

Phase 1 Desk Study and Preliminary Geoenvironmental Assessment

For a site at

Ferrous – Phoenix II

Undertaken for

Capital & Centric (Nineteen) Ltd

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CONTENTS

1.0	INTRODUCTION	1
	Appointment	1
	Proposed Development	1
	Objective.....	1
	Scope	1
2.0	SITE SETTING.....	2
3.0	ENVIRONMENTAL SETTING	3
4.0	HISTORICAL SETTING.....	6
5.0	PRELIMINARY CONTAMINATION RISK ASSESSMENT	7
	Introduction	7
	Preliminary Risk Assessment.....	10
6.0	PRELIMINARY DEVELOPMENT CONSIDERATIONS.....	11
7.0	SUMMARY AND RECOMMENDATIONS	12
	Site Investigation.....	12

APPENDICES

Appendix 01	-	Drawings
Appendix 02	-	Site Photographs
Appendix 03	-	GroundSure Environmental Insight Report
Appendix 04	-	Unexploded Bomb Risk Map – Preliminary
Appendix 05	-	Qualitative Risk Assessment Guidance

1.0 INTRODUCTION

Appointment

- 1.1 WML Consulting has been commissioned by Capital & Centric (Nineteen) Ltd to undertake a Phase 1 Desk Study and Preliminary Geoenvironmental Assessment of a site located off Chapeltown Street in Manchester.

Proposed Development

- 1.2 The project involves construction of a new 14 and 15-storey residential apartment building. It is assumed that the new building will not have a basement but will have plant at roof level and will include localised external soft landscaping.
- 1.3 The current proposed development plan is presented within Appendix 01.

Objective

- 1.4 The purpose of the desk study is to collate available geological and environmental data for the site and its environs in order to undertake a preliminary geotechnical and geoenvironmental appraisal and thus inform a site-specific conceptual model.
- 1.5 This enables a preliminary assessment of geo-environmental risks to be undertaken and provides information for the design of a geotechnical and geo-environmental ground investigation.
- 1.6 This follows current recommendations set out in the Environment Agency (EA) Land Contamination Risk Management, October 2020, updated April 2021.

Scope

- 1.7 The desk study has comprised a site walkover on 11th August 2021 and a review of the following information sources:
- British Geological Survey (BGS) 1:50,000 scale, Sheet 85 'Manchester' (Solid & Drift editions).
 - BGS Digital Geological Map of Great Britain (DiGMapGB-50; available as a web map service).
 - Coal Authority interactive map viewer (available as a Web Map Service).
 - The site and surrounding area's geological and environmental setting from data presented in the site specific GroundSure Environmental Insight Report (Appendix 03).
 - Historical Ordnance Survey maps as provided by GroundSure (Appendix 03).
 - BRE Publication 211 (2015) "Radon: Guidance on Protective Measures for New Buildings".
 - Review of free public sector information through QGIS viewer licensed under the Open Government Licence v3.0.
 - A review of available geological/geotechnical reports for the subject site.
 - Preliminary Review of UXO/UXB risks.

2.0 SITE SETTING

Description	Comments
Site Address	Land off Chapeltown Street, Manchester, M1 2BJ
National Grid Reference	385219E, 398060N
Site Area	0.14 hectares
Site Location	The wider site is bounded by:- North – Chapeltown Street with residential properties beyond. North-east – Area of hardstanding and electricity sub-station. South – Metrolink Line with Longacre Street beyond. West – Existing 10-storey Phoenix residential development.
Site Description	The site comprises an area of maintained grass landscaping. A CCTV service box is located close to the southwestern part of the site and a row of lamp-posts are located on the northern site boundary. The southern and south-eastern site boundaries are formed by a Metrolink line which is located in a cutting in the north-eastern part, formed by a brick retaining wall with a line of electricity cables extending along its route, close to the site boundary. Manholes located in the north-western and southern corners of the site together with a rodding-eye close to the south-western site boundary, indicate the presence of a sewer, although its extent is unknown at this time. The north-eastern boundary of the site is demarcated by a billboard and is otherwise surrounded by timber knee-rail fencing restricting vehicular access from the north. The southern and south-eastern boundaries access is restricted due to the tramline. Photographs of the site are provided in Appendix 02.
Topography	The topographical survey by Survey and Engineering Projects, referenced S21645-T, is provided within Appendix 01. This indicates that the site slopes very gently west/south-west from approximately 47.40m Above Ordnance Datum (AOD) in the north-eastern corner to around 46.10m AOD at the western corner of the site. The surrounding area is generally level with the exception of the south-eastern site boundary where the neighbouring Metrolink line extends into a cutting accommodated by a brick retaining wall. The tramline elevation is roughly 46.35m AOD to the south-west of the site, reducing to around 43.20m AOD immediately before it extends beneath the road bridge to the north-east.

