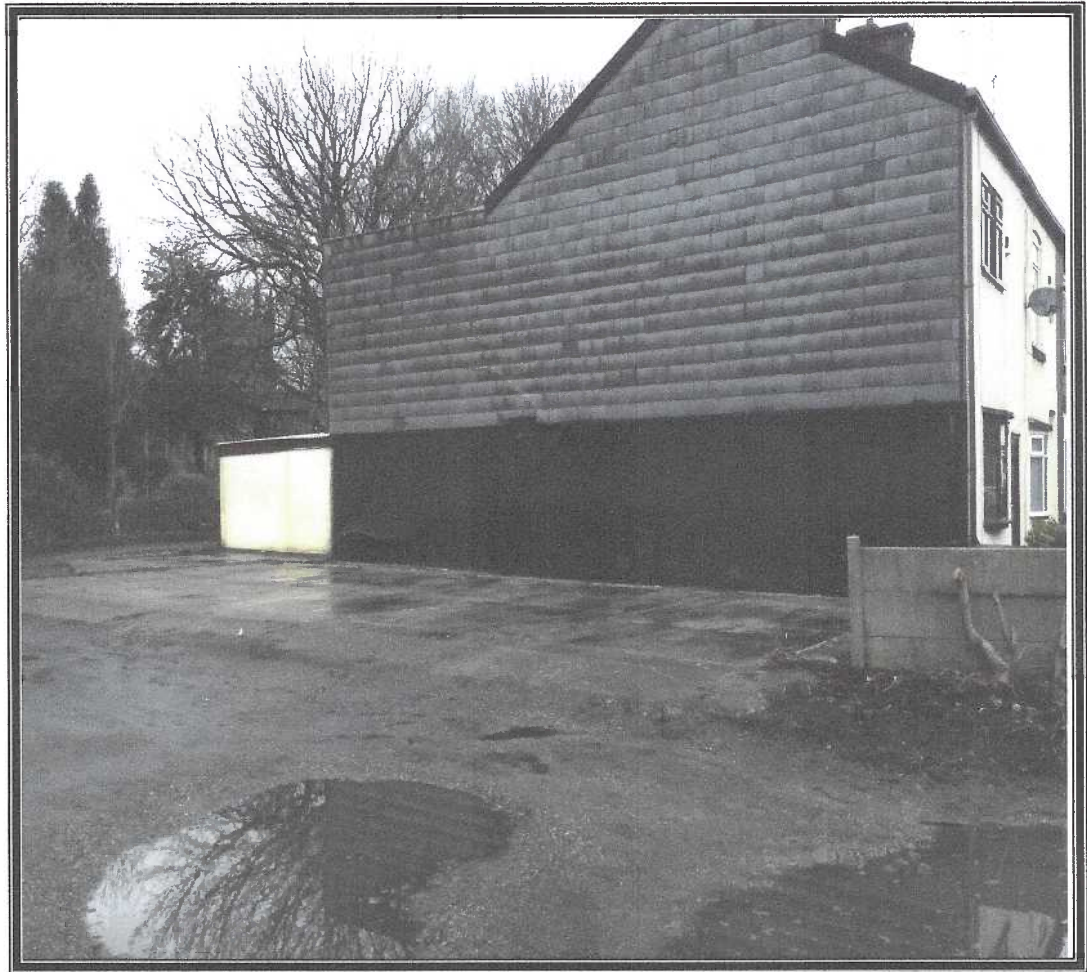


Report No: C265

Date: April 2018

**PRELIMINARY INVESTIGATION
of land adjacent to
18 BRADLEY FOLD ROAD, AINSWORTH, BURY,
GREATER MANCHESTER**



Prepared for
Mr Karl Rawston

Prepared by
G&M Consulting Ltd, The Chestnuts, Brackenhill Road, East Lound, Haxey, Doncaster
DN9 3GA





REPORT NUMBER:	C265	REPORT STATUS:	Final
REPORT TYPE:	Preliminary Investigation		
REPORT DATE:	April 2018		
SITE:	Land adjacent to 18 Bradley Fold Road, Ainsworth, Bury, Greater Manchester		
PREPARED FOR:	Mr Karl Rawston		
PREPARED BY:	G Swinbourne BSc. (Hons) MSc. DIC FGS		
REVIEWED BY:	A Swinbourne BSc. (Hons) FGS		

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C265/01	Site Location Plan
16/218/02C	Proposed Development Layout

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**PRELIMINARY INVESTIGATION
of land adjacent to
18 BRADLEY FOLD ROAD, AINSWORTH, BURY, GREATER MANCHESTER**

1.0 INTRODUCTION

G&M Consulting Ltd (G&M) was commissioned by Cape Site Services Ltd on behalf of Mr Karl Rawston to undertake a Phase 1 desk study of land adjacent to 18 Bradley Fold Road, Ainsworth, Bury, Greater Manchester. It is understood that planning approval (Ref 59997) has been granted by Bury Council for the development of the site with a single detached residential dwelling. This report has been prepared in support of the discharge of Condition 4 of the above approval.

A schematic layout drawing for the proposed development is shown on Drawing No 16/218/02C dated 21st June 2016, and presented in Appendix A of this report.

The aims of this investigation are as follows;

- To determine the land use history of the site from an inspection of available historical Ordnance Survey (OS) plans;
- To determine the environmental setting of the site, including the details of the geology, hydrogeology and hydrology;
- To determine whether the site has previously been used for any purpose that may have given rise to significant ground contamination;
- To determine whether the site is potentially at risk from historical shallow coal mining;
- Develop a Preliminary Conceptual Site Model; and,
- To provide recommendations for any further works, if required.

As part of the desk study, information was sourced from GroundSure Limited (GroundSure), British Geological Survey (BGS), Building Research Establishment (BRE), Coal Authority (CA) and the Environment Agency (EA). A site inspection (walk over survey) was also carried out on 26th March 2018.

This report is based on the data obtained from the preliminary investigation, it is limited to that data, and responsibility cannot be accepted for conditions not revealed by the investigation. Any diagram or opinion of the possible configuration of the ground conditions is conjectural and given for guidance only.

During the course of the site walk-over G&M did not note the possible presence of Japanese Knotweed on the subject site. However, it should be borne in mind G&M are not qualified ecologists and as such cannot guarantee the presence of knotweed or other invasive vegetation. If necessary the possible presence of such vegetation should be confirmed by a qualified ecologist.

This report is intended for the sole use of Mr Karl Rawston or his representative. No other third party may rely upon or reproduce the contents of this report without the written authorisation the report author. If any unauthorised third party comes into possession of this report they rely on it at their own risk and the author does not owe them any Duty of Care or Skill.

2.0 SITE DESCRIPTION.

2.1 Site Location.

The site is located in the suburb of Ainsworth, approximately 4km west of Bury town centre, at National Grid Reference SD 764 101. A site location plan is shown on Drawing No. C265/01, presented in Appendix A of this report.

2.2 Site Features.

The site is approximately 170 m² in area and is a roughly rectangular shaped plot of land, with the long axis running east to west. The site is a flat lying parcel of land, at approximately 165 m above Ordnance Datum.

The site currently comprises concrete hardstand across the majority of the surface. The concrete appears to be in a relatively good state of repair with no evidence of any significant cracks or any fuel/oil spills noted. (It is understood that the site, until very recently, was occupied by a set of domestic garages). The site is accessed from Bradley Fold Road, which runs adjacent to the eastern boundary. The gable end wall of the residence at 18 Bradley Fold Road, forms the northern boundary. An unsurfaced, (probably un-adopted) road/access runs along the southern boundary; this road extends to the rear of the site along the western boundary. Currently the site is not secured by a fence line adjacent to this road/access.

Photographs taken during the site walk-over survey have been retained by G&M and are available if required.

3.0 ENVIRONMENTAL SETTING.

A GroundSure report was commissioned, as part of this investigation, in order to review the environmental and regulatory information for the site and the immediate surrounding area. A copy of the report is presented in Appendix B of this report. A summary of the findings of the report and the general setting of the site is described below.

3.1 Site History

In order to investigate the history of the site, extracts of OS plans have been examined, dated from 1850, obtained as part of the GroundSure Report.

Below is a summary of the salient points relating to the history of the site. It is not the intention of this report to describe, in detail, all the changes that have occurred on or adjacent to the site, only those pertinent to the proposed development. This approach is intended to reduce uncertainty in the desk study review process to an acceptable level in line with BS10175:2013.

Date (Scale)	Site Usage	Surrounding Area Usage
1850 (1:10,560) County Series	The site is shown as undeveloped	- Sandstone quarry shown approximately 150m to the north east - Unlabelled road shown running along the eastern boundary - Christ Church shown approximately 75m to the north west
1890 (1:2,500) & 1980/1891 (1:10,560) County Series	Unlabelled building shown occupying part of the site	Residential development of Ainsworth shown approximately 50m to the north
1908/1909 (1:10,560) & 1910 (1:2,500) County Series	No significant change	Quarry shown approximately 350m to the north west
1927/1928 (1:10,560) & 1930 (1:2,500) County Series	Unlabelled building on site possibly a residence?	- Reservoir/tank shown approximately 400m to the north east - Residential development adjacent to northern and eastern boundaries - Sewage tank shown approximately 230m to the east - Road running to the east of the site now shown as Bradley Fold Road
1939 (1:2,500) & 1938 (1:10,560) County Series	Building no longer shown on site	- Continued residential development in the general area - Residences now shown adjacent to the southern boundary - Sewage tank no longer shown
1955/1956 (1:10,560) Provisional & 1955 (1:1,250) National Grid	No significant change	- Sandstone quarry to the north east now shown as a 'pond' - Ponds also shown approximately 250m to the south east - Melrose Nurseries shown approximately 75m to the south west - Pond shown approximately 130m to the north
1964/1966 (1:1,250) National Grid & 1965/1969 (1:10,560) Provisional	No significant change	- Quarry to the north west no longer shown 'Pond' (Former sandstone quarry) to the north east now shown as refuse tip - Further significant residential development of Ainsworth to the east.
1974/1975 (1:1,250) & 1974/1977 (1:10,000) National Grid	Series of small buildings now shown (probably garages)	Refuse tip no longer shown
1980 (1:10,000) National Grid	No significant change	No significant change
1992 (1:1,250) National Grid	No significant change	No significant change
2002 (1:10,000) Raster	No significant change	No significant change
2010 & 2014 (1:10,000) National Grid	No significant change	No significant change

3.2 Published Geology

Maps/publications referenced	BGS 1:50,000 Scale, Sheet 85 (Manchester) Bedrock and Superficial Edition Geological Memoir
Drift Geology	Devenesian age – Glacial Till; cohesive soils.
Solid Geology	Pennine Lower Coal Measures Formation – Mudstone/Siltstone/Sandstone
Dip	None shown locally
Faults	Normal fault shown approximately 250m to the north east; trending north-west to south-east; but is not expected to affect the proposals.

3.3 Hydrology

According to the GroundSure report the site is not located in a fluvial indicative floodplain.

The Groundsure report indicates there are two surface water features shown within 250m of the site. These are shown 238m and 249m to the south east. Based on a review of the OS plans, these features appear to relate to a series of ponds.

The site is shown not to be within a Source Protection Zone.

