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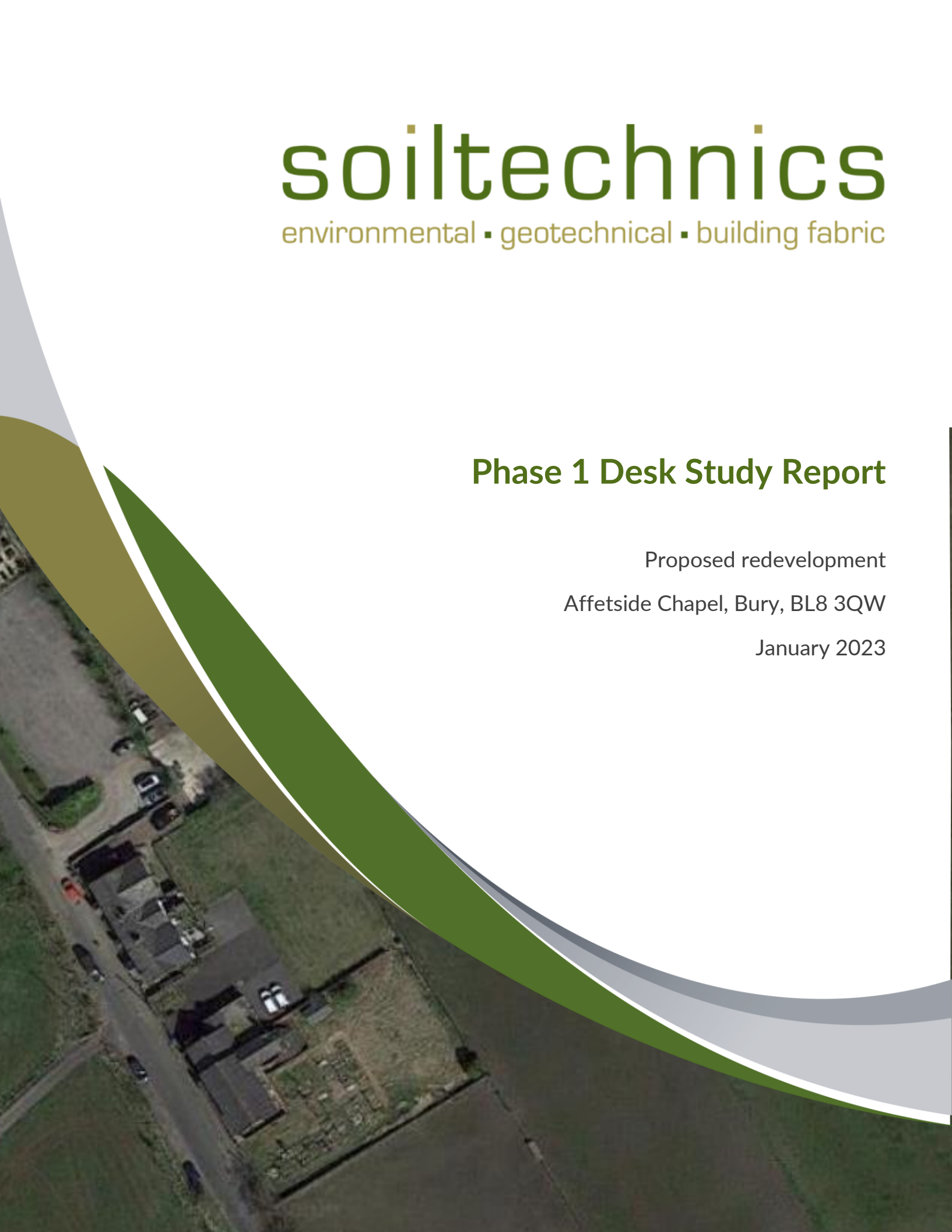
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Phase 1 Desk Study Report

Proposed redevelopment

Affetside Chapel, Bury, BL8 3QW

January 2023



Project Details

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Non-technical Summary

Topic	Commentary
Site description	The site is currently used as a chapel with a graveyard in the south of the site. The north of the site is occupied by a hardstanding car park and grassed areas.
Development proposals	It is understood that the redevelopment comprises a two storey extension to the existing church building to provide community space at ground floor level, with 2 No. dwellings at first floor level. Small modifications are also proposed to the north-western end of the current Chapel building.
Ground conditions	Lower Pennine Coal Measures comprising the massive sandstone beds of the Great Arc Sandstone in the north of the site and grey sandstone of the Helpet Edge Rock in the south of the site, separated by a fault. The top of the Great Arc sandstone is marked by the Upper Foot Coal, however this is not recorded on geological mapping (a result of the complex nature of faulting in the local area). BGS mapping records the Lower Foot Coal seam to outcrop some 440m to the north of the site. The Inch Coal seam is recorded to outcrop 25m north of the site by the Coal Authority only.
Mining Risk	A mine entry is recorded some 80m to the north of the site, beyond the outcrop of the Inch Coal seam. This is likely to have been sunk to exploit a seam, only recorded by the Coal Authority, to outcrop some 170m north of the site. An area of associated probable shallow working is recorded by the Coal Authority between the shaft and the coal seam outcrop. The Inch Coal seam present adjacent to the north of the site is only recorded to be 25-150mm thick in the local area and is therefore unlikely to have been considered economically worthwhile to exploit. Overall, the risk from coal mining legacy issues beneath the site is considered low.
Radon, gas risk and protection measures	The site is in an area classed as an Intermediate Probability Radon Area. Basic radon protective measures are necessary in new dwellings or extensions.
Chemical contamination and remedial requirements	The PRA has not identified any potential contaminant linkages which pose an unacceptable risk in the current or proposed development site settings. Therefore, the site is considered suitable for development without any further investigation works or remedial action taking place. The new development will require incorporation of basic radon protection measures and, the measurement of radon gas within retained/refurbished buildings should also be considered.

1 Introduction

1.1 Scheme Outline

- 1.1.1 Soiltechnics have been instructed by Acer Town Planning Ltd on behalf of our mutual client, Affetside Congregational Church, to undertake a Phase 1 Preliminary Risk Assessment at Affetside Congregational Church Watling Street, Affetside, Bury, BL8 3QW.
- 1.1.2 It is understood that the redevelopment comprises a two storey extension to the existing church building to provide community space at ground floor level, with 2 No. dwellings at first floor level. Small modifications are also proposed to the north-western end of the current Chapel building. Client drawings presented within Appendix A.
- 1.1.3 This Phase 1 Land Contamination Assessment is required to assist with the submission of a planning application for the scheme.
- 1.1.4 The report is based on the project proposals and information outlined above; should the scheme change then it will be necessary to review the conclusions and recommendations presented in this report.

1.2 Brief

- 1.2.1 The objectives of this report are outlined below:
- i) Review and summarise desk study information.
 - ii) Undertake a land contamination Tier 1 preliminary risk assessment.
 - iii) Provide recommendations to inform intrusive works and a Tier 2 risk assessment, should they be required.

1.3 Definition of Scope

- 1.3.1 The phasing and scope of the ground investigation works is broadly defined by the following documents.

Title	Document Reference	Publisher	Investigation Scope
Code of practice for ground investigations	BS 5930: 2015	British Standards Institution	Phase 1: Desk study
Investigation of potentially contaminated sites – Code of practice	BS 10175: 2011+A2:2017	British Standards Institution	Preliminary Investigation (desk study)
Land contamination risk management	Online resource, updated April 2021	Environment Agency	Stage 1 Risk Assessment: Tier 1: Preliminary risk assessment

Table 1-A: Definition of Investigation Scope

1.4 Limitations

- 1.4.1** Soiltechnics disclaims any responsibility to our Client and others in respect of any matters outside the scope of this report. This report has been prepared with reasonable skill, care and diligence in accordance with the terms of our contract, taking account of the manpower, resources, investigations and testing devoted to it by agreement with our Client. This report is confidential to our Client and Soiltechnics accepts no responsibility of whatsoever nature to third parties to whom this report or any part thereof is made known. Any such party relies upon the report at their own risk.

2 Desk Study

2.1 Sources of information

2.1.1 Reference has been made to the following sources of information:

- An Envirocheck Report and historical map records, presented as **Error! Reference source not found.C.**
- British Geological Survey (BGS) GeoIndex – Onshore database.
- BGS Sheet 76 (Scale 1:50 000) – Rochdale (2008).
- Ordnance Survey OpenData.
- Coal Authority Development and Specific Risk databases.
- Environment Agency open-source databases
- Google mapping services.
- Interrogation of search engines for anecdotal information on the site history and other readily available online resources.

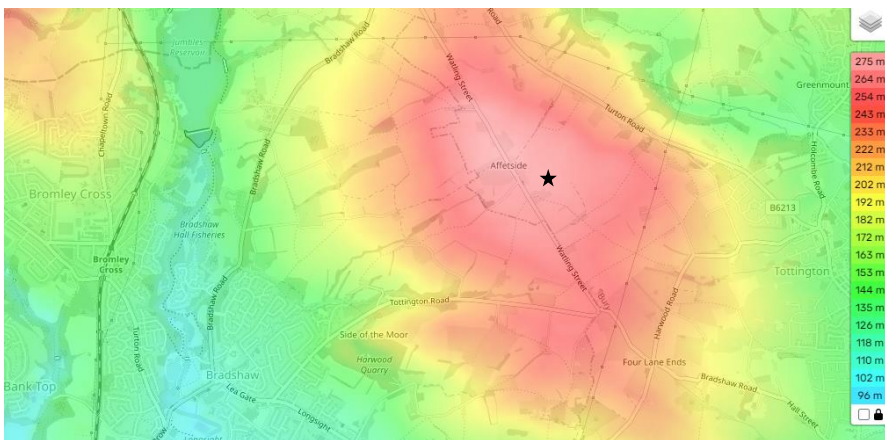
2.2 Site Description

2.2.1 The proposed development is located within the village of Affetside, approximately 6km northwest of Bury town centre. The post code for the site is BL8 3QW, and the site is accessed from Watling Street which lies adjacent to the site's southwestern boundary.

2.2.2 An aerial image showing the approximate site boundary is presented below, followed by a table summarising the key site features.



Figure 2-A: Aerial photograph and approximate site boundary

Theme	Feature
Current site use	The site is currently used as a chapel with a small graveyard in the south of the site. The north of the site is occupied by a hardstanding car park and grassed areas.
Local area land use	The surrounding area is predominantly residential and agricultural usage.
Topography	On site, levels are recorded at 269m AOD in the north and 268m AOD in the south and regionally, the site lies atop a topographic high. The topography of the surrounding area generally falls gently in all directions, notably very steeply towards the south-west towards the river valley associated with Bradshaw Brook. 
Buildings, surfacing and other permanent features	The chapel, located in the south-western portion of the site, comprises a single-storey stone/masonry structure, with a more modern single and two-storey extension on the north-eastern side of the building. An area of hardstanding car park is present to the north of the chapel, alongside gated access to Watling Street. The remainder of the site area comprises soft landscaping with a small graveyard in the south of the site.
Boundary features	The site boundaries are defined by a stone wall, with the exception to the site's north-eastern boundary which is defined by a wooden fence line. Residential buildings are located beyond the northeast of the site, with Watling Street forming the south-western boundary, and agricultural land located beyond.
Vegetation	No significant vegetation is present within the site boundary. A single tree is located in the south-eastern corner of the site.
On-site / adjacent surface water features	Bradshaw Brook lies 2km west of the site and the nearest surface water feature is an inland river 100m west of the site.
Environmental Designations	The site is located within an Area of Adopted Green Belt. The site is not reported to be within or in close proximity to any areas of designated sensitive land use, such as a Ramsar Site, Site of Special Scientific Interest (SSSI), or Special Area of Conservation.
Injurious and invasive weeds	No suspected invasive species on site.
Asbestos containing material (ACM) in buildings	The scope of this report excludes identifying asbestos within buildings on site, and an asbestos survey was not made available at the time of writing.

Theme	Feature
Potential sources of contamination	A small graveyard is situated within the southeast corner of the site. No tanks or asbestos containing material was noted during the site walkover.
Evidence for ground instability	No suspected ground instability.

Table 2-A: Site Description

- 2.2.3 The observations provided above are made by a Geo-environmental Engineer, who is not a specialist in asbestos surveying or invasive weed identification. Any associated comments are intended for use by this report only, and not for any other purpose.

2.3 Planning Records

- 2.3.1 There are no planning records recorded for the site on Bury Council's planning portal.

2.4 Previous Reports

- 2.4.1 Soiltechnics are not aware of any previous ground investigation reports undertaken at the site.

2.5 Site History

- 2.5.1 A chronological summary of the site's history is provided below.

Date	On-site	Off-site
1850-1910	Two buildings were present on site (SW and SE of site) labelled 'Independent Chapel'.	Surrounding land predominantly agricultural in usage. Residential buildings recorded adjacent to the north/northeast concurrent to present day. Old Quarry located approximately 220m southwest from the site in 1850 only. An unlabelled small pit feature is located 225m north of the site. Farm present 100m southeast. Small ponds are located 150m southeast and 200m southwest.
1910-1930	Burial ground located in the southern corner of the site and buildings now labelled 'Congregational Church & School'. Main Chapel building consistent with present day stone building. Buildings in south-eastern corner removed. Pump present along north-western site boundary.	Old shaft shown 200m west of the site. Pond located 100m southwest of the site.
1966-2001	Building extended to northeast, likely to be consistent with present day 2 storey masonry extension. Single storey extension recorded c1992.	Old shaft no longer shown however 'Tank' now shown in its place. Pond 200m southwest no longer shown. Tank recorded within farm to southeast.

Table 2-B: Summary of site history

2.6 Regulatory Enquiries

- 2.6.1 Soiltechnics have contacted the Local Authority Environmental Health team however no response has been received to date.

2.7 Anticipated Geology

- 2.7.1 No superficial geology is recorded on site, however, deposits of Devensian Till (glacial) are recorded locally.
- 2.7.2 The anticipated bedrock geology consists of sandstone units within the Pennine Lower Coal Measures Formation. These comprise the massive sandstone beds of the Great Arc Sandstone in the north of the site and grey sandstone of the Helpet Edge Rock in the south of the site. The two sandstone units have been juxtaposed by a fault, which trends ENE-WSW and bisects the middle of the site.
- 2.7.3 The top of the Great Arc sandstone is marked by the Upper Foot Coal, however this is not recorded on geological mapping (a result of the complex nature of faulting in the local area). BGS mapping records the Lower Foot Coal seam to outcrop some 440m to the north of the site. The Inch Coal seam is recorded to outcrop 25m north of the site by the Coal Authority only.
- 2.7.4 Published borehole records in the surrounding area (up to 700m distant) encountered interbedded mudstone, siltstone and sandstones (including massive sandstone beds up to 14.0m thick).

2.8 Hydrogeology and Groundwater Sensitivity

- 2.8.1 The Pennine Lower Coal Measures Formation sandstones (Great Arc and Helpet Edge) are designated as Secondary A aquifers of high vulnerability.
- 2.8.2 Published borehole records in the surrounding area encountered groundwater within the Pennine Lower Coal Measures Formation at depths of around 60m bgl to 64m bgl.
- 2.8.3 The site does not fall within the BGS Flooding Susceptibility Zone and has limited potential for groundwater flooding to occur.
- 2.8.4 The site is not located within a Source Protection Zone.
- 2.8.5 There are 2 no. recorded abstraction licenses within 1km of the site. The nearest abstraction point is 629m south of the site whilst the other abstraction point is 745m southwest of the site both of which are used for agricultural purposes.

2.9 Hydrology and Surface Water Sensitivity

- 2.9.1 The nearest surface water feature is 100m south of the site. There is an extensive network of drains to the north, west and south of the site.
- 2.9.2 There are no surface water abstractions within 1km of the site.

2.10 Flood Risk

- 2.10.1 The site is recorded as lying within a Zone 1 for flooding from rivers or the sea (negligible risk).
- 2.10.2 It should be noted that this information does not constitute a site-specific Flood Risk Assessment and one may be required for the scheme.

2.11 Non-Mining Ground Instability Hazard

- 2.11.1 The Envirocheck Report includes hazard ratings due to natural ground instability, which have been derived by the BGS. These hazards have been summarised in the table below.

Hazard	Hazard Potential	Discussions
Collapsible ground	Very Low	N/A
Compressible ground	None	N/A
Ground dissolution	None	N/A
Landslide	Very Low	N/A
Running sand	Very Low	N/A
Shrinking or swelling clay	Very Low	N/A

Table 2-C: Non-Mining Ground Stability Hazards

2.12 Quarrying and Mining

- 2.12.1 The site is located within a Coal Mining Reporting Area, but outside of a Development High Risk Area. On this basis a Consultants Coal Mining Report has been obtained from the Coal Authority and a copy is presented as Appendix B.
- 2.12.2 The report indicates that no past mining or unrecorded shallow workings are recorded at the site. A mine entry is recorded some 80m to the north of the site, beyond the outcrop of the Inch Coal seam. This is likely to have been sunk to exploit the coals of a seam, only recorded by the Coal Authority, to outcrop some 170m north of the site. An area of associated probable shallow working is recorded by the Coal Authority between the shaft and the coal seam outcrop. The Inch Coal seam present adjacent to the north of the site is only recorded to be 25-150mm thick in the local area and is therefore unlikely to have been considered economically worthwhile to exploit.
- 2.12.3 The Coal Mining Report has indicated that no subsidence has been recorded within 50m of the site and that no mine gas has been detected within 500m of the site. There are also no coal mining licences active within 200m of the site and no future underground mining is planned.
- 2.12.4 Overall, the risk of land instability occurring from coal mining legacy beneath the site is considered to be low.

2.13 Landfill and infilled ground

- 2.13.1 There is 1 No. historical landfill site recorded within 500m of the site relating to Tom Nook Farm (480m north of the site) licenced for deposition of inert waste.
- 2.13.2 There are 2 no. potentially infilled land (non-water) entries within 250m of the site. The nearest is 229m southwest of the site, whilst the other is 249m west of the site, both of which are classified as unknown filled ground. Based on their location and size, these are likely to relate to small, infilled ponds.

2.14 Recent industrial activity

- 2.14.1 There are no regulated facilities or activities in the vicinity of the site under IPPC or LAPPC control, and no registered radioactive substances.
- 2.14.2 There are no Contemporary Trade Directory entries associated with the site itself, and only one entry is located within 250m, relating to Busymackb domestic cleaning services, however this is no longer active.

- 2.14.3 There are no discharge consents recorded within 250m of the site. The closest is 253m to the west, related to sewage discharge from a dwelling to a stream. There is 1No. recorded pollution incident to controlled waters within 250m of the site, summarised in the table below:

Discharge Type	Distance from site (m)	Description
Pollution incident (unknown pollutant)	167m (W)	Category 3 – Minor incident to land

Table 2-D: Summary of pollution incidents and discharge consents

2.15 Radon

- 2.15.1 The site is in an area classed as an Intermediate Probability Radon Area. Basic radon protective measures are necessary in new dwellings or extensions.

2.16 Underground Infrastructure

- 2.16.1 No major underground infrastructure is shown to exist beneath the site.

2.17 Unexploded Ordnance (UXO) Hazard Screen

- 2.17.1 A UXO hazard screen has been undertaken by Soiltechnics (as a non-specialist) in accordance with CIRIA C785 to determine if further specialist risk assessment is required. This has been carried out with reference to the Zetica bomb density maps, area-specific bomb strike maps (where available), and a review of historical mapping and possible military sites in the area. A summary is presented below.

Hazard	Outcome	Discussion
Are there any indicators of former military land use on site?	No	A review of the site's history has not identified indicators of former military use on site.
Are there any indicators of historical bombing on or near the site?	No	The site falls within a low risk area and no military sites or likely Luftwaffe targets have been identified in the surrounding area. A review of historical mapping records did not reveal any indicators of bombing in the area.

Table 2-E: UXO Hazard Screen

- 2.17.2 The risk review concluded that there was not a credible risk of encountering UXO during the ground investigation. It should be noted that this preliminary risk review does not consider risks to the construction phase.

3 Tier 1 Preliminary Contamination Risk Assessment

3.1 Objectives

- 3.1.1 The objective of this preliminary risk assessment (PRA) is to determine the suitability of the site for the proposed redevelopment and end users, in terms of the risk from contamination. The assessment comprises the following steps:
- Identify potential contaminant linkages (PCLs) between sources, pathways and receptors.
 - To provide data to assist in the design of potential exploratory and detailed intrusive investigations and to give an early indication of possible remedial requirements, if necessary.

3.2 Evaluation Criteria

- 3.2.1 The following assessment is undertaken within the legislative framework of the planning system. Therefore, the assessment needs to identify if land contamination could pose an unacceptable risk to human health or the environment, within the context of the proposed development site. In the context of the existing site use, as a minimum, land should not be capable of being determined as 'contaminated land' under Part IIA of the Environmental Protection Act 1990.
- 3.2.2 The risk criteria for the proposed development is based on a 'minimal risk' approach, whereas under the existing land use a designation of 'contaminated land' would only apply if there is a significant possibility of significant harm (SPOSH).

3.3 Methodology

- 3.3.1 The objectives listed above are achieved by utilising the information presented within the desk study to develop an initial conceptual site model (iCSM) and identification of potential unacceptable risks. Depending upon the outcome of the Tier 1 assessment, it may be necessary to undertake a Tier 2 generic quantitative risk assessment (GQRA).
- 3.3.2 An iCSM relies upon the identification and assessment of PCLs. A contaminant linkage comprises of three key components:
- Source – a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.
 - Pathway – Current and post-development routes by which a receptor is, or could be, affected by a contaminant.
 - Receptor – Something that could be adversely affected by a contaminant, for example a person (current and proposed end users or neighbours), controlled waters and ecosystems.
- 3.3.3 The Tier 1 risk assessment has been produced with reference to the following guidance:
- ['Land contamination risk management'](#) (EA, 2021).
 - BS 10175:2011+A2:2017 'Investigation of potentially contaminated sites – Code of Practice'.
 - CIRIA C552 'Contaminated land risk assessment- a guide to good practice', 2001.
 - BS EN ISO 21365:2020 'Soil quality – Conceptual site models for potentially contaminated sites'
 - BS 8576:2013 'Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds (VOC)'.

3.4 Source Assessment

3.4.1 The table below summarises identified sources based on the findings of the desk study. Where appropriate, further discussion has been provided in the paragraphs which follow.

Potential Sources	Contaminant(s) of concern	Detail	Viable source?
On-site sources			
Potential shallow layer of Made Ground of unknown origin	Metals, polycyclic aromatic hydrocarbons (PAH), asbestos	The site has been subject to some phases of construction/demolition in the south-east.	Y
	Permanent ground gases (CH ₄ and CO ₂)	Elevated concentrations of ground gas generated from thick Made Ground with high levels of putrescible material.	N
Burial Site adjacent to chapel building	Permanent ground gases (CH ₄ and CO ₂) and organic matter	Elevated levels of ground gas and organic matter generated from the burial grounds.	Y
Radon	Radon	The site is recorded as being in an Intermediated Probability Radon Area.	Y
Off-site sources			
Coal Seams	Instability issues from worked coal seams Permanent ground gases (CH ₄ and CO ₂ and CO)	Shallow coal seams are present within 100m of the site	Y
Historical infilled ground	Permanent ground gases (CH ₄ and CO ₂)	Nearest 2 no. infilled land 229m (SW) and 249m (W) of site are likely associated with small infilled pond features so large-scale gas generation unlikely. Nearest landfill is 480m distant and received inert wastes.	N

Table 3-A: Contamination source assessment

3.5 Receptor Assessment

3.5.1 The following table summarises the identified receptors based on current site conditions and our understanding of the proposed end use:

Receptor Category	Principal Receptor	Receptor present?	Detail
Human health	Users of the current site	Yes	Utilised as chapel periodically and for community use.
	End user of the developed site	Yes	Proposed residential end users and users of the Chapel/community hall.
	Construction operatives and other site investigators	Yes	
	Adjacent site users and off-site members of the public	Yes	Residential properties adjacent to site.
Controlled waters	Surface waters	No	Low sensitivity water resources and at >100m from site. Zone 1 for flooding.
	Groundwater	Yes	Secondary A Aquifer located within bedrock
Sensitive ecosystems and species	Current site	No	Site is not currently within, or proposed to form, a designated environmentally sensitive area (SSSI, RAMSAR, AONB, SPA, SAC)
	Developed site	No	

Receptor Category	Principal Receptor	Receptor present?	Detail
Property	Soft landscaping (current)	Yes	Only one tree present on site, with north-eastern half of the site generally open land.
	Soft landscaping (proposed)	No	No additional private garden/landscaped areas proposed

Table 3-B: Receptor assessment

3.6 Pathway Assessment

3.6.1 The following table summarises the generic human health pathway assessment for the site, assuming a range of contaminant sources within the underlying soils. Source-specific pathways are considered within the iCSM in subsequent report sections.

Human Health Exposure Pathway	Residential land with shared landscaping	Construction operatives	Adjacent Site Users
Ingestion, inhalation and dermal contact with soils and dusts	✓	✓	✓ (inhalation only)
Ingestion, inhalation and dermal contact with site derived dusts indoors	✓	✓	✗
Ingestion of home-grown vegetables	✗	✗	✗
Inhalation of vapours in outside spaces	✓	✓	✓
Intrusion and inhalation of vapours indoors	✓	✓	✗
Accumulation and Inhalation of ground gas in enclosed structures	✓	✓	✗
Permeation into below-ground drinking water pipes	✓	✗	✗

Table 3-C: Generic pathway assessment

3.6.2 The following table summarises generic pathways for the site which could be viable for the identified controlled water receptors, given our understanding of the hydrogeological model and assuming a range of contaminants in the sub-surface.

Controlled Water Exposure Pathways	Current Setting	Proposed Setting	Mechanism
Site characteristics			
Leaching via infiltration through unsurfaced areas, and surface run-off	✓	✓	Mobilisation
Leaching via infiltration through cracks/joints in hardstanding areas and drainage infrastructure	✓	✓	Mobilisation
Leaching via saturation from groundwater flooding and shallow/perched groundwater bodies	✗	✗	Mobilisation
Infiltration through sustainable drainage systems	?	✓	Mobilisation
Preferential lateral pathways (e.g. underground services)	✓	✓	Migration
Preferential vertical pathways (e.g. piling, vibro-stone columns)	✗	✓	Migration
Hydrogeological characteristics			
Vertical migration through permeable strata into shallow aquifers and perched groundwater bodies	✓	✓	Migration

Controlled Water Exposure Pathways	Current Setting	Proposed Setting	Mechanism
Vertical migration through permeable strata into sensitive aquifers at depth	x	x	Migration
Lateral migration within shallow and perched groundwater bodies into surface waters	x	x	Migration

Table 3-D: Generic pathway assessment

3.7 Initial Conceptual Site Model (iCSM)

3.7.1 The table below presents our approach to the assessment of risks associated with PCLs. The categories below are based upon the definitions within CIRIA C552 (2001), with the addition of a ‘negligible likelihood’ scenario, which is to be used where there is no realistic scenario in which harm could occur.

3.7.2 The initial conceptual site model (iCSM) is presented within the following tables overleaf.

		Consequence of harm			
		Severe	Medium	Mild	Minor
Probability of harm	High likelihood	Risk: Very high (high – severe)	Risk: High (high – medium)	Risk: Moderate (high – mild)	Risk: Moderate/Low (high – minor)
	Likely	Risk: High (likely – severe)	Risk: Moderate (likely – medium)	Risk: Moderate/Low (likely – mild)	Risk: Low risk (likely – minor)
	Low Likelihood	Risk: Moderate (low – severe)	Risk: Moderate/Low (low – medium)	Risk: Low (low – mild)	Risk: Very low (low – minor)
	Unlikely	Risk: Moderate/Low (unlikely – severe)	Risk: Low (unlikely – medium)	Risk: Very low (unlikely – mild)	Risk: Very low (unlikely – minor)
	Negligible Likelihood	Risk: Low (negligible– severe)	Risk: Very Low (negligible– medium)	Risk: Very Low (negligible– mild)	Risk: Negligible (negligible– minor)

Table 3-E: iCSM Risk Ratings

RECEPTOR: PROPOSED END USERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground of unknown origin, including contamination from general historical development phases activities	Metals, PAHs, TPH, phenol	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (unlikely – medium)	Made Ground potentially associated with infilling of graves (reworked natural soils) and from demolition/construction of current/historical buildings. However significant Made Ground not expected to be present beneath proposed redevelopment areas.
Ground gases generated from small burial ground	Permanent Ground Gases (CH ₄ & CO ₂)	Migration through the sub-surface into enclosed spaces	Risk: Low (unlikely– medium)	Due to the age of the majority of burials, and size of plot, whilst there is some room for expansion to the northeast of the burial area, and burials are still occurring, the majority of historic gas generation is likely to have ceased and gases generated/still being generated by new burials are likely to be of relatively small volume. Ground gases would not migrate at sufficient volumes or concentrations to pose a viable risk.
Off-site shallow coal seams	Permanent Ground Gases (CH ₄ , CO ₂ & CO)	Migration through shafts and faults/fractures	Risk: Low (unlikely – medium)	Coal seams proximal to the site are anticipated to be <250mm in thickness and therefore highly unlikely to be economically exploitable. Site does not lie within a Coal Authority recorded area of probable shallow underground workings.
Geological Units	Radon	Migration through the sub-surface	Risk: Moderate (likely – medium)	The site is in an Intermediate Probability Area and basic radon protection measures will be required for the new development. Presence/absence of protection in retained buildings will also need consideration.

Table 3-F: iCSM – Proposed End Users

RECEPTOR: CONSTRUCTION WORKERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Made Ground	Asbestos fibres and ACMs	Inhalation of dusts	Risk: Low (unlikely – medium)	If present, asbestos in soils can present an acute risk to construction workers, particularly during the enabling works phases however no significant asbestos sources have been identified.
All other contamination sources, excluding asbestos	Metals, PAHs, TPHs	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (low – mild)	No gross contamination sources identified. Standard PPE and hygiene protocols for working on brownfield sites are likely to be sufficient to the mitigate risk.
Unexploded Ordnance	UXO	Direct contact / explosion	Risk: Low (negligible– severe)	The Hazard Screen did not show any indicators of potential UXO. No further risk assessment is required.

Table 3-G: iCSM – Acute Exposure to Construction Workers

RECEPTOR: ADJACENT SITE USERS FOLLOWING COMPLETION

Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
All identified potential contaminant sources	Metals, PAHs, TPH, (S)VOCs, Asbestos	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (unlikely – medium)	Based on the exposure pathways that would be present from the developed site, and on the anticipated levels of contamination, it is considered unlikely that a pollutant linkage could pose an unacceptable risk to off-site receptors.

Table 3-H: iCSM – Chronic Exposure to Adjacent Site Users

RECEPTOR: ADJACENT SITE USERS DURING THE CONSTRUCTION PHASE

Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Asbestos fibres and ACMs within the Made Ground	Asbestos	Inhalation of dusts	Risk: Low (unlikely – medium)	Potential risk associated with generation of air-borne asbestos fibres and dust during construction main earthworks phase. There is a low likelihood of harm occurring, due to the effect of fresh-air dilution and no asbestos sources have been identified.
All other potential contaminant sources	Metals, PAHs, TPH	Ingestion, inhalation and contact with soils, dusts and vapours	Risk: Low (unlikely – medium))	Unlikely to pose a viable risk to off-site receptors.

Table 3-I: iCSM – Acute Exposure to Adjacent Site Users

RECEPTOR: PROPOSED PLANTING

Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
Contaminants within topsoil and the shallow sub-surface	Metals, pH and inorganics	Direct contact and root uptake	Risk: Negligible (negligible– minor)	Soil resources are present on site and will need to be classified on whether it is a suitable growing medium, or whether a suitable growing medium may need to be imported for any proposed landscaping scheme. However, based on current proposals, new landscaping/gardens are not proposed.

Table 3-J: iCSM – Phytotoxic Risk to Proposed Planting Scheme

RECEPTOR: CONTROLLED WATERS				
Potential Source	Contaminants of Concern	Pathway	Tier 1 Risk Assessment (probability of harm x consequence)	Discussion
All potential contaminant sources outlined above	Various	Leaching and vertical migration (Groundwater in Secondary 'A' aquifer)	Risk: Low (unlikely – medium)	Groundwater lies at significant depth (60m) and no significant contamination is anticipated based past site usage. No surface water receptors identified.

Table 3-K: iCSM – Controlled Waters Risk

3.7.3 The risk to identified receptors from the proposed developments under the planning regime are assessed under a 'minimal risk' approach. Whereas, the risk to receptors under the current and continued use of the site is dealt with under the regulatory framework of the Part IIA regime, where Soiltechnics consider if there is a reasonable chance of a 'significant potential of significant harm' occurring. This is not equivalent to a due diligence assessment for the continued use of the site to aid in determining potential contaminated land liabilities or land valuations.