3.0 ENVIRONMENTAL SETTING

3.1 The following sections on the environmental setting of the site are summarised from the GroundSure Enviro Insight Report and a review of the information sources outlined within Section 1.7.

Description	Comments	
Geology (1:10, 000, 1:50,000 scale Map Sheets and digital mapping)	Artificial Deposits	None recorded.
	Superficial Deposits	Devensian Glacial Till comprising mainly clay but possibly with interbedded sand and gravel horizons.
	Solid Strata	Triassic Chester Pebble Beds Formation indicated to comprise sandstone.
	Geological Faults	None indicated within 240m of the site.
	BGS Records	None within 50m.
Historical Investigations	None within the subject site. Historical ground investigations in the wider site area generally recorded made ground from ground level up to depths of approximately 2.60 metres below ground level (mbgl), this being underlain by firm to very stiff Glacial Till to depths of between 8.40m and 8.70mbgl. Below these depths, completely weathered Triassic Pebble Beds were recovered as a sand to depths of up to 11.00mbgl underlain by a weakly cemented sandstone.	
Mining and Subsidence	In consideration of the underlying geology, the risk from shallow coal mining activity at the site is considered low and can be discounted. This is confirmed by Coal Authority Interactive Website records which confirms the site not to be within a 'development high risk area'. The risk from non-coal mining activity at the site is also considered very low.	
Radon	The site is not in Radon Affected Area as defined by Public Health England where less than 1% of properties are above the Action Level of exposure. Therefore, no radon protection measures are necessary for new structures as described in publication BR211 by the Building Research Establishment.	
Hydrogeology	Superficial Aquifer	Secondary Undifferentiated 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
	Bedrock Aquifer	Principal Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale.

Description	Comments			
	Source Protection Zone (SPZ) within 500m	None.		
	Groundwater Abstractions within 1km	None active.		
Hydrology	Surface Water Features within 250m	Ashton Canal 47m north-west.		
	Surface Water Abstractions within 1Km	None.		
Landfill and Waste Management Activity	Active Landfills within 500m	None.		
	Historical (Environment Agency (EA)/Local Authority) Landfill within 250m	None.		
	Other Waste Sites within 250m	None.		
Industrial Land Use Information	There are 42no potentially contaminative industrial sites recorded within 250m of the subject site. The closest relate to:-			
	Distance (m)	Direction	Activity	
	14	SW	Factory	
	53	SW	Chimney	
	55	S	Vehicle Repair, Testing and Servicing	
	Underground High Pressure Pipelines within 500m		None.	
	Petrol Filling Stations within 250m		None.	
Environmental Permits, Incidents and Registers	Active Permits Incidents/Registers		Distance (m)	Comments
	IPC Authorisations, Part A(1),		250	None
	Part A(2) Authorised Activities		250	None
	Part B IPPC Authorised Activities		250	1no active for Waste Oil Burner 39m SW
	List 1 or List 2 Dangerous Substances Inventory Sites		250	None
	Radioactive Substance Authorisations		250	None