The site is shown not to be within a Nitrate Sensitive Area.

3.4 Hydrogeology

Information provided by the EA indicates that the underlying bedrock (Pennine Lower Coal Measures) are classified as ‘Secondary A’, which is defined as having;

‘Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers former classed as minor aquifers’

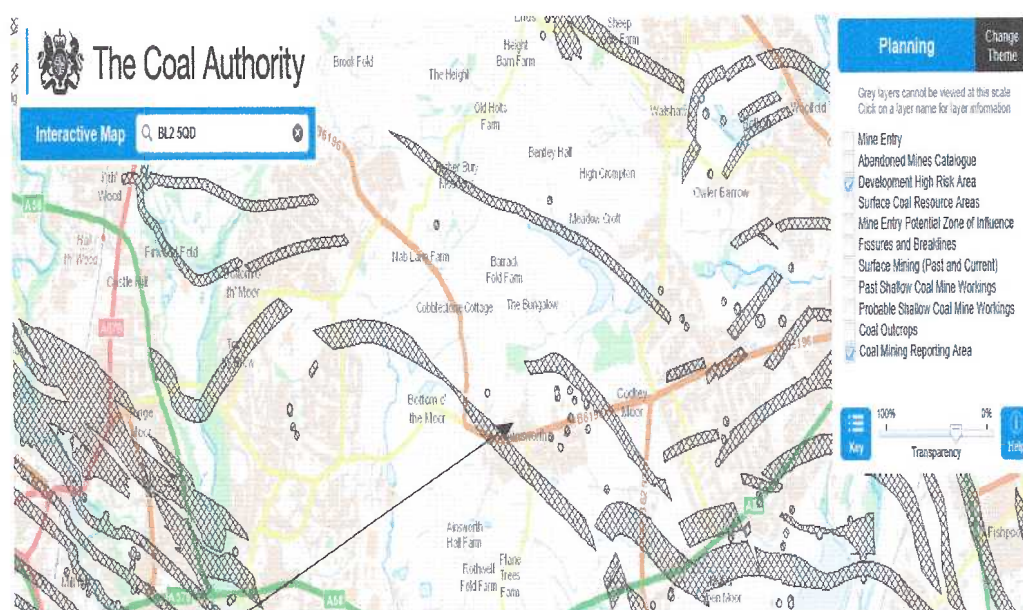
The superficial soils underlying the site are designated ‘Secondary (Undifferentiated)’, which is defined;

‘Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type’

3.5 Mining and Quarrying

Inspection of the OS Plans has revealed no evidence of quarrying on the site, or within the immediate environs.

The CA interactive map (<http://mapaps2.bgs.co.uk/coalauthority/home.html>) shows that the site does not lie within a ‘development high risk area’. It is however noted that the site does lie just to the north of such an area, see below.



The Site

3.6 Radon

To determine whether the site is at risk from radon gas, the BRE Document 'BRE 211 – Radon: Guidance on the protective measures for new dwellings' together with the National Radiological Protection Board (NRPB) 'Radon Atlas of England and Wales' have been referenced.

These documents indicate that the site lies within an area where **no** radon protective measures are necessary.

4.0 PRELIMINARY CONCEPTUAL SITE MODEL.

4.1 Introduction

The findings of the desk study have been used to identify and assess potential sources of contamination and to develop a preliminary conceptual model of the site in order to investigate potential pollution linkages and identify complete pollutant linkages that may require further investigation or analysis and/or remediation. This approach is in line with CLR11 (Model Procedures for the Management of Land Contamination - Environment Agency 2004).

The scope of the model is intended primarily to identify potential impacts to human health and environmental receptors from potential on-site and off-site contamination sources.

Source-Pathway-Receptor elements within the model are defined as follows:

Contaminant Source	A hazardous substance or agent, present at levels that have the potential to cause harm or damage a receptor.
Receptor	An entity (human, aquatic environment, flora and fauna etc) that is vulnerable to the adverse effects of the contaminant.
Pathway	The means by or through which a contaminant comes into contact with or otherwise effects a receptor.

Where all three elements are present, the relationship is termed a complete ‘pollution linkage’. It should be recognised that for a health or environmental harm to occur and for potential unacceptable risk to exist, all three elements of the relationship or linkage must be present.

In line with CLR11:2004, the purpose of the site specific conceptual model is to support:

1. Hazard assessment – analysis of the potential for unacceptable risk: pathways and receptors that could be present.
2. Risk estimation – a prediction of the magnitude and probability of the possible consequences of any exposure: what degree of harm may result and the likelihood of harm.
3. Risk evaluation – decision as to whether a risk is unacceptable.

It should be noted that if a potential contaminant source is identified but there is no receptor present that can be adversely affected, no harm or damage can arise. Similarly even where both a contaminant and a receptor are present, no harm or damage will occur if there is no pathway by or through which a linkage between the two can be established and therefore a risk may be acceptable.

In assessing risk, the categorisation shown below has been developed. The table is intended to be an aid to assessing the degree of risk. It should be noted that in terms of Part 2A of the Environmental Protection Act 1990 (as amended) there is no differing degree of risk. It is either ‘significant’ or not.

Term	Description
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate remedial action
High Risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action
Moderate Risk	It is possible that without appropriate remedial action harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst, if any harm was realised any effects would be mild.
Negligible Risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

4.2 Assessment of Potential Sources of Contamination

Potential sources of contamination have been assessed which include both current and historical on site sources together with those originating from off-site locations which may migrate onto the site.

Historical maps relating to the site indicate that the site remained undeveloped from at least 1850 until sometime before 1927 when an un-labelled building (probable residence) is shown. On the map dated 1939 this building is no longer shown, and the site then remains undeveloped up until sometime before 1974, when a series of small linked building are shown, which are considered to be domestic garages. These former site uses are considered potential sources of contamination.

The findings of the Groundsure report, presented in Appendix B, in relation to other potential pollution sources on and off site are shown below together with recommendations for further consideration.

Source	Location	Discussion	Does source warrant further consideration
Historic Tanks	On Site	None identified	No
Historic Energy Facilities	On site	None identified	No
Petrol and Fuel sites	On site	None identified	No
	Within 500m	None identified	
Garage/Motor Vehicle Repair	On site	None identified	No
	Within 250m	None identified	
Infilled Land	On site	None identified	No
	Within 250m	36 records predominantly to the north and north east of the site. The closest is shown a 'unspecified quarry' shown approximately 133m to the north east. Records in close proximity to this feature further detail 'pond' and 'refuse heap'.	Yes
Environmental permits/incidents/registers	On site	None identified	No
	Within 500m		
Licenced/Permitted/Authorised industrial sites	On site	None identified	No
	Within 500m		
Part A1/IPC Authorisations	On site	None identified	No
	Within 500m		
Red List discharge consents	On site	None identified	No
	Within 500m		
Dangerous substances	On site	None identified	No
	Within 500m		
A2/Part B Activities/Enforcements	On site	None identified	No
	Within 500m	Three shown. The closest of which is 331m to the south. The address is given as Sealocrete, Moorside Mill, Church Street, Ainsworth. The process is shown as Bitumen and Tar Processes and the permit appears to be current	
Radioactive substances	On site	None identified	No
	Within 500m		

Source	Location	Discussion	Does source warrant further consideration
Licenced Discharge Consents	On site	None identified	No
	Within 250m	None identified	
Water Industry Referrals	On site	None identified	No
	Within 500m		
Hazardous Substances	On site	None identified	No
	Within 500m		
Pollution Incidents	On site	None identified	No
	Within 500m		
Historic Landfill/Waste Sites	On site	None identified	Yes
	Within 250m	Three recorded 250m of the site. All appear to relate to the same landfill. Two are recorded on the historic maps dated 1963 and 1965. The main record details a landfill 145m to the north east. The site address is given as Delph Lodge, Ainsworth. The site reference is given as C086. Permitted wastes shown as industrial and household. No further details are recorded	
Waste treatment, transfer or disposal sites	On site	None identified	No
	Within 500m	None identified	
Operational landfill sites	On site	None identified	No
	Within 500m		
Underground cables/pipelines	On site	None identified	No
	Within 500m		
	General area	None identified	
Current Industrial Sites Data	General area	Two uses recorded within 250m, and shown as 'Industrial Coatings and Finishings' and 'Textiles, Fabrics, Silk and Machinery'	No

4.3 Potential Receptors

The following potential receptors have been identified for the site:

Receptor	Details
Human Receptors	Future site occupiers
	Construction workers
Controlled Waters	Secondary A Aquifer at depth (Pennine Lower Coal Measures Formation)

Receptor	Details
Built Development	Building foundations/substructures and utility connections.

4.4 Potential Pathways

Taking into account the intended use of the site, the following potential pathways by which the above receptors and sources may be linked as follows;

Receptor	Pathway
Human (Future site users, construction workers)	Ingestion of soil/soil dust Dermal contact with soil/soil dust Indoor inhalation of ground gas/vapours
Controlled Waters	Percolation and mobilisation of contaminants within any superficial soil into the groundwater.
Built Development	Direct contact with aggressive ground conditions via migration and/or percolation out of the ground

4.5 Qualitative Risk Assessment

The findings of the desk study, and source receptor pathway analyses, have been accounted for and assessed in the conceptual model presented below. The purpose of the model is to determine the potential linkage(s) existing on the site, and the likelihood of the linkage being present and determining a consequent level of risk.

Preliminary Conceptual Site Model

Source	Risk	Potential Contaminants	Likely Exposure Pathway/s	Receptor/s	Probability Assessment	Complete Potential Pollutant Linkage
Made Ground (On-site)	Low/Moderate	Inorganic and organic contaminants	Skin contact Ingestion	End users (residential) and construction workers	Site shown to have been historically developed at various times with a probable residence and a series of linked domestic garages. Potential contaminants from, but not limited to, fuel spillages and possible asbestos containing cement building products. Possible any made ground likely to be present on site	Possible – Further assessment required
	Negligible	Inorganic and organic contaminants	Leaching/migration of contaminants through soil	Controlled waters	Site shown to be underlain by glacial till cohesive soils with low permeability limiting any vertical and horizontal movement of potential mobile contaminants.	Unlikely – No further assessment required
					Historical landfill present 145m to the north east, accepting household and industrial waste. Last record	

Made Ground (off site)	Negligible/Low	Mobile inorganic/organic contaminants associated with former off-site uses	Inhalation	End users (residential) and buildings/Structures	shown on the OS map dated 1965. Considering any waste is likely to be over 50 years in age, unlikely to be still generating any significant amounts of ground gas. Subject site underlain by low permeability glacial till cohesive soils thereby limiting any vertical and horizontal movement of gas.	Unlikely – No further assessment required
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The preliminary conceptual site model does identify complete pollutant linkages that are considered to require further risk assessment and investigation, primarily made ground soils associated with the former site uses.

5.0 CONCLUSIONS AND RECOMMENDATIONS.

It is understood that a planning approval (Ref 59997) has been granted by Bury Council for the development of the site with a single residential dwelling. This report has been prepared in support of the discharge of Condition 4 of this approval.

A schematic layout drawing for the proposed development is shown on Drawing No 16/218/02C dated 21st June 2016, and presented in Appendix A of this report.

According to the Groundsure report the site does not lie within a fluvial indicative floodplain.

