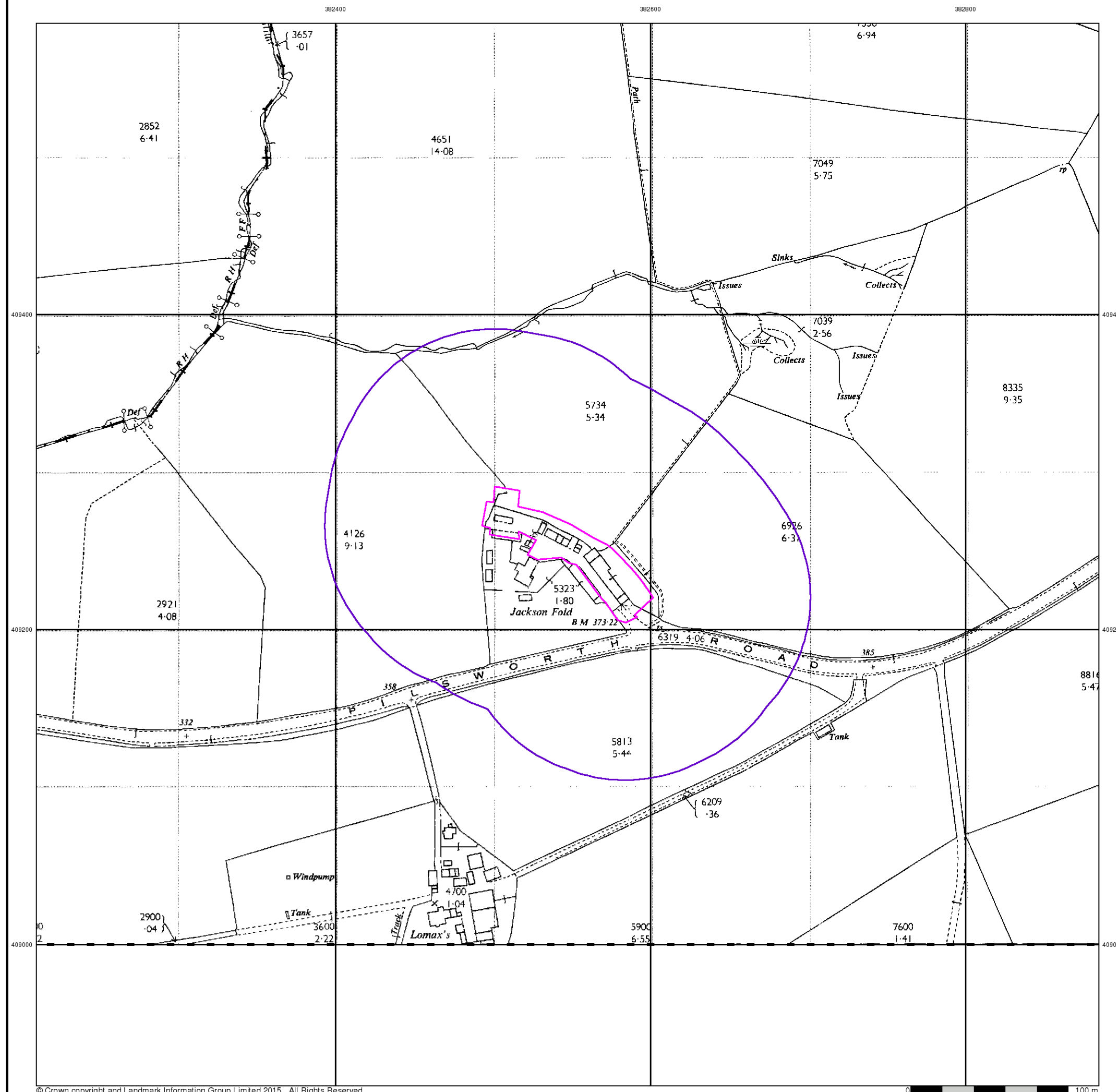


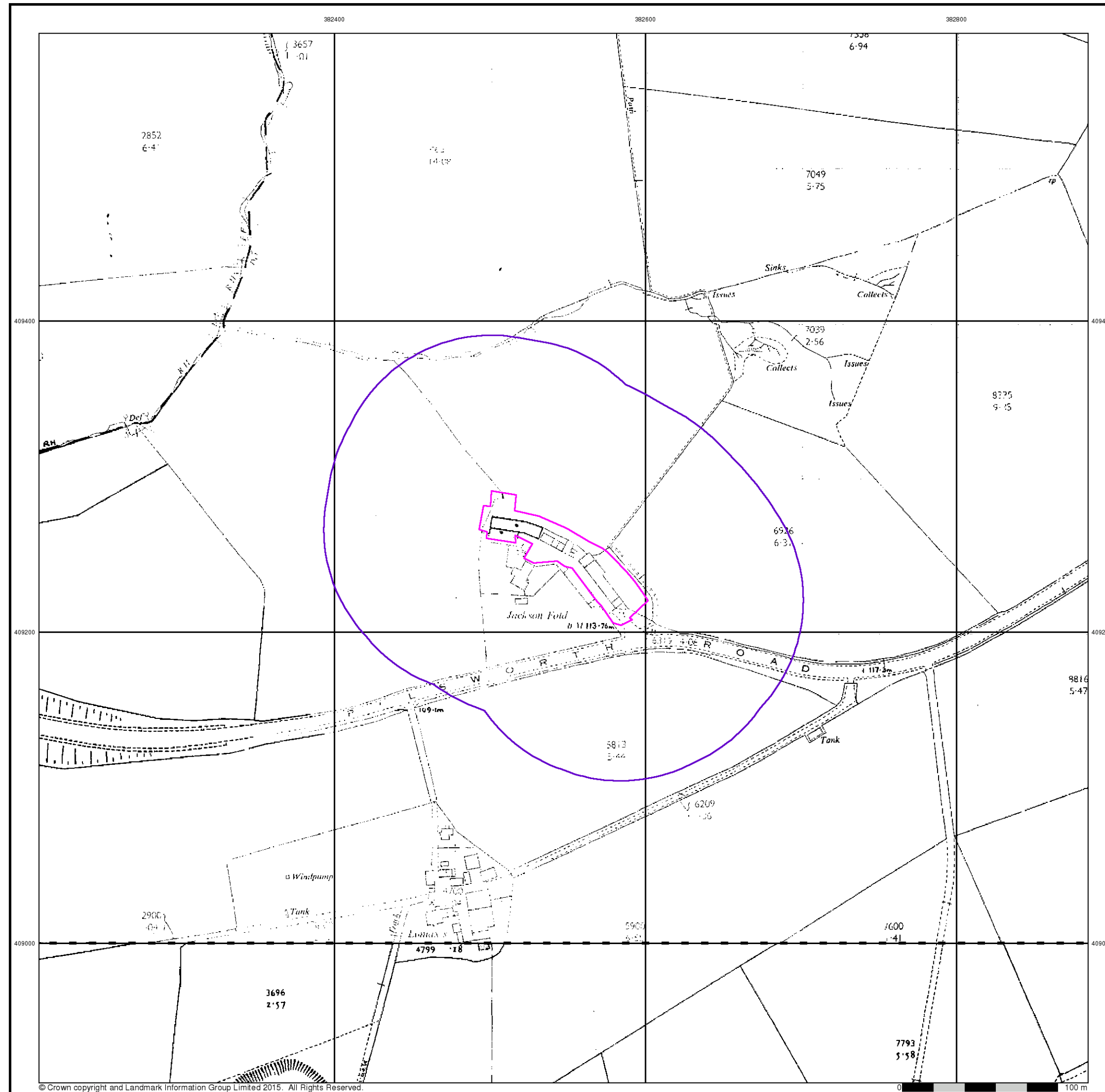
Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ





Additional SIMs

Published 1981

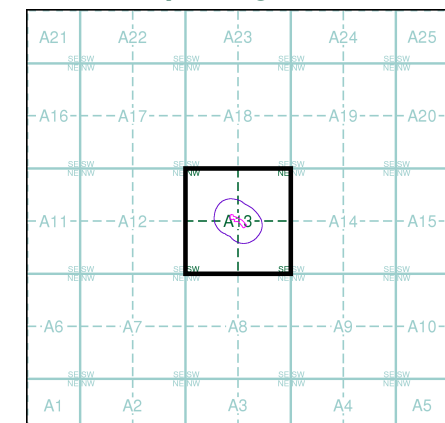
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

SD8209
1981
1:2,500
SD8208
1981
1:2,500

Historical Map - Segment A13



Order Details

Order Number: 65308318_1_1
Customer Ref: Jackson Fold Farm
National Grid Reference: 382550, 409250
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 100

Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



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

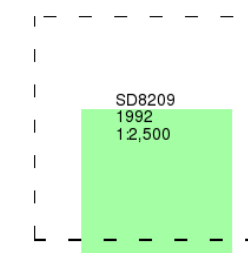
Large-Scale National Grid Data

Published 1992

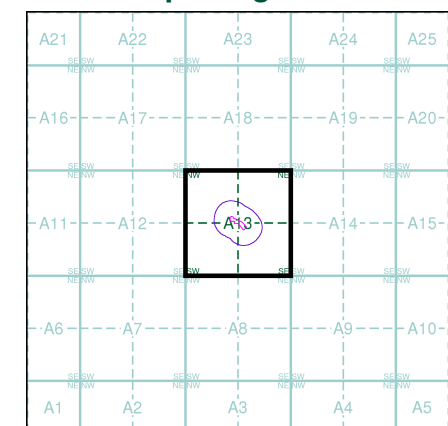
Source map scale - 1:2,500

'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)