3.7.4 The following table sets out the risk to current users under a 'minimal risk' approach:

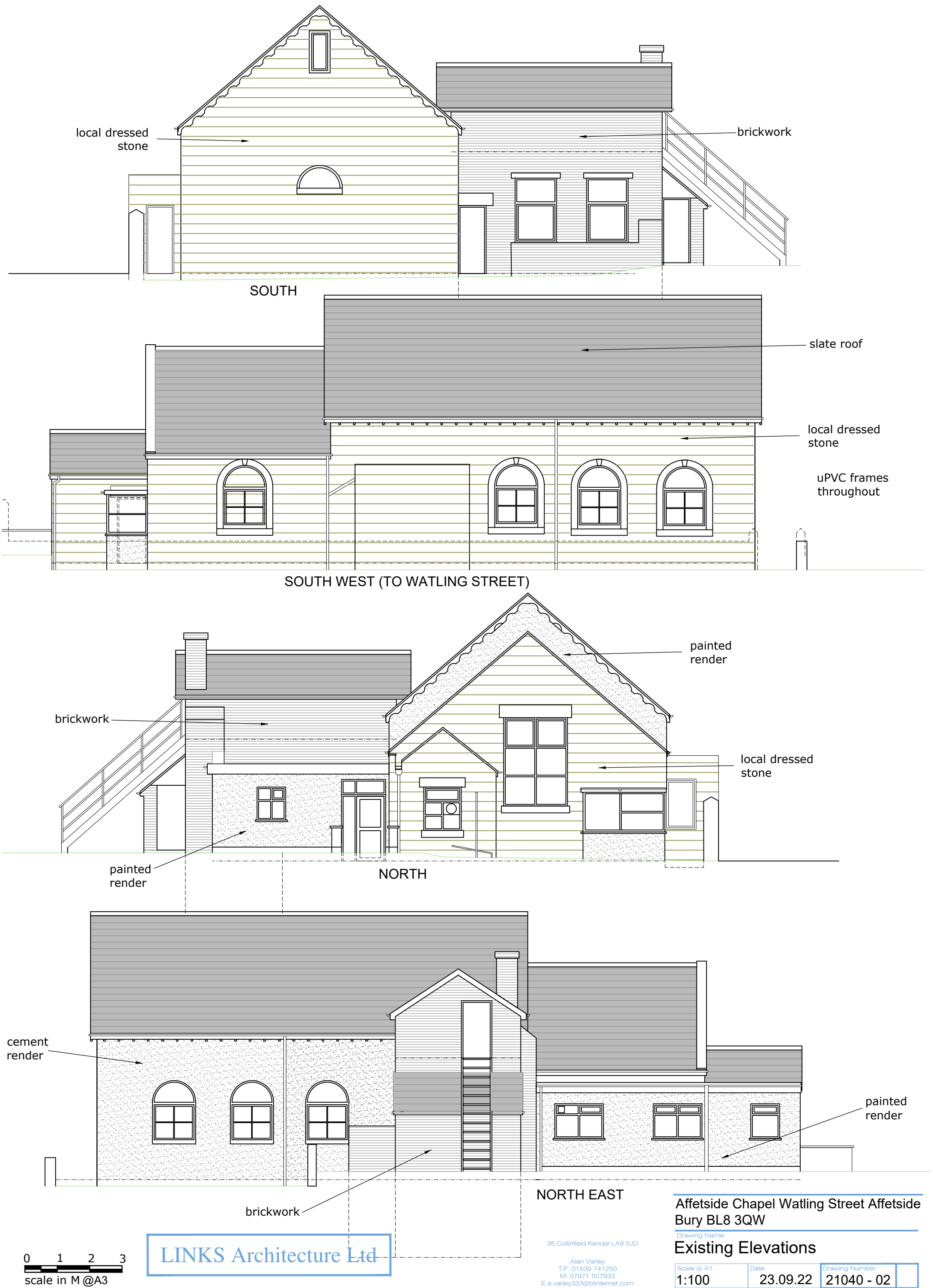
Receptor	Potential Source	Contaminants of Concern	Pathway	Preliminary Assessment: Is their reasonable evidence of SPOSH?	Discussion
Human Health (Current and adjacent site users)	All potential contaminant sources identified above	Various Contaminants	Inhalation, ingestion and contact with soils, dusts and vapours.	No	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to human health occurring from contamination on site.
Controlled Waters (Groundwater)	All potential contaminant sources identified above	Various Contaminants	Mobilisation and migration	No	Whilst potential contamination sources have been identified, Soiltechnics have not encountered any evidence which indicates there could be a significant possibility of significant harm to controlled waters occurring from contamination on site.
Ecosystems	All potential contaminant sources identified above	Various Contaminants	Direct contact and root uptake	No	The site does not fall within a relevant designation for environmentally sensitive land (e.g. SSSI, NRA, Ramsar).
Property	All potential contaminant sources identified above	Various Contaminants	Various pathways	No	Through undertaking the desk study, no evidence of potentially significant harm occurring to property has been identified.

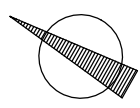
Table 3-L: iCSM – Current Site Risks (Part IIA)

3.8 Preliminary Risk Assessment Conclusions and Recommendations

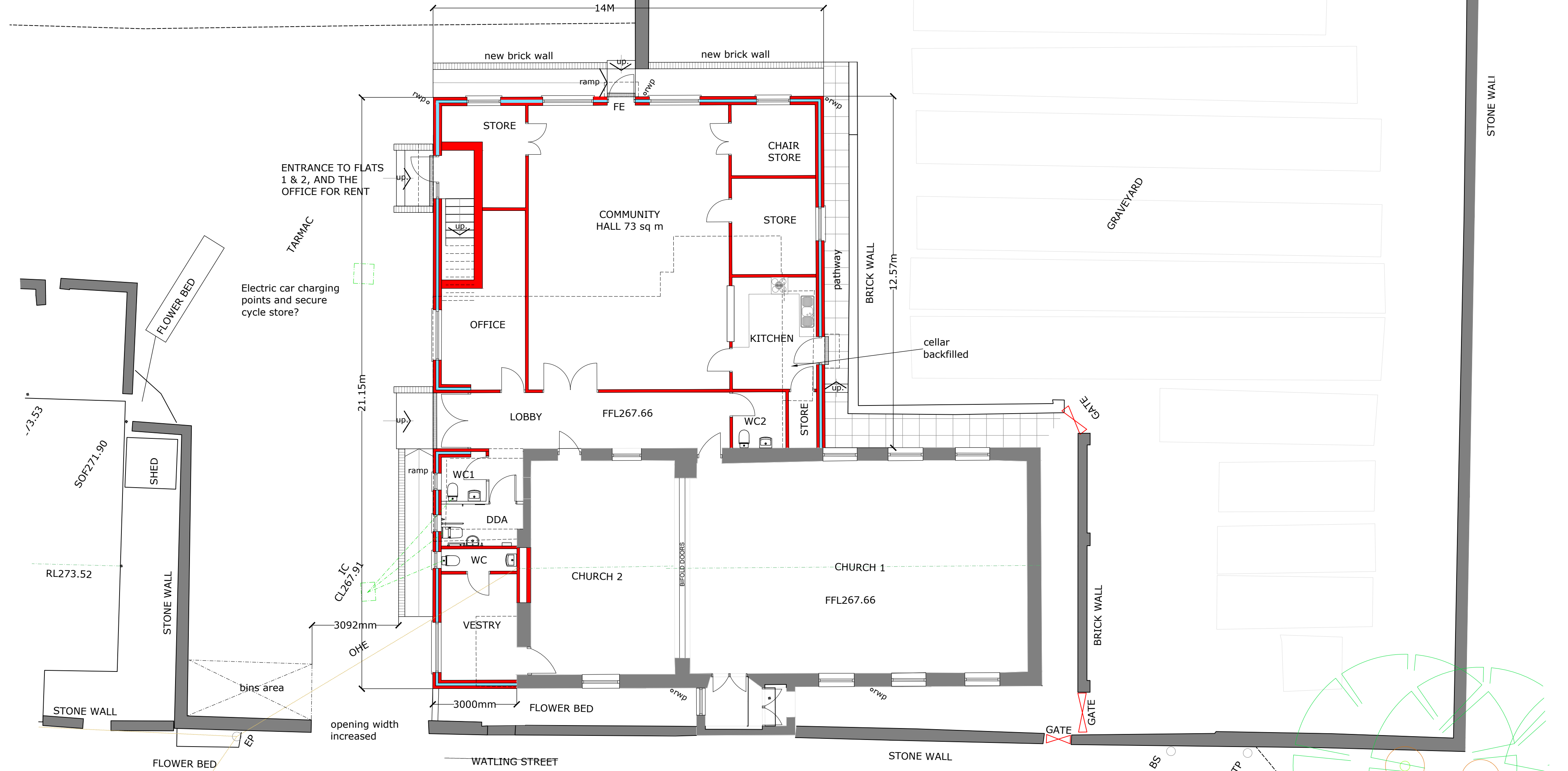
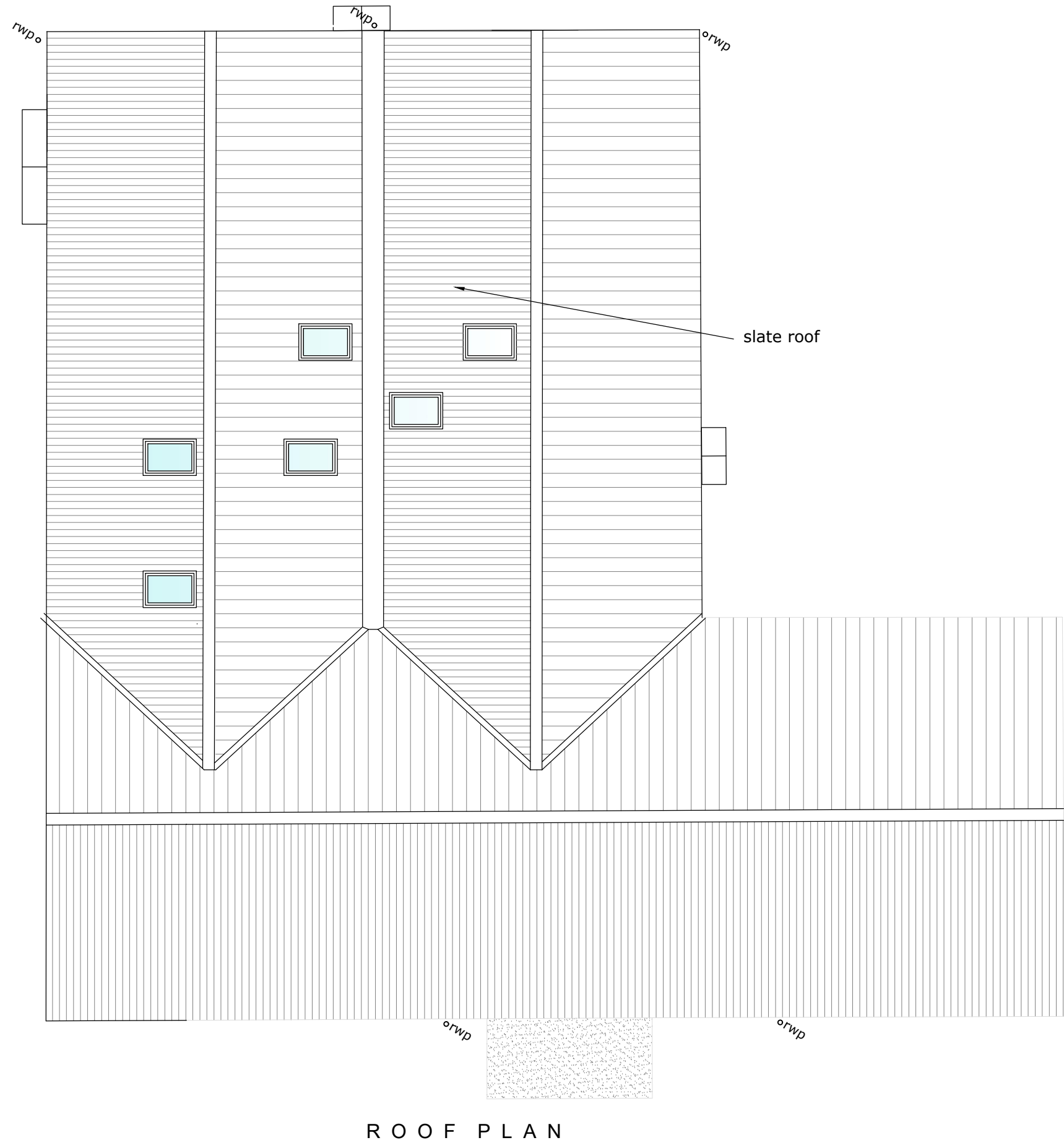
- 3.8.1 In summary, the PRA has not identified any potential contaminant linkages which pose an unacceptable risk in the current or proposed development site settings. Therefore, the site is considered suitable for development without any further investigation works or remedial action taking place. However, the new development will require incorporation of basic radon protection measures and, the measurement of radon gas within retained/refurbished buildings should also be considered.

Appendix A Drawings





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Do not scale this drawing.
All heights, levels, slopes and dimensions to be checked on site before any work is put to hand.



LINKS Architecture Ltd

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E: a.valley@linksarchitecture.com

Project
Proposed Extension to Affetside Chapel Watling Street
Affetside Bury BL8 3QW to provide Ground Floor Community
Hall, Office, Vestry, Kitchen, Toilet facilities and storage. Four
number First floor offices to rent with associated toilets and
brew facilities.

Client
SCHEME
Drawing Name
Proposed Plans

Scale of A1
1:100
Date
26.09.22
Drawing Number
21040 - 10

Appendix B Consultants Coal Mining Report

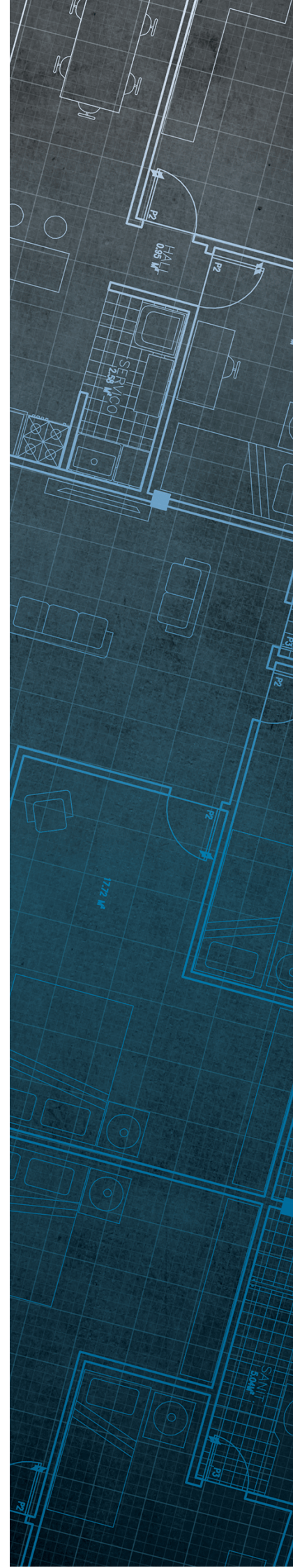


The Coal
Authority

Consultants Coal Mining Report

38 Watling Street
Tottington
Bury
BL8 3QW

Date of enquiry:	9 January 2023
Date enquiry received:	9 January 2023
Issue date:	9 January 2023
Our reference:	51003332550001
Your reference:	STV5920



Consultants

Coal Mining Report

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

Client name

Soiltechnics Limited

Enquiry address

38 Watling Street
Tottington
Bury
BL8 3QW

How to contact us

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Mansfield
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 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	375413-001	375545 413661		Coal	

Abandoned mine plan catalogue numbers

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

16820		
-------	--	--

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
INCH	Coal	Yes	24.8	North	94

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

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

Future development

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

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

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

Payment to owners of former copyhold land

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

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix C Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

305570369_1_1

Customer Reference:

STV5920

National Grid Reference:

375590, 413540

Slice:

A

Site Area (Ha):

0.3

Search Buffer (m):

1000

Site Details:

, 38, Watling Street

Affetside

Bury

BL8 3QW

Client Details:

Ms S Ltd

Soiltechnics

Cedar Barn

White Lodge

Walgrave

Northampton

NN6 9PY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	18
Hazardous Substances	-
Geological	20
Industrial Land Use	35
Sensitive Land Use	37
Data Currency	38
Data Suppliers	45
Useful Contacts	46

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			1	16
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5		1		5
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6				2 (*15)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			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
OS Water Network Lines	pg 11		2	6	50

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 18			1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 18				1
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 18		2	2	9
Potentially Infilled Land (Water)					
Registered Landfill Sites	pg 19				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 20	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 20	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 32		1	1	8
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 33	Yes	n/a	n/a	n/a
Mining Instability	pg 33	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 33	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 34	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 34		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 34	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 34	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 34	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 35		1		3
Fuel Station Entries					
Points of Interest - Commercial Services					
Points of Interest - Education and Health	pg 35				2
Points of Interest - Manufacturing and Production	pg 35			1	6
Points of Interest - Public Infrastructure					
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 37	1	1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (N)	0	1	375592 413542
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	126	1	375750 413550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (S)	251	1	375592 413250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	283	1	375850 413350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	478	1	375150 413300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A19SW (NE)	479	1	375950 413900
1	Discharge Consents Operator: Mr J W Denton Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 3 Bungalow Stp, Affetside, Bolton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990231 Permit Version: 1 Effective Date: 28th October 1980 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Bradshaw Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (W)	253	2	375320 413470
2	Discharge Consents Operator: Mr & Mrs Halstead Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Buckley Close Farm Turton Road, Tottington, Bury, Lancashire, B18 3qf Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 01m/408 Permit Version: 1 Effective Date: 8th September 1960 Issued Date: 8th September 1960 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	562	2	376038 413924
3	Discharge Consents Operator: Mr K.E. Knott Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Raikes Cottage Tottington Road, Harwood, Bolton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990294 Permit Version: 1 Effective Date: 10th May 1981 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Riding Gate Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A8NW (S)	607	2	375500 412900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: David Irving Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Holcombe Villa Farm Turton Rd, Tottington, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016991430 Permit Version: 1 Effective Date: 10th July 1989 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Coastal Trib For Da 68/69 Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	628	2	375900 414130
5	Discharge Consents Operator: Mr S.G.N. Goddard Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 313 Turton Rd, Tottington, Bury, Lancashire, B18 3qf Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 0167/667 Permit Version: 1 Effective Date: 27th October 1967 Issued Date: 27th October 1967 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Tottingham Bk Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	692	2	376218 413884
6	Discharge Consents Operator: United Utilities Water Limited Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Affetside Service Res, Affetside, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982876 Permit Version: 1 Effective Date: 30th March 1995 Issued Date: Not Supplied Revocation Date: 19th January 2009 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Bradshaw Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	697	2	375550 414280
7	Discharge Consents Operator: Mr William Vickers Duncalf Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Old Pitts Cottage Tottington Road, Harwood, Bolton, Lancashire, B12 Authority: Environment Agency, North West Region Catchment Area: Middle Book (Off River Croal) Reference: 01m/991 Permit Version: 1 Effective Date: 19th October 1960 Issued Date: 19th October 1960 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unknown Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8SE (S)	699	2	375665 412806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: Occupier Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 311 Turton Road, Tottington, Bury, Lancashire, BL8 3qf Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016992375 Permit Version: 1 Effective Date: 24th May 1978 Issued Date: 24th May 1978 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Kirklees Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14NE (E)	717	2	376280 413820
9	Discharge Consents Operator: Mr G Entwistle Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Toppeth Knotts Farm, Off Bradshaw Road, Bolton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992263 Permit Version: 1 Effective Date: 2nd May 1991 Issued Date: Not Supplied Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Riding Gate Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	773	2	375100 412900
10	Discharge Consents Operator: John Middleton Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 301 & 303 Turton Rd, Tottington, Bury, Lancashire, BL8 3qe Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 0170/1314 Permit Version: 1 Effective Date: 2nd November 1970 Issued Date: 2nd November 1970 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Kirklee Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14NE (E)	783	2	376360 413800
10	Discharge Consents Operator: Raymond Cresswell Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 301 & 303 Turton Rd, Tottington, Bury, Lancashire, BL8 3qe Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 0170/1314 Permit Version: 1 Effective Date: 2nd November 1970 Issued Date: 2nd November 1970 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Kirklee Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NE (E)	783	2	376360 413800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: Thomas John Baldwin Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 402 Turton Road, Tottington, Bury, B18 3qg Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: 016993644 Permit Version: 1 Effective Date: 15th December 2004 Issued Date: 15th November 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Tributary Of Kirklees 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	A18NE (N)	828	2	375780 414390
12	Discharge Consents Operator: A & L Anderson Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Higher Barn Farm, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016991443 Permit Version: 1 Effective Date: 11th August 1989 Issued Date: Not Supplied Revocation Date: 31st October 1994 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bottoms Hall Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	911	2	375600 414495
12	Discharge Consents Operator: A & L Anderson Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Higher Barn Farm, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016991443 Permit Version: 1 Effective Date: 11th August 1989 Issued Date: Not Supplied Revocation Date: 31st October 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Bottoms Hall Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18NE (N)	916	2	375600 414500
12	Discharge Consents Operator: A & L Anderson Property Type: Mixed Farming Location: Higher Barn Farm, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016991443 Permit Version: 2 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Bottoms Hall Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A18NE (N)	916	2	375600 414500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: A & L Anderson Property Type: FARMS (NOT HOUSE)/CROP + ANIMAL REARING/PLANT NURSERY Location: Higher Barn Farm, Bury, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016991443 Permit Version: 2 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Bottoms Hall Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A18NE (N)	916	2	375600 414500
13	Discharge Consents Operator: Bury Council Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Bury Council 1-3 Whittles Cottages At W Farm, Turton Road, Tottington, Bury, Lancashire, B18 3qq Authority: Environment Agency, North West Region Catchment Area: Irwell Reference: Npswqd006013 Permit Version: 1 Effective Date: 28th January 2009 Issued Date: 28th January 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Kirklees 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	A18NW (N)	972	2	375516 414554
	Nearest Surface Water Feature	A13SW (S)	100	-	375554 413406
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Pollution Found Incident Date: 15th February 1996 Incident Reference: 96610285 Catchment Area: Croal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	167	2	375400 413600
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; None Pollution Found Incident Date: 30th September 1996 Incident Reference: 96622128 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	580	2	376000 413995
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: No Pollution Found; None Pollution Found Incident Date: 8th June 1996 Incident Reference: 96621854 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	584	2	376000 414000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Cattle slurry Note: Tributary Kirklees Bk Incident Date: 3rd December 1994 Incident Reference: 94622652 Catchment Area: Irwell Receiving Water: Not Given Cause of Incident: Leaking Tank Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	659	2	376000 414100
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Treatment Works Location: Cow Slurry , Is Being Washed Into Stream Authority: Environment Agency, North West Region Pollutant: Not Given Note: Tributary Kirklees Brook; No Pollution Found Incident Date: 31st August 1997 Incident Reference: 97621589 Catchment Area: Irwell Receiving Water: Freshwater Stream/River Cause of Incident: Other Cause Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	738	2	376200 414000
18	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Organic Wastes: Cattle slurry Note: Riding Gate Brook Incident Date: 4th April 1995 Incident Reference: 95610696 Catchment Area: Croal Receiving Water: Not Given Cause of Incident: Inadequate Design/Capacity Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	747	2	374900 413195
19	Water Abstractions Operator: J Calderbank Licence Number: 2569003037 Permit Version: 100 Location: Borehole At Hoyles Fold Farm, Harwood, Bolton, Lancs. Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2 Yearly Rate (m3): 750 Details: Hoyles Fold And Castle Farms Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (S)	629	2	375400 412900
20	Water Abstractions Operator: E Joule Licence Number: 2569003066 Permit Version: 100 Location: Borehole At Top-O'Th-Knotts Farm, Harwood Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 3319 Details: Top-O'Th-Knotts Farm At Harwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th August 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	745	2	374900 413200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: J Houghton Licence Number: 2569001019 Permit Version: 100 Location: Borehole At Isherwoods Farm, Walshaw Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 3410 Details: Isherwoods Farm, Walshaw Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	1037	2	376100 412600
	Water Abstractions Operator: Peter & Janet Hoyle Licence Number: 2569001113 Permit Version: 101 Location: Well At Stormer Hill Closes Farm, Tottington, Nr Bury Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Stormer Hill Closes Farm, Tottington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd September 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15SW (E)	1096	2	376700 413300
	Water Abstractions Operator: Mr Hutchinson Licence Number: 2569001113 Permit Version: 100 Location: Well At Stormer Hill Closes Farm, Tottington, Nr Bury Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1659 Details: Stormer Hill Closes Farm, Tottington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	1096	2	376700 413300
	Water Abstractions Operator: E Joule & Sons Licence Number: 2569003068 Permit Version: 100 Location: Borehole At Premises, High Barn Farmharwood, Bolton Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 3319 Details: High Barn Farm At Harwood, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1121	2	375800 412400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Alan & Anne Whitfield Licence Number: 2569003083 Permit Version: 100 Location: Borehole At Harry Fold Farm, Bradshaw, Bolton Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1136 Details: Harry Fold Farm, Bradshaw, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 18th March 1985 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	1165	2	374400 413600
	Water Abstractions Operator: M E Botterill Licence Number: 2569003067 Permit Version: 100 Location: Borehole At Hill Farm, Harwood, Bolton Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 3319 Details: Hill Farm At Harwood, Bolton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th August 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2NW (SW)	1405	2	374600 412500
	Water Abstractions Operator: Anthony Millward Rogers Licence Number: 2569001248 Permit Version: 100 Location: Borehole At Heights Barn, Four Lane Ends, Tottington Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2 Yearly Rate (m3): 343 Details: Land & Premises At Heights Barn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th September 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (SE)	1500	2	376260 412160
	Water Abstractions Operator: Woodhey Dyeing Co Ltd Licence Number: 309 Permit Version: Not Supplied Location: Tottington Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Reservoir/Pond Daily Rate (m3): 30000 Yearly Rate (m3): 7500000 Details: Reservoirs (2) Fed By Surface Drainage 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	A24NE (NE)	1545	2	376400 414900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C Coxen Licence Number: 2569001041 Permit Version: 100 Location: Well At Tonge Fold Cottage, Melrose Farm, Hawkshaw Lane, Tot Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 1 Yearly Rate (m3): 500 Details: Melrose At Hawkshaw Lane, Tottington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 2nd February 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23NE (N)	1645	2	375900 415200
	Water Abstractions Operator: Woodhey Dyeing Company Ltd Licence Number: 2569001149 Permit Version: 100 Location: Unnamed Tributary Of Kirklees Brook At Hawkshaw Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): 0 Details: Bleaklow Mill, Hawkshaw, Bury Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th December 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NW (N)	1694	2	376100 415200
	Water Abstractions Operator: D F Marsden Licence Number: 2569001177 Permit Version: 100 Location: B/Hole , Old Holts Farmroading Brook Rd, Harwood, Bolton Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1591 Details: Premises, Old Holts Farm, Harwood Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th February 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1808	2	376200 411800
	Water Abstractions Operator: The Trustees Of Harwood Golf Club Licence Number: 2569003095/R02 Permit Version: 1 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1816	2	375450 411690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr J S Fairhurst And Mr B G Green And Mr J Fish And Mr C Wood Licence Number: 2569003095/R1 Permit Version: 1 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1816	2	375450 411690
	Water Abstractions Operator: The Secretary Licence Number: 2569003095 Permit Version: 100 Location: Borehole At Harwood Golf Club Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 50 Yearly Rate (m3): 10000 Details: Land At Harwood Golf Club Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 26th February 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1816	2	375450 411690
	Water Abstractions Operator: Woodhey Dyeing Co Ltd Licence Number: 2569001149 Permit Version: Not Supplied Location: Tottington Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 136 Yearly Rate (m3): Not Supplied Details: Reservoirs (2) Fed By Surface Drainage 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	A24NE (NE)	1854	2	376500 415200
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13SW (N)	0	3	375592 413542
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (N)	0	3	375592 413542
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (W)	182	4	375384 413509
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (W)	249	4	375319 413490
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 344.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SW (W)	260	4	375312 413473
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 484.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A13SE (S)	262	4	375665 413251
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18SE (N)	334	4	375693 413902
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 313.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	421	4	375253 413853
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NE (S)	446	4	375638 413057
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 313.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (SW)	494	4	375291 413104

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 742.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SE (SW)	599	4	375016 413296
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8NW (S)	614	4	375512 412891
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	619	4	376174 413813
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	641	4	374988 413849
33	OS Water Network Lines Watercourse Form: Marsh Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	642	4	374985 413845
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 395.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SW (NE)	645	4	376069 414017
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	660	4	376175 413157
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 167.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	663	4	376101 413061
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 188.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NE (NW)	667	4	374948 413824

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 527.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NW (N)	670	4	375451 414240
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A8SE (S)	685	4	375629 412817
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 353.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A8SE (S)	691	4	375604 412810
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14NW (NE)	693	4	376230 413865
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	726	4	374838 413578
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 338.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SE (NW)	746	4	375083 414138
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A8SW (SW)	762	4	375276 412805
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 217.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A8SW (SW)	762	4	375276 412805
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NE (SW)	764	4	375145 412877

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	781	4	375137 412862
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 364.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NW (SE)	784	4	376263 413066
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	790	4	375733 414361
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	796	4	375740 414366
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 255.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SE (NE)	799	4	376310 413938
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SW (W)	803	4	374761 413498
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A12NW (W)	810	4	374778 413763
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	810	4	374778 413763
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A12NW (W)	816	4	374771 413758

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 251.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12SW (W)	817	4	374747 413501
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	855	4	374726 413736
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A7SE (SW)	855	4	375076 412814
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	866	4	375880 414400
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	891	4	374782 413994
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 574.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	893	4	374777 413991
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	901	4	376026 414372
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A12NW (W)	914	4	374653 413634
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	922	4	375817 414478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	OS Water Network Lines Watercourse Form: Marsh Watercourse Length: 27.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	924	4	376033 414396
66	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (NE)	927	4	375971 414429
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (N)	929	4	375951 414441
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 196.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A9NE (SE)	933	4	376470 413126
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 125.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SE (E)	944	4	376497 413890
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19SE (NE)	957	4	376314 414210
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (N)	964	4	375946 414481
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.3 Watercourse Level: Underground Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A7SW (SW)	976	4	374909 412798
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7NW (SW)	977	4	374824 412890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	980	4	375746 414552
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A18NE (N)	983	4	375875 414525
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A19NW (N)	987	4	375962 414499
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A17SW (NW)	988	4	374742 414117
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 118.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Riding Gate Brook Catchment Name: Mersey Primacy: 1	A7SW (SW)	990	4	374884 412803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Historical Landfill Sites Licence Holder: Not Supplied Location: Tottington, Greater Manchester Name: Tom Nook Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15708 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: C109	A18SE (N)	480	2	375779 414026
80	Historical Landfill Sites Licence Holder: J Doyle Waste Disposal Limited Location: Top Oth Knotts Farm, Harwood, Bolton Name: Tottington Road Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15727 First Input Date: 1st April 1975 Last Input Date: 30th November 1987 Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9167 BGS Ref: Not Supplied Other Ref: RD/LIC/012/76, B039	A7NE (SW)	727	2	375089 412970
81	Licensed Waste Management Facilities (Locations) Licence Number: 50446 Location: Howarths Farm, Watling Street, Affetside, Bury, Lancashire, BL8 3QR Operator Name: Mrs Rosemary Mackenzie & Mrs Carol Morris Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Clinical Waste Transfer Stations Licence Status: Surrendered Issued: 8th May 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 12th December 2007 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	507	2	375875 413082
	Local Authority Landfill Coverage Name: Bury Metropolitan Borough Council - Has not been able to supply Landfill data		0	5	375592 413542
	Local Authority Landfill Coverage Name: Bolton Metropolitan Borough Council - Has supplied landfill data		206	6	375521 413305
82	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13SW (SW)	229	-	375391 413381
83	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13SW (W)	249	-	375322 413480
84	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A13NE (NE)	327	-	375907 413692
85	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A14SW (E)	480	-	376078 413361
86	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A17SE (NW)	570	-	375201 414008

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A14SW (SE)	592	-	376149 413244
88	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A8SE (S)	688	-	375660 412817
89	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A8SW (S)	710	-	375383 412820
90	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A9NW (SE)	751	-	376191 413029
91	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A8SW (S)	761	-	375328 412785
92	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A7SE (SW)	793	-	375158 412833
93	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A14SE (E)	799	-	376424 413488
94	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1982	A18NE (N)	932	-	375883 414469
95	Registered Landfill Sites Licence Holder: J Doyle (Waste Disposal) Licence Reference: 00012/77/M6 Site Location: Tottington Road Quarry, Tpo O'Th' Knotts Farm, Harwood, Bolton, Lancashire Licence Easting: 374900 Licence Northing: 412900 Operator Location: PO Box 33, Gaskell St reet Works, BOLTON, Lancashire, BL1 2QS Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 30th September 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste Asbestos Commercial Waste Construction And Demolition Wastes Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Scrap Rubber (Including Tyres) Biodegradable/Putrescible Waste Liquid Wastes Sludge Wastes Prohibited Waste	A7NW (SW)	912	2	374900 412900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SW (N)	0	1	375592 413542
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (S)	0	1	375587 413510
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (N)	0	1	375592 413542
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (S)	1	1	375592 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	32	1	375647 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	129	1	375719 413622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (W)	139	1	375430 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	157	1	375674 413717
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	157	1	375702 413697
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (E)	182	1	375807 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	226	1	375338 413517
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (W)	233	1	375334 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (S)	248	1	375514 413264