The CA interactive map (<http://mapaps2.bgs.co.uk/coalauthority/home.html>) shows that the site does not lie within a 'development high risk area'. Although the site is noted to lie just to the north of such an area.

Inspection of historical OS plans has not revealed any evidence of quarrying beneath the site.

Historical maps relating to the site indicate that the site remained undeveloped from at least 1850 until sometime before 1927 when an un-labelled building (probable residence) is shown. On the map dated 1939 this building is no longer shown, and the site then remains undeveloped up until sometime before 1974, when a series of small linked building are shown, which are considered to be domestic garages.

A historical landfill is shown 145m to the north east of the site, accepting industrial and household waste. The last record of this feature is shown on the OS Map dated 1965, therefore any wastes are likely to be over 50 years old, and the risk of ground gas generation of wastes of this age is considered low. Notwithstanding this, the subject site is shown to be underlain by low permeability glacial till soils, which are likely to minimise any lateral and vertical migration of hazardous gases beneath the site.

The preliminary conceptual site model does indicate a number of potential complete pollutant linkages, associated with the former and current site uses that require further assessment and investigation. Although risk (where present), is likely to be limited in extent/severity, and easily mitigated through normal development practices. No potential off-site sources of contamination have been identified as part of this desk study.

Based on the findings of this desk study report it is recommended that an intrusive geoenvironmental investigation is carried out to assess the risk identified receptors. The scope of the investigation should include the following:

- Excavation of trial pits across the site, with the recovery of selected samples of possible made ground and natural soils, from beneath the existing concrete slab, for chemical testing.
- Chemical testing of recovered soil samples and groundwater (if encountered) at a UKAS/MCERTS accredited laboratory.
- Preparation of a factual and interpretative Phase II Report, detailing the findings of the investigation, including a qualitative risk assessment and recommendations for the preparation of a Remediation Method Statement (if required)

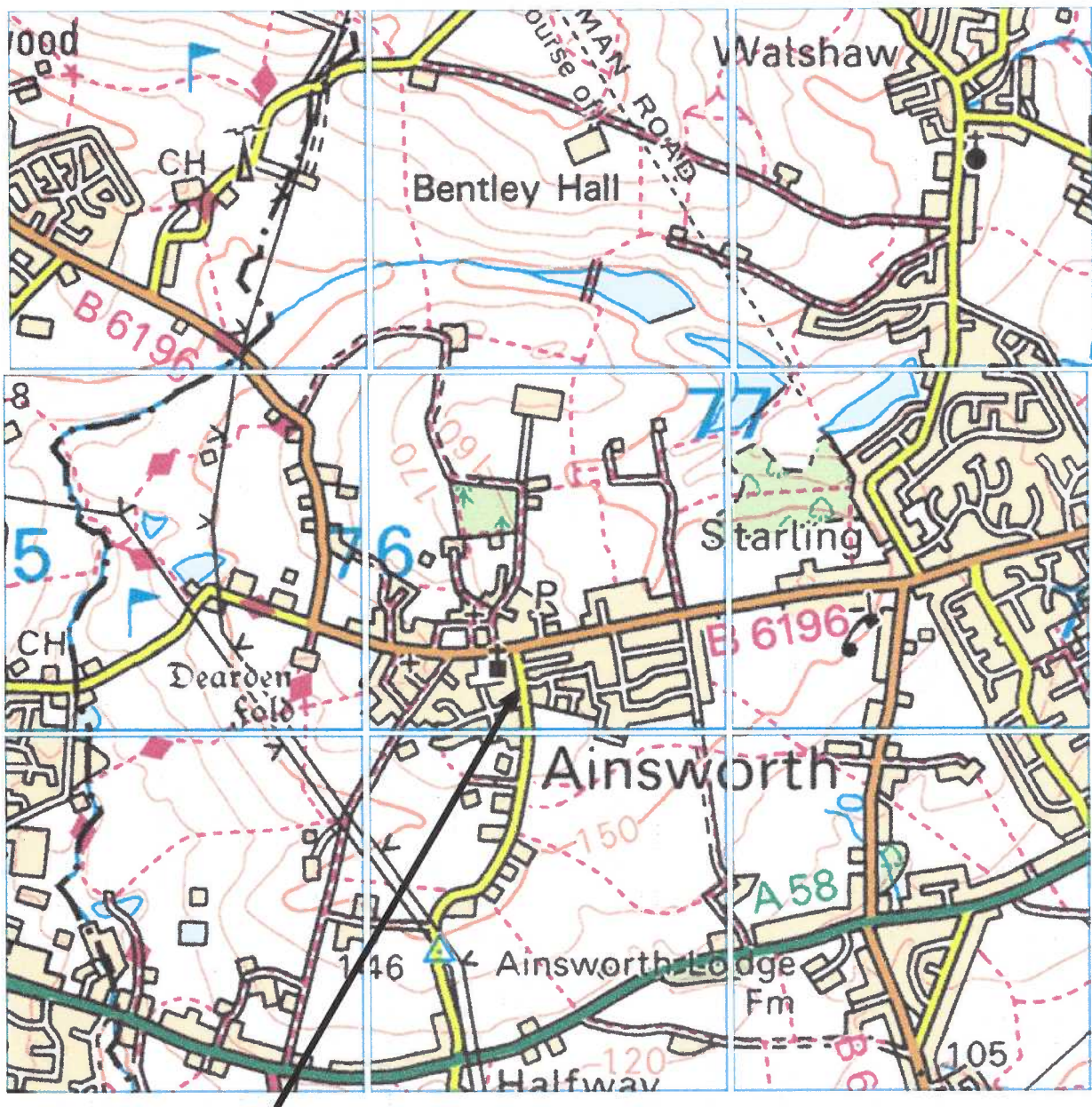
According to the BRE Document (BRE211) not radon gas protection measures are required for the development.

The conclusions and recommendations presented above are considered practical based on the findings of this report. However they cannot however be guaranteed to gain regulatory approval, and therefore this report should be submitted to the regulators for their comment/approval as part of the planning process and before any development work takes place.



APPENDIX A

DRAWING

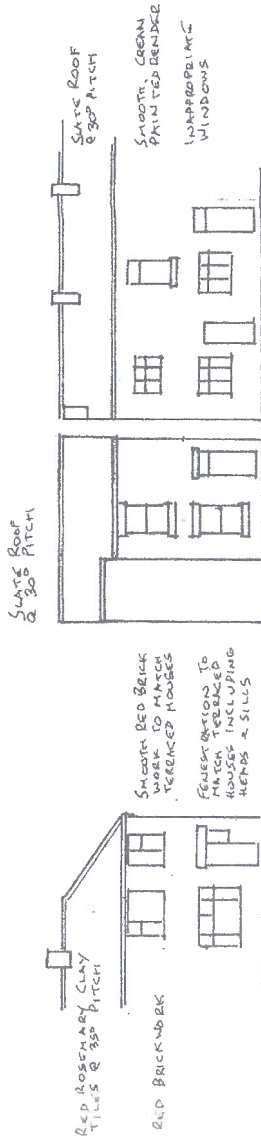


The Site

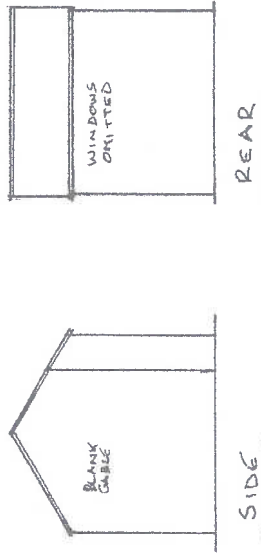
Site Location Plan Drawing No C265/01

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STREET SCENE



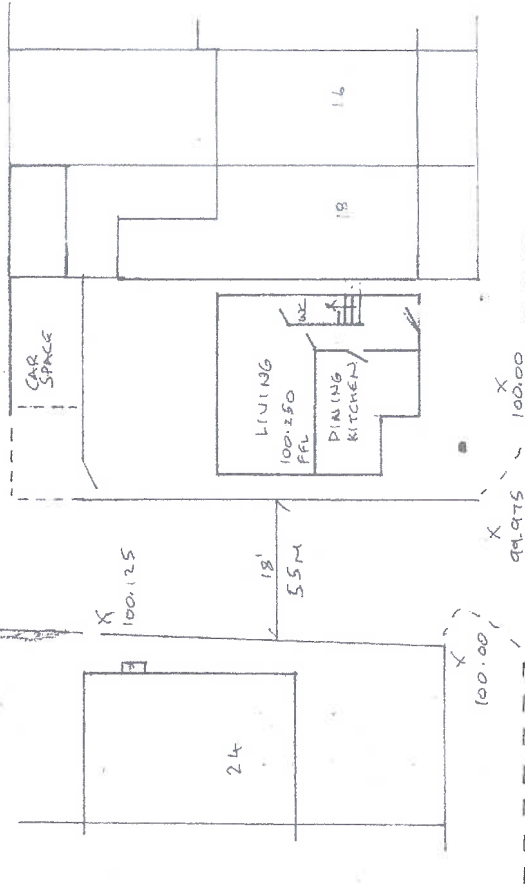
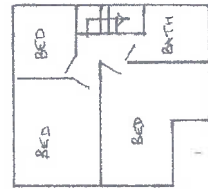
NOTE: SECTION OF UNADOPTED SIDE STREET WITH BRADLEY FOLD ROAD UNCHANGED. VISIBILITY IMPROVED WITH REMOVAL OF CONCRETE FENCE & HEDGE

2-C PROPOSED PLANS

INTERNAL LAYOUT FOR ILLUSTRATION ONLY
DIMENSIONS TO BE CONFIRMED BY
DETAILED SITE SURVEY

21/06/16 - REDRAWN DETAILS AMENDED
15/06/16 - SCALE DEMONSTRATED
31/05/16 - LEVELS ADDED
08/04/16 - ORIGINAL PLAN

FIRST FLOOR



GROUND FLOOR PLAN

DETACHED DWELLING
LAND BETWEEN 18 & 24 BRADLEY FOLD ROAD, AINSWORTH

SCALE 1:200 @ A3

21/06/16

16/218/02 C



APPENDIX B

GROUNDSURE REPORT

Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

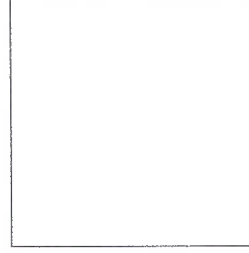
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Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised NIA
Edition 1850
Copyright NIA
Levelled NIA