Historical Map - Segment A13

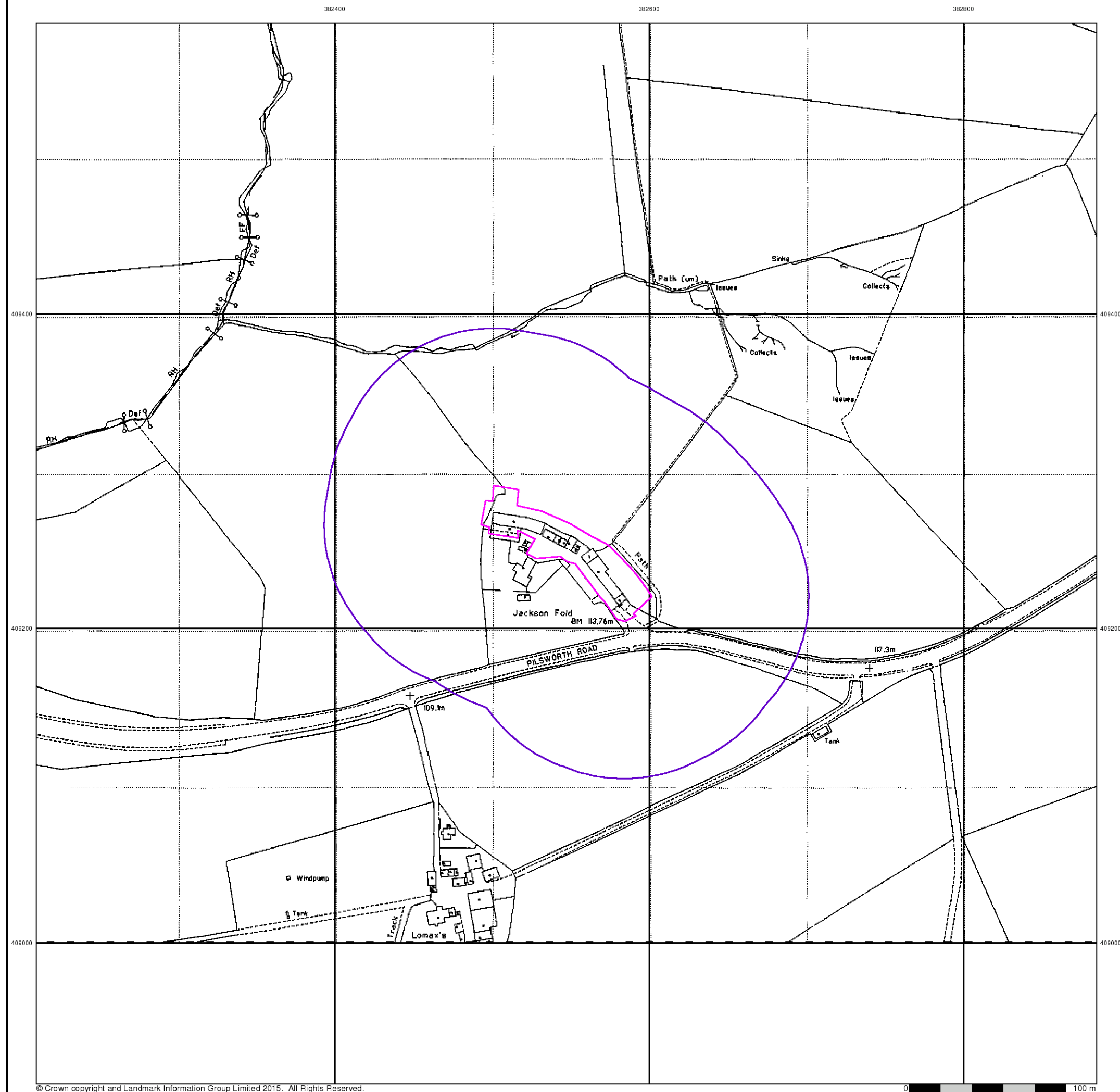


Order Details

Order Number: 65308318_1_1
 Customer Ref: Jackson Fold Farm
 National Grid Reference: 382550, 409250
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 100