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 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (N)	268	1	375484 413831
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	277	1	375832 413339
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	279	1	375313 413417
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (N)	289	1	375713 413847
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (NE)	311	1	375783 413829
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	323	1	375949 413500

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 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	383	1	375499 413128
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	397	1	375303 413222
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	424	1	375141 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	437	1	375334 413143
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (E)	485	1	376085 413684
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (E)	491	1	376085 413702

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (W)	514	1	375051 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	567	1	375978 413999
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	582	1	375754 412944
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	606	1	375862 412961
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	614	1	376065 413095
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (NE)	618	1	376142 413867

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	644	1	376000 413000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	645	1	374919 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	670	1	375888 414185
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	686	1	375527 412818
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	700	1	376187 413949
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	711	1	376337 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	712	1	376191 413965
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	722	1	376123 413000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	743	1	376220 413977
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (NE)	744	1	376154 414070
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	753	1	375500 412753
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	771	1	375000 413000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	777	1	376200 413000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	779	1	375467 414353
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	781	1	376000 412837
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	783	1	375000 412982
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	808	1	375448 414380
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	822	1	376448 413500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	827	1	374737 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (NW)	877	1	374790 413980
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	882	1	376335 413000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	884	1	376000 412719
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	886	1	375474 412622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	892	1	376513 413430

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 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	893	1	375000 412827
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	895	1	376410 413957
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	899	1	376432 413924
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	906	1	376083 414344
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	925	1	375832 414477
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	930	1	375000 412778

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	932	1	376039 414401
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (N)	937	1	375935 414455
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	941	1	376567 413500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NW (NE)	941	1	376134 414352
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	945	1	376398 412978
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	969	1	376441 413000

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 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	969	1	374852 412868
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	975	1	376600 413572
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	979	1	376539 413878
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NE (NE)	979	1	376283 414276
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7SE (SW)	985	1	375000 412709
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A23SE (N)	987	1	375712 414564

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	BGS Recorded Mineral Sites Site Name: Wickenley House Location: Harwood, Bolton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96440 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Helpet Edge Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	225	1	375386 413397
97	BGS Recorded Mineral Sites Site Name: Afferside Location: Tottington, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96430 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Great Arc Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	326	1	375897 413707
98	BGS Recorded Mineral Sites Site Name: Baxter Head Location: Tottington, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96429 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	616	1	375151 414025
99	BGS Recorded Mineral Sites Site Name: Hoyle Fold Location: Harwood, Bolton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96441 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Milnrow Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	695	1	375369 412840
100	BGS Recorded Mineral Sites Site Name: Long House Location: Tottington, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96431 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Woodhead Hill Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	726	1	376283 413835
101	BGS Recorded Mineral Sites Site Name: Hoyle Fold Location: Harwood, Bolton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96442 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8SW (S)	755	1	375291 412806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	BGS Recorded Mineral Sites Site Name: New Barn Location: Tottington, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96432 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Woodhead Hill Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	847	1	376451 413720
103	BGS Recorded Mineral Sites Site Name: Old Town Location: Harwood, Bolton, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 14564 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Milnrow Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	928	1	374920 412855
104	BGS Recorded Mineral Sites Site Name: Higher Brooksbottom Location: Hawkshaw, Ramsbottom, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96023 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	929	1	375868 414471
105	BGS Recorded Mineral Sites Site Name: Ralph Moor Location: Tottington, Bury, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 96433 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Woodhead Hill Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14NE (E)	961	1	375581 413639
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (N)	0	7	375592 413542
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (N)	0	-	375592 413542
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	77	1	375602 413425
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	1	375591 413531
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	12	1	375632 413539
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	154	1	375701 413692
	Radon Potential - Radon Affected Areas Affected Area: The property is an Intermediate probability radon area (3 to 5% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	375592 413550
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	375600 413525
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	375592 413542
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	375592 413550
	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 (SE)	0	1	375600 413525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	Contemporary Trade Directory Entries Name: Busymackb Location: 38, Watling Street, Affetside, Bury, Lancashire, BL8 3QW Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	7	-	375565 413550
107	Contemporary Trade Directory Entries Name: Pet Crematorium Location: Howarths Farm, Watling Street, Affetside, Bury, Lancashire, BL8 3QR Classification: Pet Cemeteries & Crematoria Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	507	-	375875 413082
108	Contemporary Trade Directory Entries Name: Manchester Building & Testing Laboratories Location: Priory Grange, Watling Street, Affetside, Bury, Lancashire, BL8 3QJ Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	699	-	375364 414246
109	Contemporary Trade Directory Entries Name: Contract Blinds & Flooring Location: The Stables Ralph Moor House, Turton Road, Tottington, Bury, Lancashire, BL8 3QE Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NE (E)	962	-	376557 413770
110	Points of Interest - Education and Health Name: Pet Crematorium Location: Howarths Farm, Watling Street, Affetside, Bury, BL8 3QR Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A8NE (SE)	507	8	375875 413082
110	Points of Interest - Education and Health Name: Pet Crematorium Location: Howarths Farm, Watling Street, Affetside, Bury, BL8 3QR Category: Animal Welfare Class Code: Pet Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A8NE (SE)	507	8	375875 413082
111	Points of Interest - Manufacturing and Production Name: Tank Location: BL8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13SW (W)	262	8	375310 413472
112	Points of Interest - Manufacturing and Production Name: Tank Location: BL8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	580	8	375079 413887
113	Points of Interest - Manufacturing and Production Name: J Calderbank Location: Tottington Road, Bolton, BL2 4LL Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8NW (S)	627	8	375448 412889
113	Points of Interest - Manufacturing and Production Name: John Calderbank Location: Hoyles Fold Farm, Tottington Road, Bolton, BL2 4LL Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8NW (S)	627	8	375448 412889
113	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A8NW (S)	660	8	375378 412874
114	Points of Interest - Manufacturing and Production Name: Tank Location: BL2 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A7NE (SW)	751	8	375143 412894

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	Points of Interest - Manufacturing and Production Name: Tank Location: BL8 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A18NW (N)	973	8	375339 414525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	Areas of Adopted Green Belt Authority: Bury Metropolitan Borough Council Plan Name: Bury Unitary Development Plan Status: Adopted Plan Date: 29th August 1997	A13SW (N)	0	5	375592 413542
117	Areas of Adopted Green Belt Authority: Bolton Metropolitan Borough Council Plan Name: Allocations Status: Adopted Plan Date: 3rd December 2014	A13SW (S)	208	6	375514 413306

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Rossendale Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Blackburn with Darwen Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	June 2020 October 2017 October 2017 September 2017 September 2017 September 2017	Annually Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	October 2022	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2022	Quarterly
Local Authority Integrated Pollution Prevention And Control Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 July 2014 May 2016	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 July 2014 May 2016	Not Applicable Not Applicable Annual Rolling Update Not Applicable Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Blackburn with Darwen Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department Bolton Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2015 February 2015 July 2014 July 2014 May 2016	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 2022	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2022 October 2022 October 2022	Quarterly Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - North West Region	October 2022	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2022	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	October 2022 October 2022 October 2022	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Lancashire County Council - Waste Management Group Rochdale Metropolitan Borough Council - Environmental Health Department Rossendale Borough Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006 March 2006	Not Applicable Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council - Planning Department Bury Metropolitan Borough Council Lancashire County Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016	Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	January 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2022	Quarterly
Points of Interest - Education and Health PointX	December 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2022	Quarterly
Points of Interest - Public Infrastructure PointX	December 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

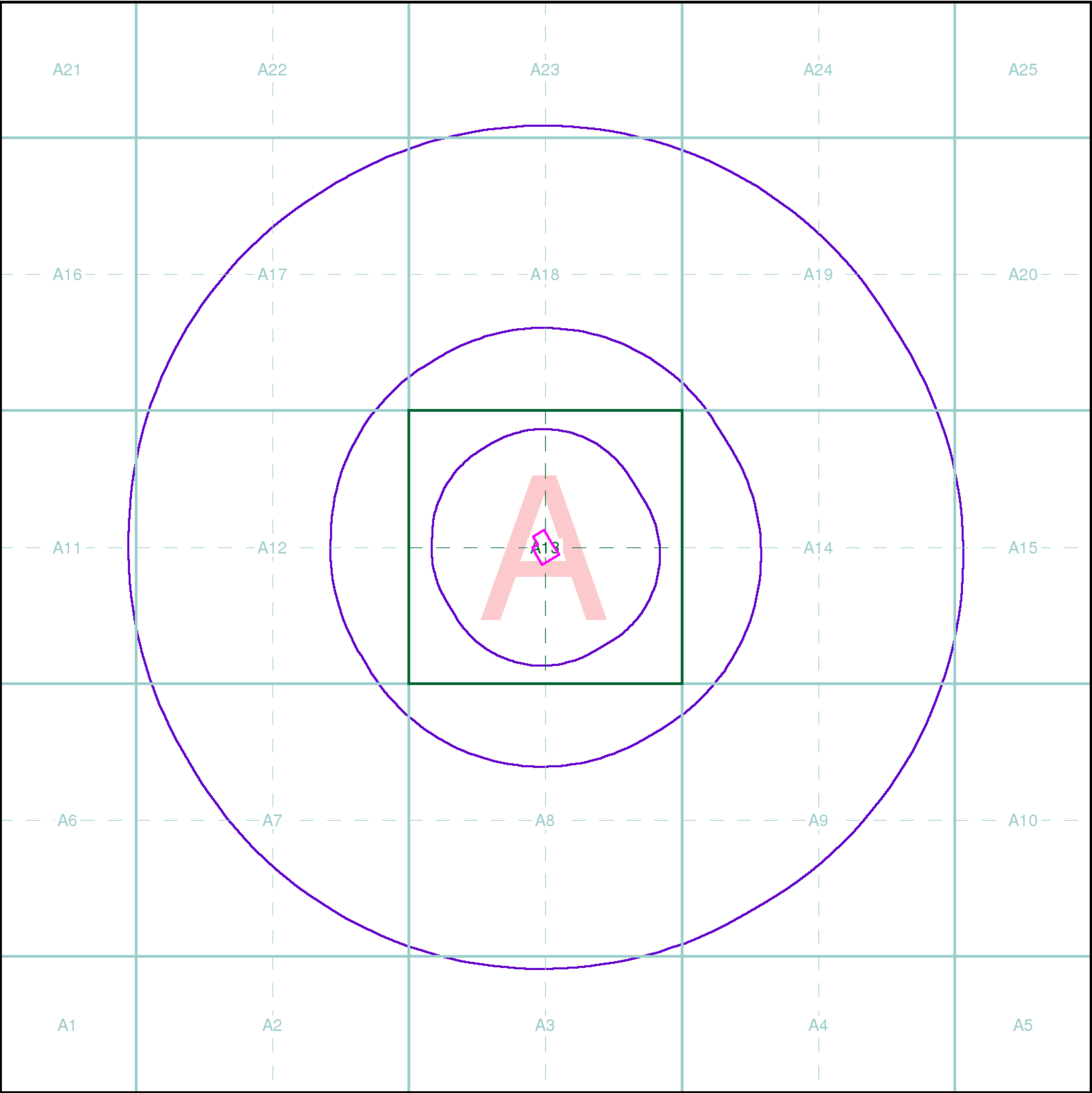
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Blackburn with Darwen Borough Council Bolton Metropolitan Borough Council Bury Metropolitan Borough Council Rochdale Metropolitan Borough Council Rossendale Borough Council - Planning Department	July 2022 July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	August 2022	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Bury Metropolitan Borough Council Craig House, Bank Street, Bury, Lancashire, BL9 0DN	Telephone: 0161 253 5000 Fax: 0161 705 5290 Website: www.bury.gov.uk
6	Bolton Metropolitan Borough Council Town Hall, The Wellsprings, Bolton, Lancashire, BL1 1US	Telephone: 01204 522311 Fax: 01204 392808 Website: www.bolton.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Blackburn with Darwen Borough Council Town Hall, Blackburn, Lancashire, BB1 7DY	Telephone: 01254 585585 Fax: 01254 680870 Website: www.blackburn.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



Index Map

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

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

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

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

A selection of organisations who provide data within this report:



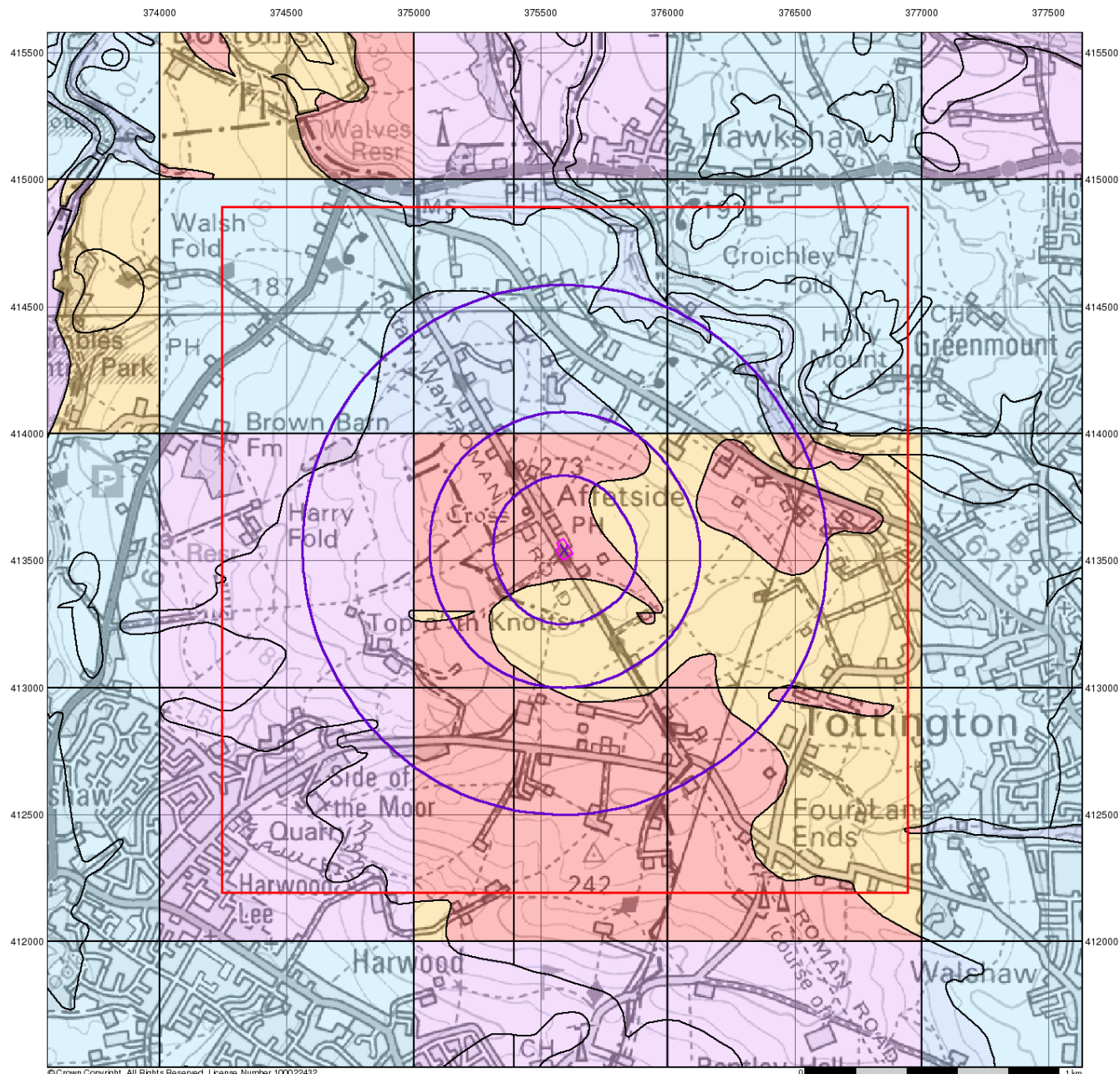
Envirocheck reports are compiled from 136 different sources of data.

Client Details
Ms S Ltd, Soiltechnics, Cedar Barn, White Lodge, Walgrave, Northampton, NN6 9PY

Order Details
Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details
, 38, Watling Street, Affetside, Bury, BL8 3QW

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<http://www.landmarkinfo.co.uk/Terms/Show/515>



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0 1 km

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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

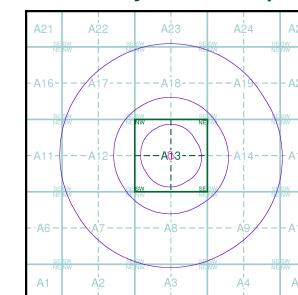
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

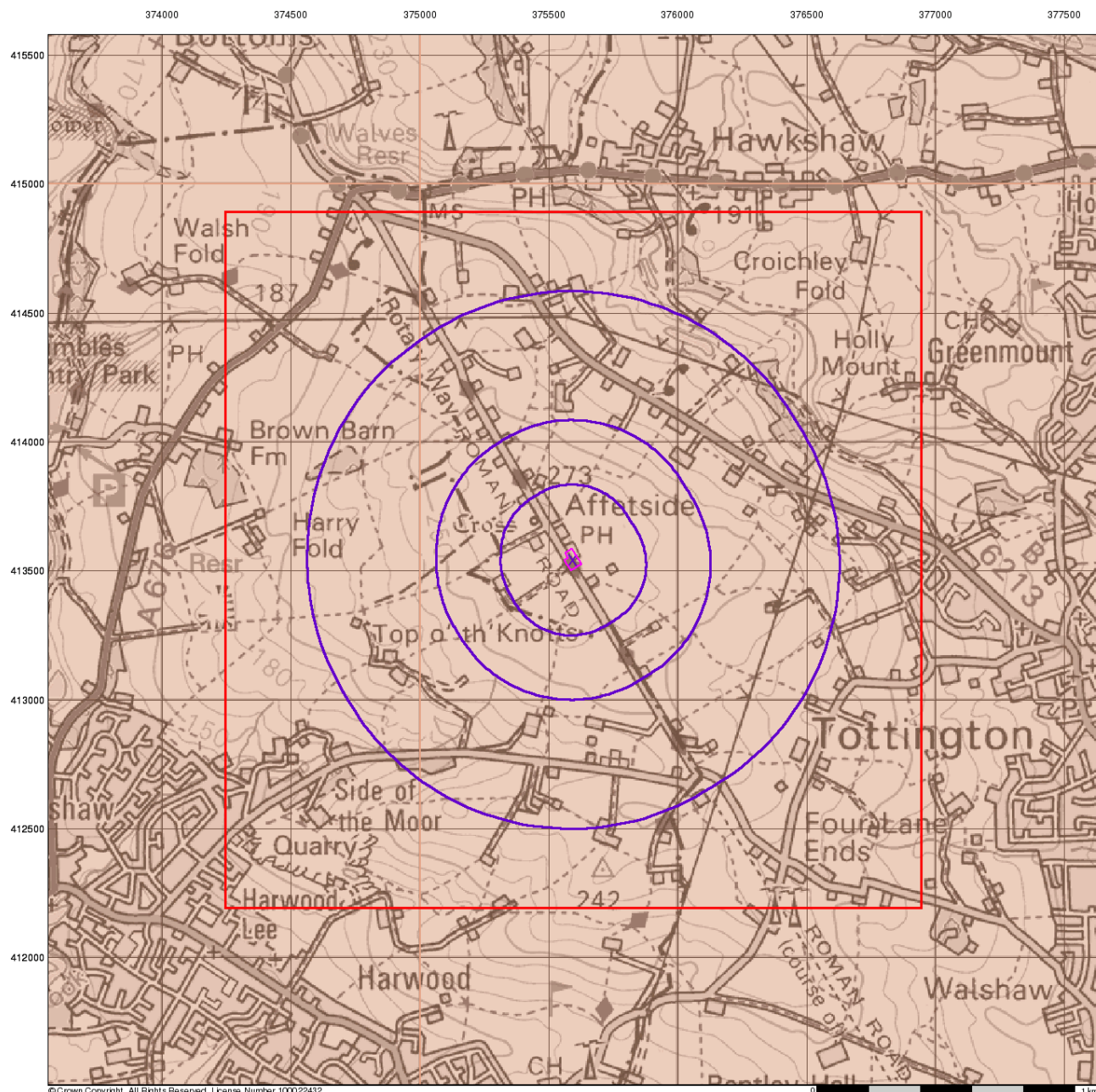
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 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

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Bedrock Aquifer Designation

General

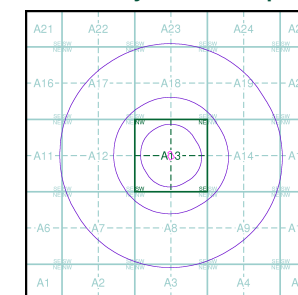
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

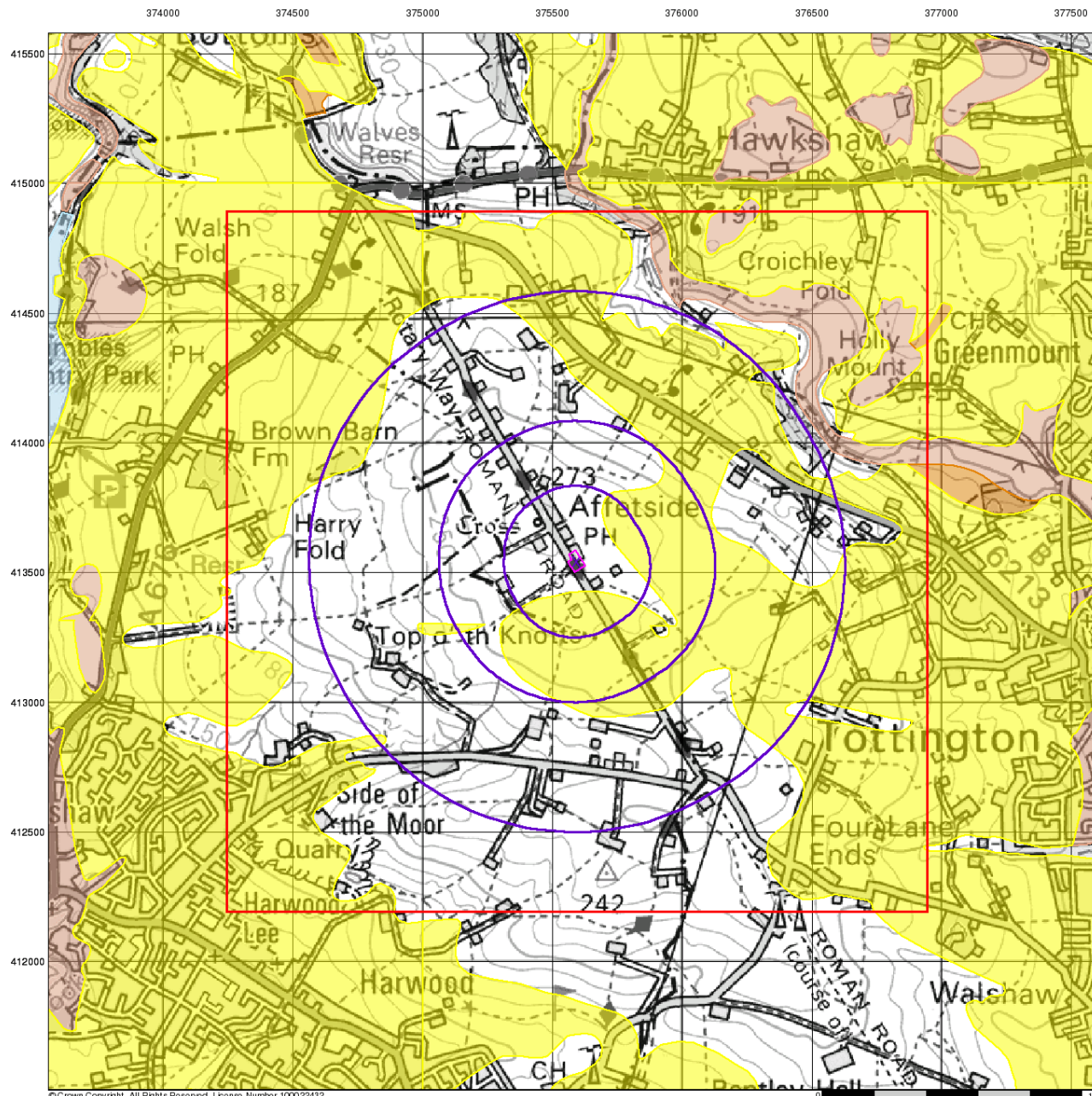
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Superficial Aquifer Designation

General

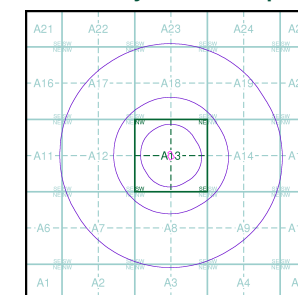
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

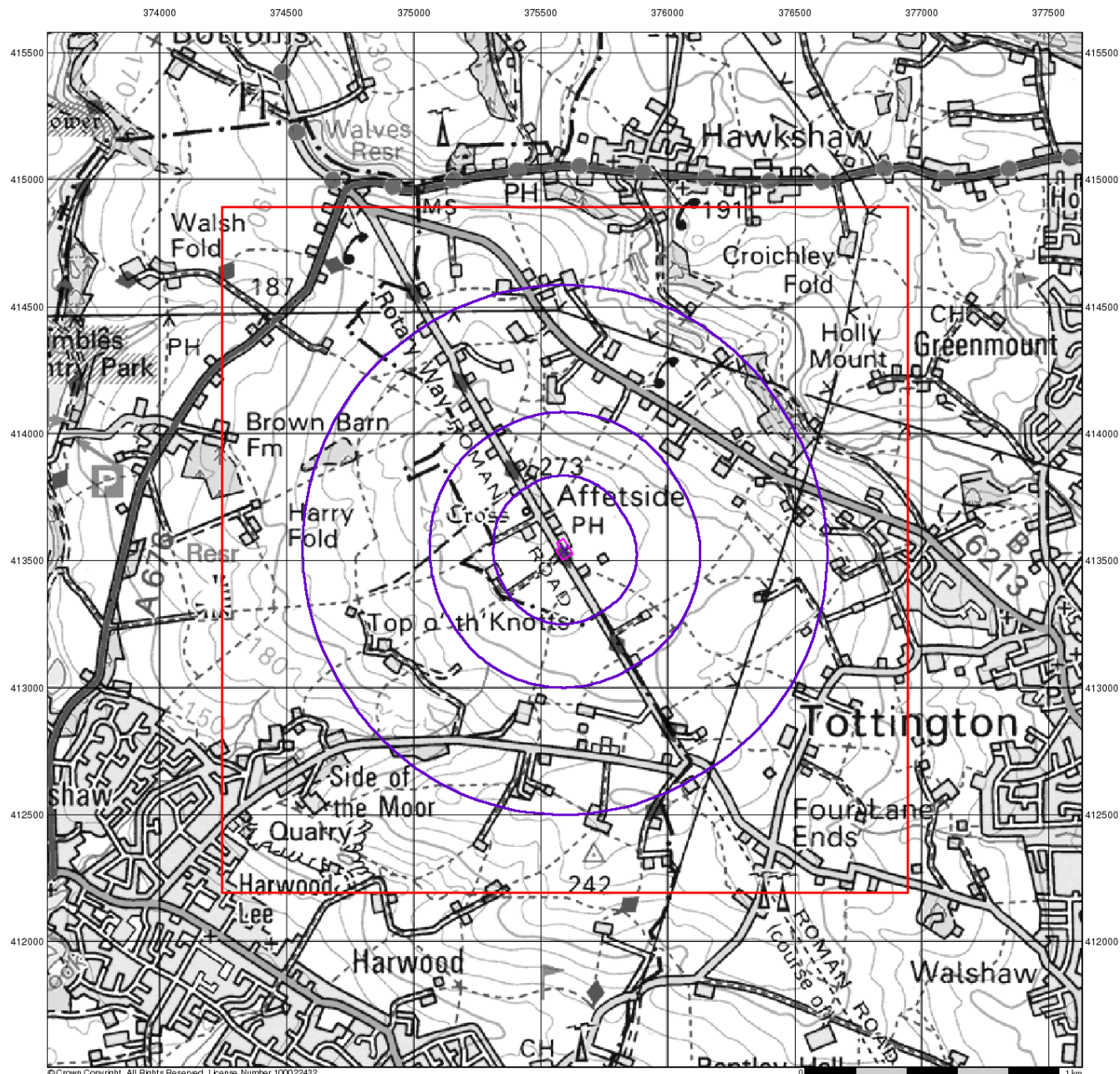
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Source Protection Zones

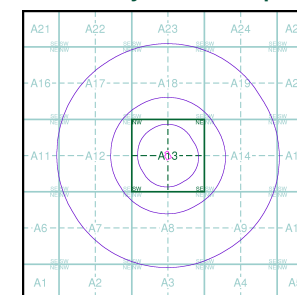
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

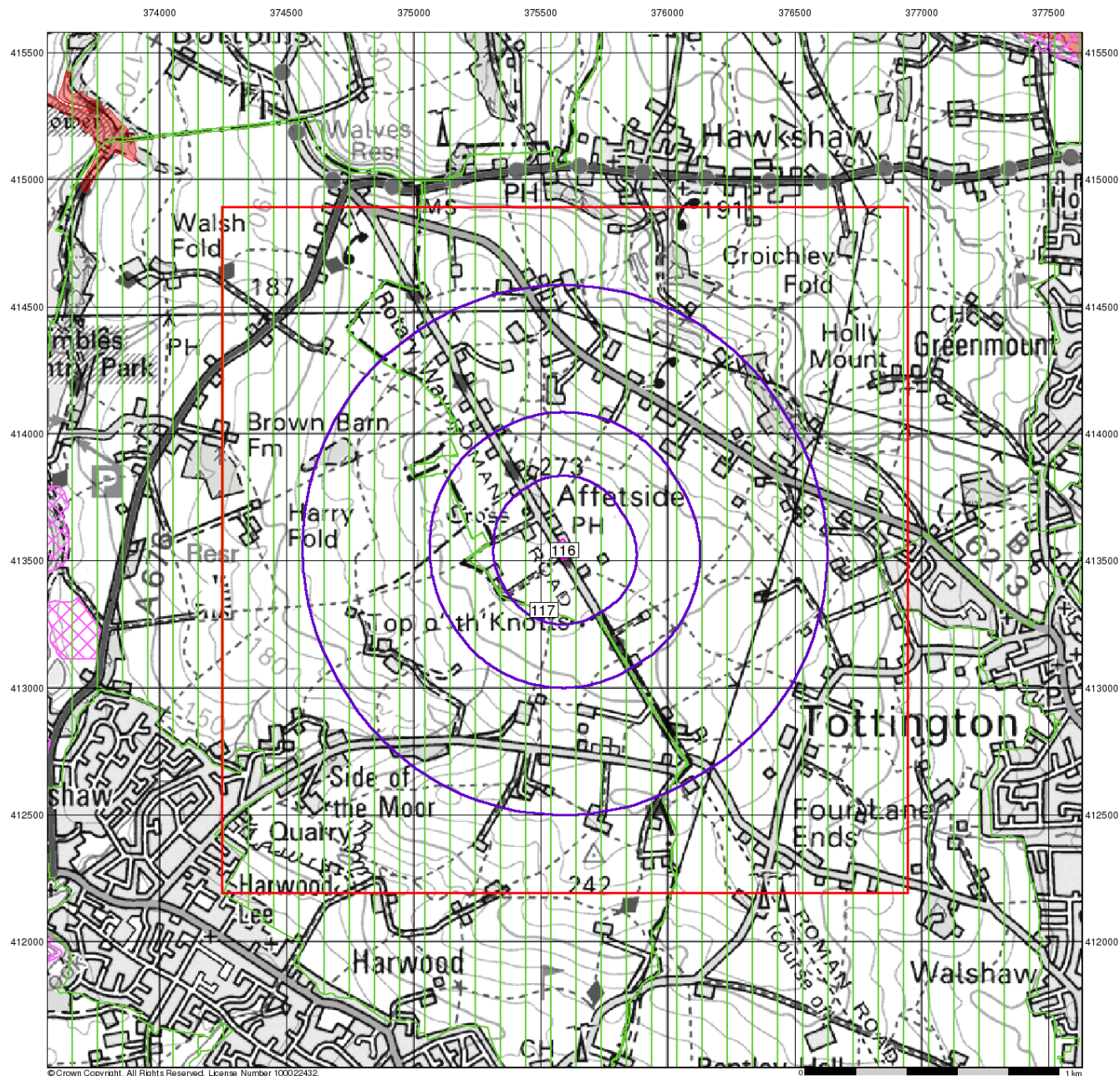
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Sensitive Land Uses

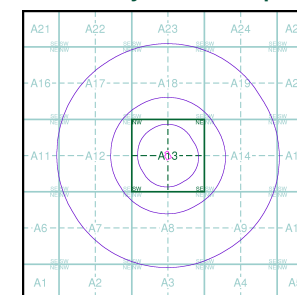
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