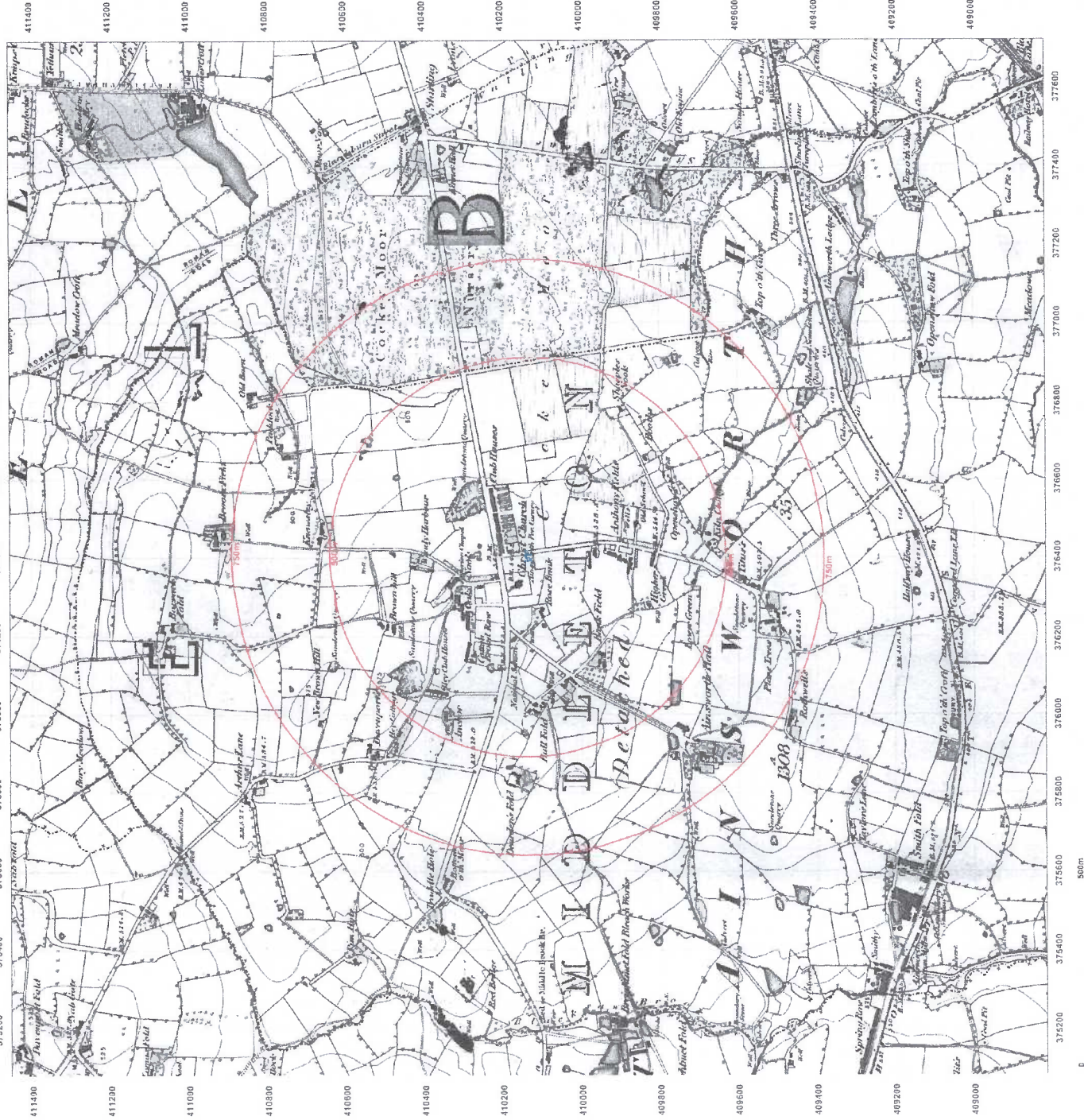


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

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Production date: 06 April 2018

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

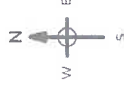
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Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1891
Revised 1891
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

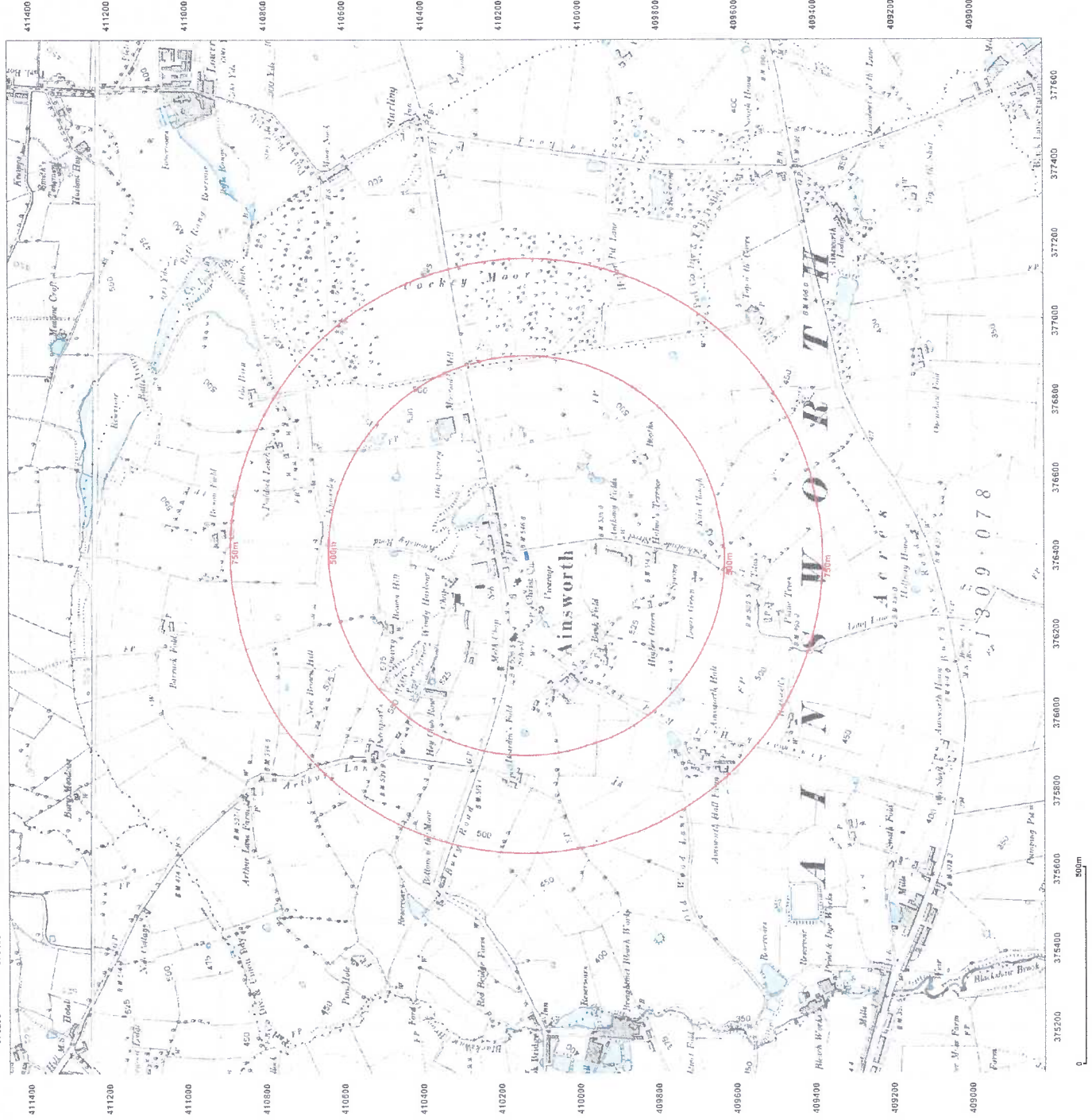


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Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

18, BRADLEYFOLD ROAD,
RADCLIFFE, BL2 5QD

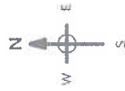
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Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1990

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

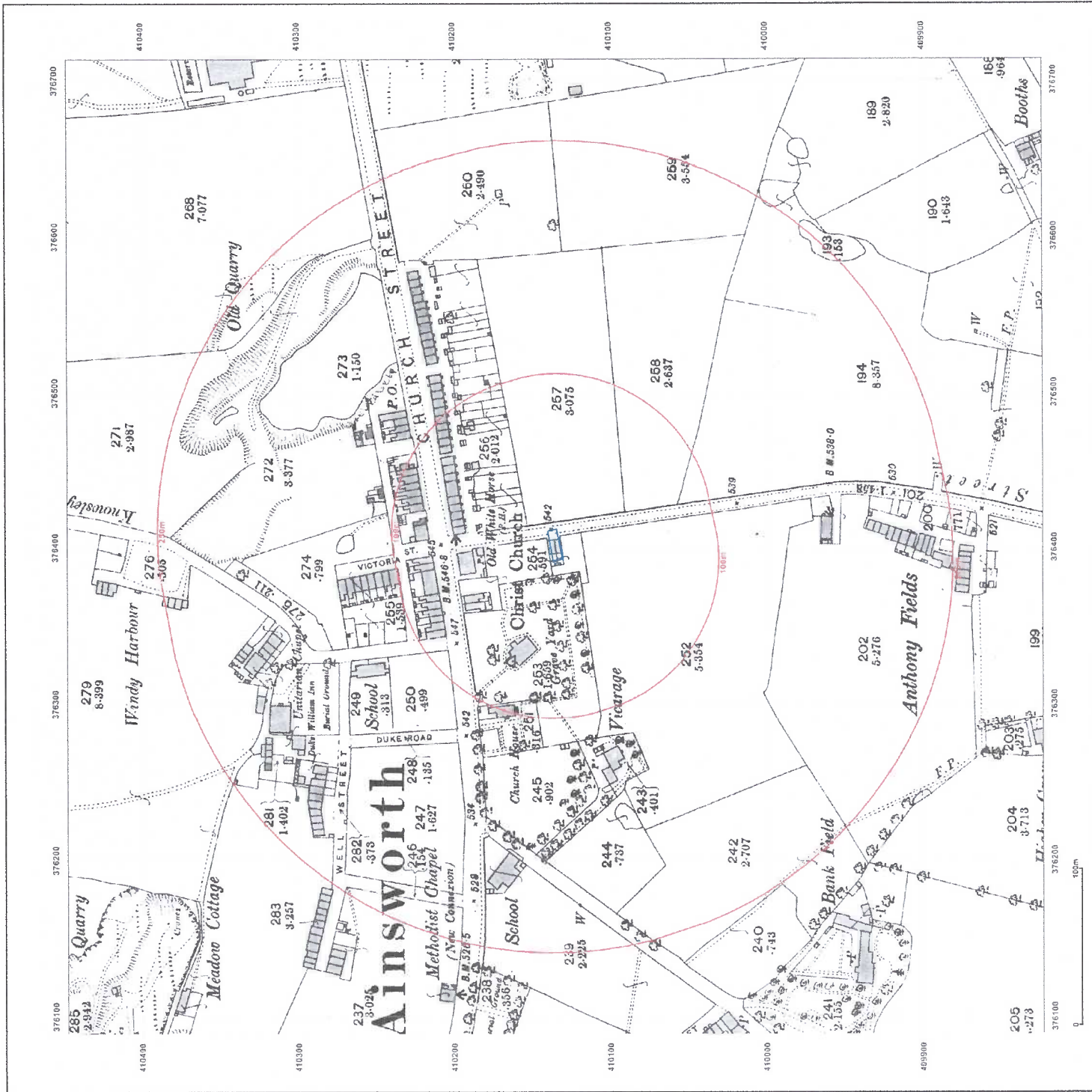


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Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



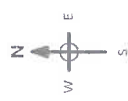
Site Details:
 18, BRADLEY FOLD ROAD,
 RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series
Map date: 1908-1909
Scale: 1:10,560
Printed at: 1:10,560