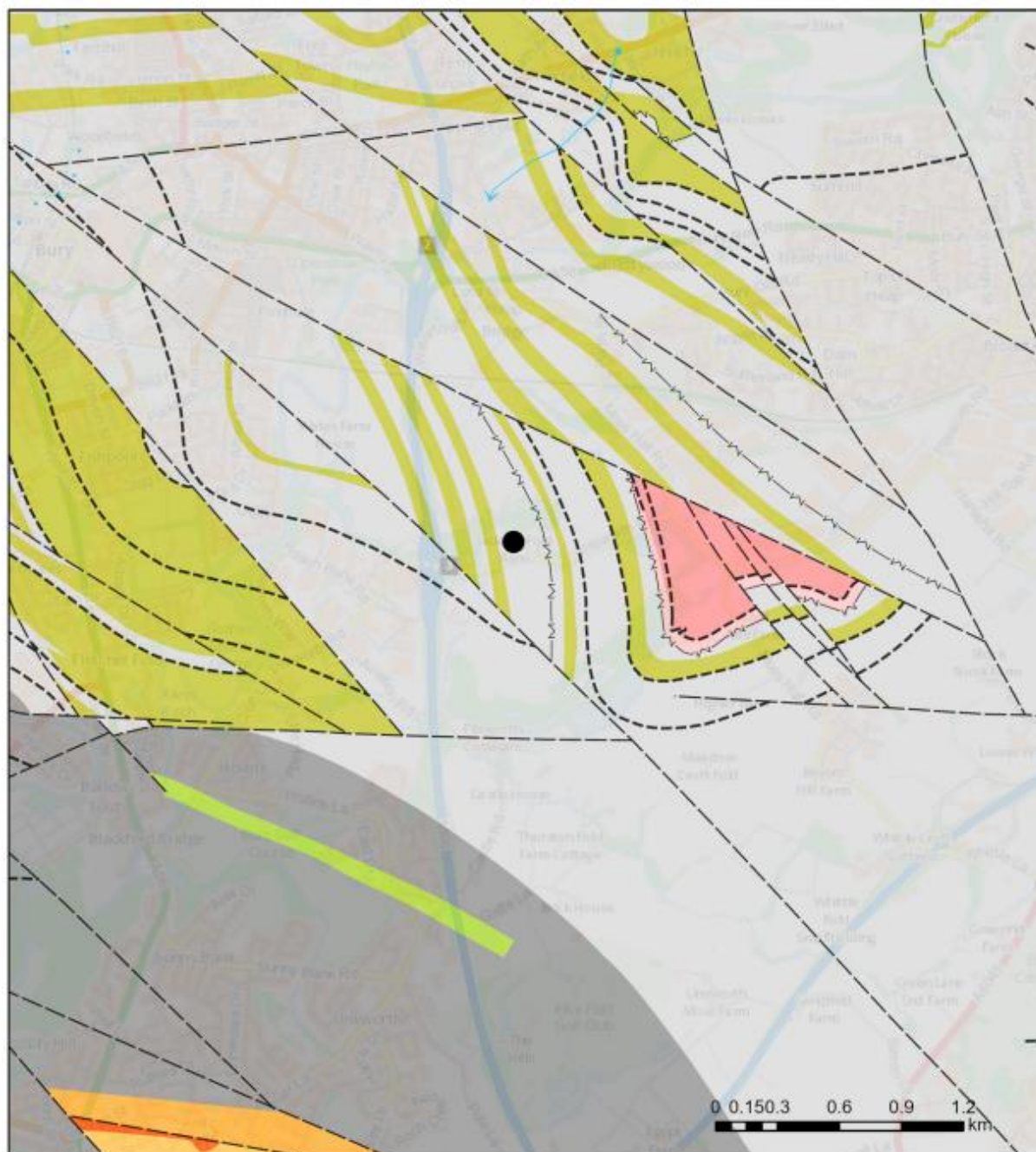
Site Details

Jackson Fold Farm, Pilsworth Road, BURY, Lancashire, BL9 8QZ



Appendix D – Geological Maps

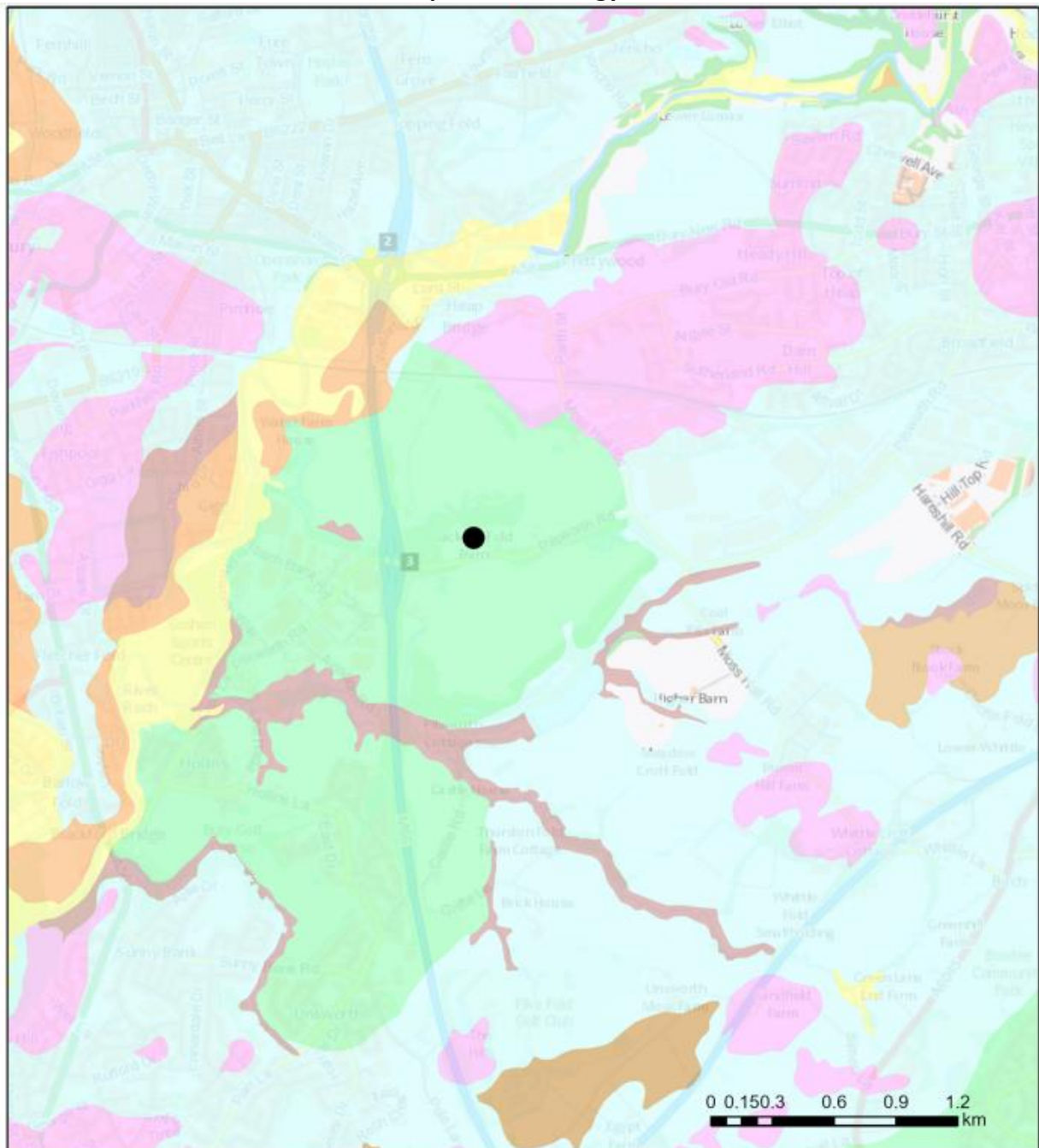
Bedrock Geology



	<u>PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u>
	<u>ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE</u>
	<u>ROUGH ROCK - SANDSTONE</u>
	<u>PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE</u>
	<u>CHESTER FORMATION - SANDSTONE</u>
	<u>COLLYHURST SANDSTONE FORMATION - SANDSTONE</u>
	<u>CANNEL ROCK (SOUTH LANCASHIRE) - SANDSTONE</u>
	<u>NEWTON HEATH SANDSTONE - SANDSTONE</u>