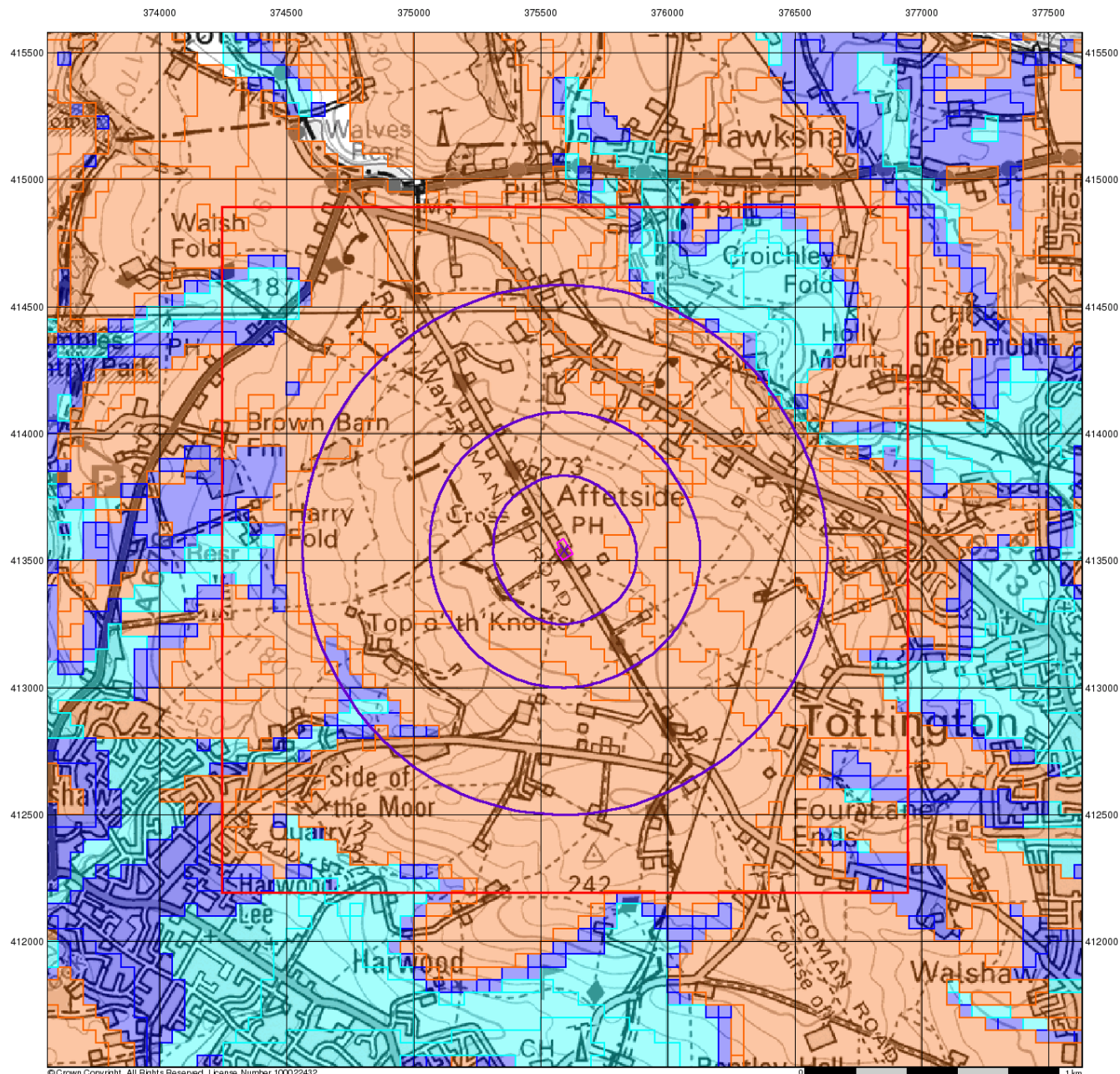
Order Number: 305570369_1_1
 Customer Ref: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

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BGS Flood GFS Data

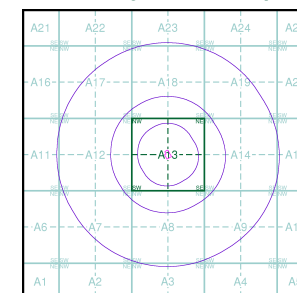
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 305570369_1_1
 Customer Ref: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Landmark
 INFORMATION GROUP

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

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	SLIP	Landslide Deposit	Unknown/Unclassified Entry	Not Supplied - Quaternary

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFS3D	Glaciofluvial Sheet Deposits, 3, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFS2D	Glaciofluvial Sheet Deposits, 2, Devensian	Sand and Gravel	Not Supplied - Devensian
	HEAD	Head	Diamicton	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Not Supplied - Quaternary
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	HER	Helpet Edge Rock	Sandstone	Not Supplied - Westphalian
	GAS	Great Arc Sandstone	Sandstone	Not Supplied - Westphalian
	GNR	Ganister Rock	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	WH	Woodhead Hill Rock	Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ON	Ousel Nest Grit	Sandstone	Not Supplied - Westphalian
	MF	Margery Flags	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	ROSSE	Rosendale Formation	Mudstone and Siltstone	Not Supplied - Namurian
	UH	Upper Haslingden Flags	Sandstone	Not Supplied - Namurian
	RR	Rough Rock	Sandstone	Not Supplied - Namurian
	BBS	Brooksbottoms Grit	Sandstone	Not Supplied - Namurian
	MARSD	Marsden Formation	Mudstone and Siltstone	Not Supplied - Namurian
	HLBG	Holcombe Brook Grit	Sandstone	Not Supplied - Namurian
		Faults		
		Rock Segments		

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Geology 1:50,000 Maps

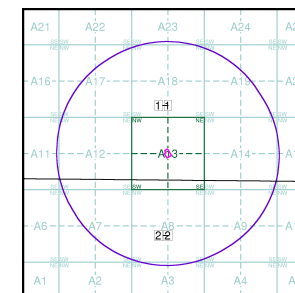
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	2	Map ID:	1
Map Sheet No:	085	Map Sheet No:	076
Map Name:	Manchester	Map Name:	Rochdale
Map Date:	2010	Map Date:	2008
Bedrock Geology:	Available	Bedrock Geology:	Available
Superficial Geology:	Not Available	Superficial Geology:	Available
Artificial Geology:	Not Available	Artificial Geology:	Available
Faults:	Not Supplied	Faults:	Not Supplied
Landslip:	Not Available	Landslip:	Available
Rock Segments:	Not Supplied	Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

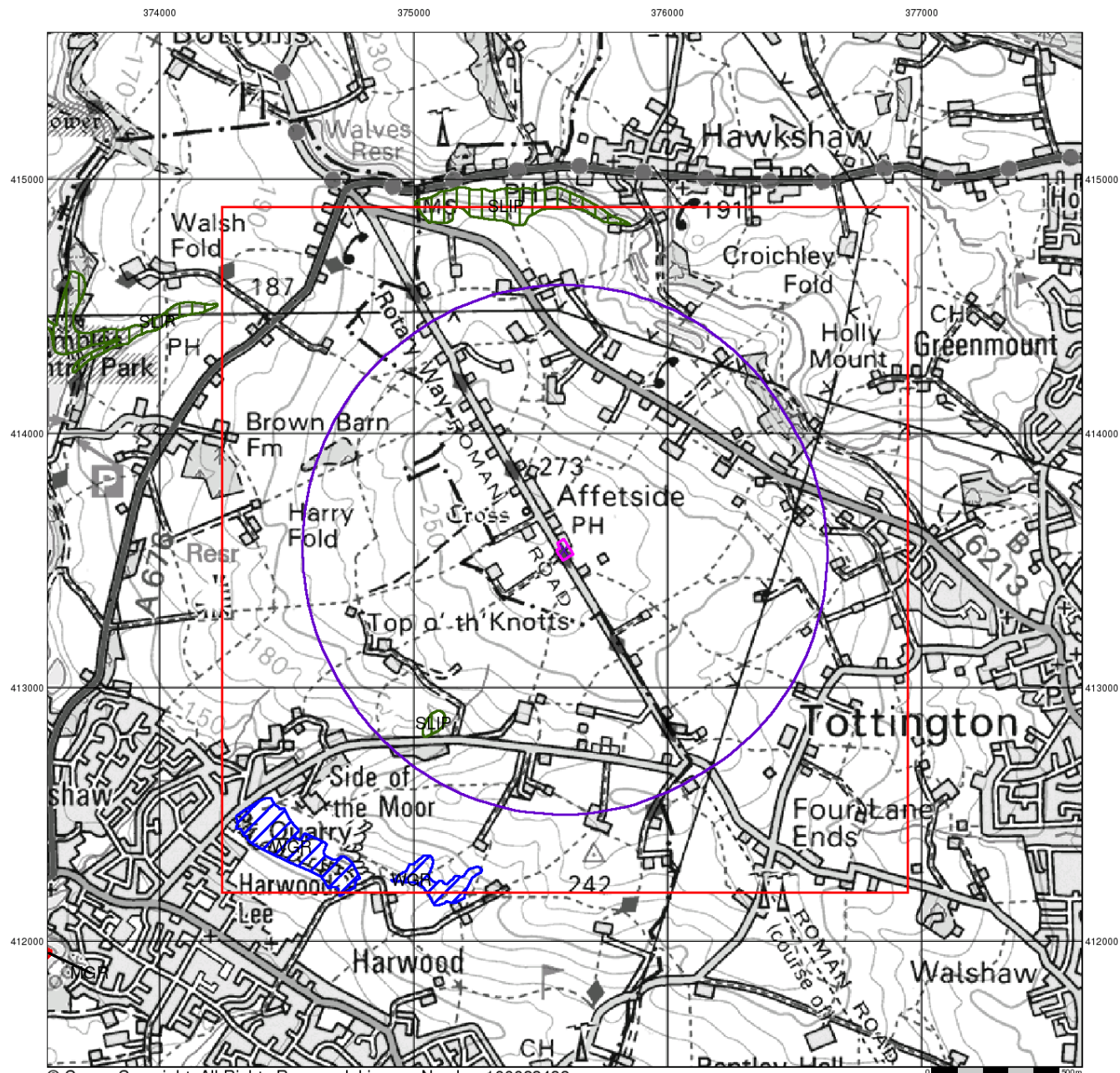
Order Number: 305570369_1_1
 Customer Reference: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details:

, 38, Watling Street, Affetside, Bury, BL8 3QW

Landmark
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Artificial Ground and Landslip

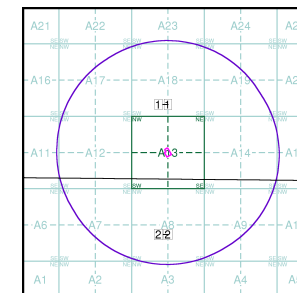
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 305570369_1_1
 Customer Reference: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details:

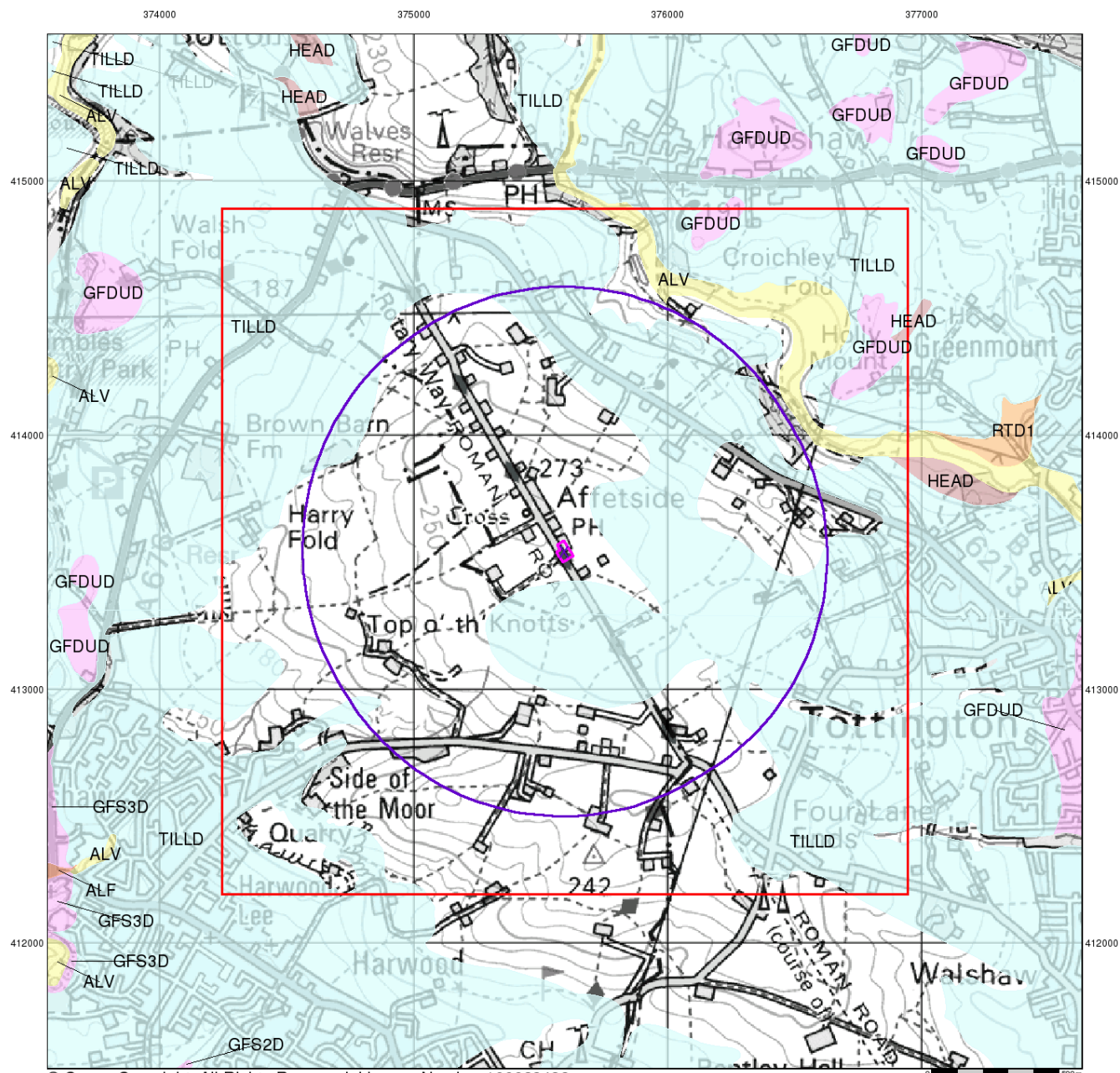
, 38, Watling Street, Affetside, Bury, BL8 3QW

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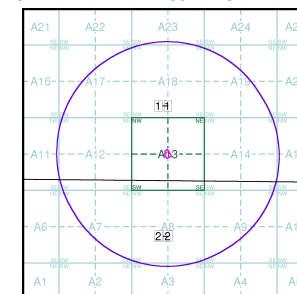
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

Order Number:	305570369_1_1
Customer Reference:	STV5920
National Grid Reference:	375590, 413540
Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

Site Details:

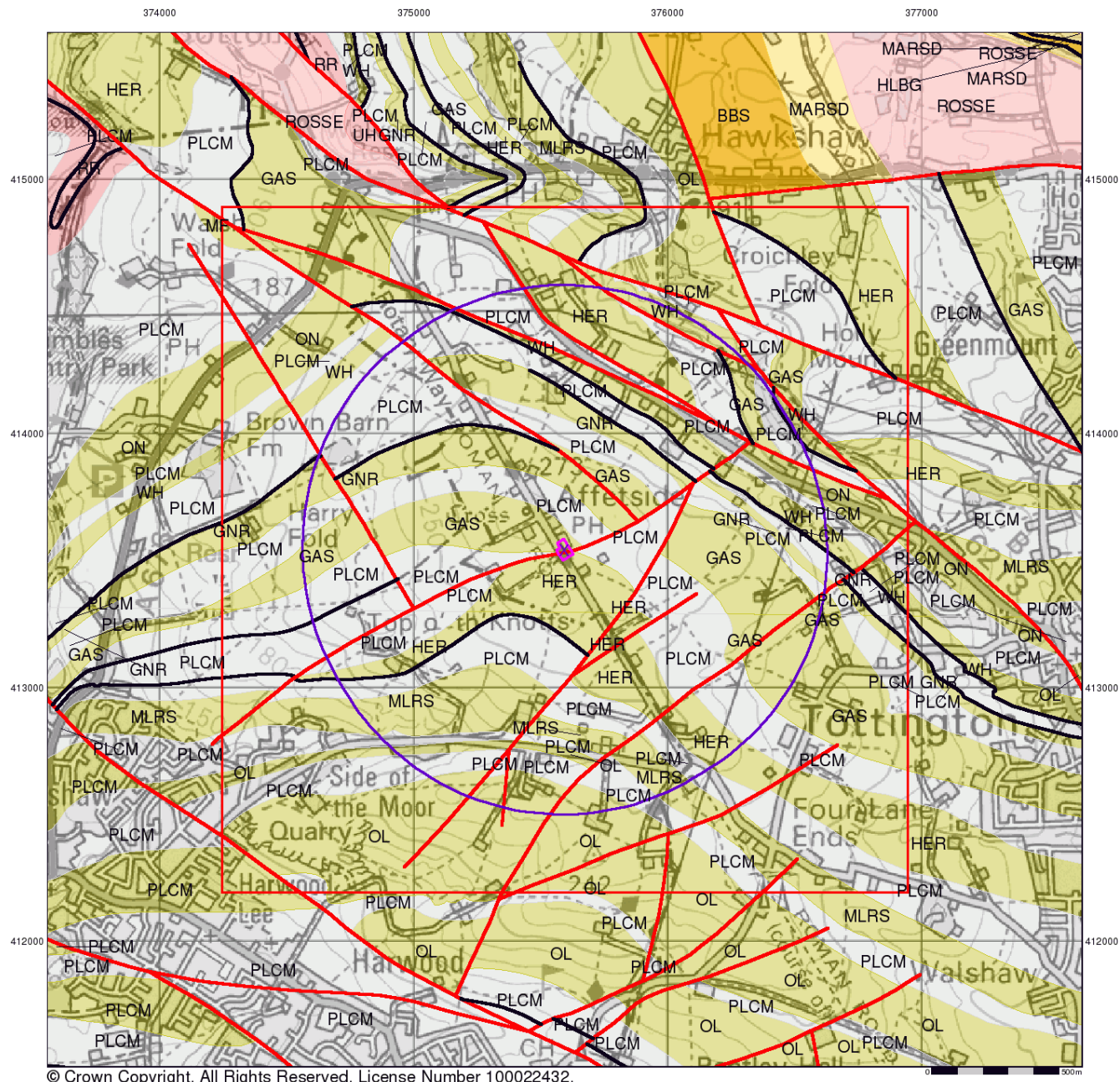
, 38, Watling Street, Affetside, Bury, BL8 3QW

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Bedrock and Faults

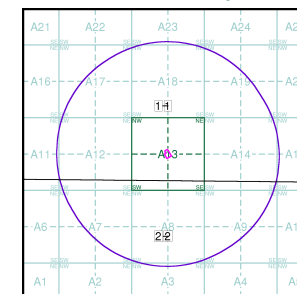
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 305570369_1_1
Customer Reference: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details:

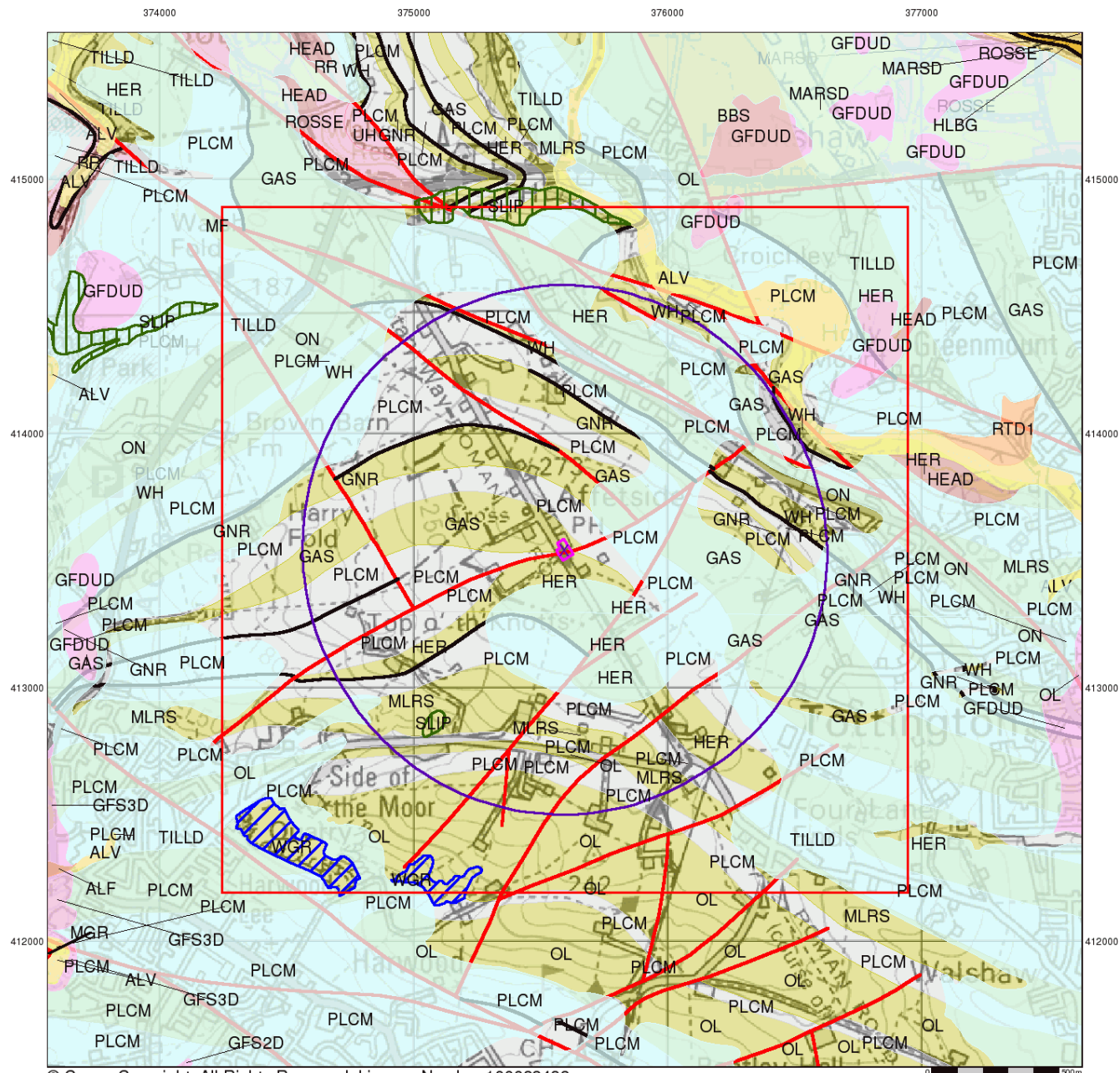
, 38, Watling Street, Afftside, Bury, BL8 3QW

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Combined Surface Geology

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

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

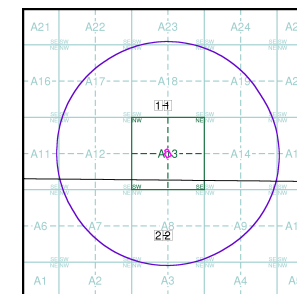
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

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Ordinance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information

	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	507 	Altitude at Trig. Station
<i>B.M. 325-9</i> 	Bench Mark	342 +	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
Co. Boro. Bdy.	County Borough Boundary (England)
Co. Burgh Bdy.	County Burgh Boundary (Scotland)

<i>B.P.B.S.</i>	Boundary Post or Stone	<i>P.C.B.</i>	Police Call Box
<i>B.R.</i>	Bridle Road	<i>P.</i>	Pump
<i>E.P.</i>	Electricity Pylon	<i>S.P.</i>	Signal Post
<i>F.B.</i>	Foot Bridge	<i>Sl.</i>	Sluice
<i>F.P.</i>	Foot Path	<i>Sp.</i>	Spring
<i>G.P.</i>	Guide Post or Board	<i>T.C.B.</i>	Telephone Call Box
<i>M.S.</i>	Mile Stone	<i>Tr.</i>	Trough
<i>M.P.M.R.</i>	Mooring Post or Ring	<i>W.</i>	Well

	or		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

	Cliff		Slopes		Top
	Rock		Rock (scattered)		Boulders (scattered)
	Boulders		Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Non-Coniferous Trees (not surveyed)		Coniferous Tree (surveyed)
	Coniferous Tree (surveyed)		Coniferous Trees (not surveyed)		Bracken
	Orchard Tree		Scrub		Marsh, Saltings
	Coppice, Osier		Reeds		Culvert
	Rough		Heath		

 Direction of water flow
  Triangulation Station
  Antiquity (site of)

 Electricity Transmission Line
  Electricity Pylon

BM 231.60m Bench Mark Buildings with Building Seed Glazed Roof Building

• • • • •	Civil parish/community boundary
— —	District boundary
— • — —	County boundary
o	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
Dismsd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Page
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1910	3
Lancashire And Furness	1:2,500	1930	4
Ordnance Survey Plan	1:2,500	1966	5
Large-Scale National Grid Data	1:2,500	1992	6
Large-Scale National Grid Data	1:2,500	1993	7
Historical Aerial Photography	1:2,500	2001	8

A 5x5 grid of points labeled A1 through A25. The grid is defined by dashed lines. A 2x2 square is highlighted with a thick black border, centered on point A13. The square's corners are at A12, A14, A16, and A18. Point A13 is also circled with a purple circle.

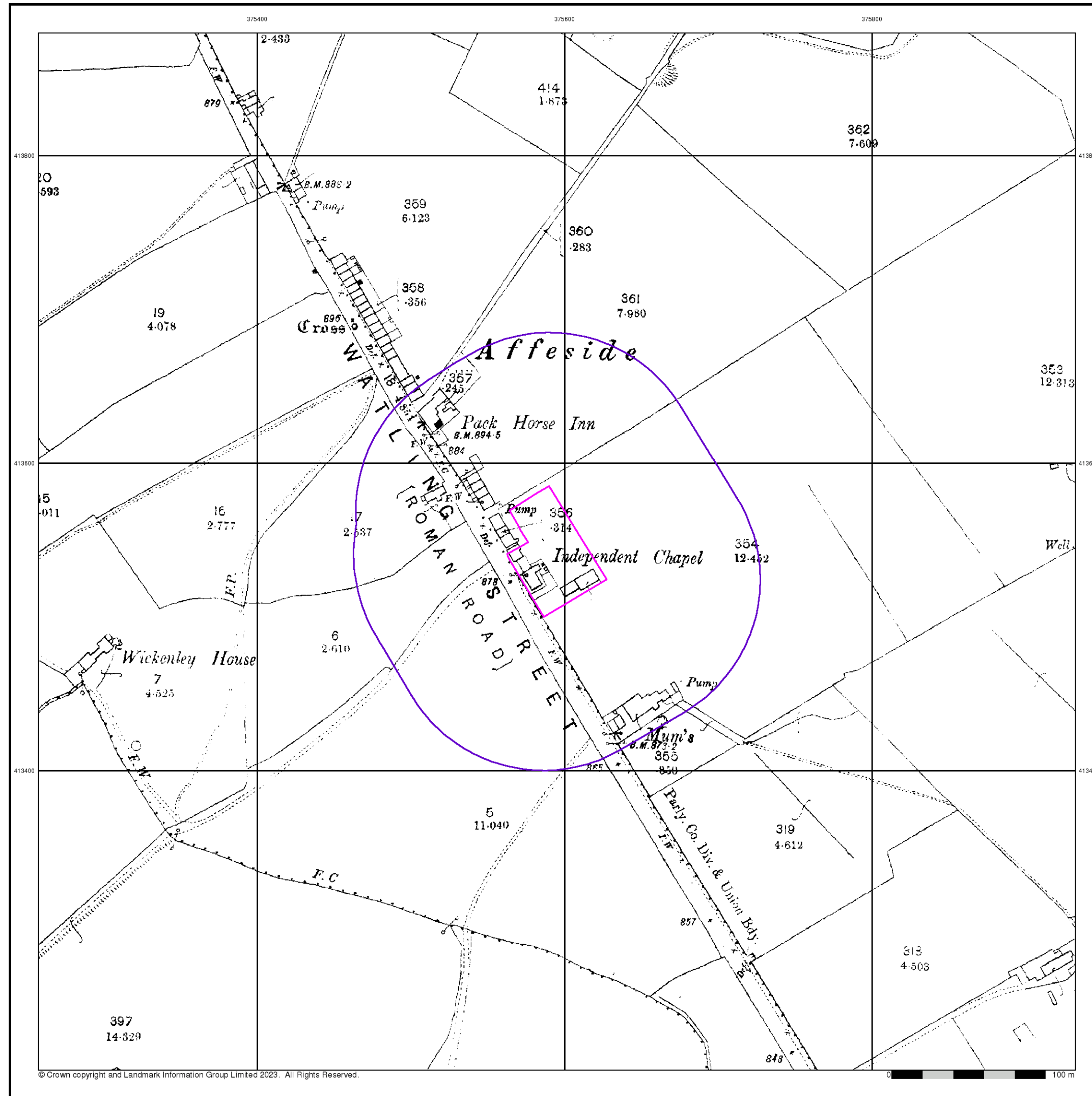


Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 100

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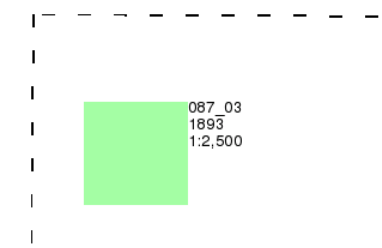
Lancashire And Furness

Published 1893

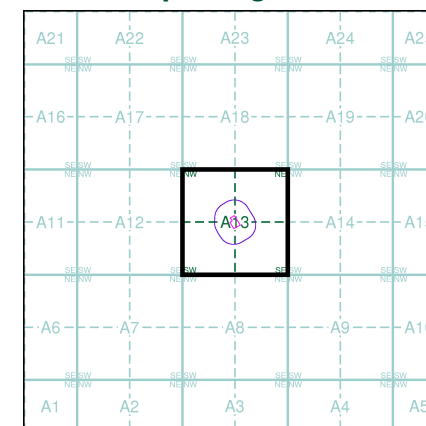
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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Slice: A
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Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

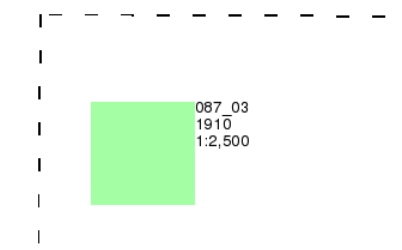
Lancashire And Furness

Published 1910

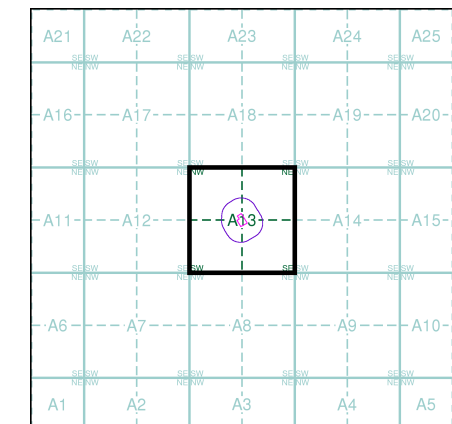
Source map scale - 1:2,500

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.