Surveyed 1844
 Revised 1908
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1844
 Revised 1908
 Edition N/A
 Copyright N/A
 Levelled N/A

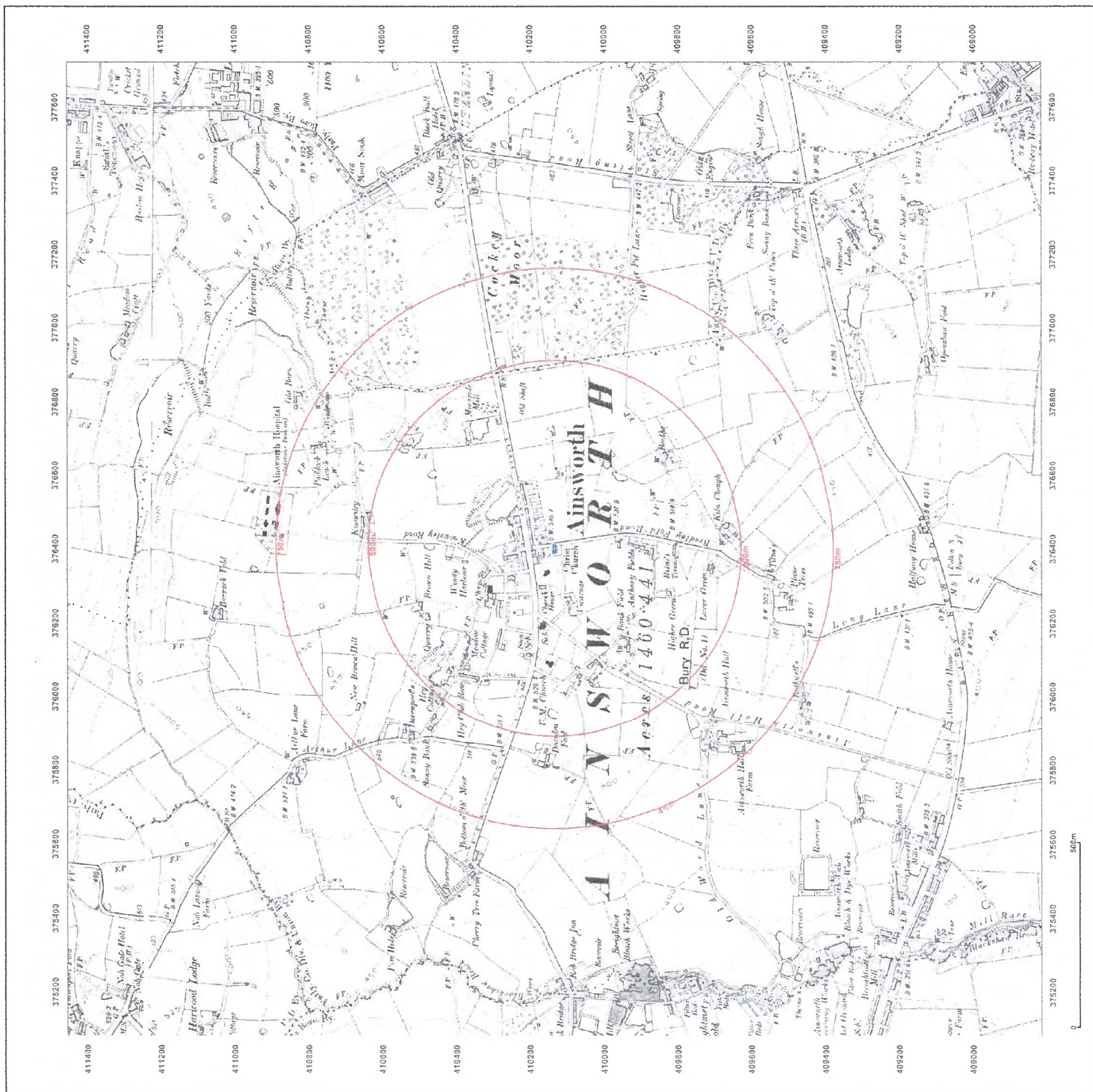


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
Copyright N/A
Levelled N/A

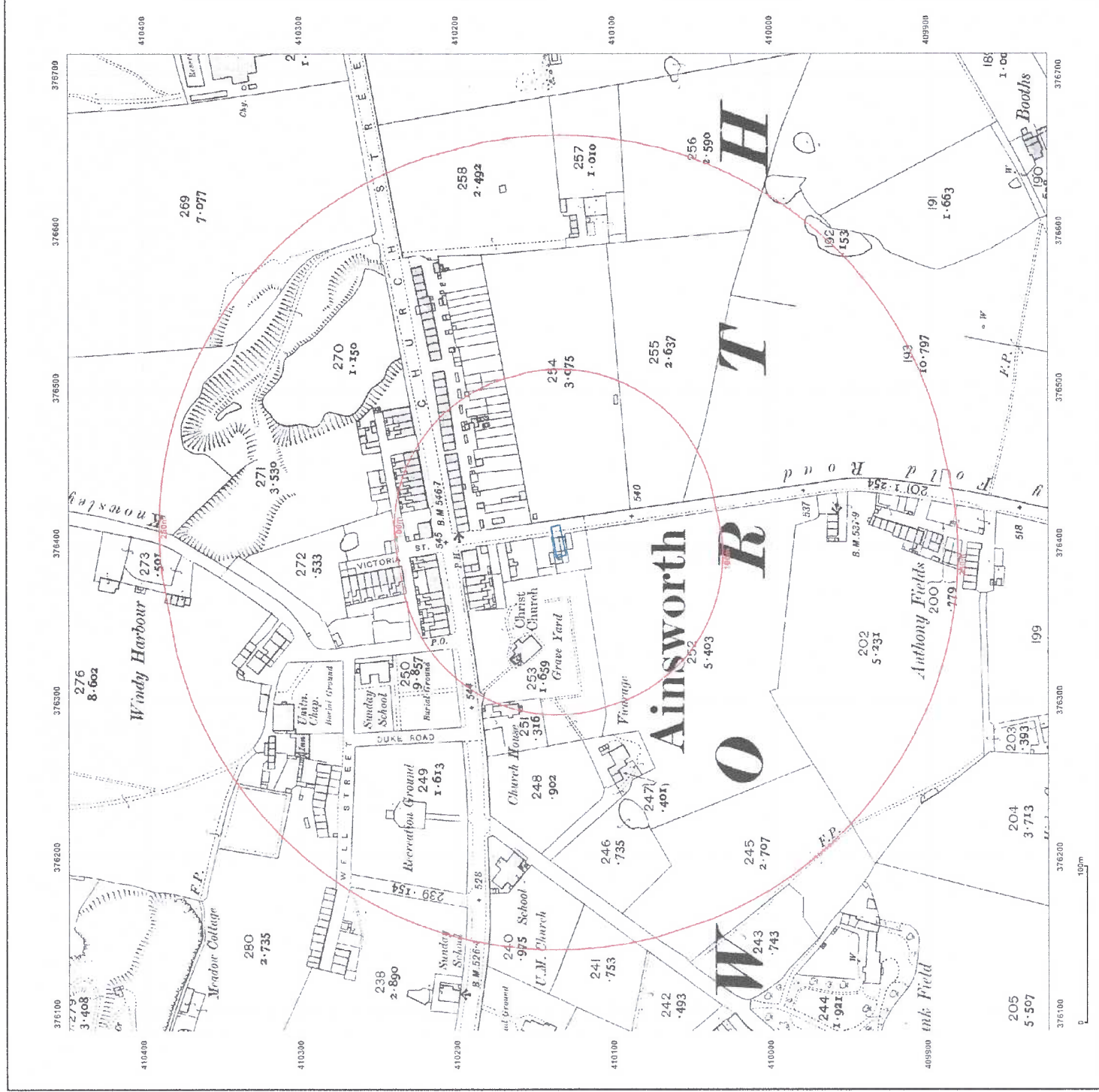


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1927-1928

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844	
Revised 1927	
Edition N/A	
Copyright N/A	
Levelled N/A	

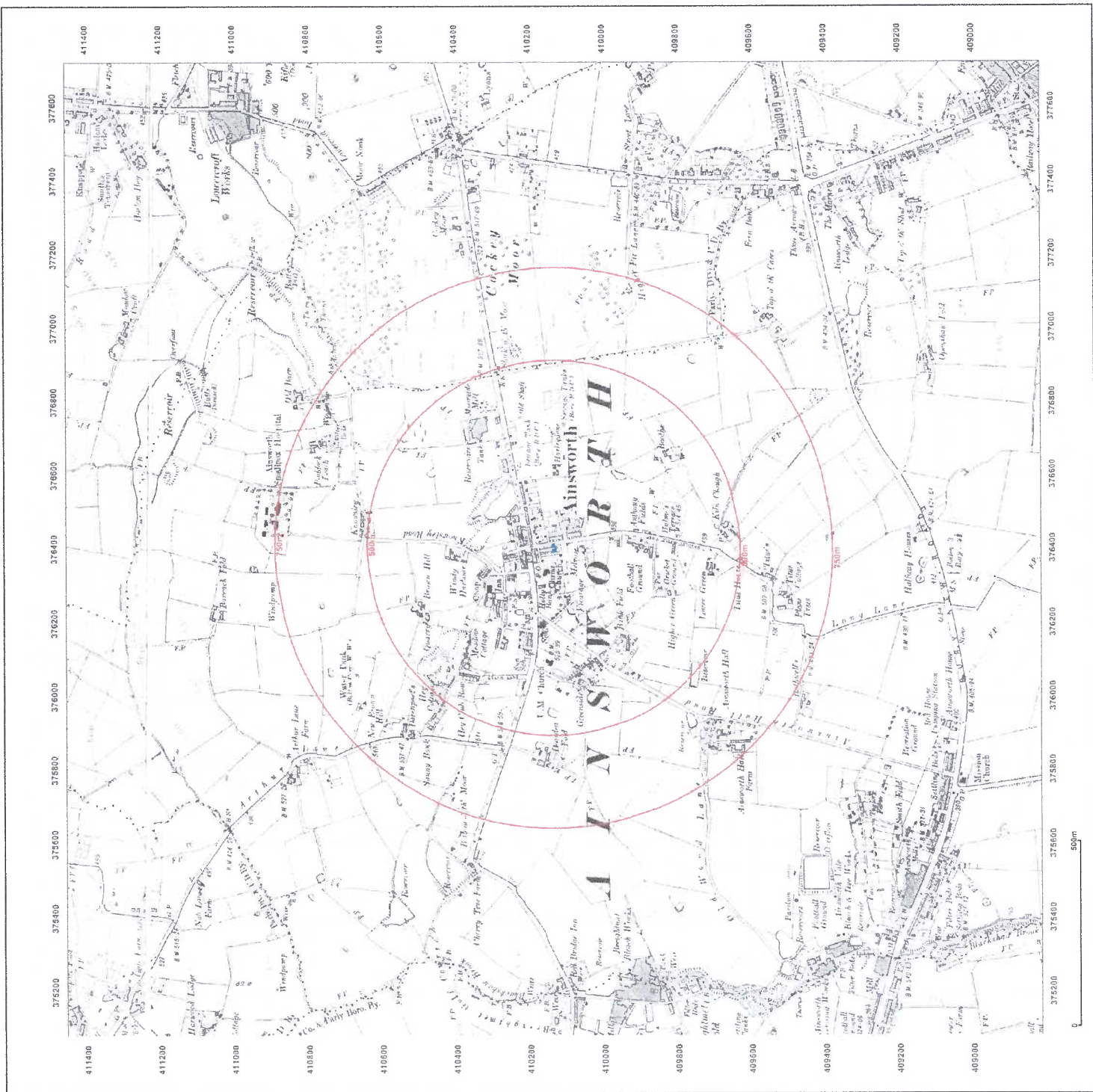
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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: G5-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