Description	Comments		
	Recorded Pollution Incidents	250	1no with minor impact from mixed/waste oils 217m north-east.
	Contaminated Land - Section 78R of the Environmental Protection Act 1990	250	None
Potential Flood Risk	Detailed assessment of flood risk is outside the scope of this report. However, reference to the EA website and the Groundsure report indicates that the risk of flooding from rivers and the sea (RoFRaS) is currently designated as 'very low'. The site is indicated on BGS records to be within an area which is considered to have a low risk of groundwater flooding.		
Environmentally Sensitive Sites	There are no designated environmentally sensitive sites recorded within 250m of the subject site. However, an ecological assessment of the site falls outside of the brief of this report and it is recommended that an ecological specialist be consulted where considered necessary.		
Archaeological Information	No archaeological information has been obtained for the purpose of this report. Where considered appropriate, reference should be made to an archaeological consultant in this respect.		
UXO	The site is within an area indicated to be at medium risk from Unexploded Bombs (UXB's) associated with World War II. The Preliminary Bomb Risk Plan by Zetica in Appendix 04 indicates that a moderate risk is an area where the bombing density is between 15 to 49 bombs per 1000 acres. The 1948 Groundsure plan also indicates a series of 'ruins' located approximately 90m east of the site on Great Ancoats Street which, due to their age may be associated with air raid damage. Therefore, risks of unexploded ordnance within the area of the proposed new structure cannot be discounted at this stage. However, the Zetica plan does not form a UXO risk assessment and is provided for preliminary guidance only. Therefore, a Preliminary UXO survey may need to be undertaken as part of the planning application.		

4.0 HISTORICAL SETTING

- 4.1 The historical development of the site has been determined by reference to archive Ordnance Survey (OS) map extracts obtained from the GroundSure EnviroInsight Report in Appendix 03.
- 4.2 The earliest map dated 1848 indicates the site to comprise mixed residential terraced structures, together with back-to-back housing described as Whitaker's building and an Iron Foundry, later with a chimney. Chapel Street formed the north-western site boundary with Fair Street extending north to south-west in the extreme west of the site.
- 4.3 The site remained relatively unchanged until reconfiguration of the Dolphin Foundry (Iron) in 1932. By this time, the back-to-back houses had been cleared with the terrace structures remaining along Chapel Street.
- 4.4 By 1948, the remaining residential structures had been cleared with the Iron Foundry remaining in the south and western sections although modified in the central section.
- 4.5 By 1978, the Iron Foundry had been cleared and the central and western sections of the site redeveloped as a warehouse which extended southwards outside of the current site boundary. This remained until sometime in the 2010s when the site was cleared.
- 4.6 Between 2017 and 2020 the adjacent residential tower block and the tramline were constructed to the west and south respectively. Anecdotal information indicates that the western section of the site was used as a construction laydown area during the adjacent development before being landscaped into its 2021 configuration.
- 4.7 The area surrounding the site has historically comprised mixed residential and industrial development, including Phoenix (Brass, Iron & Machinery) Works immediately to the west and Chapel Street (Cotton) Mill and Victoria Iron Works both 10m north.
- 4.8 Many of the surrounding residential properties were cleared between 1932 and 1948 prior to industrial redevelopment, including an Engineering Works immediately north-east and a Box Factory immediately south-west on the site of the recently constructed Ferrous I building, with the Crusader Stationary Works to the north and south of Chapel Street further to the west.
- 4.9 Historical industrial development in the wider surrounding areas included:
- Garage – 10m north.
 - Bacon Factory – 25m north-east.
 - Pollard Street (Cotton) Mill – 75m north-east.
 - Grain Store – 100m east.
 - Ancoats Goods Station – 125m south-east.
 - Iron & Steel Warehouse – 150m north.
 - Clothing Factory – 150m north.
 - Vulcan (Iron) Works – 175m north-east.
 - Soho (Chemical) Works – 200m north-east.
- 4.10 More recently, the wider area has been cleared of industrial structures and redeveloped with multi-storey residential structures including those on the land immediately north and west of the site.
- 4.11 On the basis of the site's past industrial use in the central and western sections as an Iron Foundry, the presence of ground contamination associated with historical industrial processes cannot be discounted.
- 4.12 The presence of Asbestos Containing Materials (ACM) and asbestos fibres within near surface deposits resulting from historical site demolition cannot also be discounted.