	<u>MANCHESTER MARLS FORMATION - MUDSTONE</u>

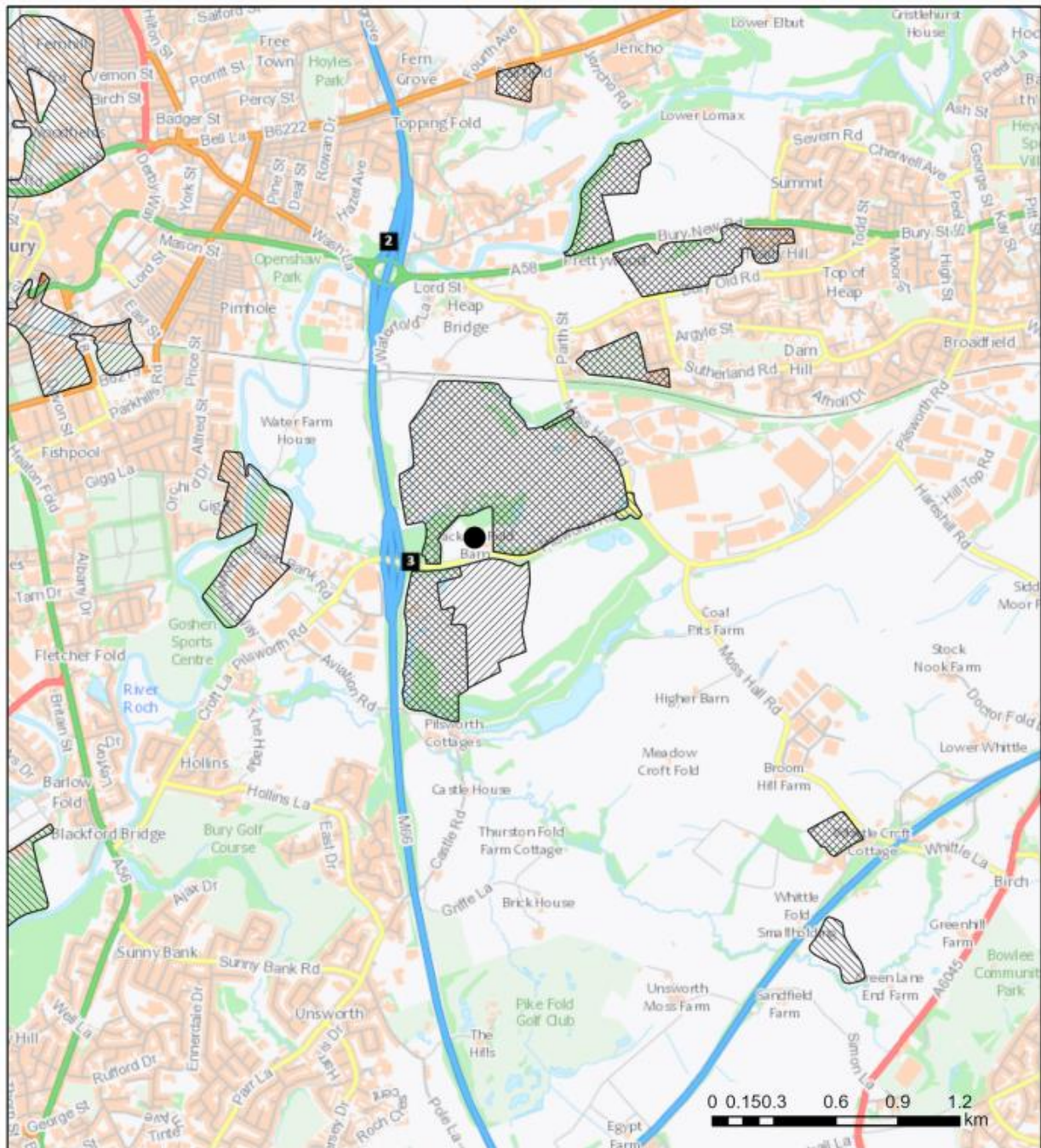
- Buried_channel_Margin
- Coal_seam_Inf
- Fault_Inf_Crossmark_on_downthrow_side
- Glacial_meltwater_channel_Centre_Undiff
- Marine_band

Superficial Geology



- GLACIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL
- TILL, DEVENSIAN - DIAMICTON
- GLACIOLACUSTRINE DEPOSITS, DEVENSIAN - CLAY AND SILT
- HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN - DIAMICTON
- ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
- HEAD - CLAY, SILT, SAND AND GRAVEL
- RIVER TERRACE DEPOSITS, 1 - SAND AND GRAVEL
- LACUSTRINE DEPOSITS - CLAY
- PEAT - PEAT