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Historical Map - Segment A13

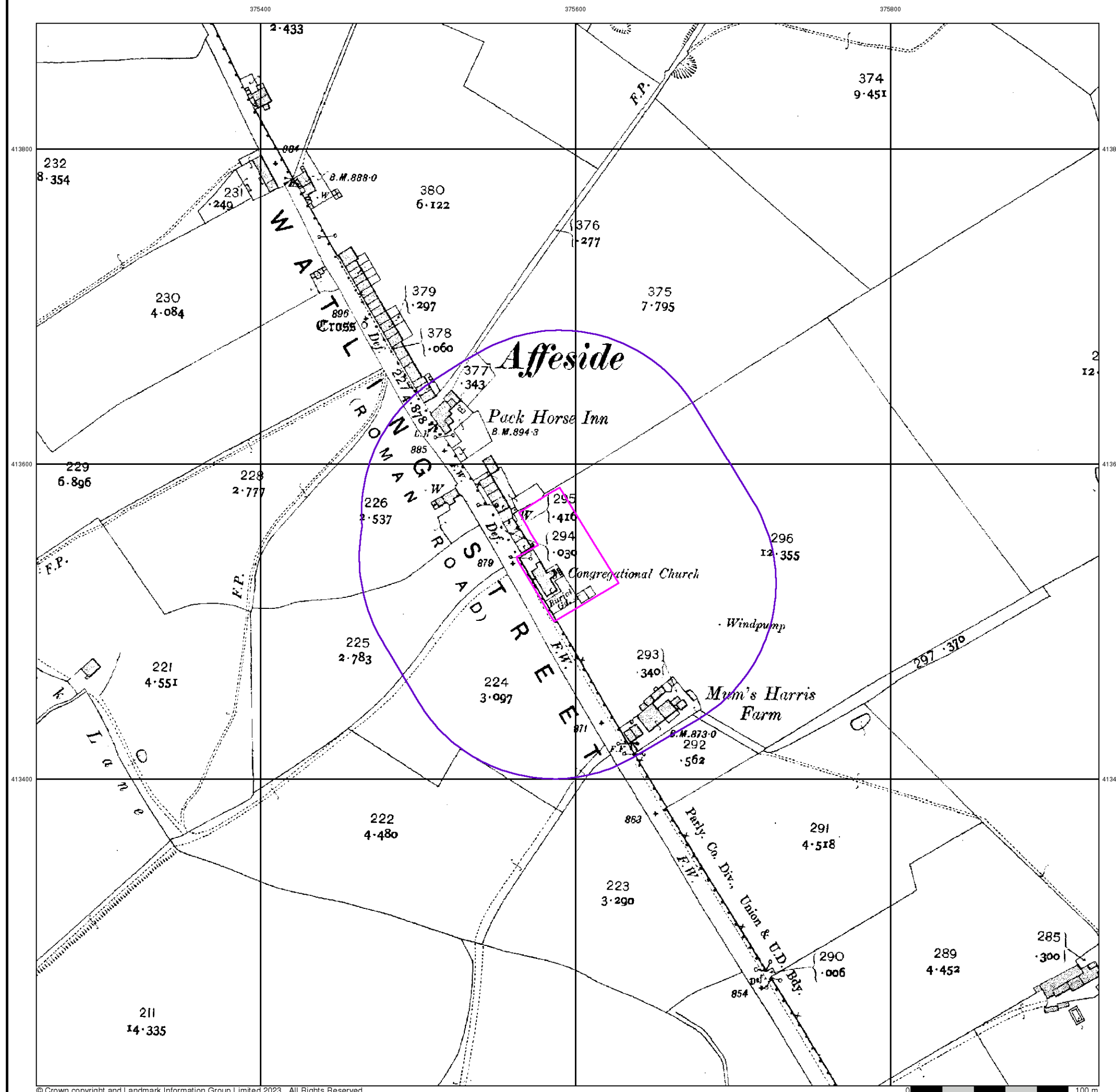


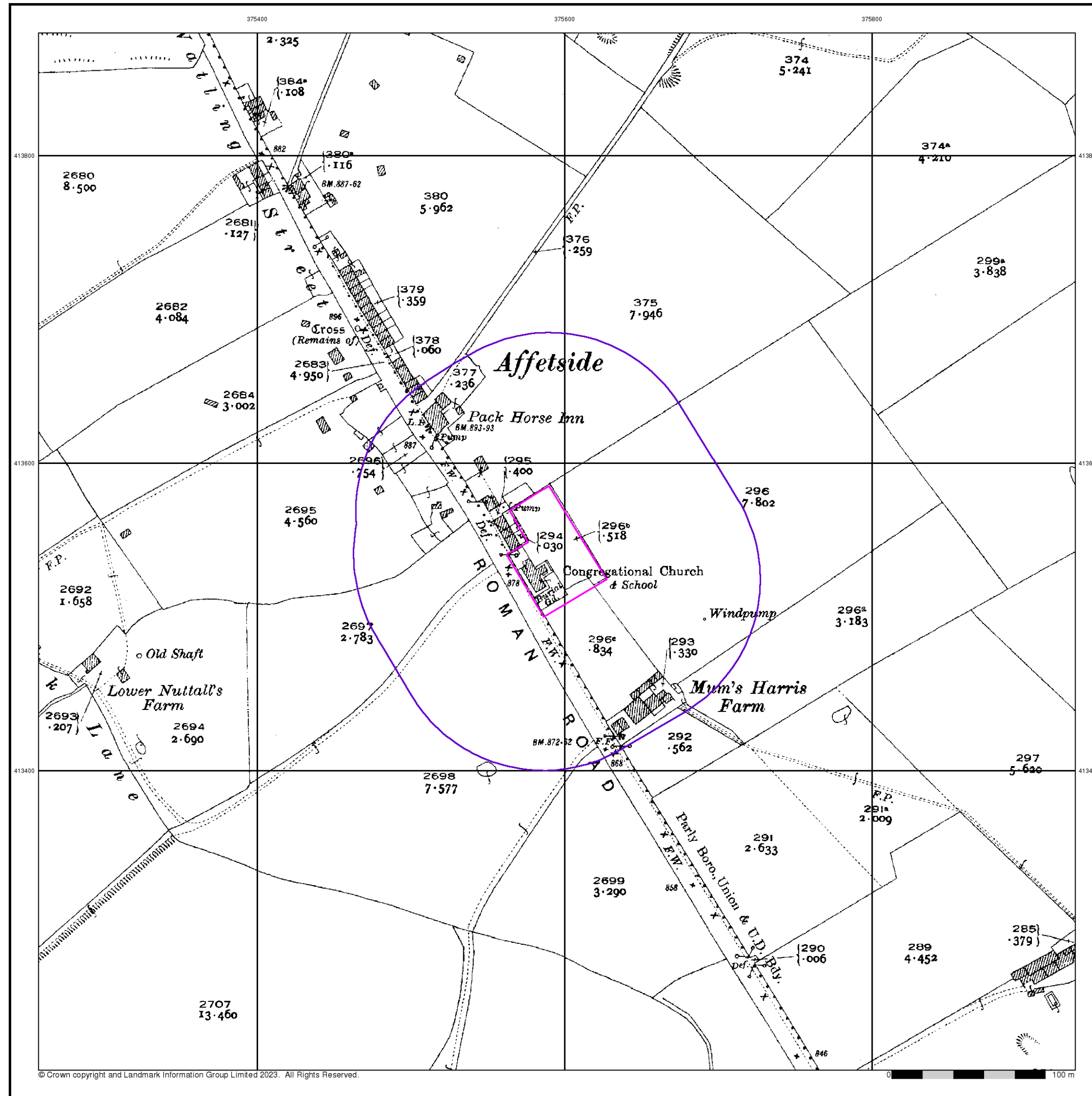
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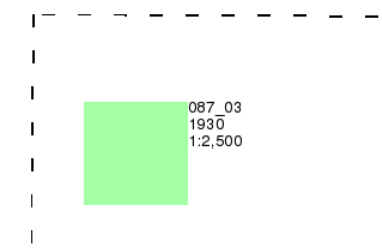
Lancashire And Furness

Published 1930

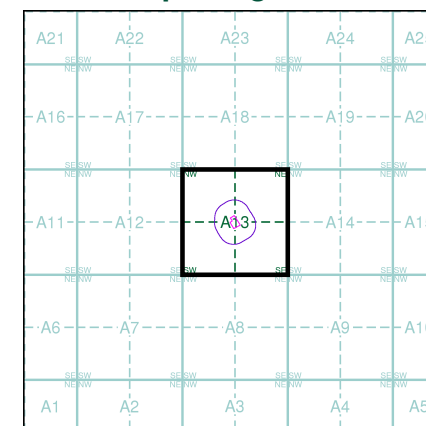
Source map scale - 1:2,500

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.

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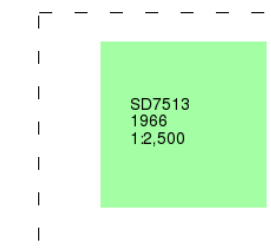
Ordnance Survey Plan

Published 1966

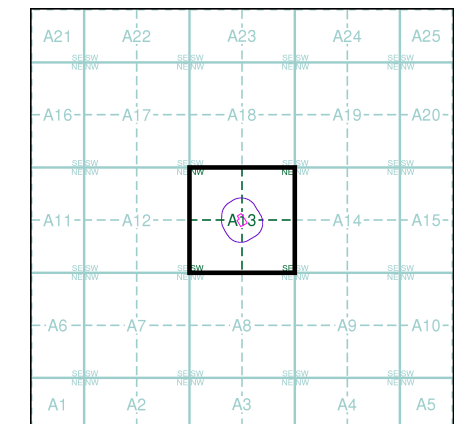
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

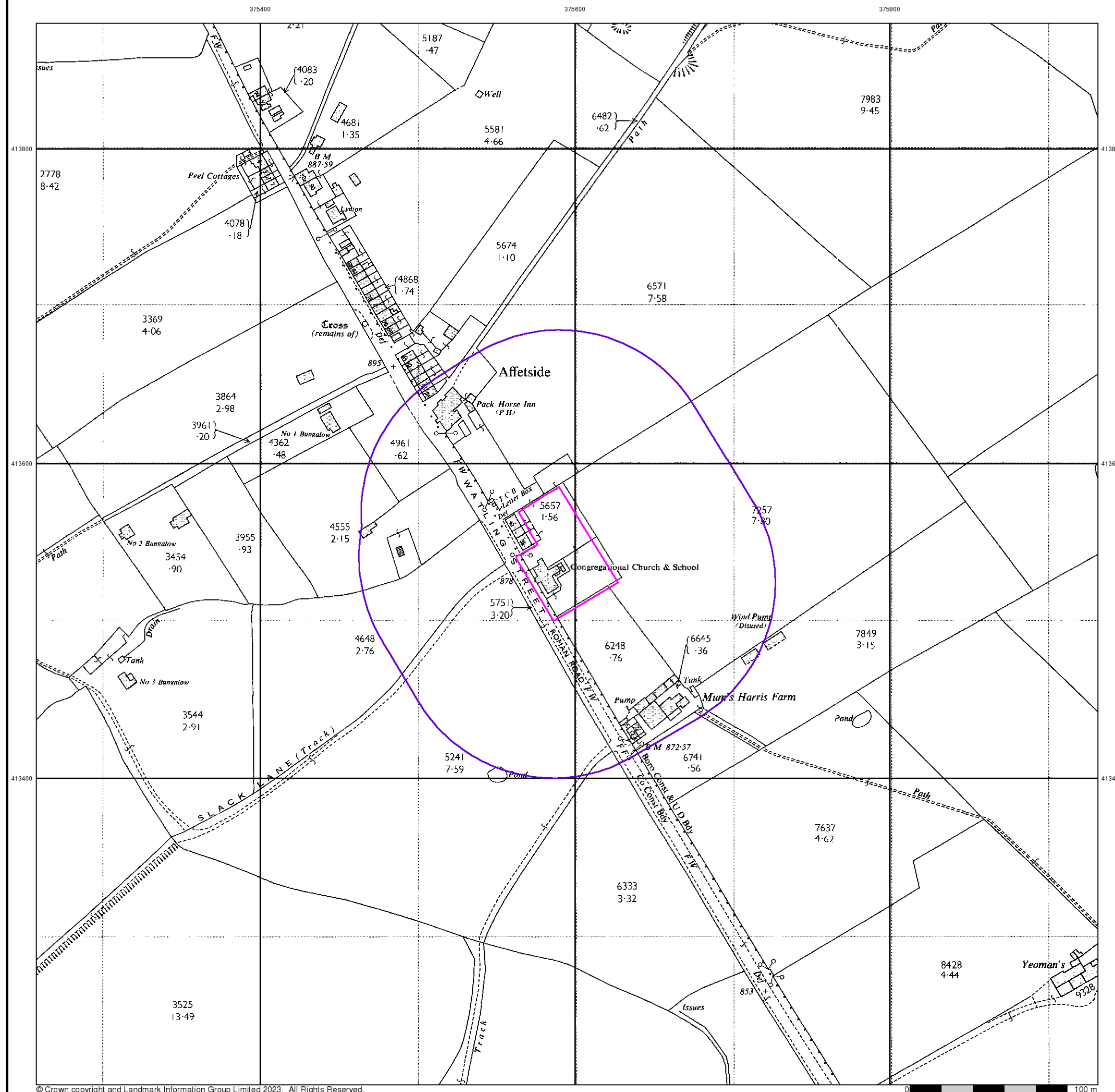


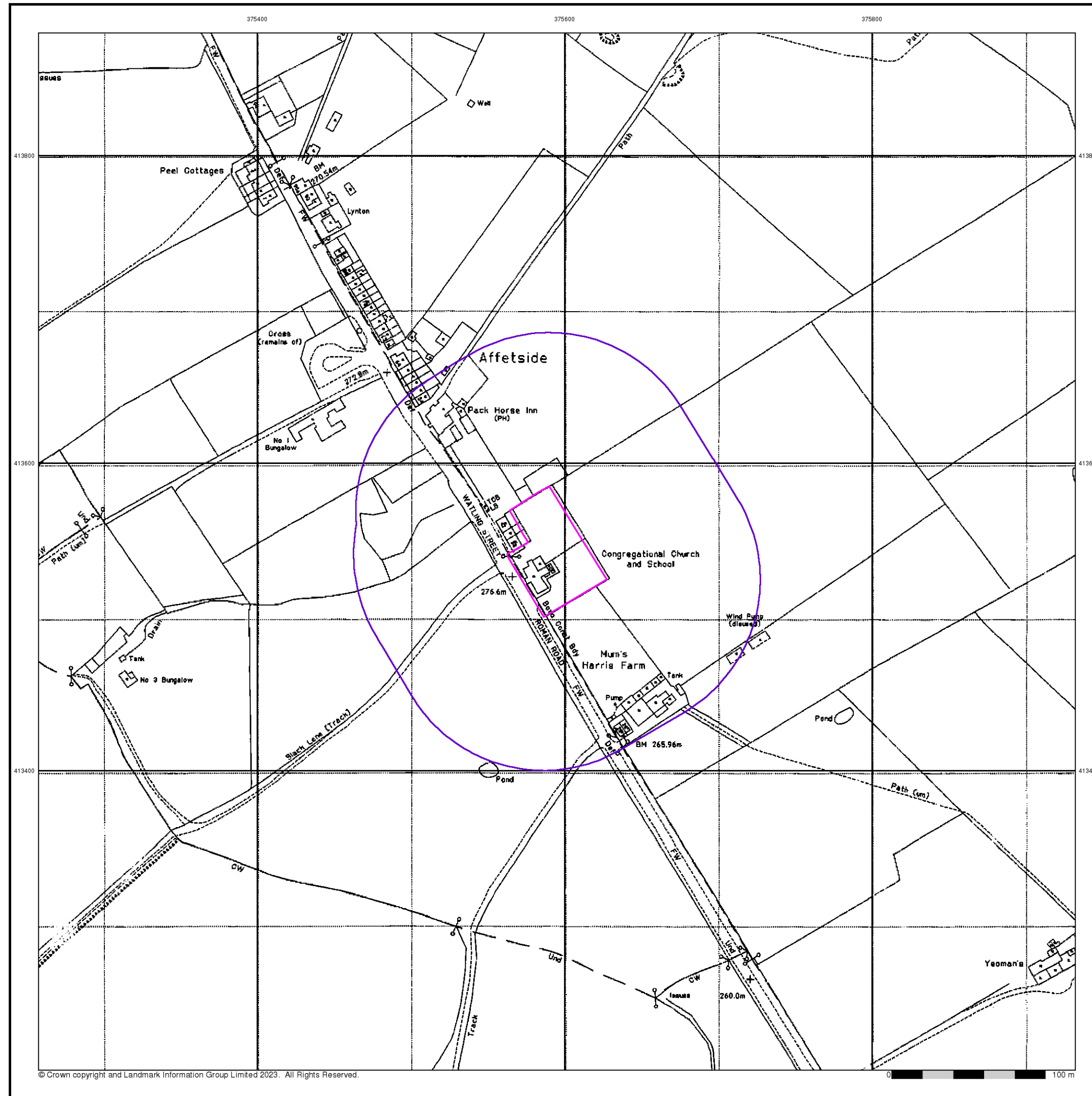
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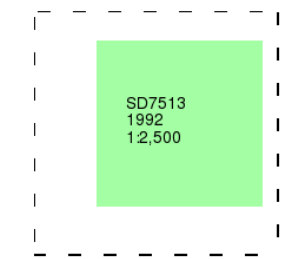
Large-Scale National Grid Data

Published 1992

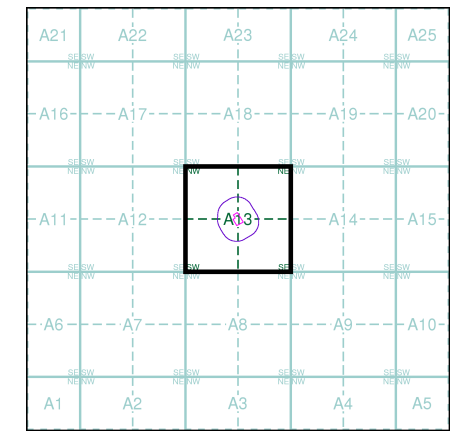
Source map scale - 1:2,500

'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

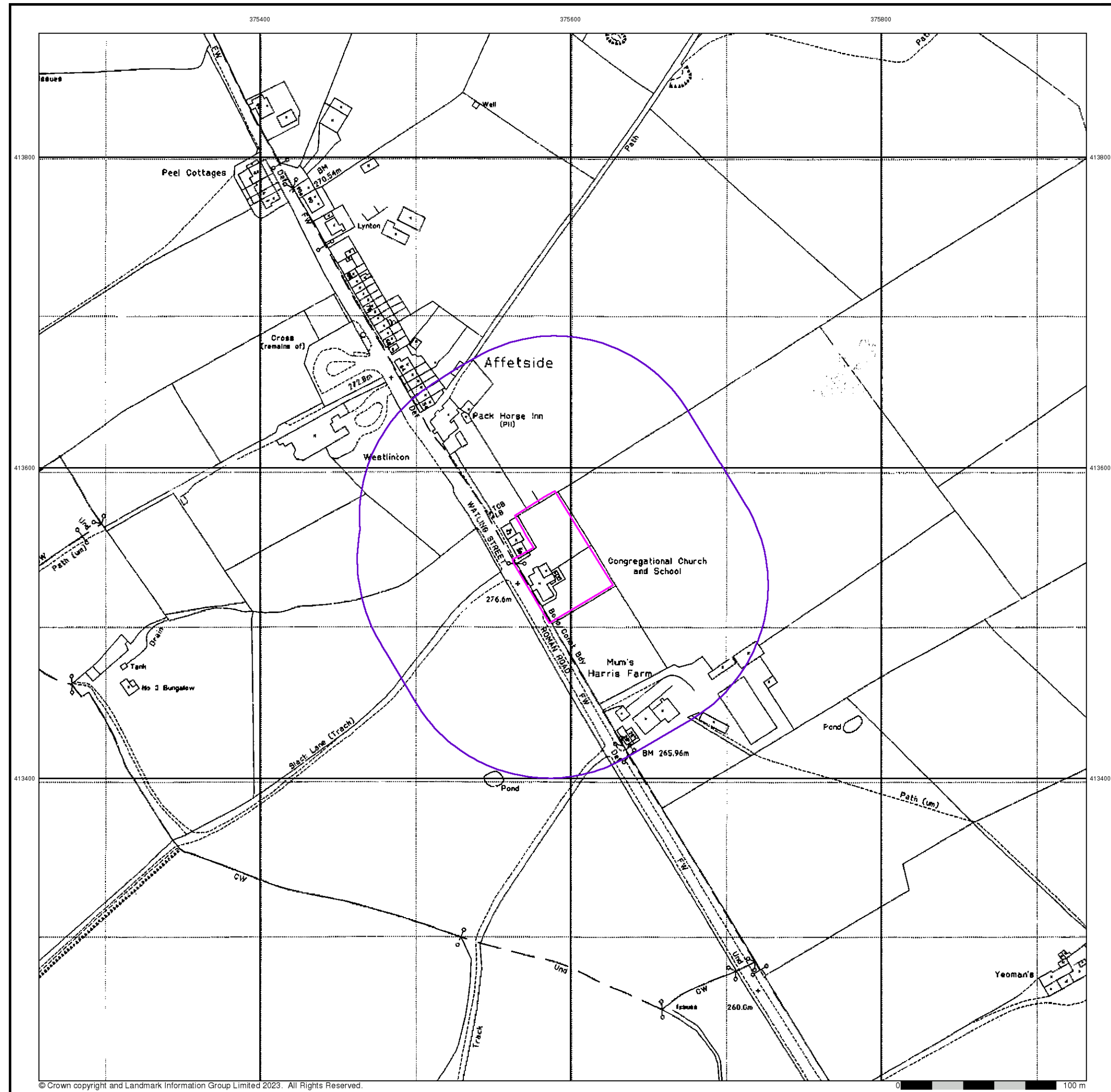


Order Details

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National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
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Site Details

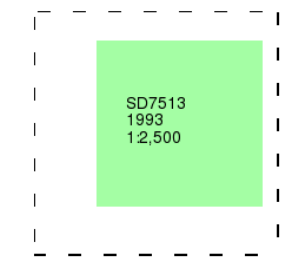
, 38, Watling Street, Affetside, Bury, BL8 3QW



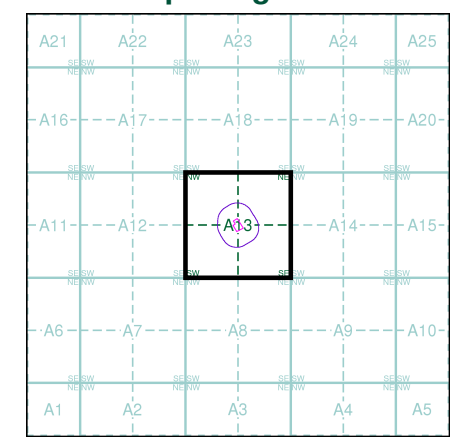
Large-Scale National Grid Data
Published 1993
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



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Site Area (Ha): 0.3
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Site Details

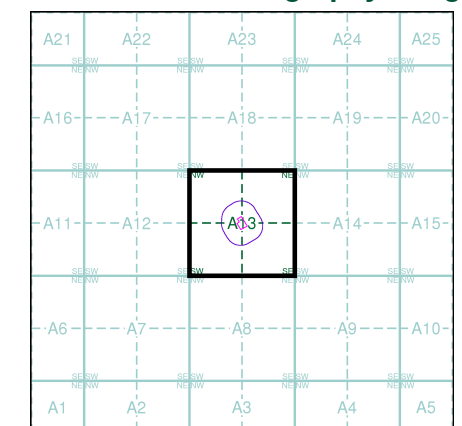
, 38, Watling Street, Affetside, Bury, BL8 3QW

Historical Aerial Photography

Published 2001

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



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, 38, Watling Street, Affetside, Bury, BL8 3QW

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS		Pol Sta
	Ch		PO
	CH		PC
	F E Sta		PH
	FB		SB
	Fn		Spr
	GP		TCB
	MP		TCP
	MS		W

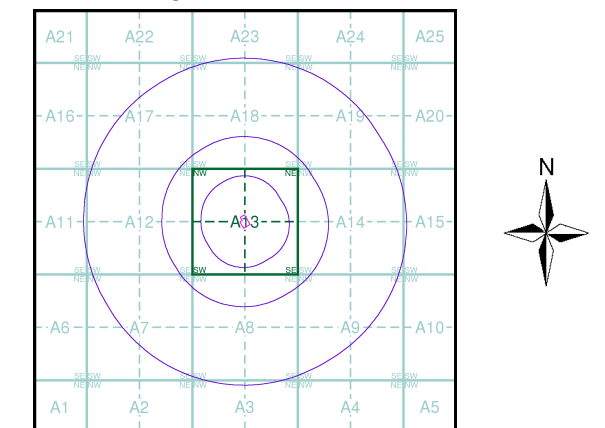
1:10,000 Raster Mapping

	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	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911 - 1912	5
Lancashire And Furness	1:10,560	1930 - 1931	6
Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1969	9
Ordnance Survey Plan	1:10,000	1974 - 1976	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1982 - 1987	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2022	15

Historical Map - Slice A



Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

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

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

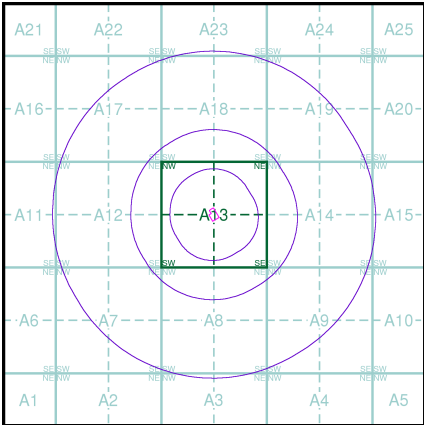
Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1911 - 1912	5
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Lancashire And Furness	1:10,560	1938 - 1939	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1969	9
Ordnance Survey Plan	1:10,000	1974 - 1976	10
Manchester	1:25,000	1975	11
Ordnance Survey Plan	1:10,000	1982 - 1987	12
10K Raster Mapping	1:10,000	1999	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2022	15

Russian Map - Slice A

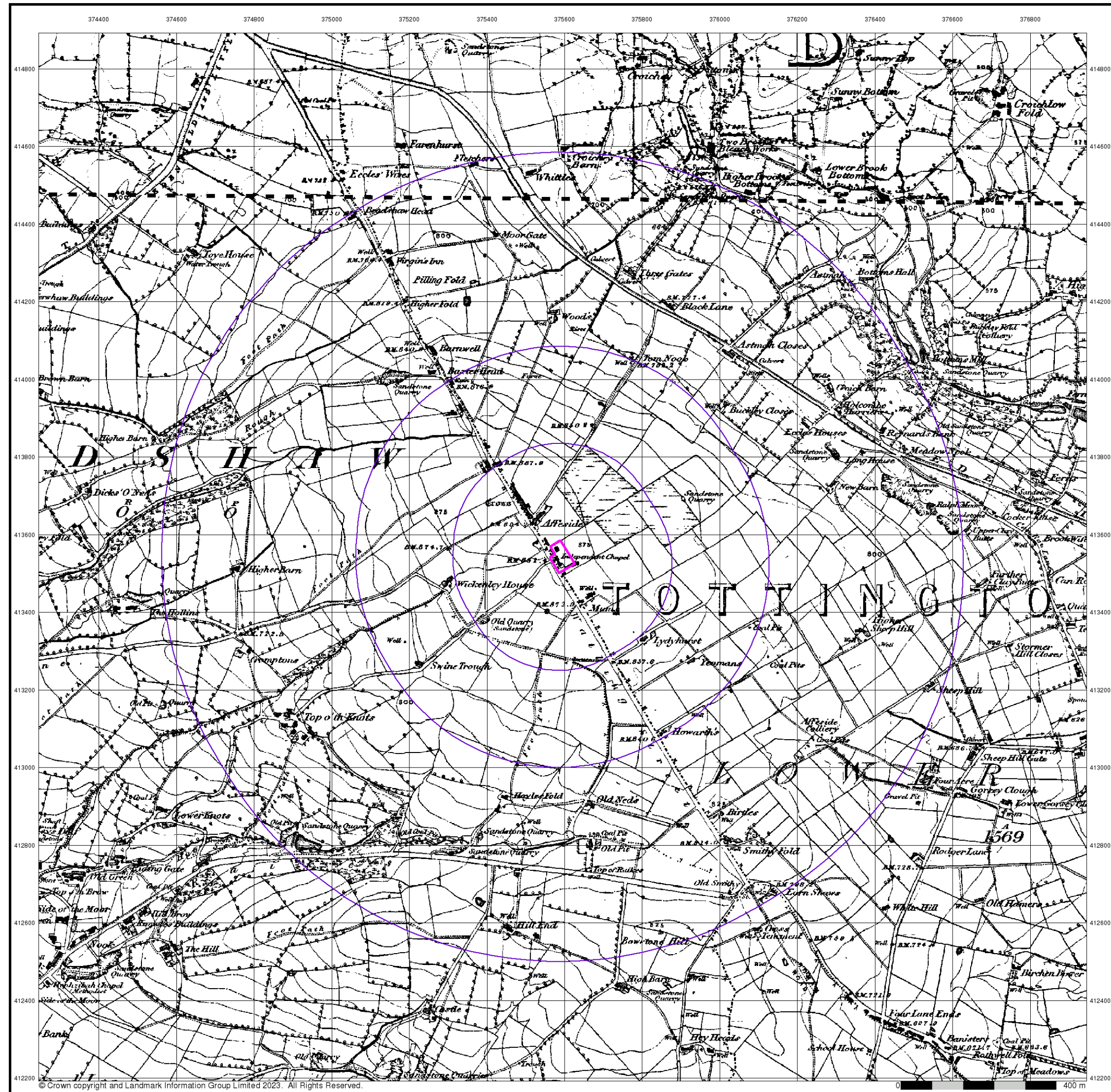


Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

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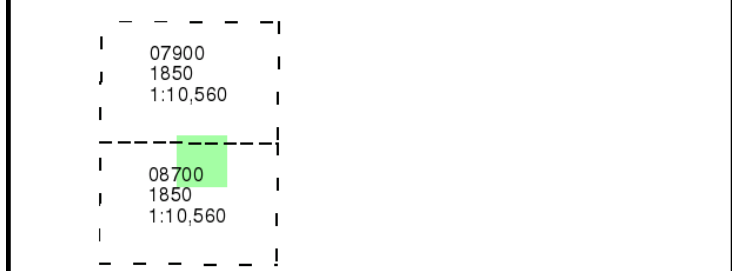
Lancashire And Furness

Published 1850

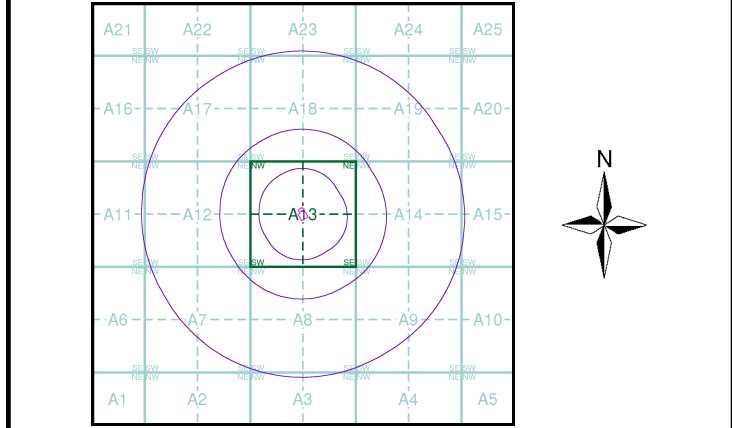
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



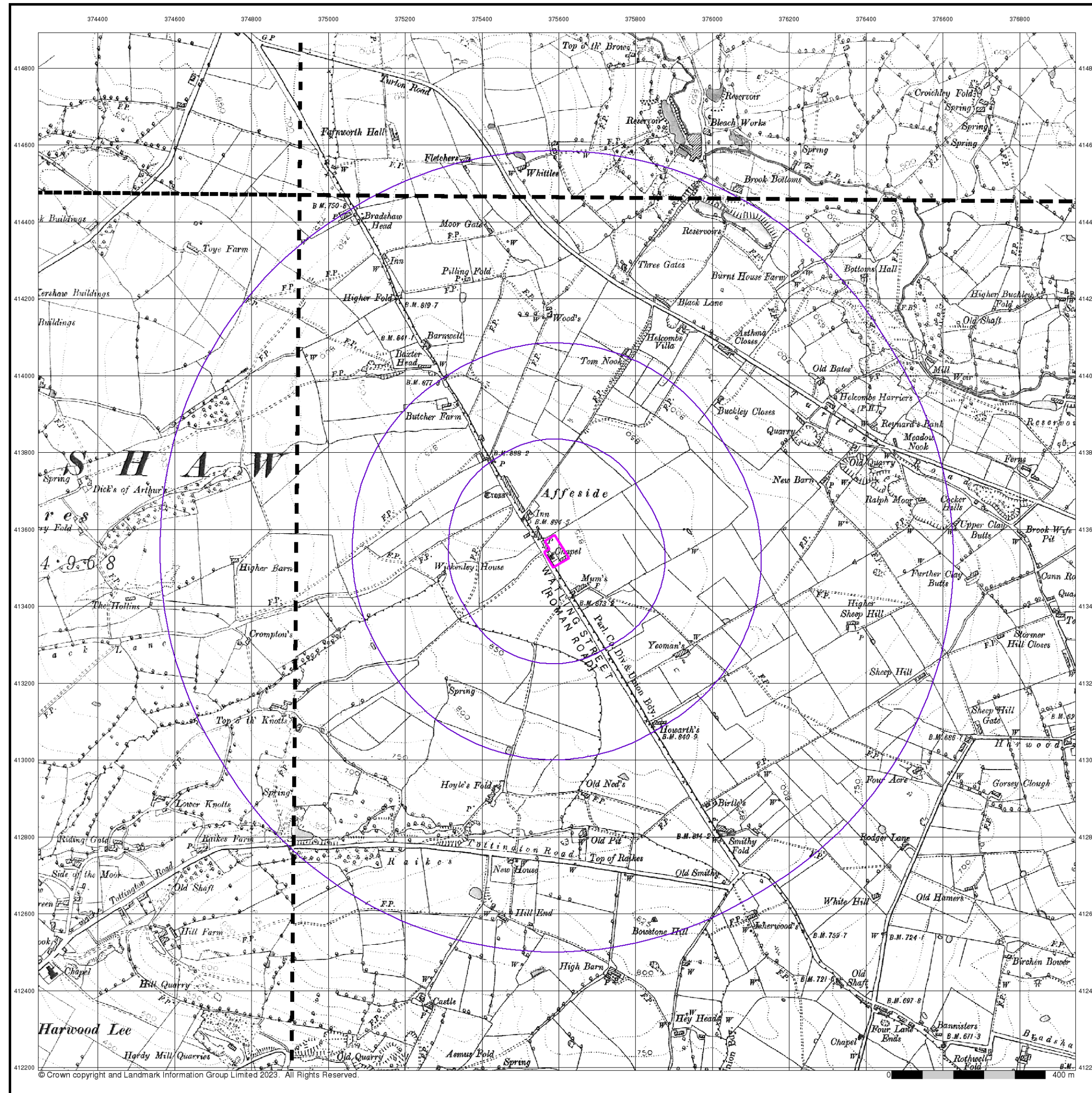
Historical Map - Slice A



Order Details	
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Slice:	A
Site Area (Ha):	0.3
Search Buffer (m):	1000