5.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Introduction

- 5.1 The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site as defined by DEFRA and the EA Land Contamination Risk Management, October 2020, updated April 2021.
- 5.2 The table in Paragraph 5.4 provides a Preliminary Conceptual Model (PCM) which defines the site in terms of a potential contamination linkage, that is, whether a pathway exists between a contamination source and a sensitive environmental receptor (Source-Pathway-Receptor relationship).
- 5.3 The table considers whether a contamination linkage is potentially present or not and provides a preliminary qualitative assessment of risk, based on the information currently available and in accordance with guidance provided in the CIRIA document C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice. The risk evaluation process is described further in Appendix 05.
- 5.4 Where a possible linkage is identified, it does not necessarily mean that a significant risk exists, but indicates that further information is required through appropriate site investigation to substantiate the conceptual model.

Source	Pathway	Receptor	Probability of Linkage	Comment
The presence of significant ground contamination sources due to the site's past use cannot be wholly discounted at this stage, although these may be localised in nature. The presence of ACM within shallow soils cannot be discounted at this stage.	Direct contact, ingestion of soil, dermal contact, dust exposure pathways.	Current Site Users	Unlikely	Due to the transient nature of site use, no significant long-term direct exposure scenario is considered likely. Therefore, the risk to current site users is considered LOW .
		Site End Users	Low	The provision of new buildings and hard cover would maintain a break in the direct contamination linkage to a large degree. However, a direct exposure route could remain within any proposed landscaped areas should made ground be exposed at the surface. Therefore, the risk to site end users from direct contact with contaminated ground is considered MODERATE/LOW .
		Construction Workers	Unlikely	Construction workers could potentially be exposed to contaminated soils during earthworks and foundation construction. Any perceived contamination risks will, however, be mitigated by adopting good site working practices including appropriate Health and Safety measures during the works, thus providing a LOW preliminary risk.
		Adjacent land users	Unlikely	Contact via wind-blown dust/debris, particularly during the development phase is possible. The current risk is considered VERY LOW although this would increase during construction works. Appropriate control measures, including dust suppression, adopted as part of good site working practices will mitigate any perceived risk in this respect.

Source	Pathway	Receptor	Probability of Linkage	Comment
The presence of significant soluble and/or liquid and therefore potentially mobile contamination occurring at the site is unlikely but cannot be wholly discounted at this stage.	Direct downward migration through leaching and/or mobile liquids.	Groundwater	Low	The site is indicated to be underlain by Glacial Till which, due to its relatively impermeable nature, will inhibit significant downward migration of contaminants into the Principal (Bedrock) Aquifer. Therefore the preliminary risk to groundwater is considered LOW .
	Off-site migration in groundwater or surface water flow.	Surface water	Low	The nearest water feature is the Ashton Canal, located approximately 50m to the north-west. As the underlying Glacial Till will inhibit significant movement of any mobile contamination from the site towards the water body, the preliminary risk to surface water is considered LOW .
		Groundwater and surface water abstractions	No linkage anticipated	The site is not within an EA Source Protection Zone with no water abstractions within 500m. The risk to groundwater/surface water abstractions is therefore considered VERY LOW .
		Adjacent Properties	Unlikely	The impermeable nature of the Glacial Till is likely to inhibit any significant lateral migration of any mobile contamination from the site. Therefore, the preliminary risk to adjacent properties is assessed as LOW .
		Ecology	No linkage envisaged	There are no designated ecologically sensitive sites within influencing distance of the subject site. The risk to the surrounding ecology from any contamination arising from the site is therefore considered LOW .
The presence of significant volatile contamination at the site is unlikely but cannot be wholly discounted locally at this stage.	Inhalation of harmful vapours (indoor and outdoor airspaces)	Current Site Users	Unlikely	No widespread sources of volatile contaminants are envisaged and the current site use is transient. Therefore, the current risk from inhalation of indoor/outdoor air is considered LOW .
		Site End Users	Low	A potential pollution linkage resulting from inhalation of indoor vapours in the proposed buildings is unlikely although a medium consequence determines that a preliminary MODERATE/LOW risk is assessed.
		Construction Workers	Low	In the event of construction workers coming into contact with possible volatile compounds, the exposure time will be relatively short. The chronic exposure risk to construction workers, assuming that appropriate health and safety measures will be adopted, is therefore considered LOW .