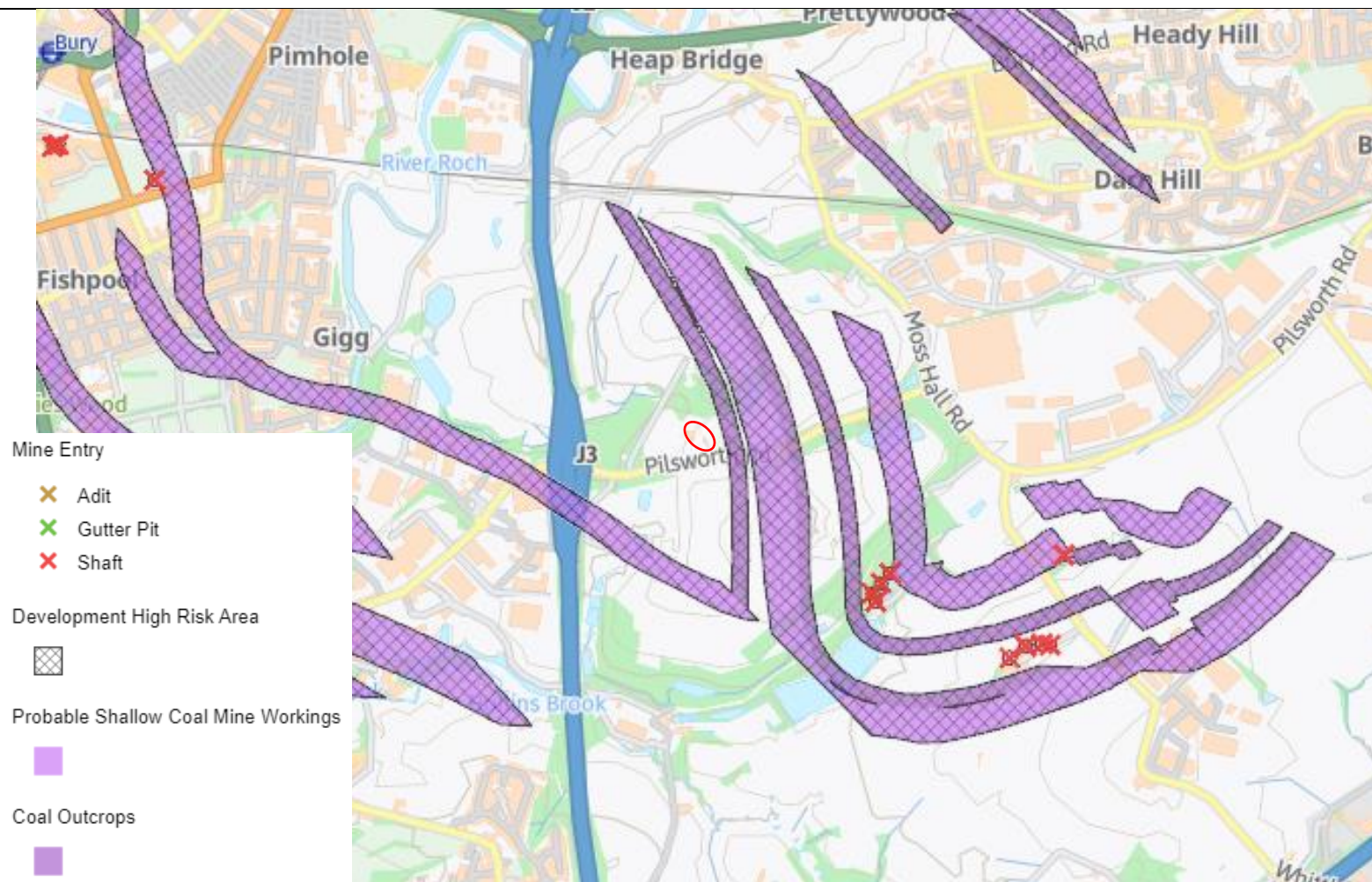
Artificial Geology



Artificial ground 1:50,000 scale

-  **MADE GROUND (UNDIVIDED) - ARTIFICIAL DEPOSIT**
-  **WORKED GROUND (UNDIVIDED) - VOID**
-  **INFILLED GROUND - ARTIFICIAL DEPOSIT**