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Lancashire And Furness

Published 1894

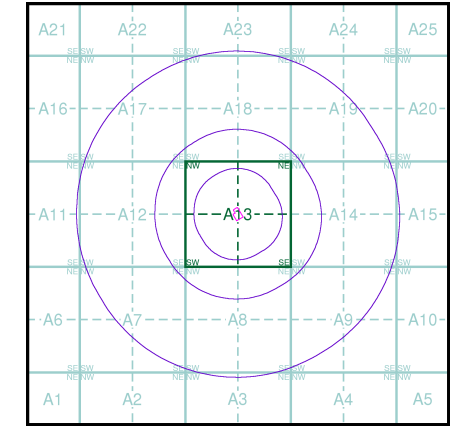
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

079SW 1894 1:10,560	079SE 1894 1:10,560
087NW 1894 1:10,560	087NE 1894 1:10,560

Historical Map - Slice A



Order Details

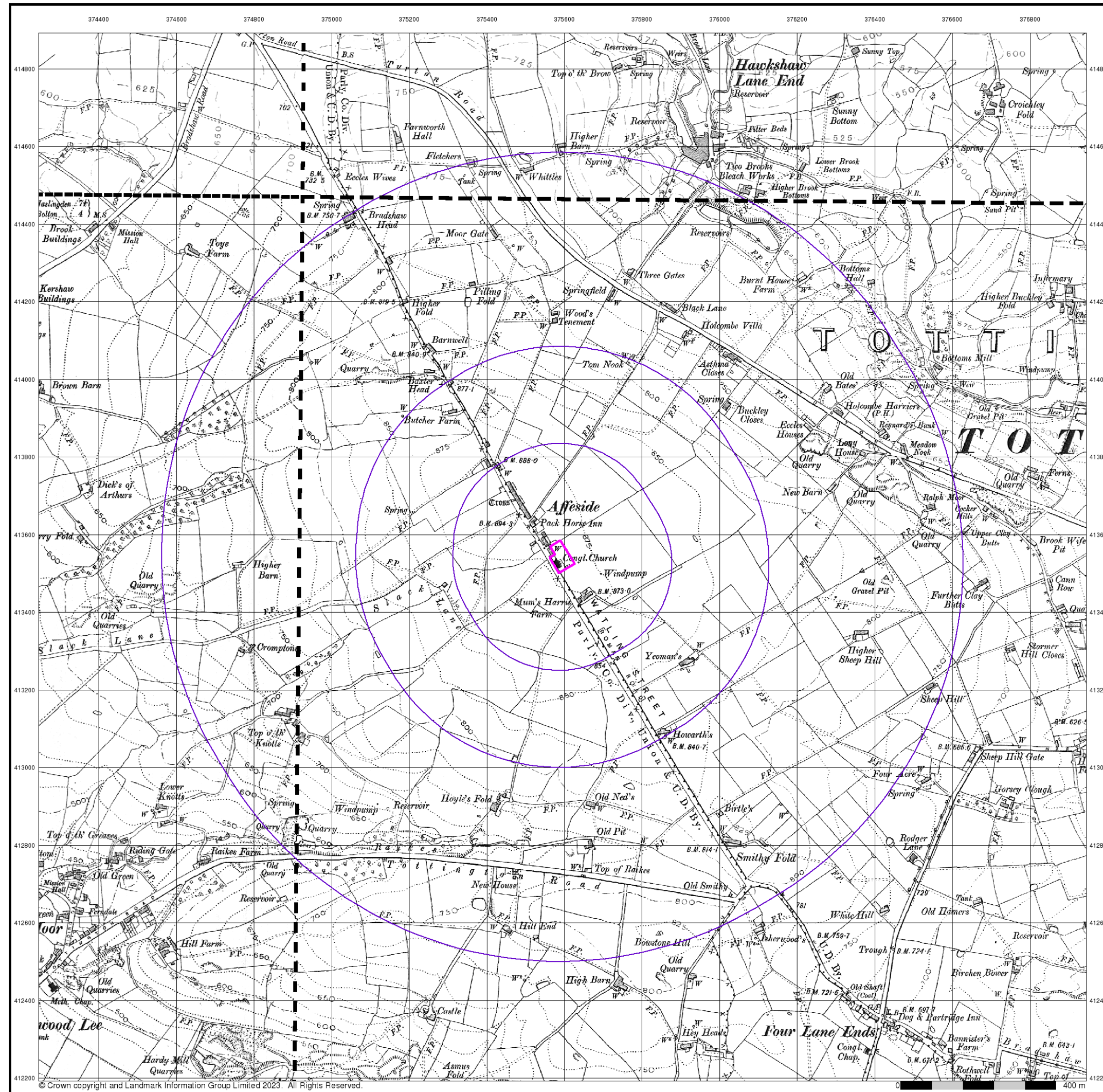
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Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

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Lancashire And Furness

Published 1911 - 1912

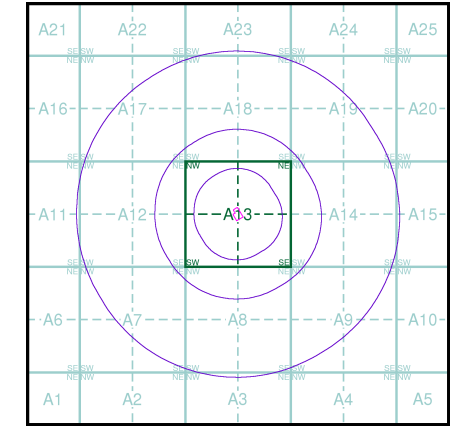
Source map scale - 1:10,560

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)

079SW 1912 1:10,560	079SE 1912 1:10,560
087NW 1911 1:10,560	087NE 1911 1:10,560

Historical Map - Slice A



Order Details

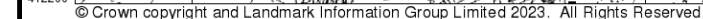
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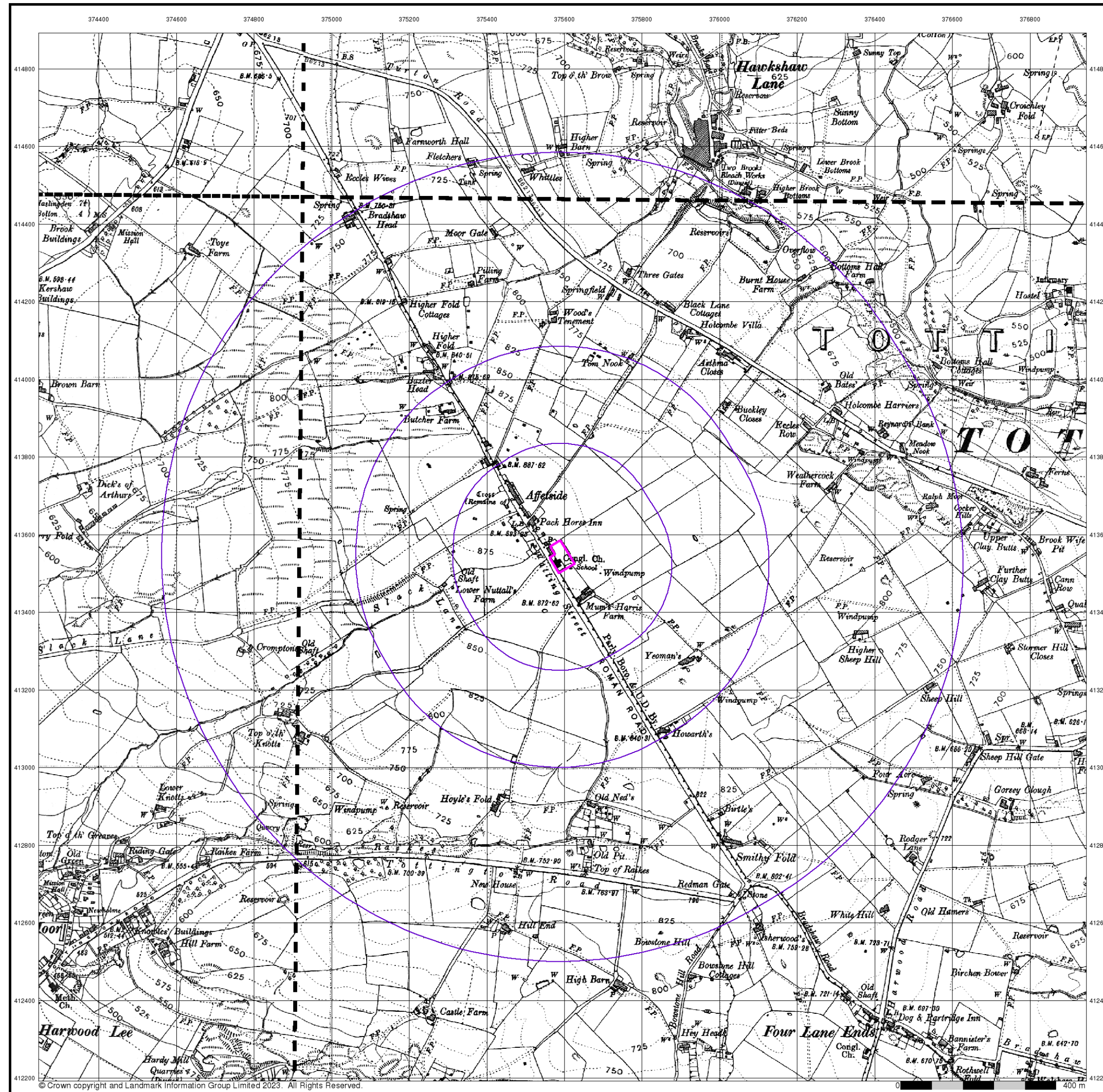
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Lancashire And Furness

Published 1938 - 1939

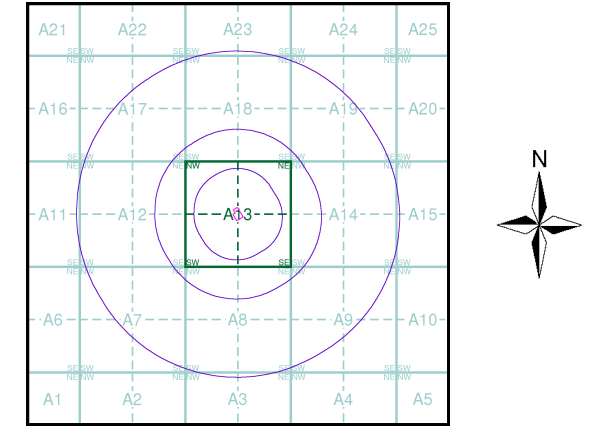
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

079SW 1938 1:10,560	079SE 1939 1:10,560
087NW 1938 1:10,560	087NE 1938 1:10,560

Historical Map - Slice A



Order Details

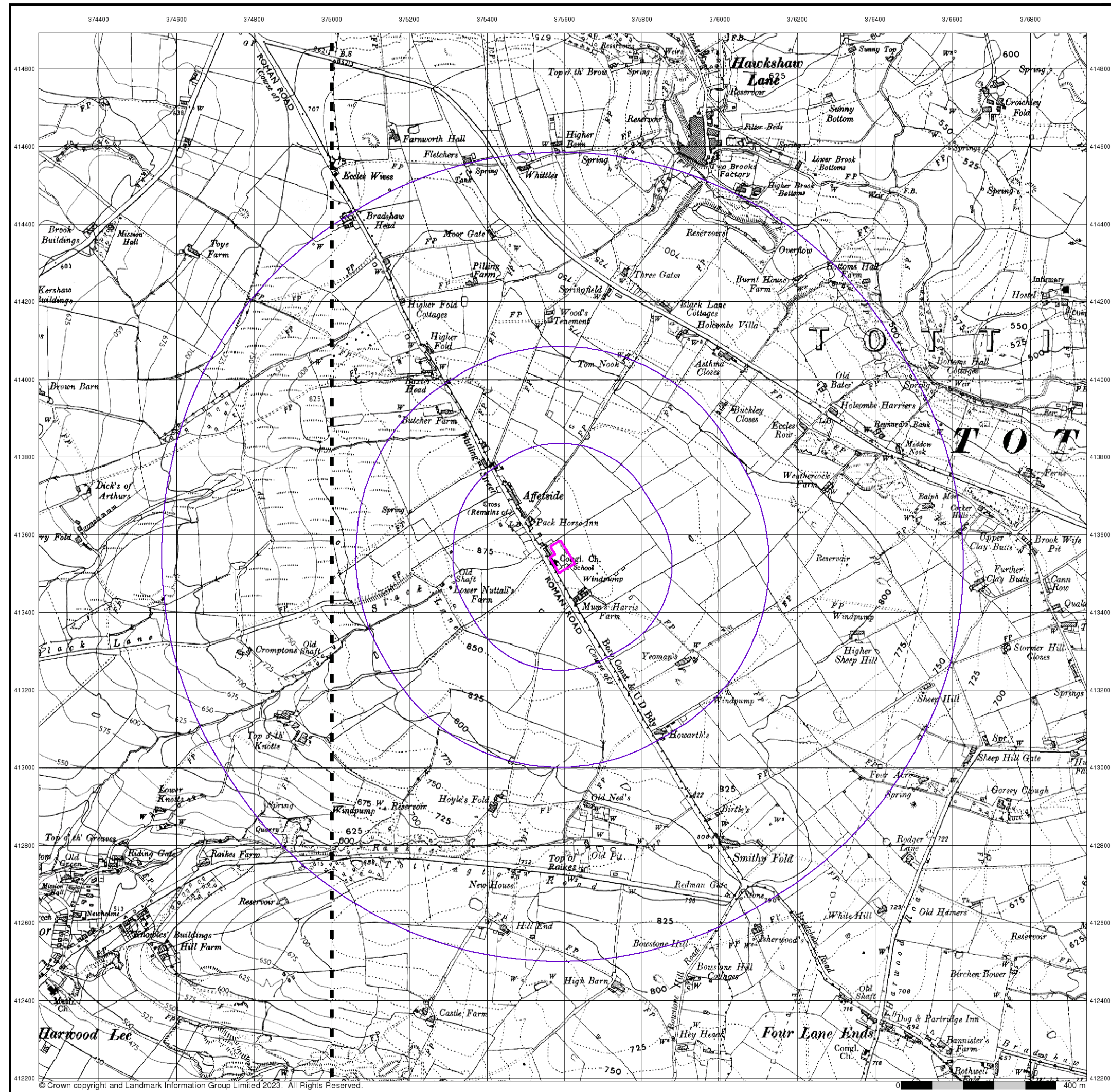
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Site Details

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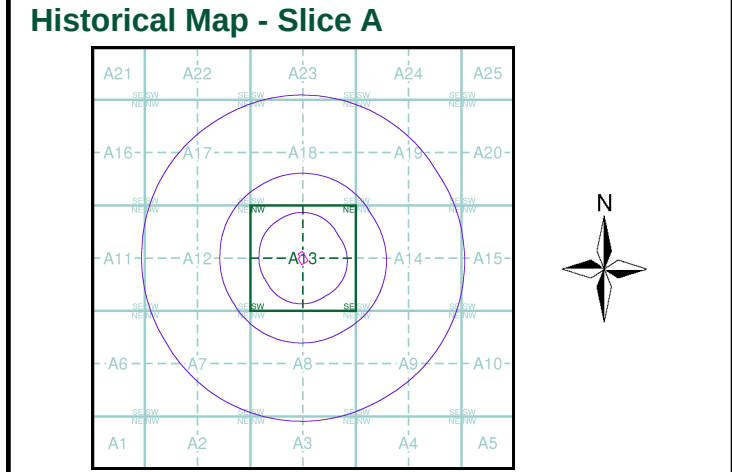
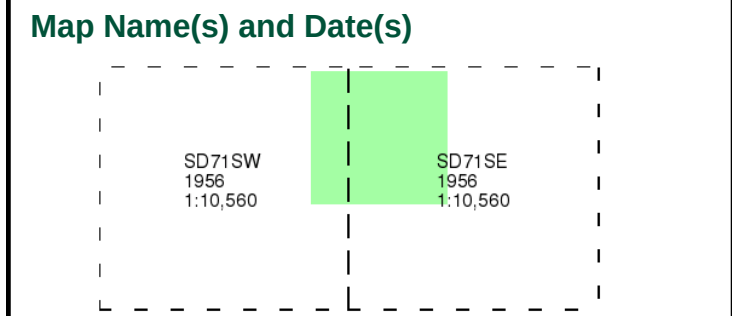
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Ordnance Survey Plan
Published 1956
Source map scale - 1:10,000

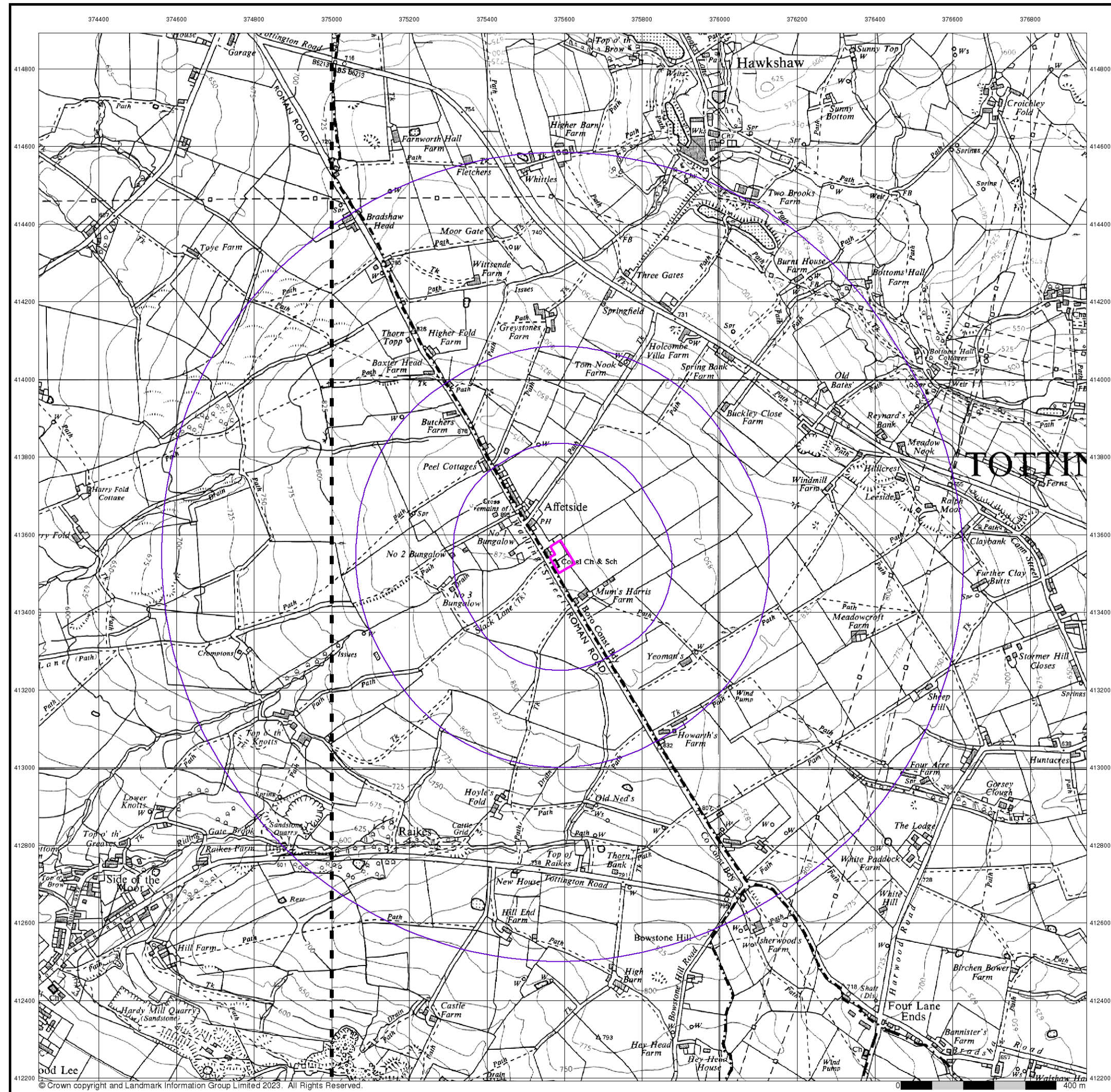
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Order Details

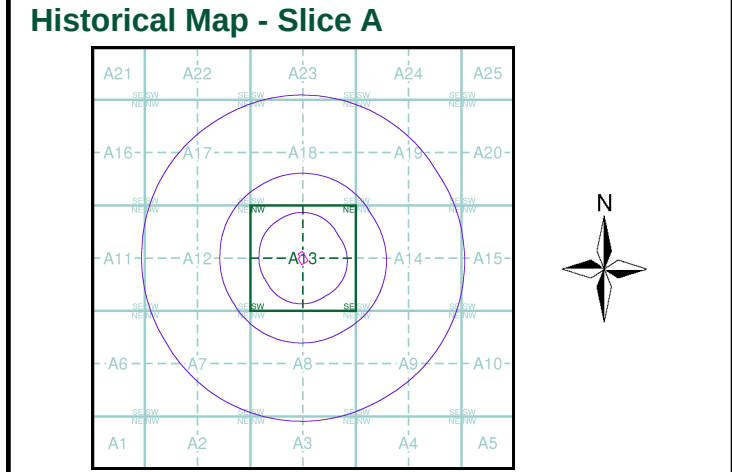
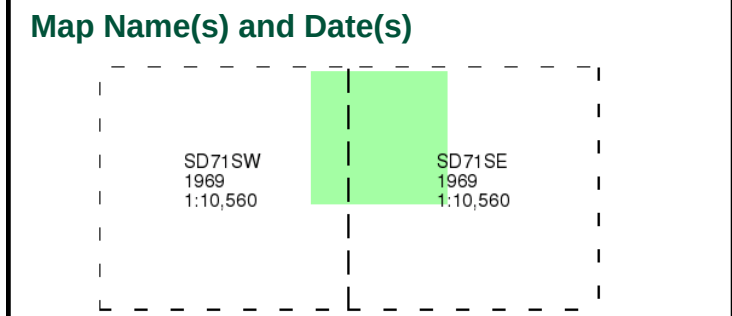
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Slice:	A
Site Area (Ha):	0.3
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Site Details
, 38, Watling Street, Affetside, Bury, BL8 3QW



Ordnance Survey Plan
Published 1969
Source map scale - 1:10,000

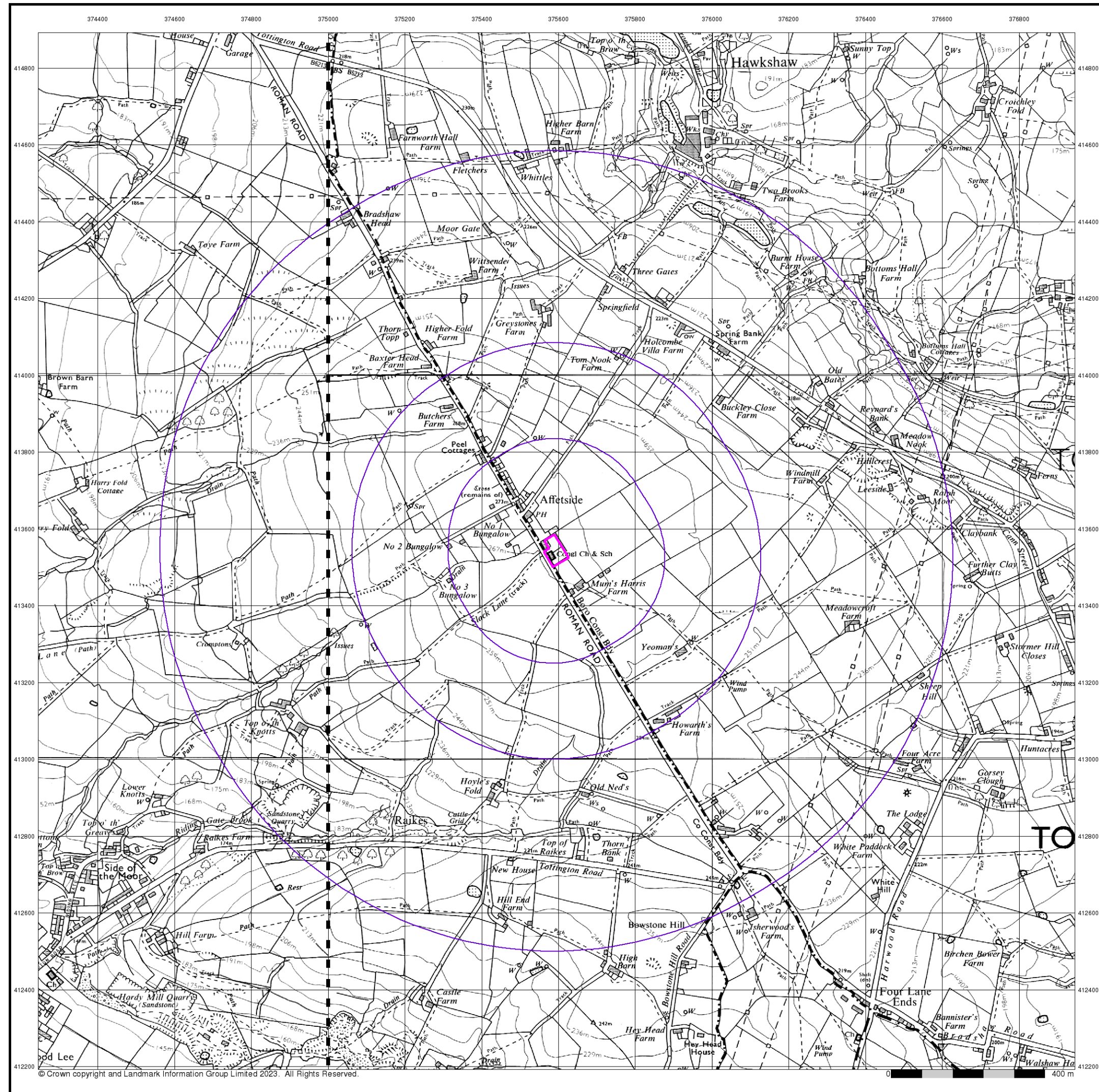
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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



Order Details

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Customer Ref:	STV5920
National Grid Reference:	375590, 413540
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Site Details
, 38, Watling Street, Affetside, Bury, BL8 3QW



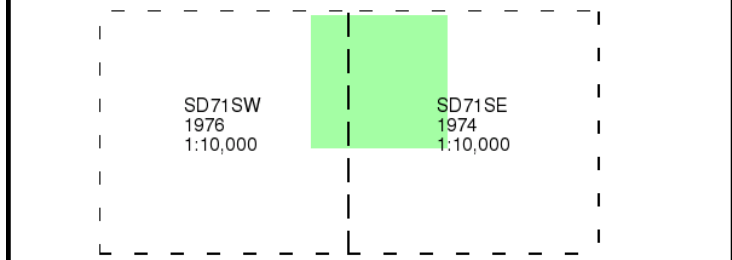
Ordnance Survey Plan

Published 1974 - 1976

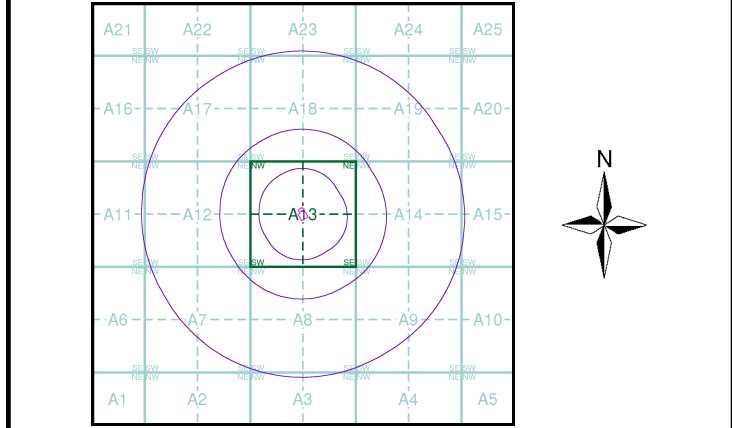
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

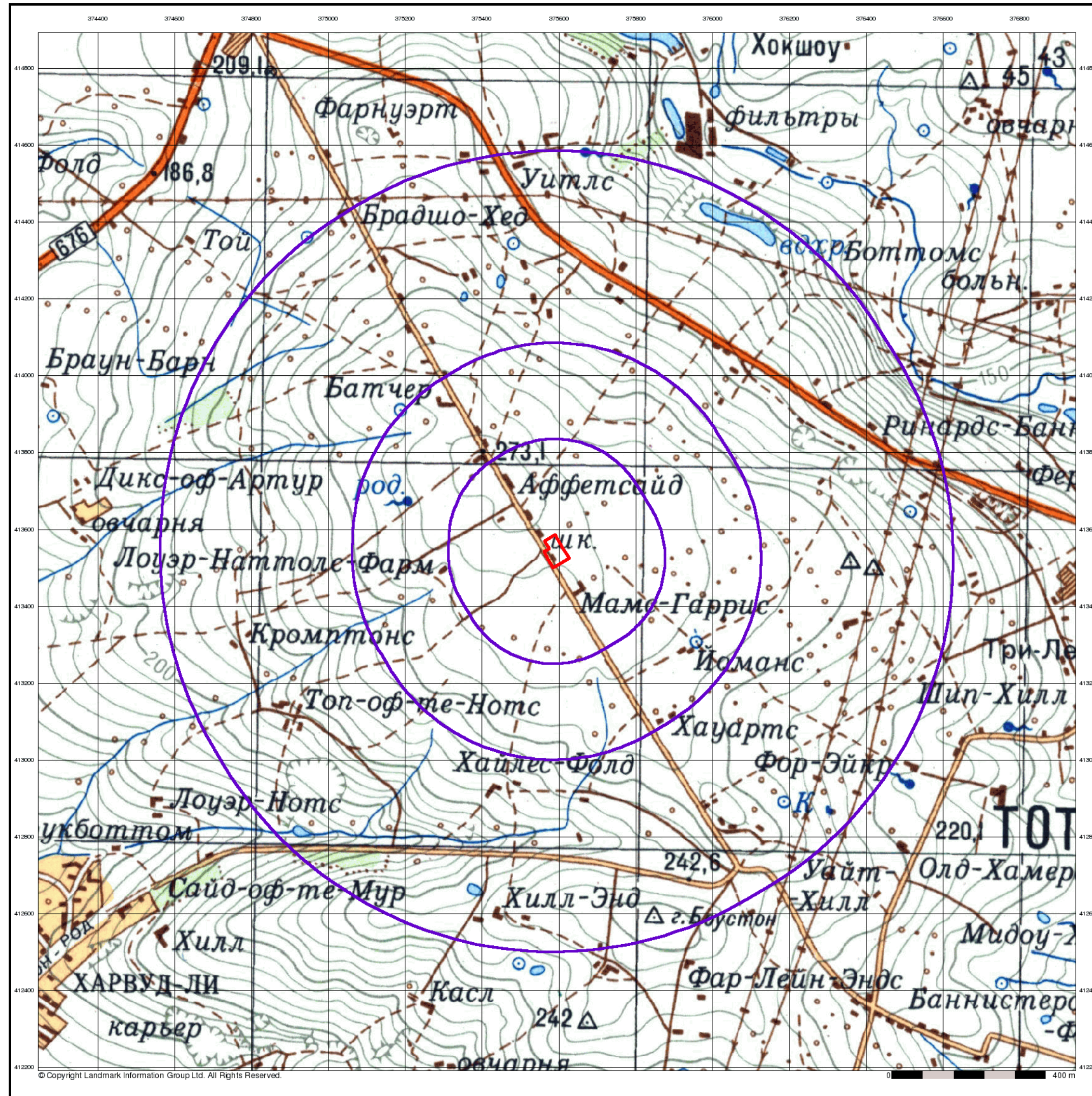


Order Details

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National Grid Reference:	375590, 413540
Slice:	A
Site Area (Ha):	0.3
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Site Details

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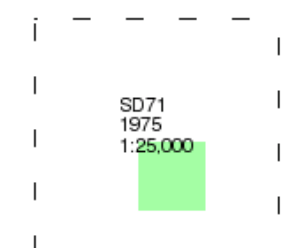
Manchester

Published 1975

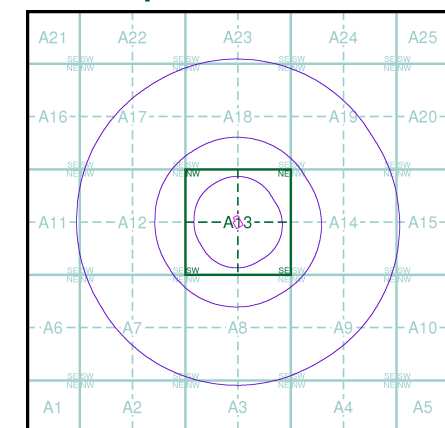
Source map scale - 1:25,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