Source	Pathway	Receptor	Probability of Linkage	Comment
		Adjacent Properties	Low	Significant sources of volatile contaminants at the site are not anticipated with the relatively impermeable nature of the Glacial Till inhibiting any significant lateral off-site migration. Therefore, the preliminary risk to adjacent properties and users is assessed as LOW .
The site is not within influencing distance of any recorded landfills. The presence of appreciable thicknesses of Made Ground from historical in-filling at and in proximity to the site cannot be discounted although the age of infilling is such that the potential to generate significant volumes of ground gas in significant concentrations is considered low. The presence of ground gas resulting from shallow unrecorded mine workings is unlikely.	Emissions from the ground beneath the site collecting in confined spaces and excavations	Construction/ services maintenance workers	Unlikely	The potential to generate significant volumes of toxic and/ or flammable/ explosive gas beneath the site is considered low. Assuming that appropriate health and safety measures will be adopted during construction, the preliminary risk is therefore considered LOW .
	Migration of gases on/off site and collecting in confined spaces on/off site.	Adjoining site users	Unlikely	The likelihood of significantly volumes of ground gas arising from the site is low with the relatively impermeable nature of the Glacial Till inhibiting any significant migration of ground gases to adjacent properties. Therefore, the preliminary risk to adjacent properties from the site is considered LOW .
		Current/future site users	Low	The potential to generate significant volumes of toxic and/ or flammable/ explosive gas beneath or close to the site is considered low. Also, the migration of any ground gas arising from any unrecorded off-site sources would be retarded to a degree by relatively impermeable Glacial Till. The preliminary risk to the development is therefore assessed as LOW .
The site is within an area where less than 1% of properties are affected by naturally occurring radon gas.	Natural emissions from the ground collecting in confined spaces within buildings	Site end users	Unlikely	The site is not located in an area where radon protection measures are required. Therefore, the potential risk to site end users is considered LOW .
Chemicals which could prove aggressive to construction materials may be present on site.	Direct contact	Construction concrete, plastic water pipes.	Low	Any risks to construction materials identified after site investigation and assessment will be mitigated as part of the structural design. The perceived risk is therefore considered LOW .

Preliminary Risk Assessment

- 5.5 Under the proposed development scenario, most potential contamination linkages are considered low or unlikely with associated preliminary risks being assessed as moderate/low at worst.
- 5.6 The approach at the Phase 1 Desk Study stage is, however, precautionary until such time as uncertainties in the conceptual model can be verified by appropriate site investigation.
- 5.7 Such uncertainties relate, in the main, to the level of historical contamination as a result of the site's brownfield status and the potential for ACM to be present as a result of previous building demolition.

6.0 PRELIMINARY DEVELOPMENT CONSIDERATIONS

Development Consideration	Summary
Ground Obstructions	Historical foundations, ground floor slabs and other buried concrete obstructions associated with former structures should be anticipated and will need to be broken out to suitable depths below formation levels where they are to impinge on the proposed redevelopment.
Excavations	Excavations should take account of the need to maintain the integrity of adjacent infrastructure such as the adjacent tram line, roads and adjacent property and may need support measures in this respect.
Foundations	In consideration of the anticipated loadings, new structures will most likely require piled foundations.
Soakaways	In view of the relatively impermeable nature of the anticipated cohesive Glacial Till, soakaways are not likely to be suitable as a drainage solution for the new development.
Existing Retaining Wall	The structural integrity of the existing retaining wall will need to be maintained during and after the construction works and consultation with a structural engineer is recommended in this respect.
Existing Services	The locations of all existing services will need to be accurately determine across the full footprint of the development area. It cannot be ruled out that services may need to be diverted to accommodate the proposed new structure.
Metrolink	Detailed discussions with the Metrolink operators will need to be undertaken to establish any restrictions set by them in respect of the adjacent tram lines and associated retaining wall.