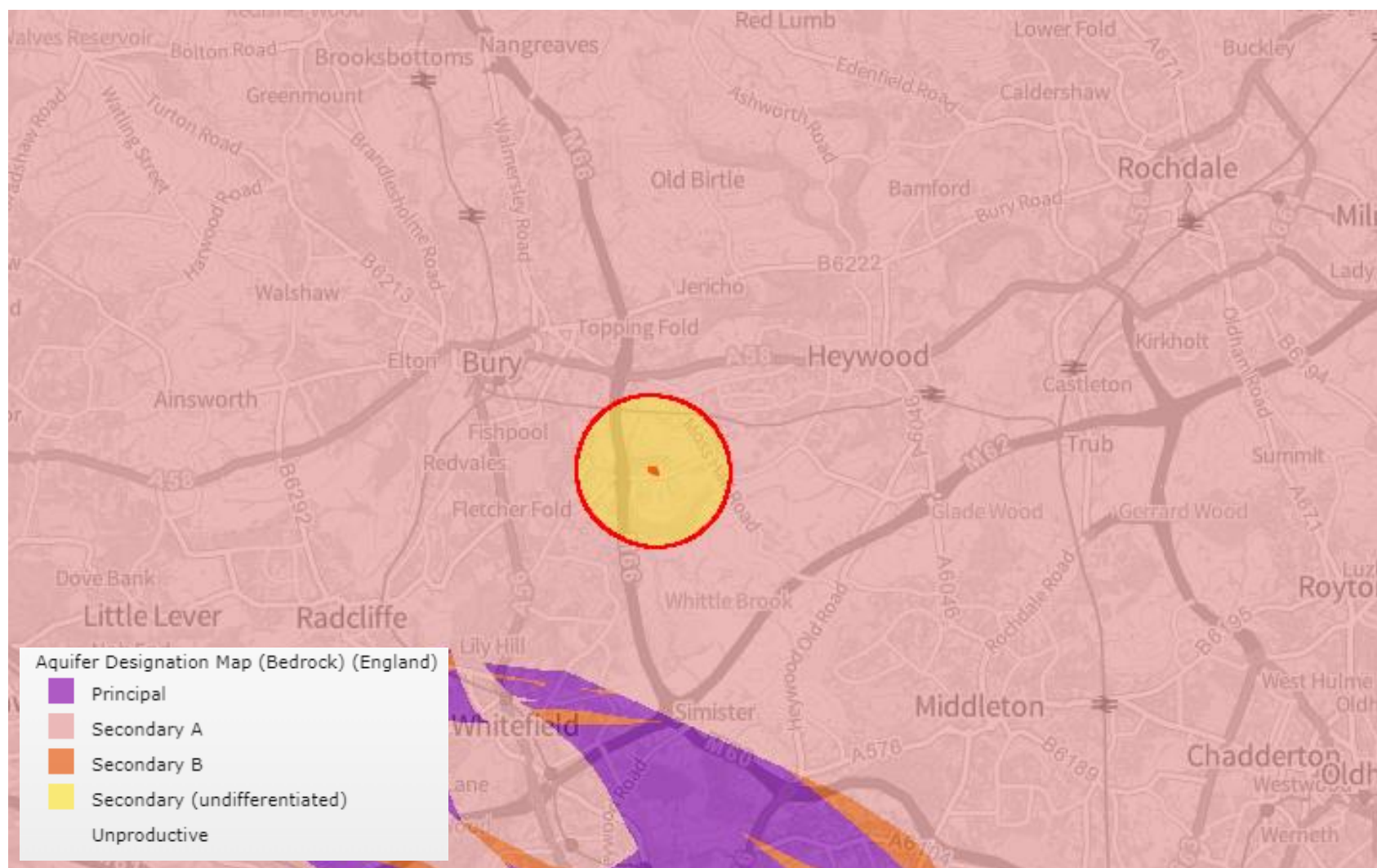
Appendix E – Coal Authority Map



Coal Mining Summary Map

Aquifer Designation Map (Superficial Drift) (England)

- Principal
- Secondary A
- Secondary B
- Secondary (undifferentiated)
- Unknown (lakes+landslip)
- Unproductive



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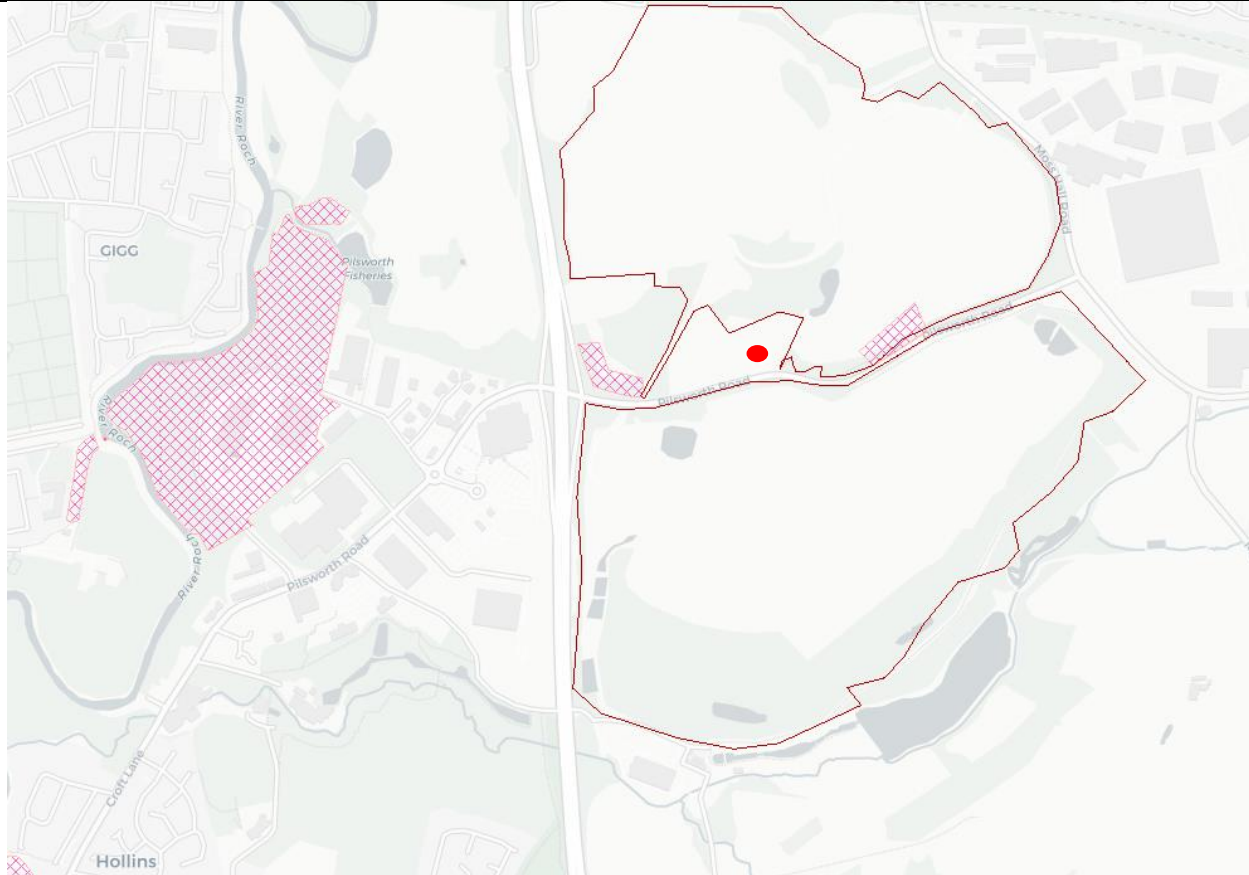
Bedrock Aquifer