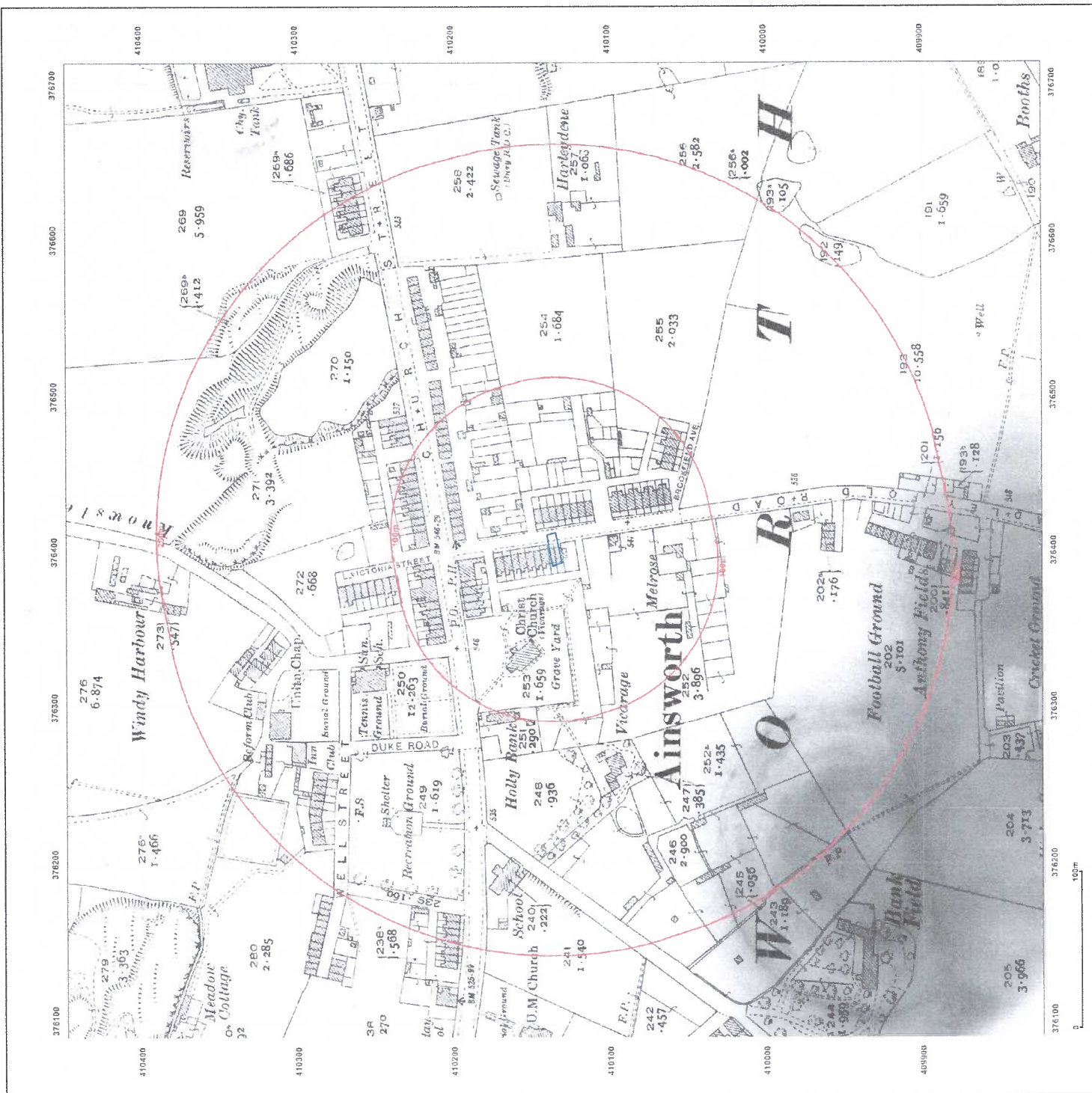


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: County Series

Map date: 1939

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1839
Revised 1939
Edition N/A
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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401.410135

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

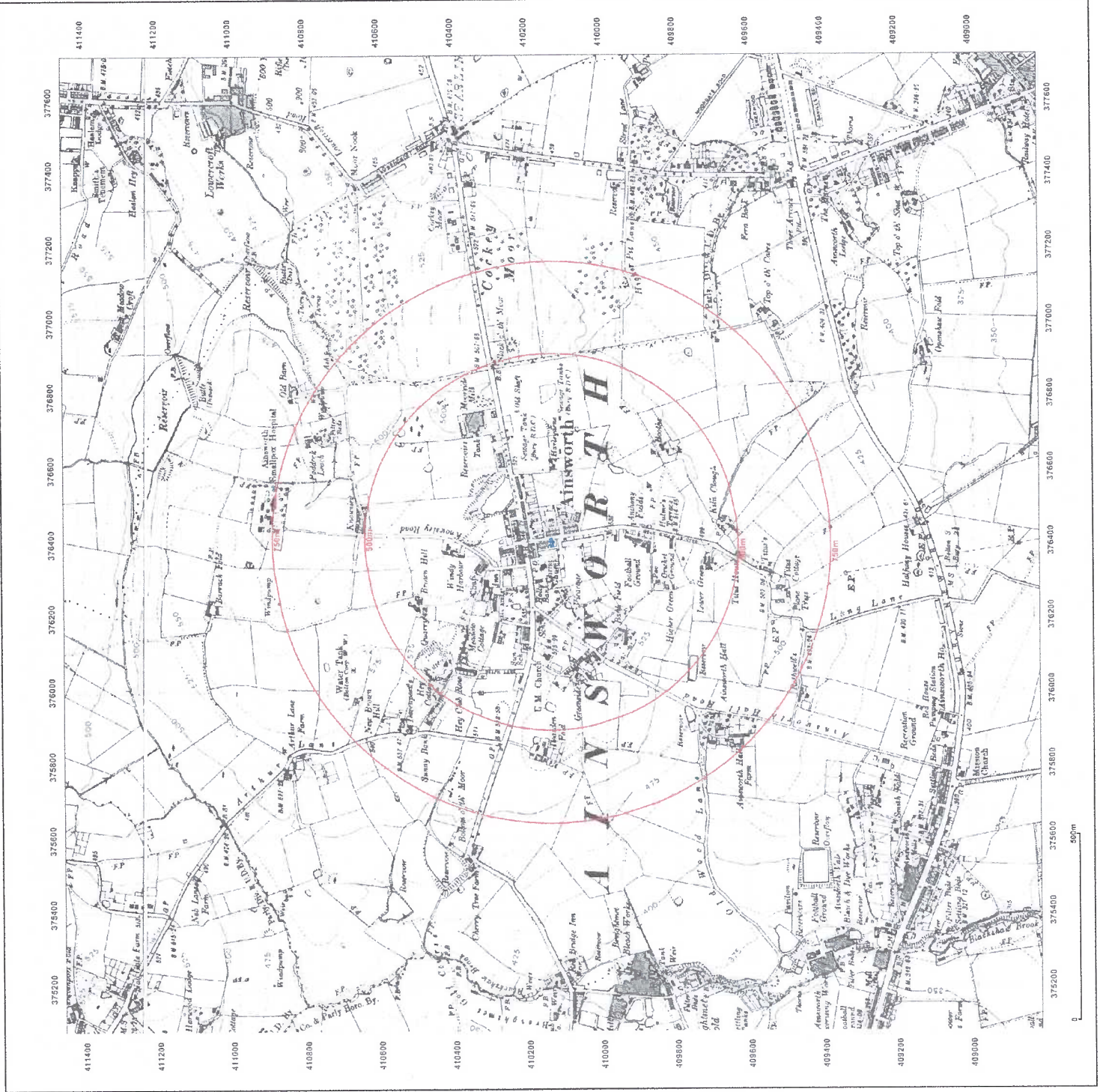


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1949
Revised 1949
Edition N/A
Copyright 1956
Levelled N/A

Surveyed 1950
Revised 1955
Edition 1955
Copyright N/A
Levelled N/A

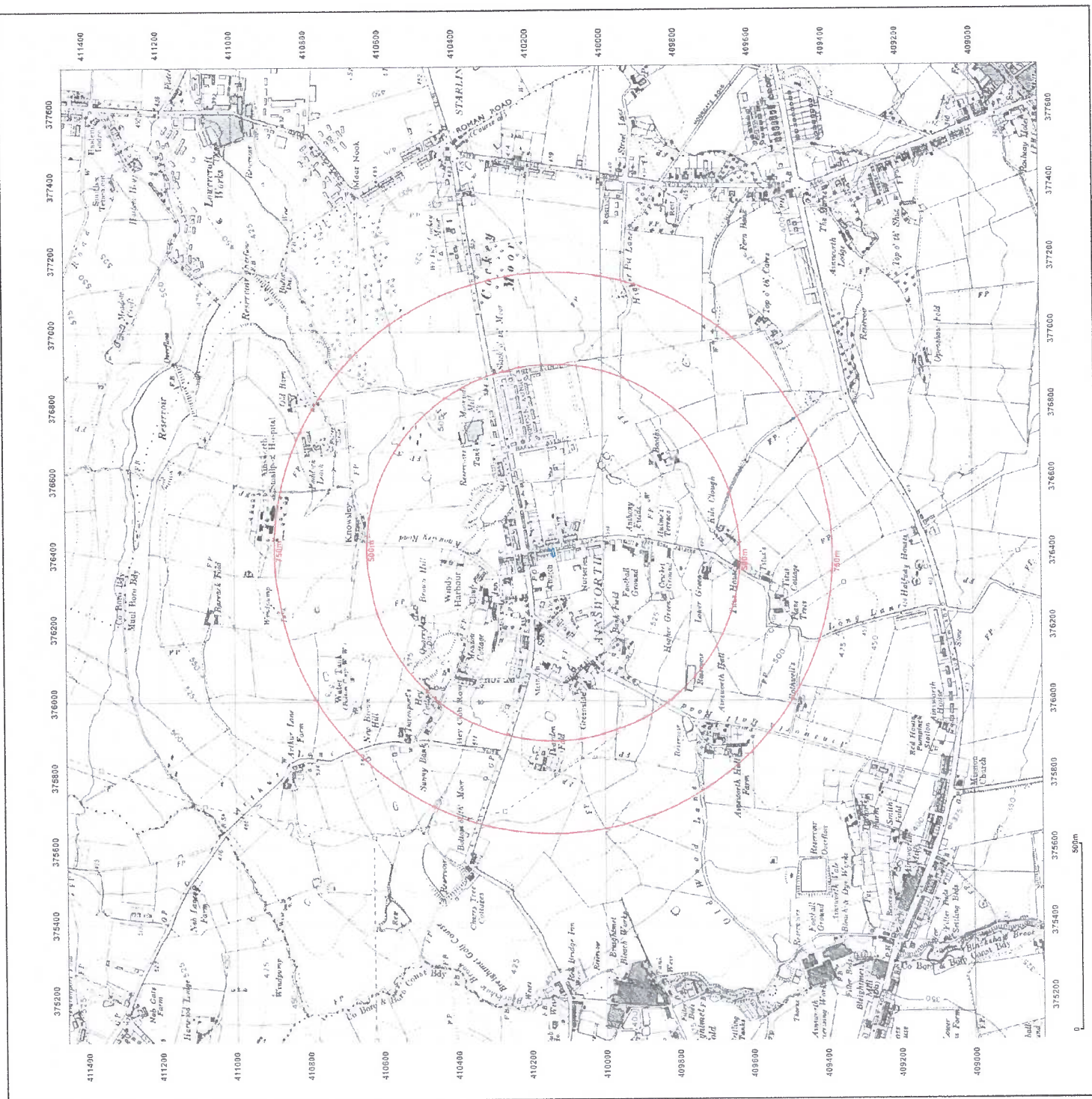


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1955
Revised 1955
Edition N/A
Copyright N/A
Levelled 1949