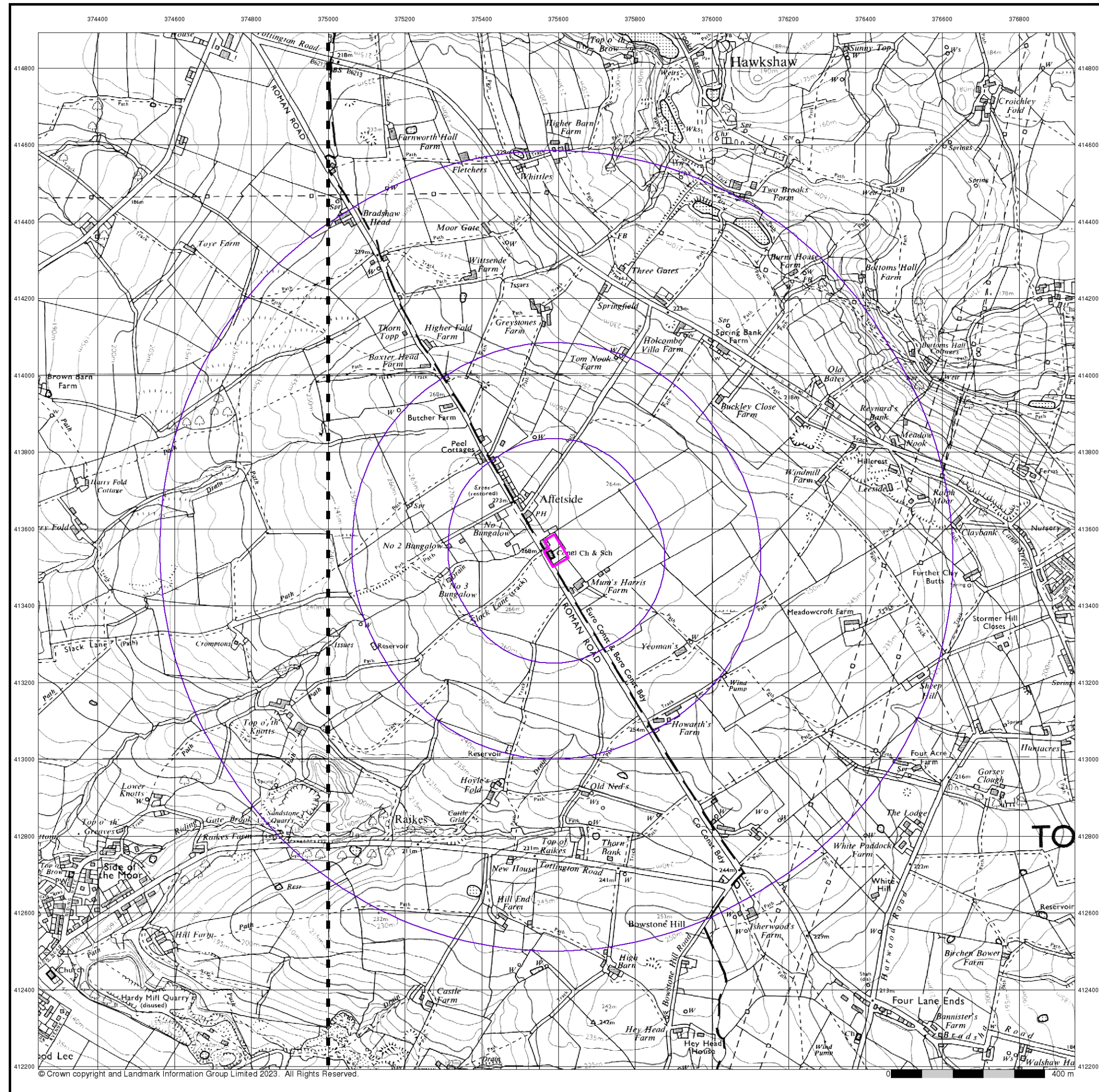
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Site Details

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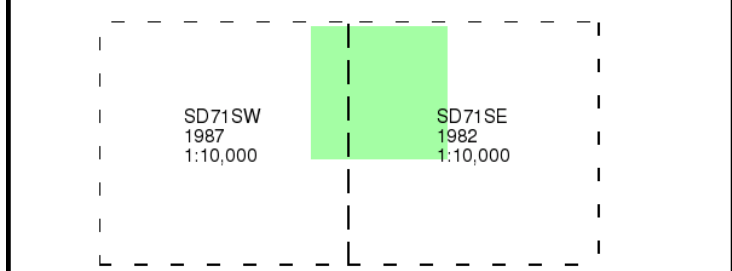
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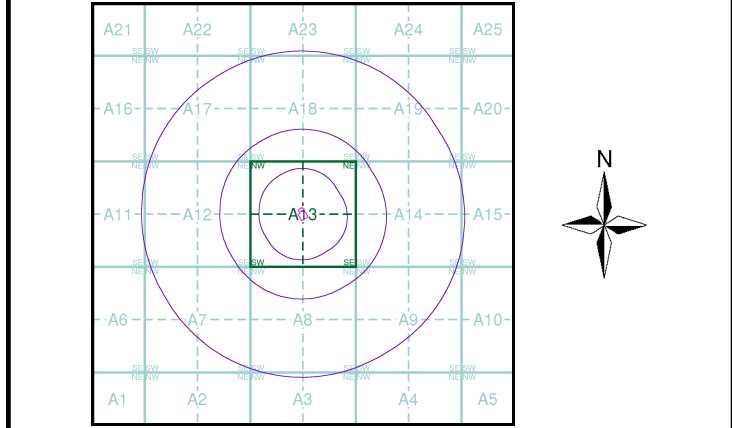
Ordnance Survey Plan
Published 1982 - 1987
Source map scale - 1:10,000

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)

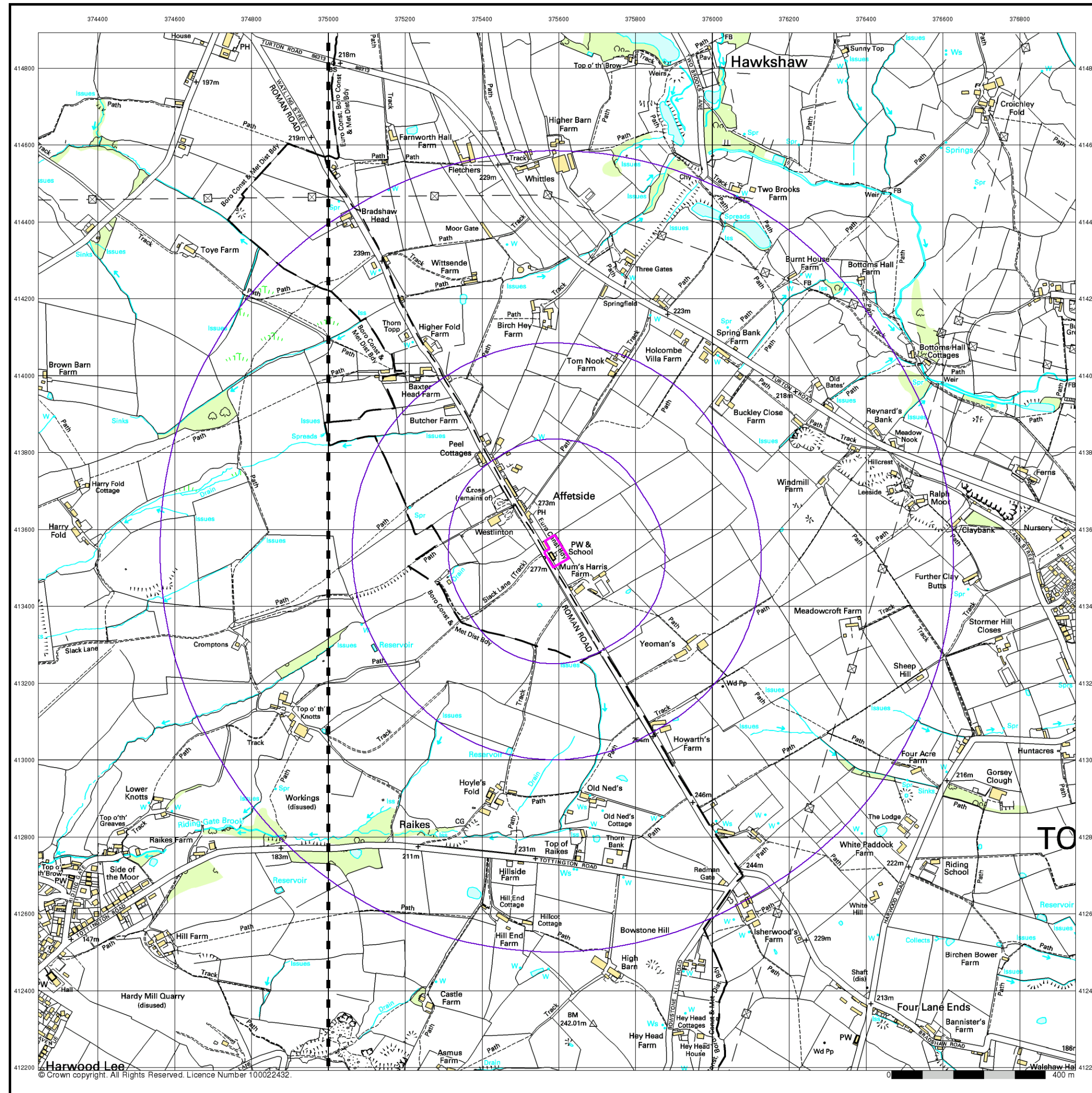


Historical Map - Slice A



Order Details
Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details
, 38, Watling Street, Affetside, Bury, BL8 3QW



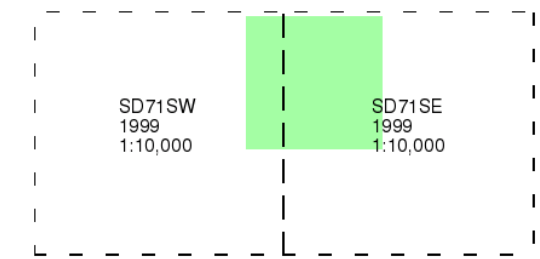
soiltechnics

environmental • geotechnical • building fabric

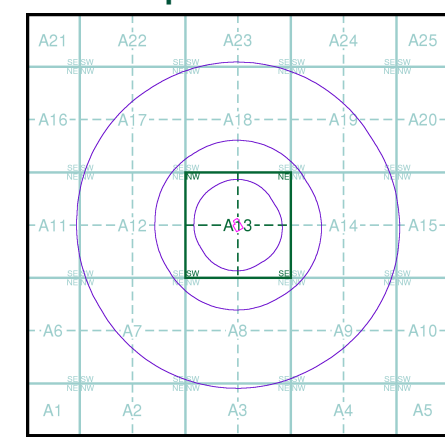
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

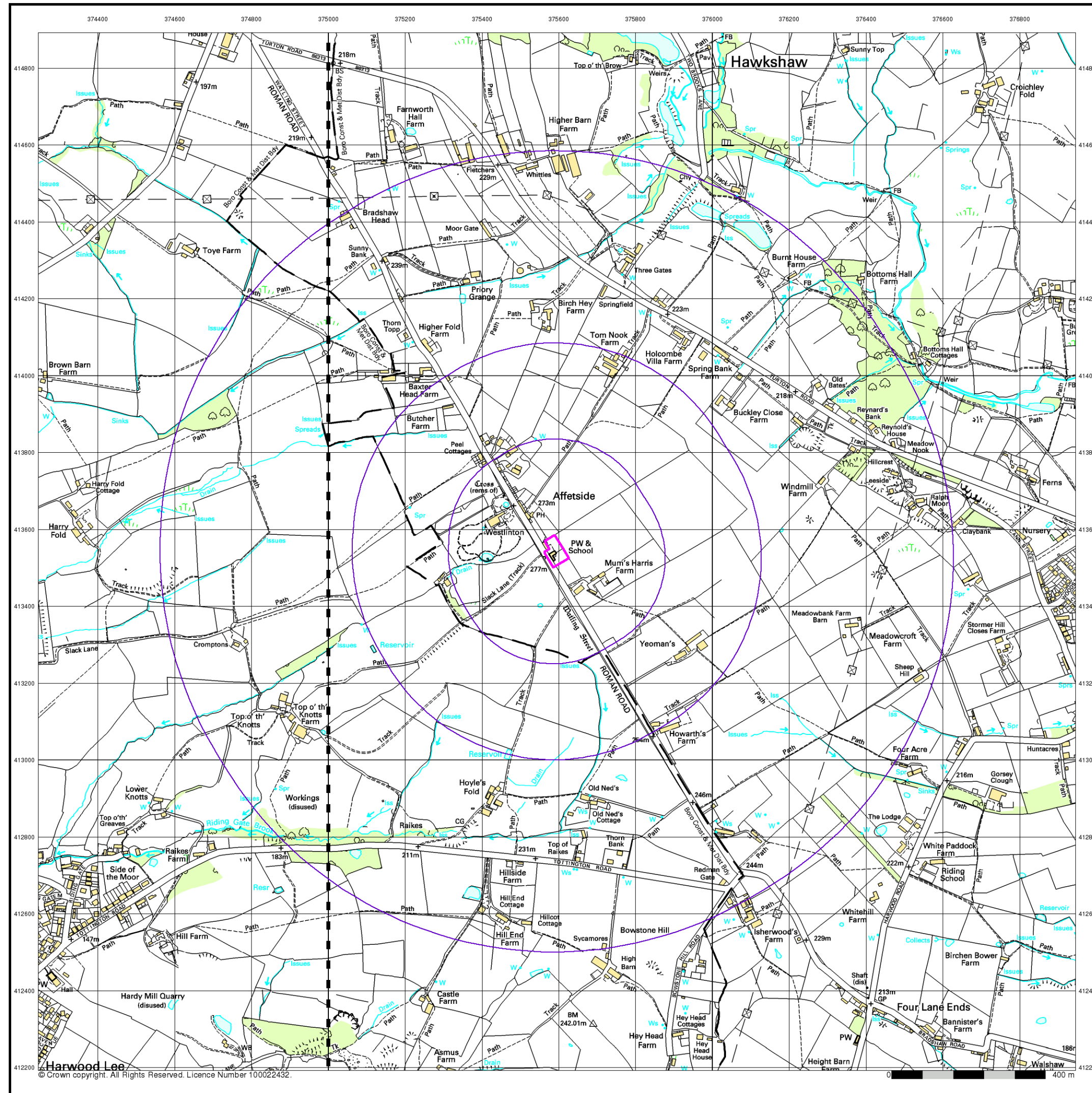
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Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Landmark
INFORMATION GROUP

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



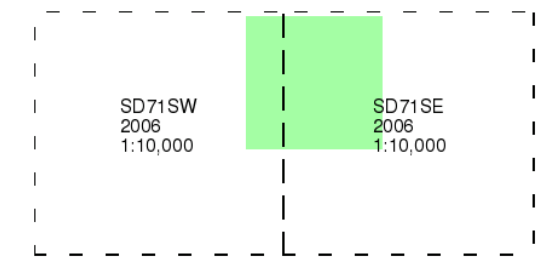
soiltechnics

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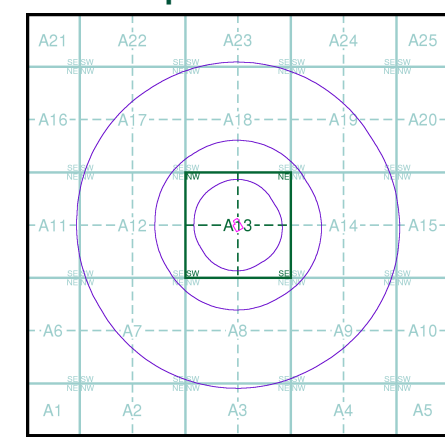
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



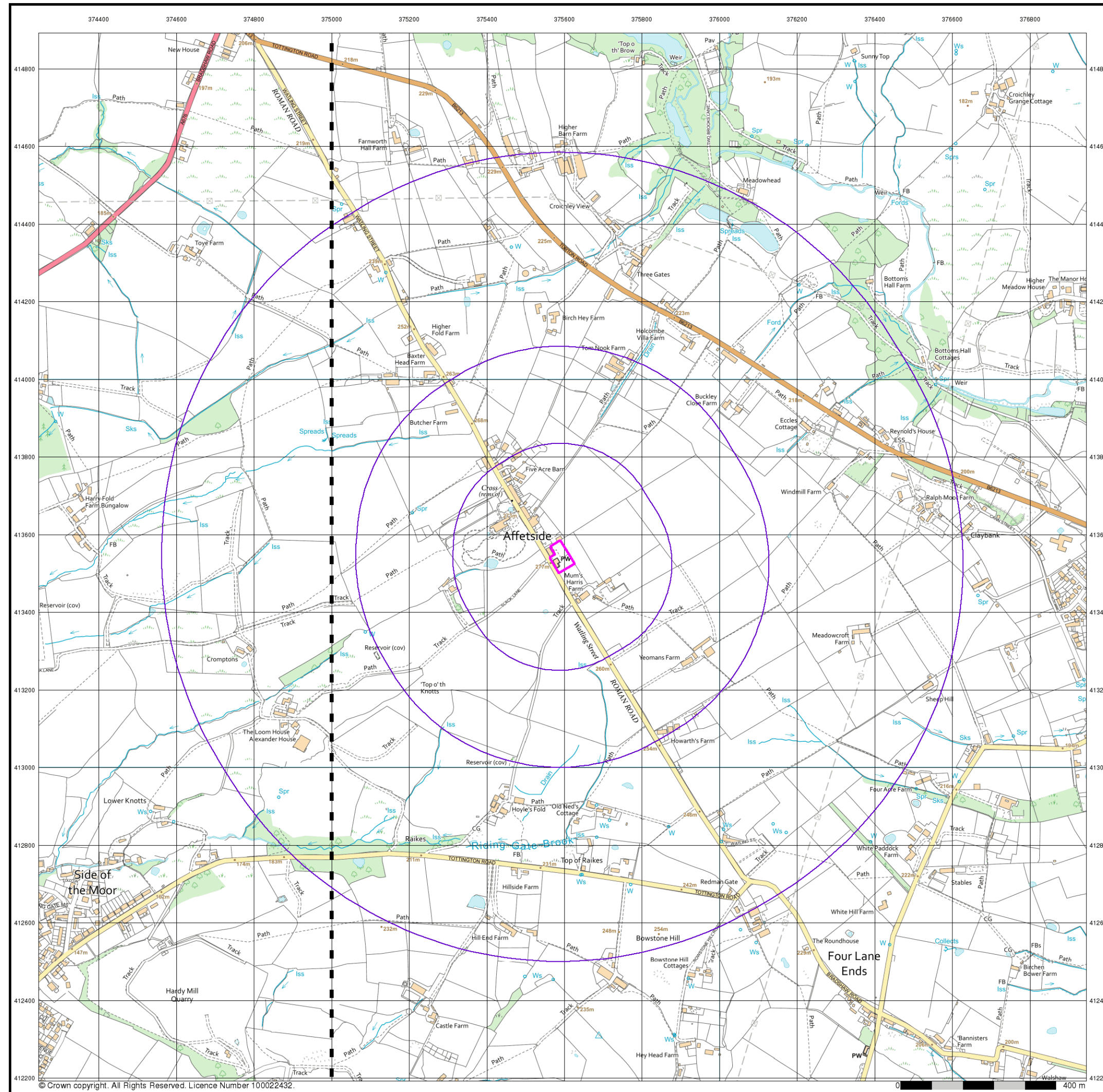
Historical Map - Slice A



Order Details
Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details
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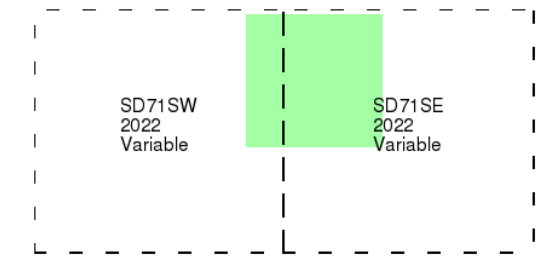
VectorMap Local

Published 2022

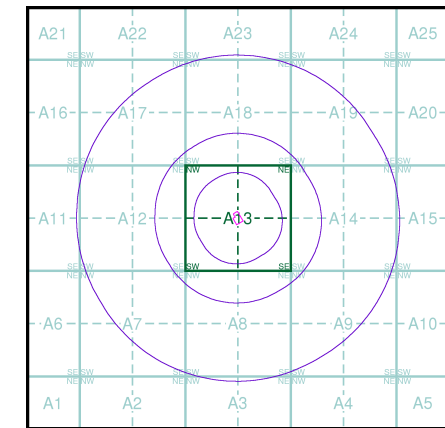
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Landmark
INFORMATION GROUP

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

General

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

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 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

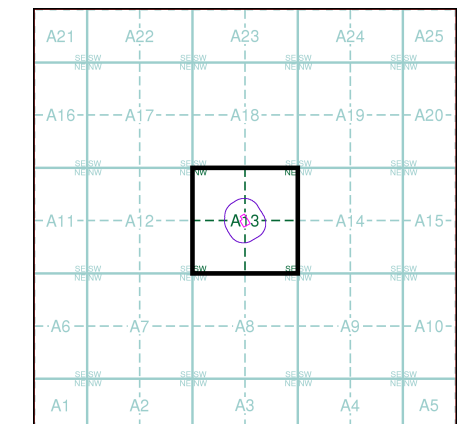
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site
- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

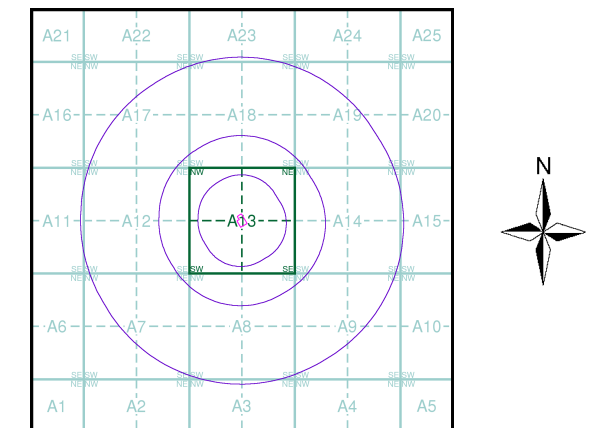
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Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Plot Buffer (m): 100

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW



Site Sensitivity Map - Slice A

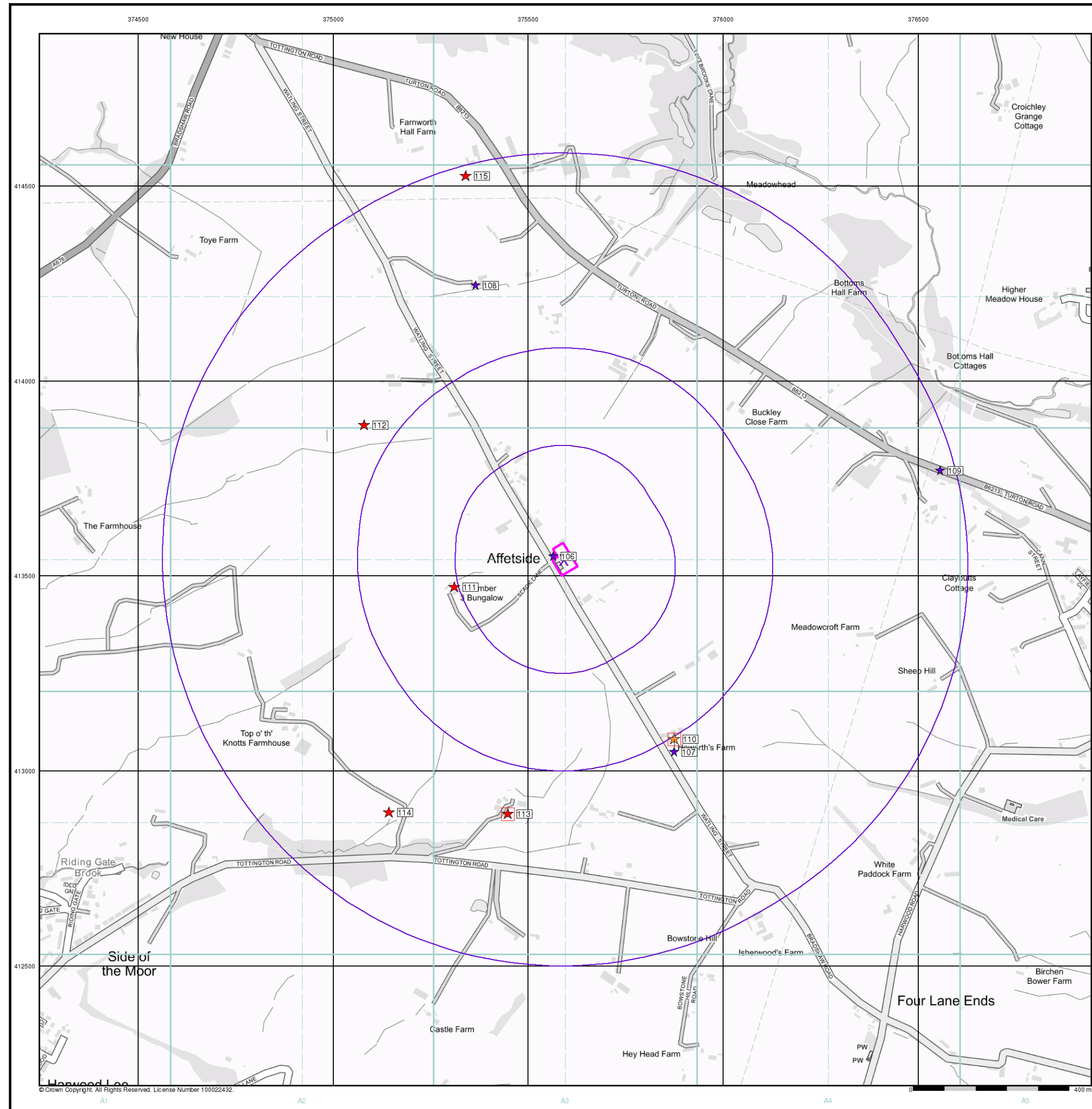


Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW



Industrial Land Use Map

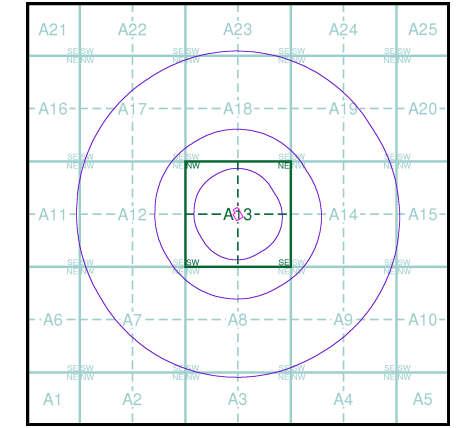
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

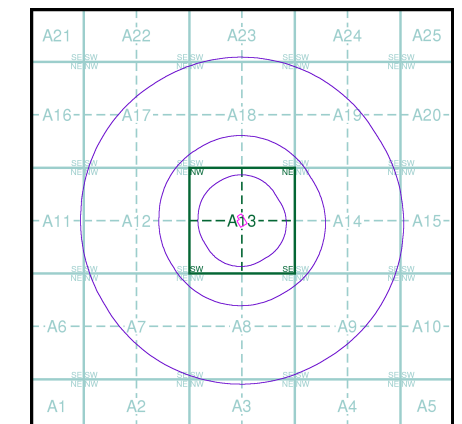
General

- 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

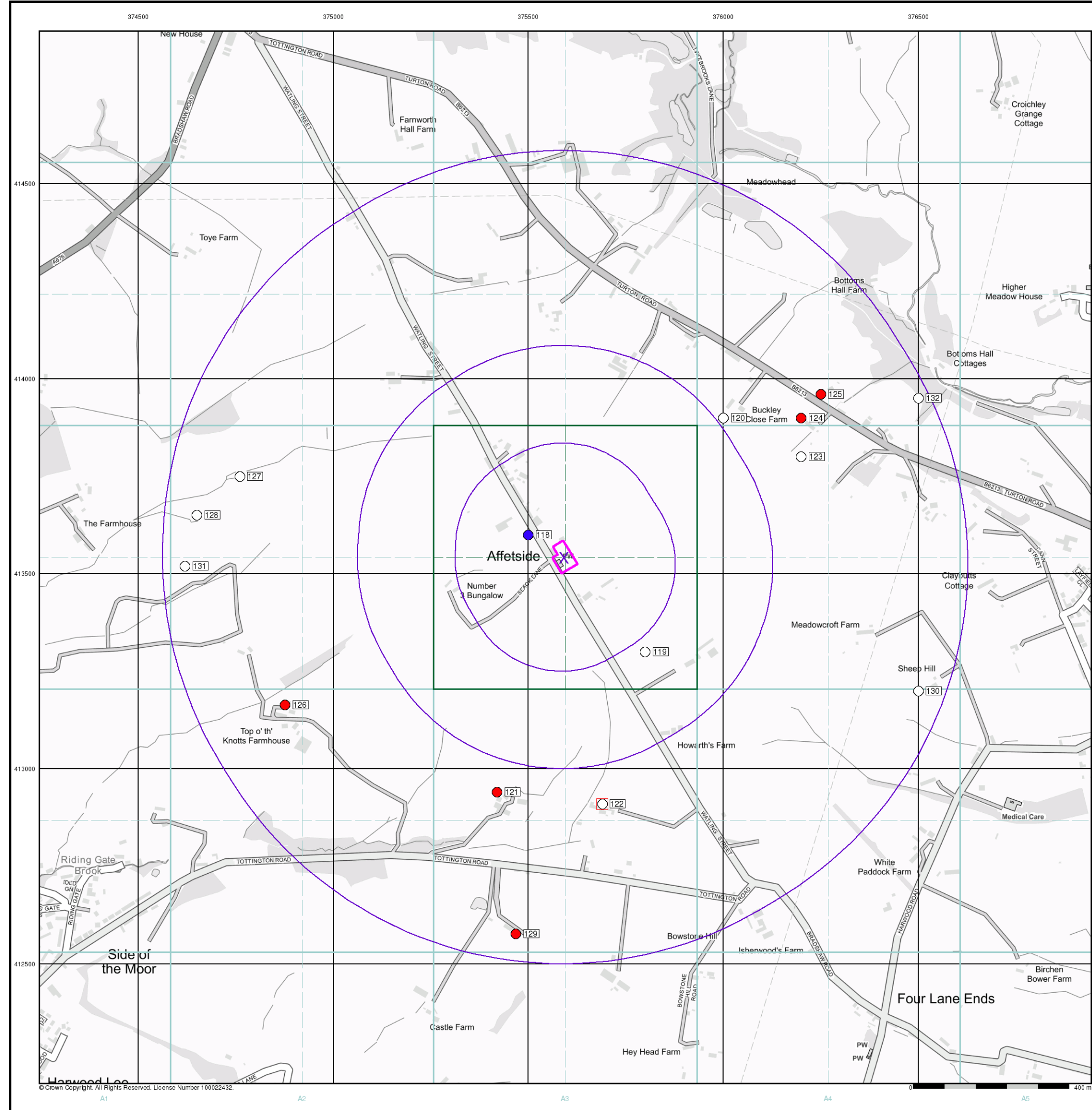


Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW



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General

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

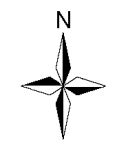
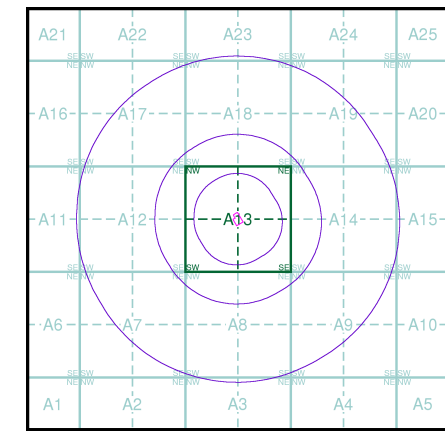
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