7.0 SUMMARY AND RECOMMENDATIONS

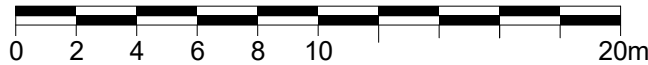
Development Considerations	Comments
Shallow Coal Mining	Negligible risk.
Flood Risk	Very low risk.
Ground Obstructions	Historic foundations, ground floor slabs and other buried concrete obstructions associated with former structures should be anticipated at this preliminary stage.
Foundations	The new structure will likely require piled foundations, to be confirmed by ground investigation.
Ground Contamination	The likelihood of significant and widespread ground contamination sources being present beneath the site is considered low/moderate although localised sources cannot be wholly discounted at this stage. The potential requirement for localised ground remediation cannot therefore be discounted. This will need to be confirmed by ground investigation and chemical analysis.
Hazardous Ground Gas	Low preliminary risk.
Radon	No radon protection measures are required.
Soakaway Drainage	Unlikely to be suitable.
Existing Retaining Wall	The structural integrity of the existing retaining wall will need to be maintained during and after the construction works and consultation with a structural engineer is recommended in this respect.
Underground Services	A scan survey of underground private and statutory services may be required.
Metrolink	Consultations with Metrolink will be required.

Site Investigation

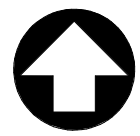
- 7.1 Site investigations will be necessary to provide information on the physical and chemical ground conditions. This will enable assumptions made in the preliminary site conceptual model to be confirmed or modified so as to assess the actual environmental risks posed by the site.
- 7.2 The investigation will comprise sampling and chemical analysis of the near surface soil and will include analysis for the identification of ACM and asbestos fibres. Depending on the ground conditions encountered, investigations may also need to include monitoring for ground gas.
- 7.3 Ground investigations will also provide parameters for the design of foundations, floor slabs and external pavements.
- 7.4 Site investigations will be undertaken in accordance with British Standard Institution (BSI), Code of Practice for Ground Investigations – BS5930:2015 + A1:2020 and Investigation of Potentially Contaminated Sites – Code of Practice. BS 10175:2011 + A2:2017.

APPENDIX 01

Drawings



3001911 PROJECT TITLE Site Plan - Proposed	SCALE @ A1 As indicated
PROJECT NO. BDP-FRS-XX-XX-DR-A-200010	DATE FIRST ISSUED 25.10.21 REVISION P01



APPENDIX 02

Site Photographs



Photograph 1

View north-east from the western corner of the site with Chapeltown Street in the left of the picture.



Photograph 2

View south-east across the southern part of the site with service box in the centre of the picture.



Photograph 3

View south-east towards with southern corner of the site with the Metrolink line beyond.



Photograph 4

View north-east along the south-eastern edge of the site with the Metrolink line forming the site boundary in the right of the picture.