Surveyed 1955
Revised 1955
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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: Provisional

Map date: 1965-1969

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1969
Revised 1969
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

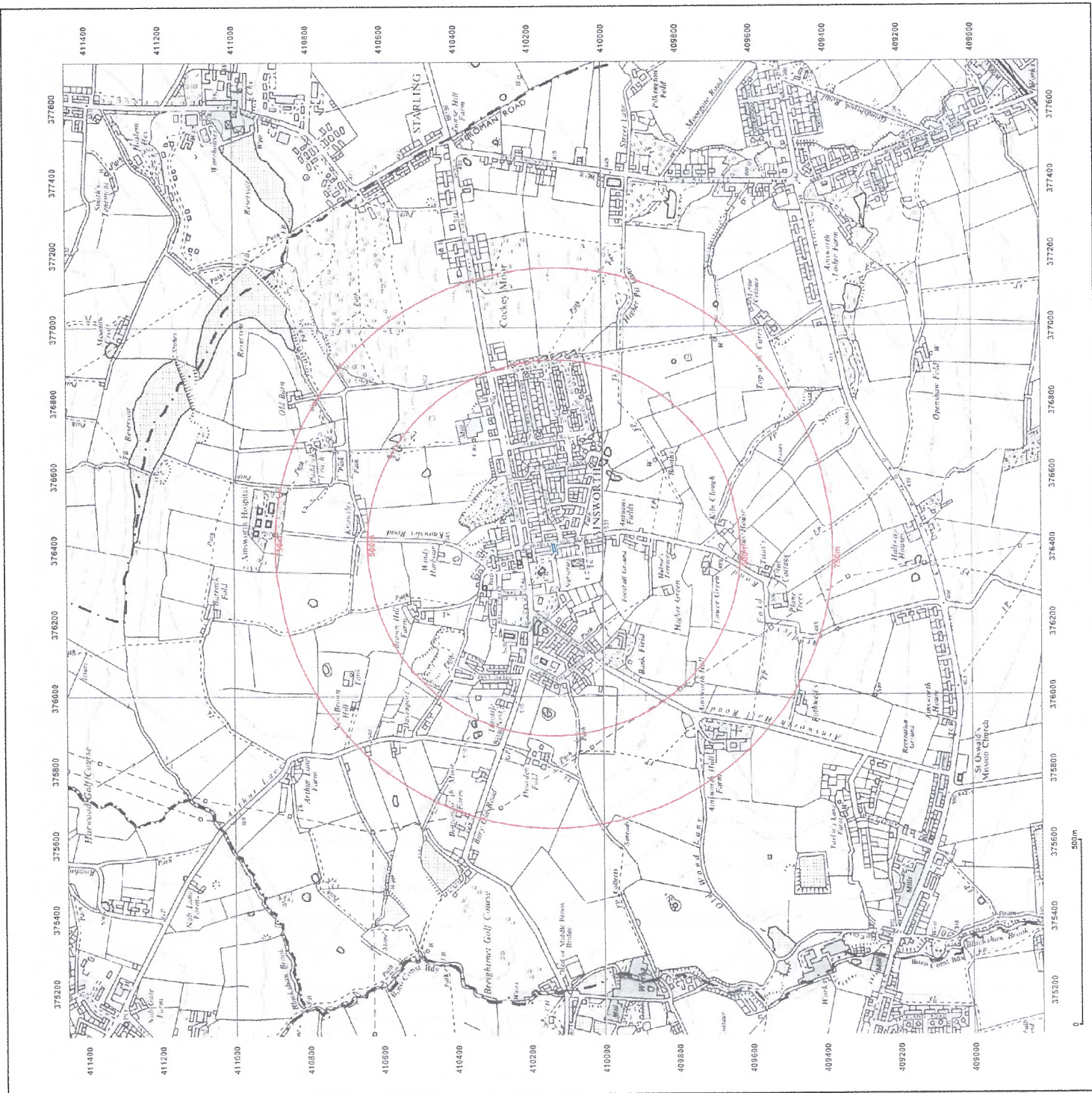


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Site Details:

18, BRADLEY FOLD ROAD,
RADCLIFFE, BL2 5QD

Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 1964-1966

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1955
Revised 1965
Edition N/A
Copyright 1965
Levelled 1962

Surveyed 1955
Revised 1963
Edition N/A
Copyright 1964
Levelled 1963



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Site Details:

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Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1855
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Surveyed 1855
Revised 1974
Edition N/A
Copyright 1975
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Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 1974-1977

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1976
Revised 1977
Edition N/A
Copyright N/A
Levelled N/A

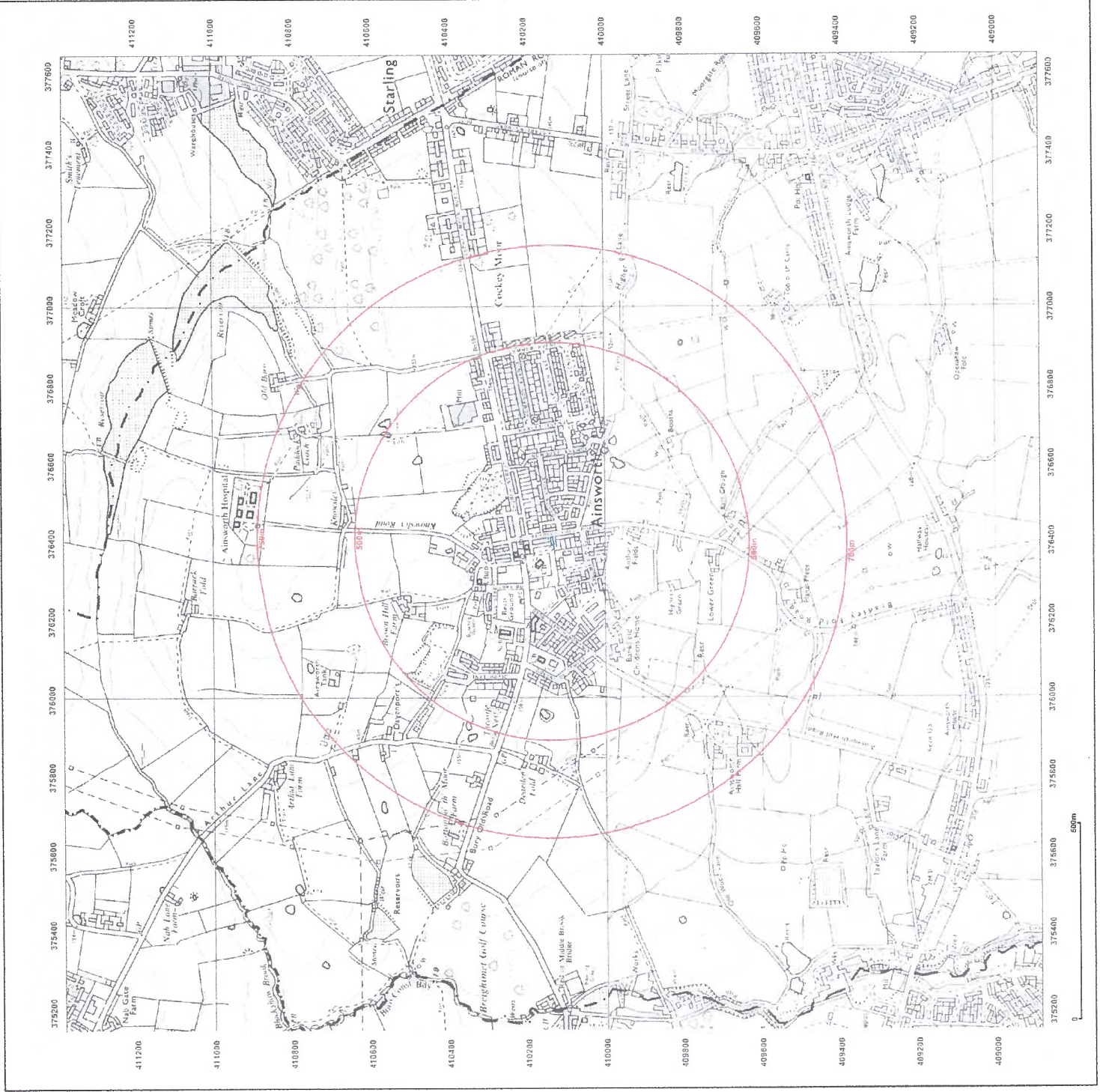
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Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