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Groundwater Vulnerability

Appendix G – Landfill Map

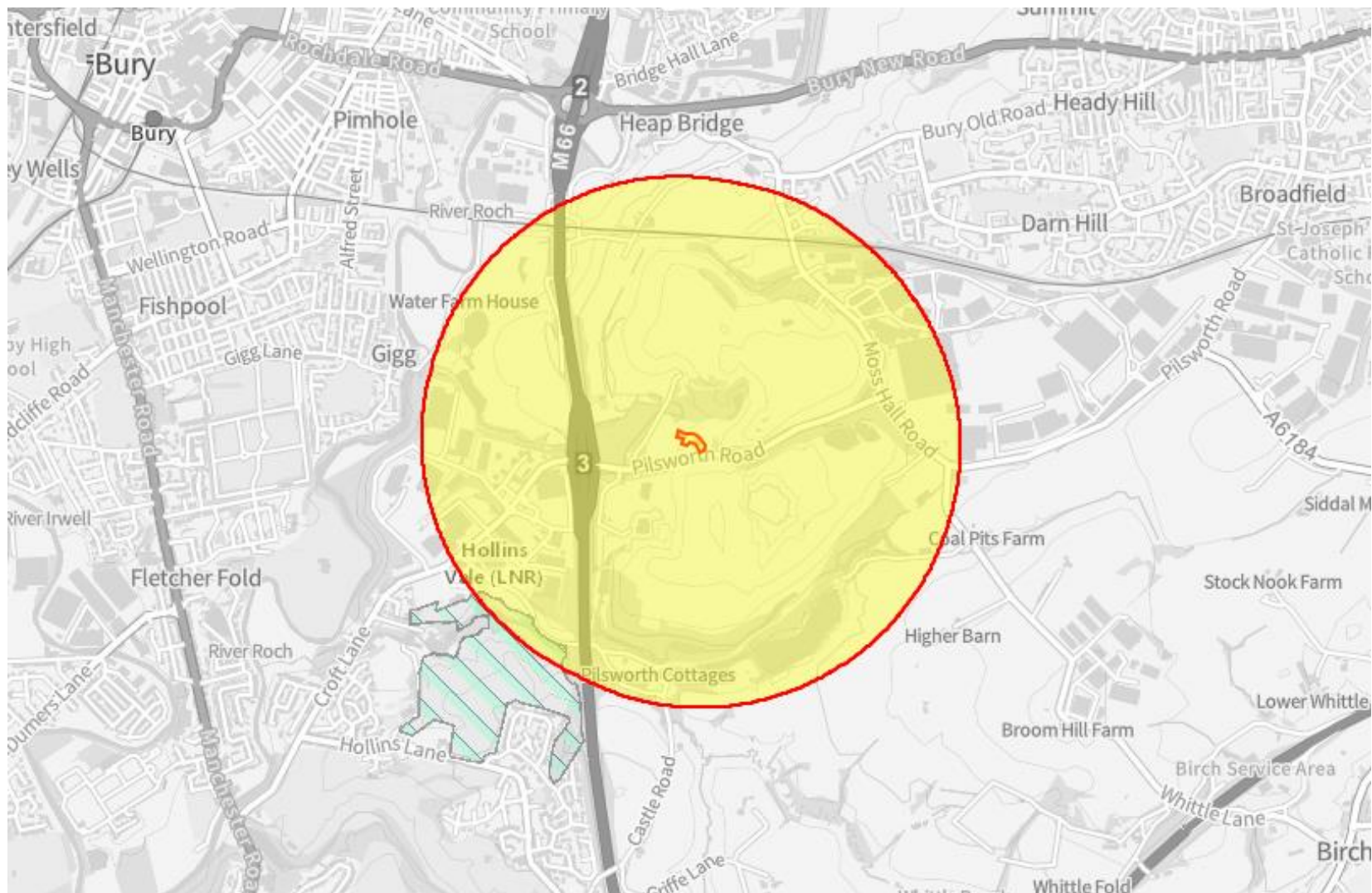


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Landfill Map

Appendix H – Environmental Designations

Local Nature Reserves



Greenbelt