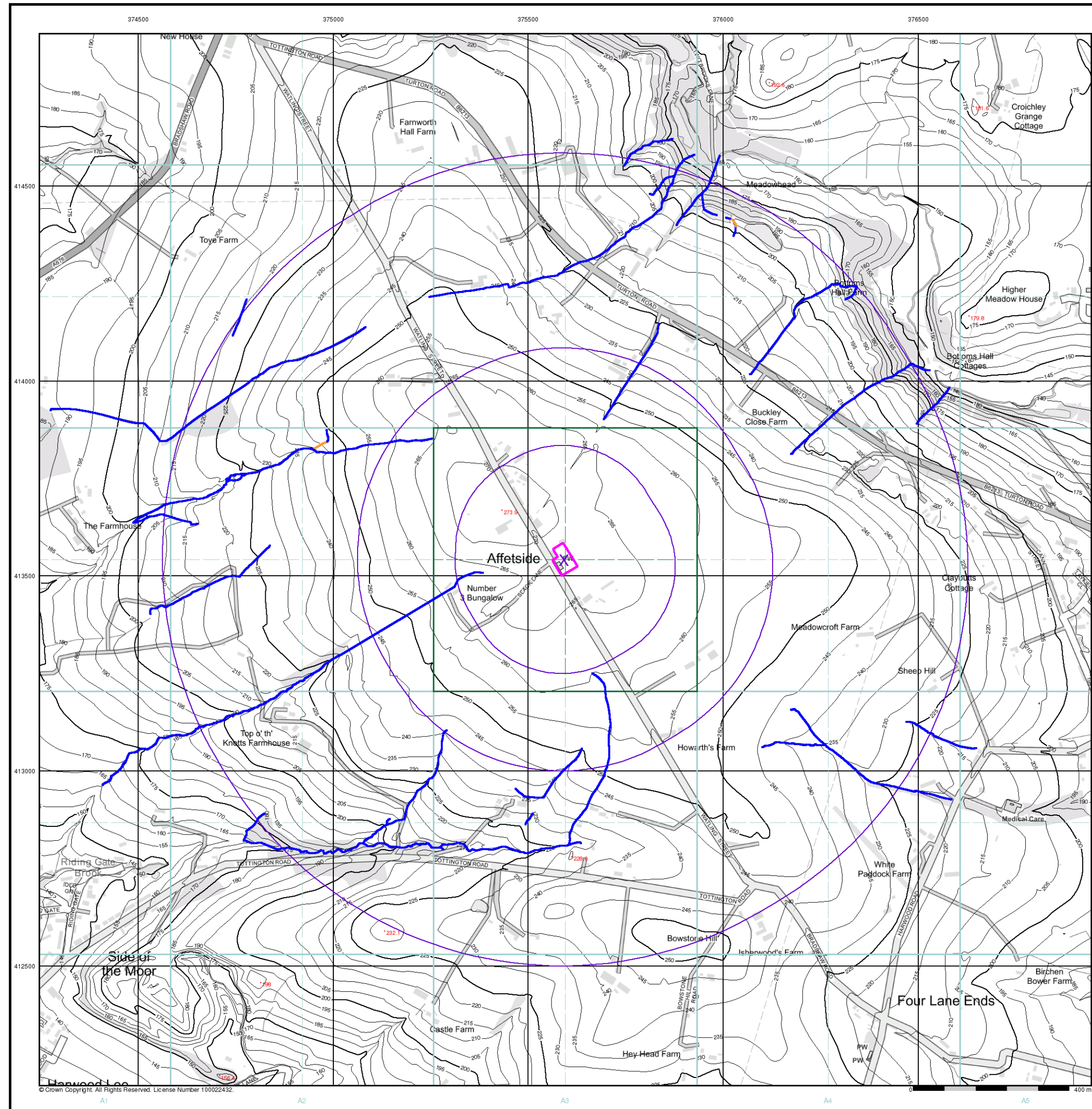


Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

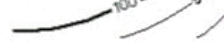


soiltechnics

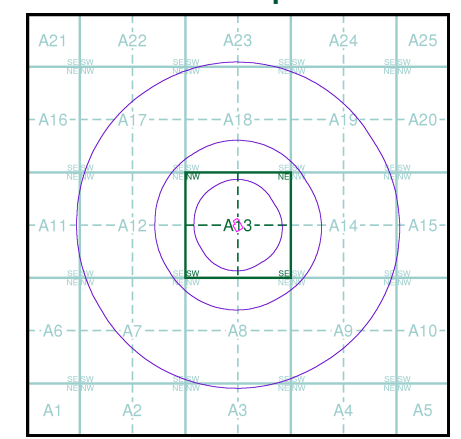
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point

- OS Water Network Data**
- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

- Contours (height in meters)**
- Standard Contour  MLW Mean Low Water
- Master Contour  MHV Mean High Water
- Spot Height 

OS Water Network Map - Slice A



Order Details

Order Number: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk

General

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

Risk of Flooding from Surface Water

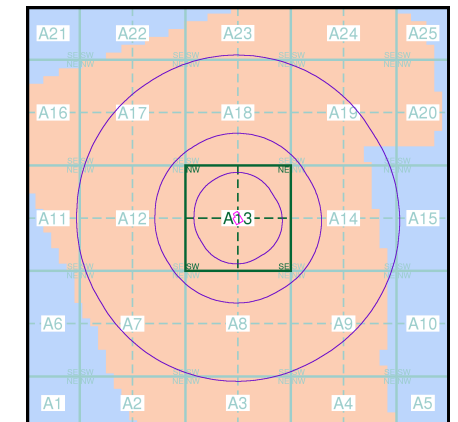
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

E/NRW Suitability Map - Slice A

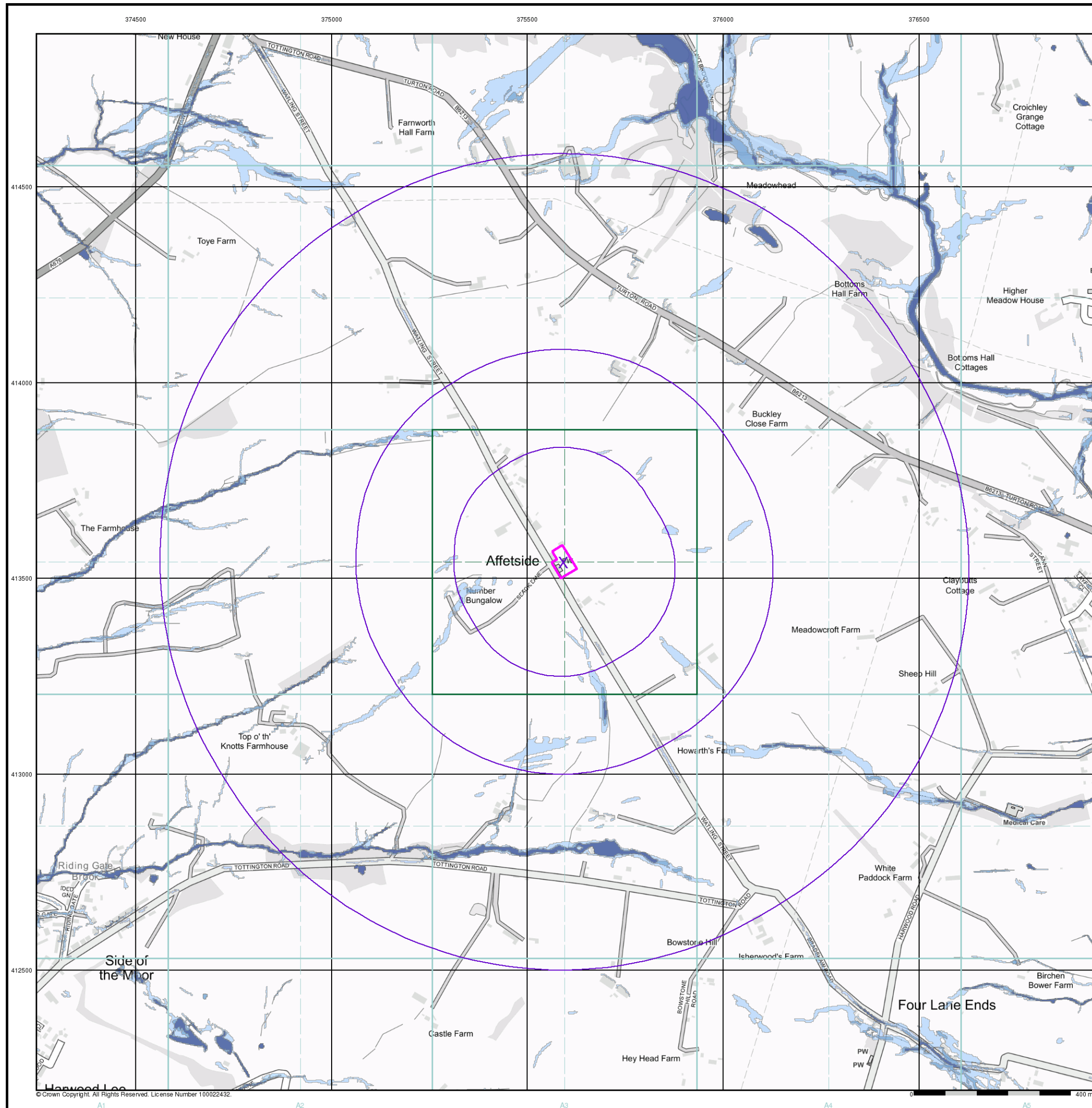


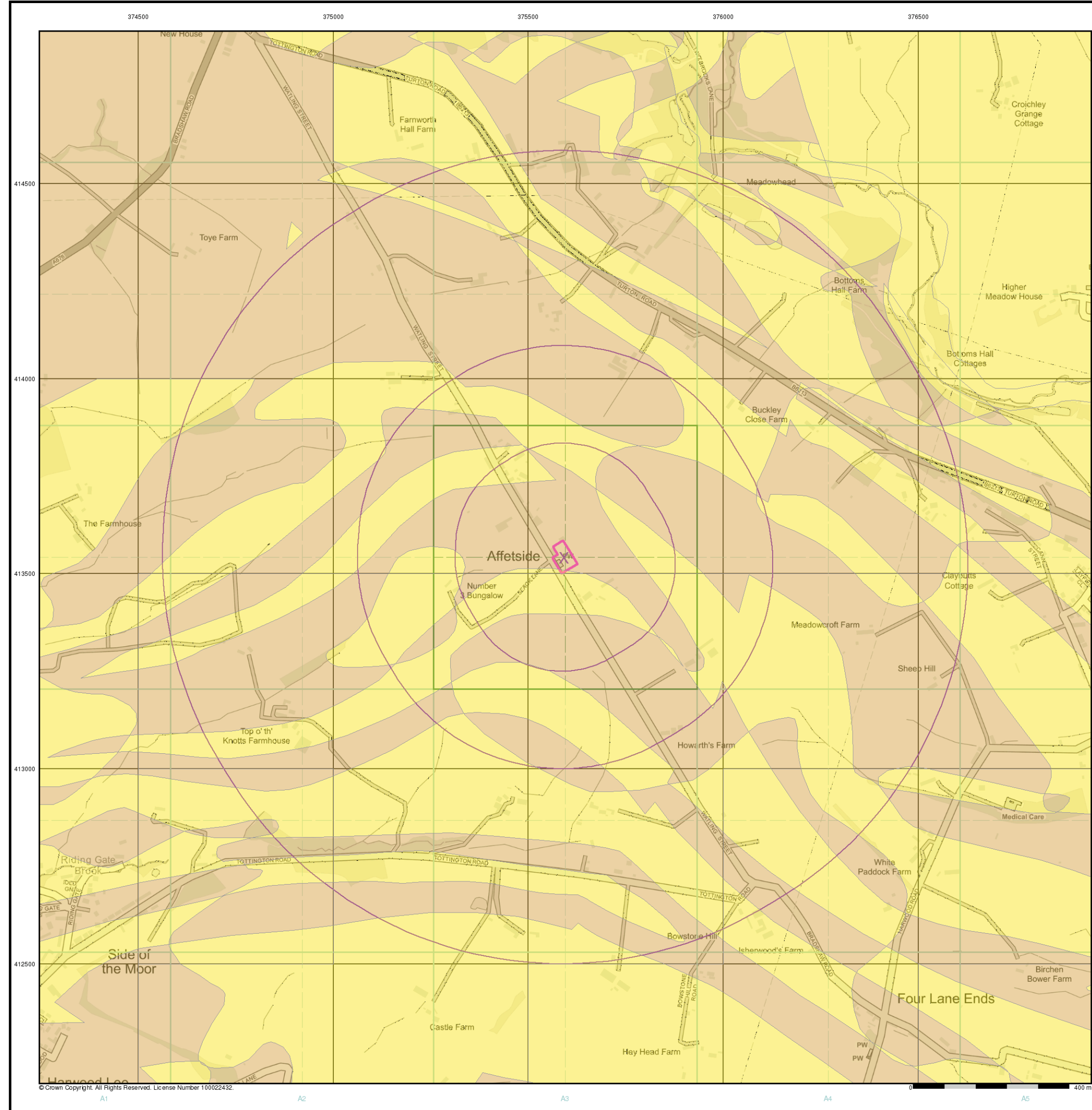
Order Details

Order Number: 305570369_1_1
 Customer Ref: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW



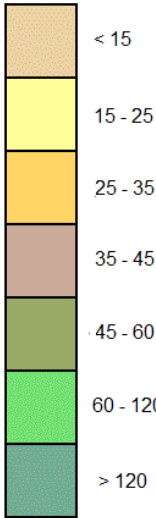


General

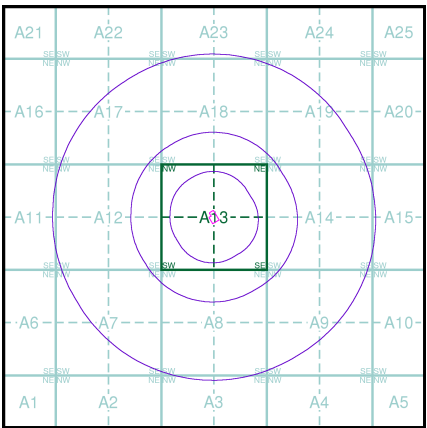
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

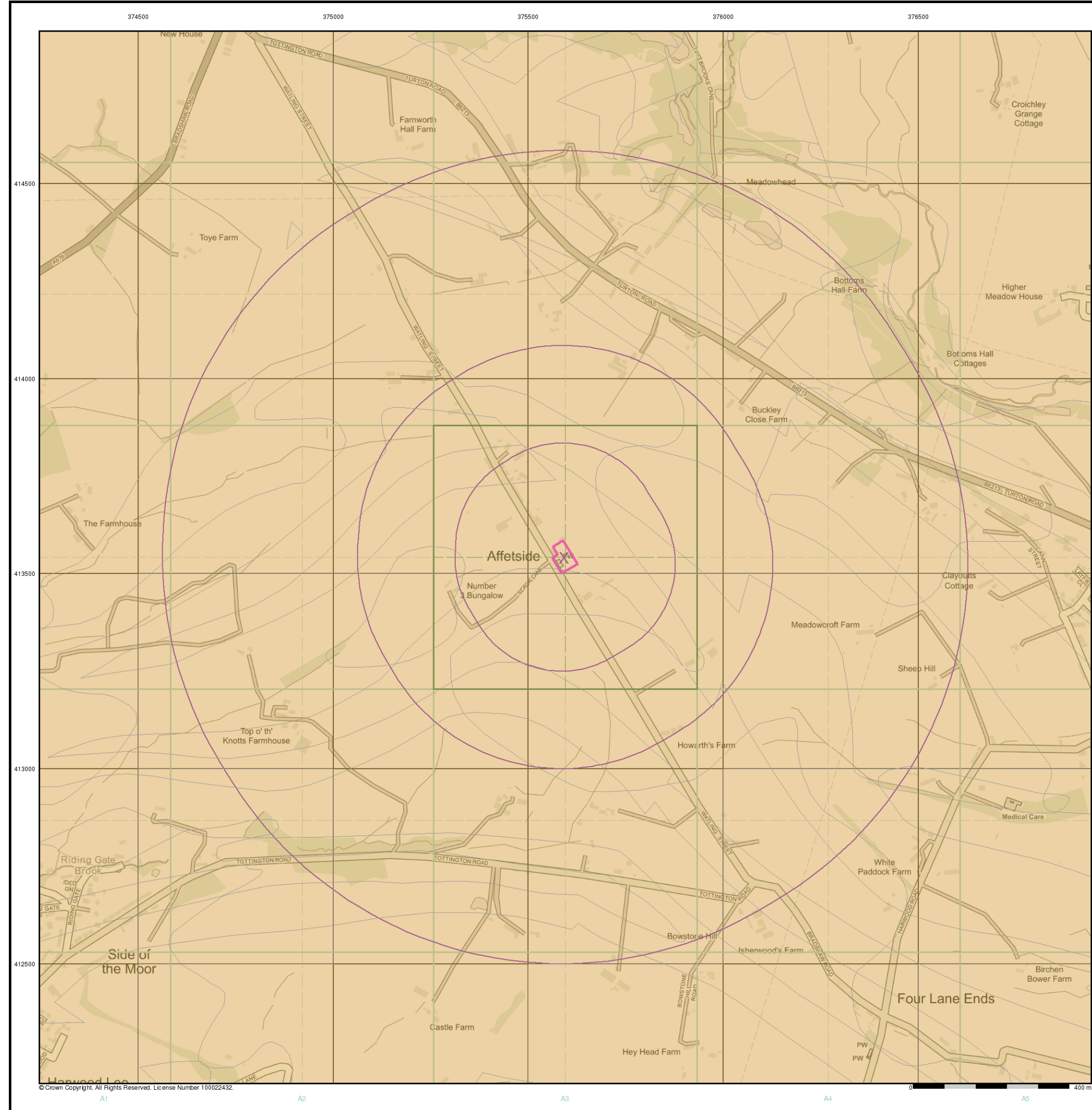


Order Details

Order Details: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW



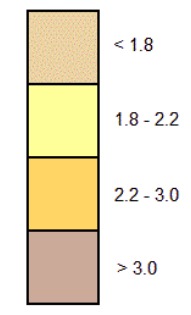
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General

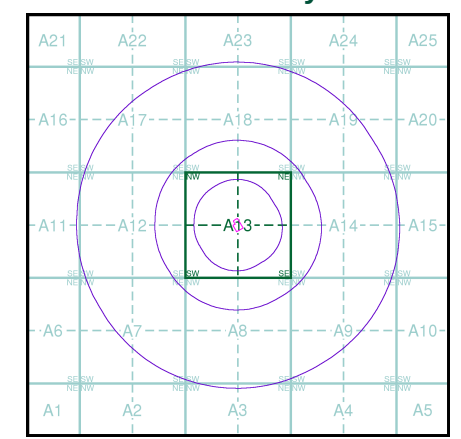
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

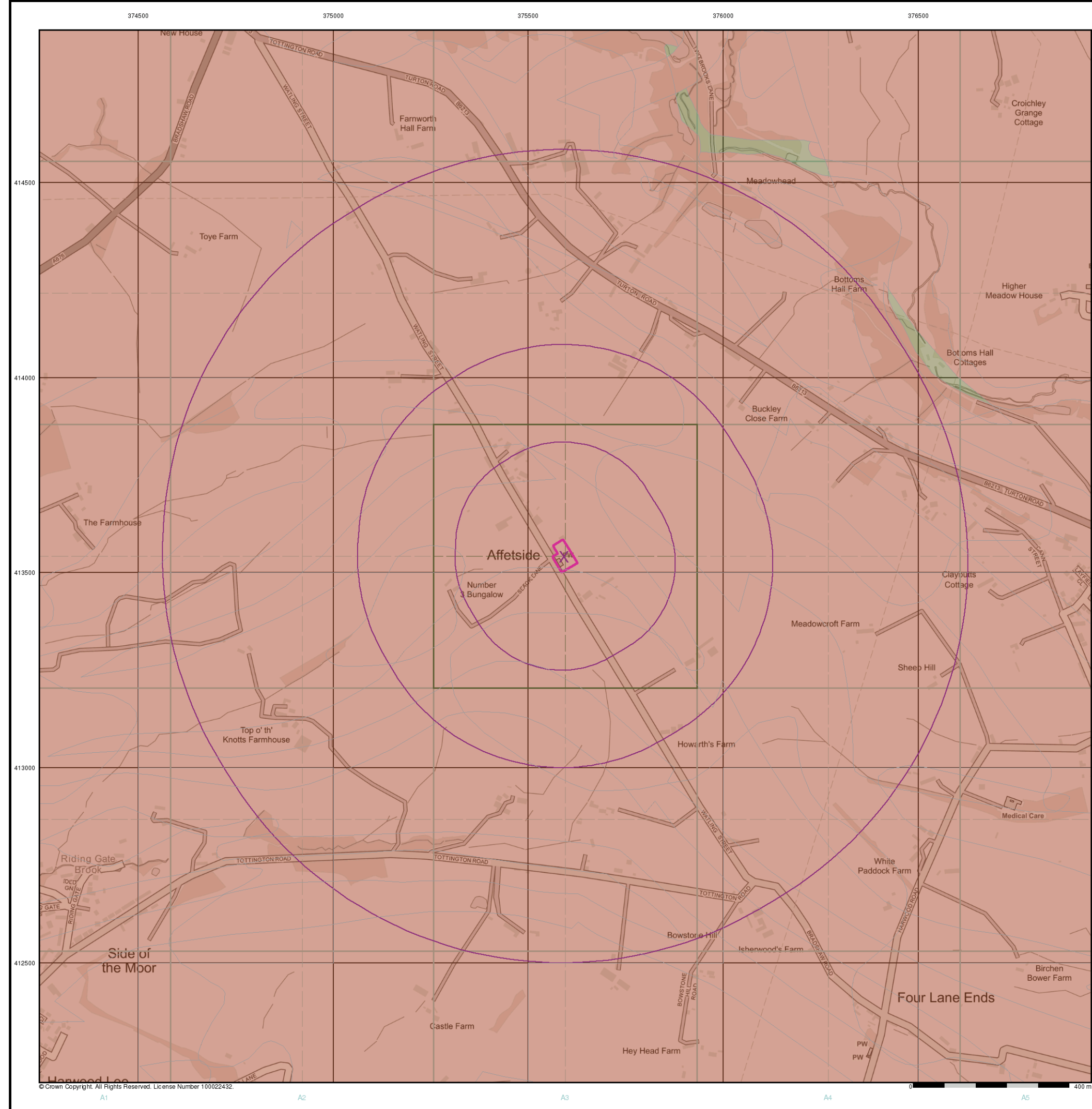


Order Details

Order Details: 305570369_1_1
 Customer Ref: STV5920
 National Grid Reference: 375590, 413540
 Slice: A
 Site Area (Ha): 0.3
 Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

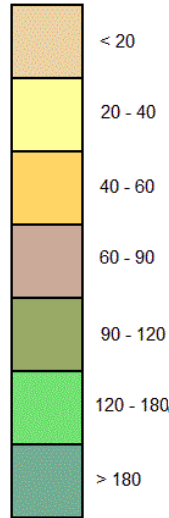


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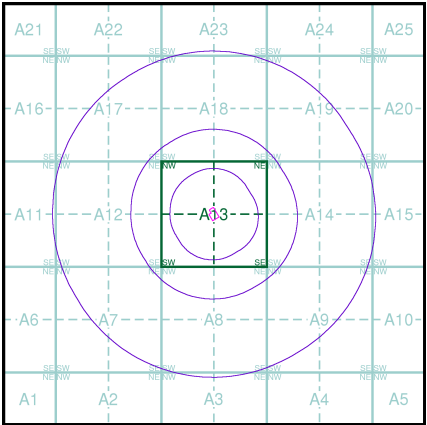
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

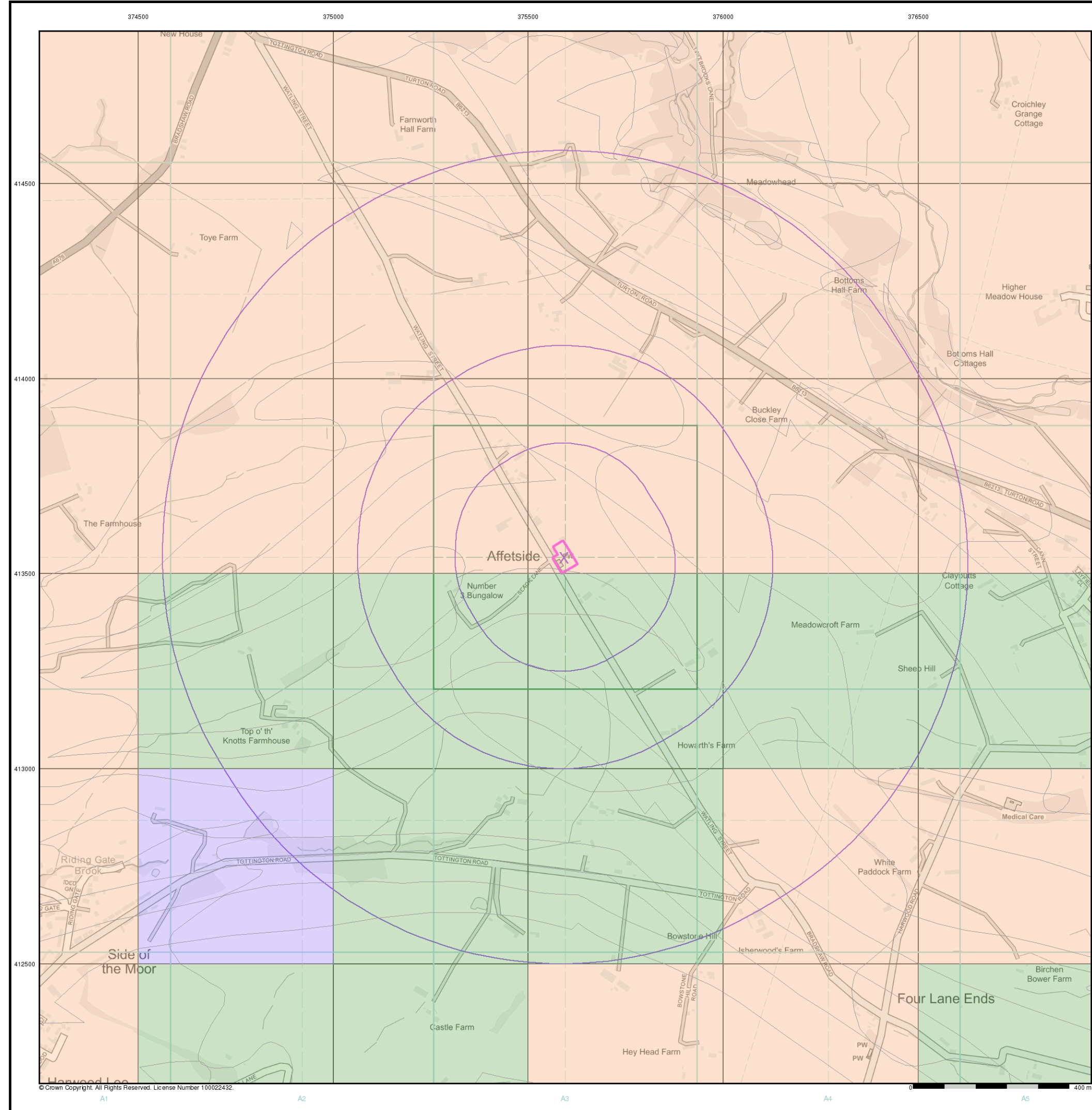


Order Details

Order Details: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

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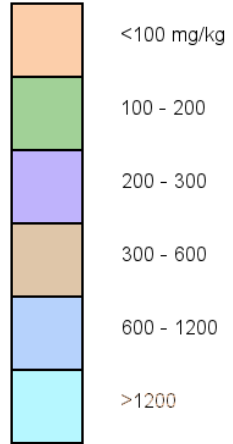


General

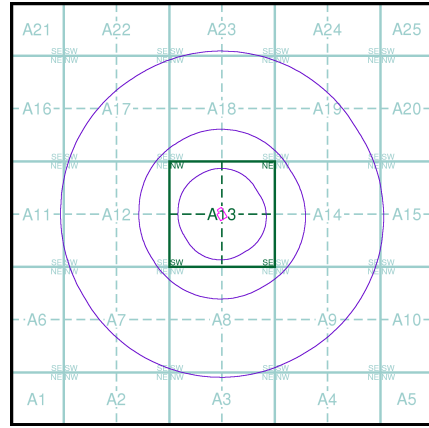
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

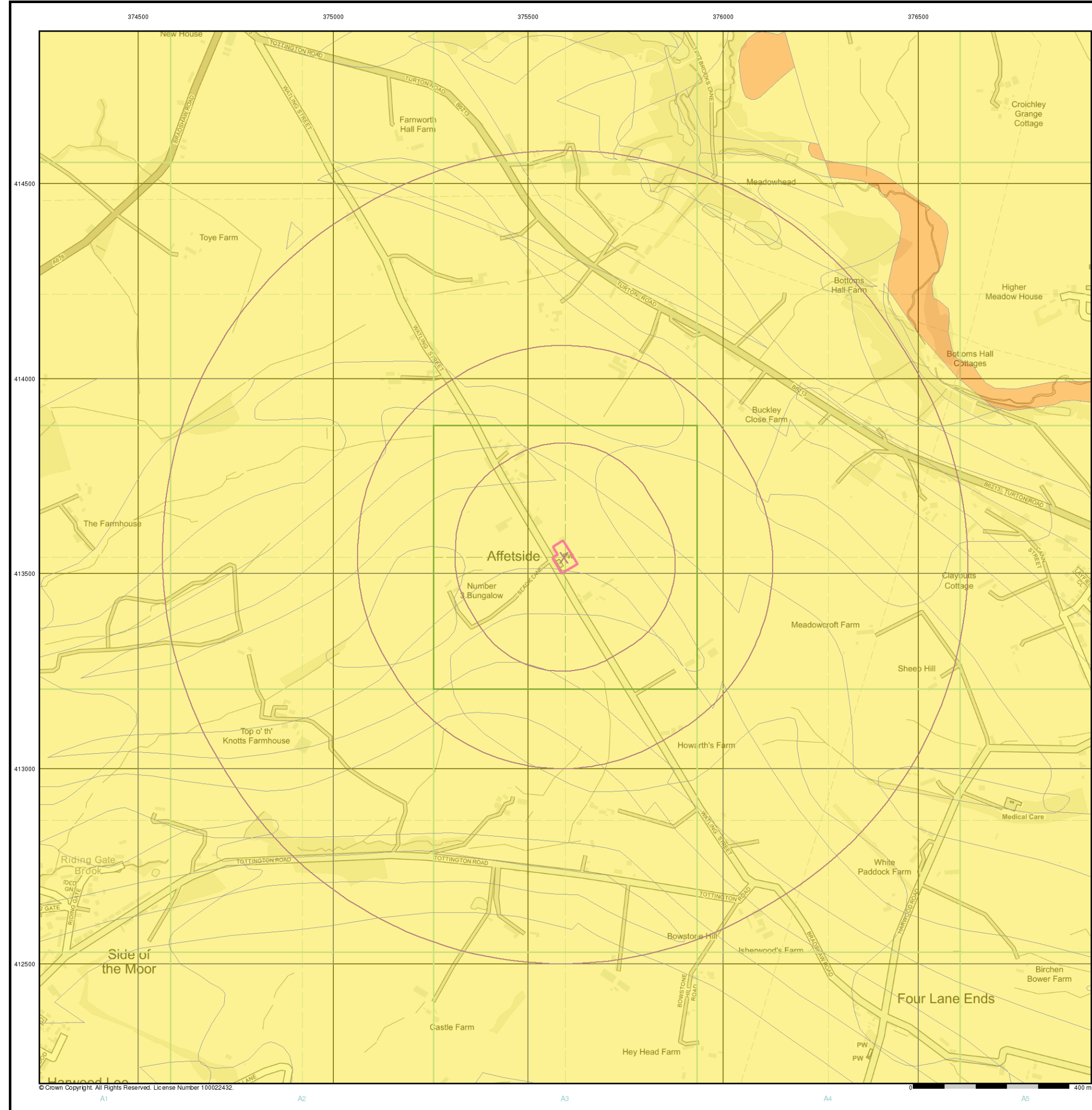


Order Details

Order Details: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

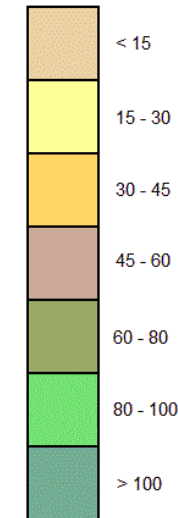


General

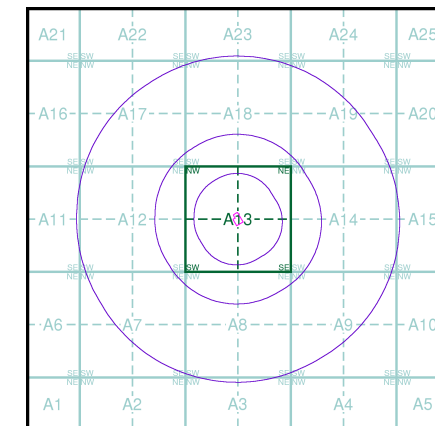
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 305570369_1_1
Customer Ref: STV5920
National Grid Reference: 375590, 413540
Slice: A
Site Area (Ha): 0.3
Search Buffer (m): 1000

Site Details

, 38, Watling Street, Affetside, Bury, BL8 3QW

Appendix D Photographic records

Title

Photographic records of Site Walkover



Photograph 1 - Photograph showing Chapel building, facing northwest



Photograph 2 - Photograph showing access gate from Watling Street, facing northeast

Title

Photographic records of Site Walkover



Photograph 3 - Photograph showing two storey extension, facing south



Photograph 4 - Photograph showing single and two storey extension, facing south

Title

Photographic records of Site Walkover



Photograph 5 - Photograph showing the Chapel and graveyard, facing south



Photograph 6 - Photograph showing the graveyard, facing southeast

Title

Photographic records of Site Walkover



Photograph 7 - Photograph showing hardstanding and soft landscaping, facing north



Photograph 8 - Photograph showing inside of the chapel building, facing northeast