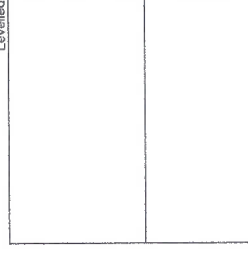
Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1978
Revised 1980
Edition N/A
Copyright N/A
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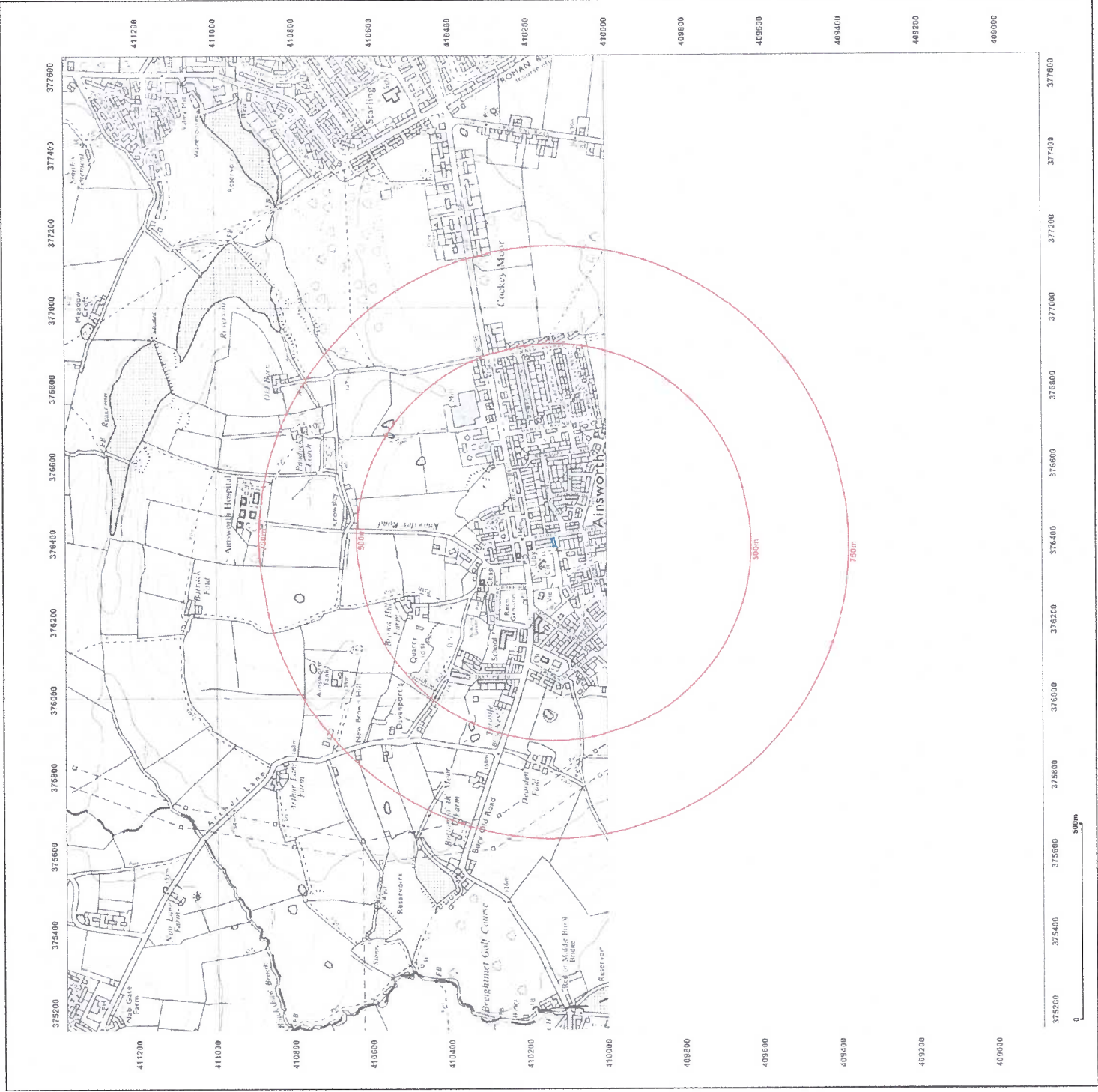
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Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
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Edition N/A
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Site Details:

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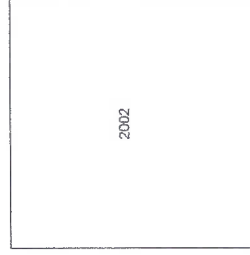
Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: 1:10,000 Raster

Map date: 2002

Scale: 1:10,000

Printed at: 1:10,000

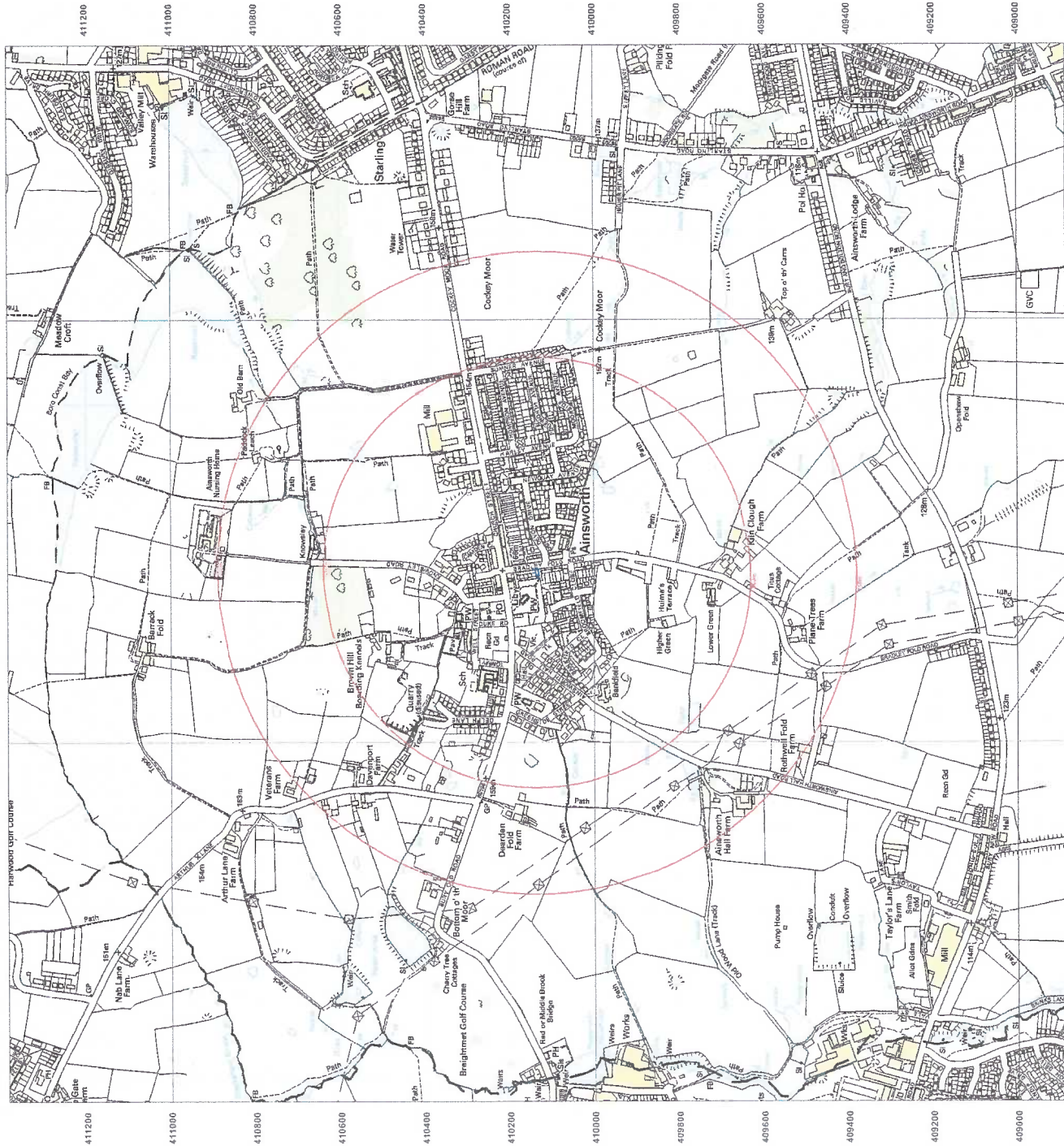


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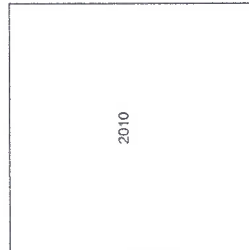
Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

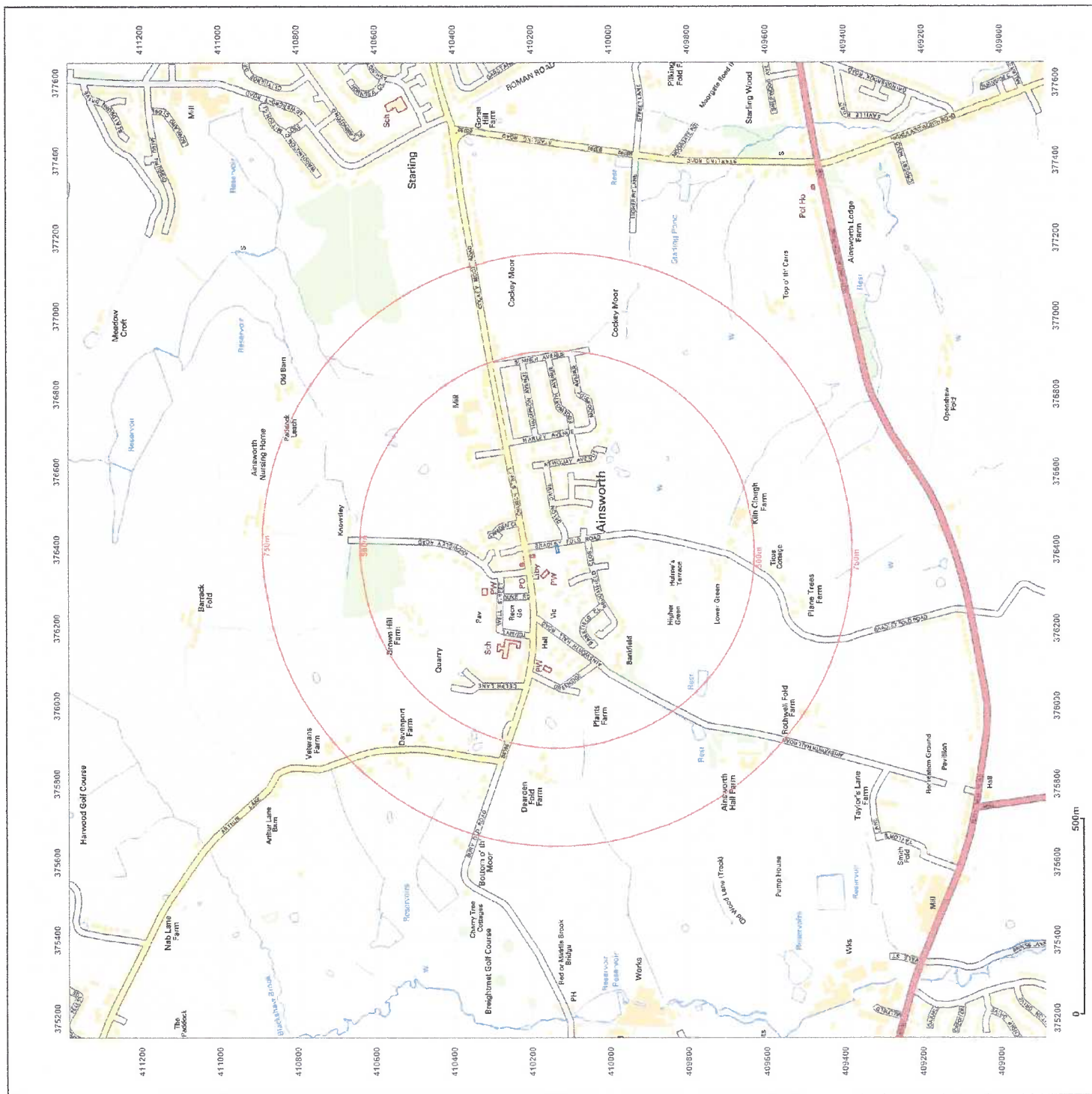


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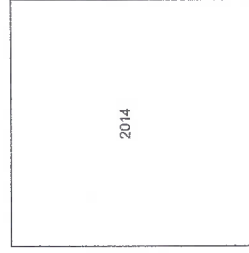
Client Ref: C265
Report Ref: GS-4864996
Grid Ref: 376401, 410135

Map Name: National Grid

Map date: 2014

Scale: 1:10,000

Printed at: 1:10,000



2014



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