APPENDIX 03

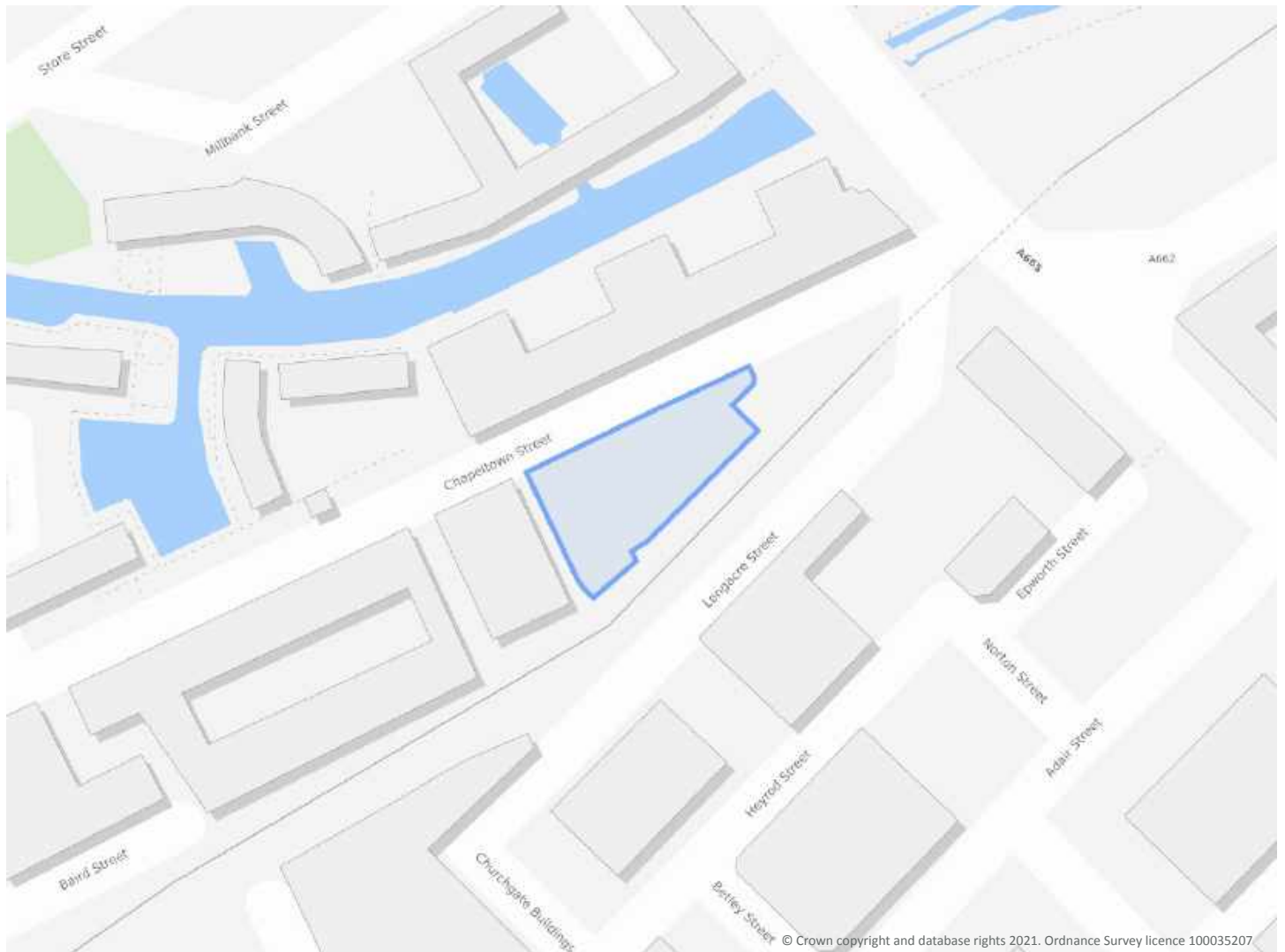
Groundsure Enviro & Geosight Report

CHAPELTOWN STREET, MANCHESTER, M1 2BJ**Order Details**

Date: 24/09/2021
Your ref: 9861G
Our Ref: HMD-424-8216409
Client: WML Consulting Ltd

Site Details

Location: 385219 398061
Area: 0.14 ha
Authority: [Manchester City Council](#)

**Summary of findings**

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Contact us with any questions at:

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	0	6	71	170	-
22	1.2	Historical tanks	0	0	11	70	-
26	1.3	Historical energy features	0	0	5	14	-
27	1.4	Historical petrol stations	0	0	0	1	-
27	1.5	Historical garages	0	1	3	49	-
29	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
30	2.1	Historical industrial land uses	0	7	89	238	-
43	2.2	Historical tanks	0	0	22	109	-
48	2.3	Historical energy features	0	0	18	47	-
50	2.4	Historical petrol stations	0	0	0	1	-
51	2.5	Historical garages	0	1	4	74	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
54	3.1	Active or recent landfill	0	0	0	0	-
54	3.2	Historical landfill (BGS records)	0	0	0	0	-
55	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
55	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
55	3.5	Historical waste sites	0	0	7	12	-
58	3.6	Licensed waste sites	0	0	0	2	-
58	3.7	Waste exemptions	0	0	0	24	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
62	4.1	Recent industrial land uses	0	1	41	-	-
65	4.2	Current or recent petrol stations	0	0	0	1	-
65	4.3	Electricity cables	0	0	0	0	-
66	4.4	Gas pipelines	0	0	0	0	-
66	4.5	Sites determined as Contaminated Land	0	0	0	0	-



66	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
66	4.7	Regulated explosive sites	0	0	0	0	-
66	4.8	Hazardous substance storage/usage	0	0	0	0	-
67	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
67	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
67	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	1	2	0	-
68	4.12	Radioactive Substance Authorisations	0	0	0	0	-
68	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	3	10	-
70	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
70	4.15	Pollutant release to public sewer	0	0	0	0	-
70	4.16	List 1 Dangerous Substances	0	0	0	0	-
70	4.17	List 2 Dangerous Substances	0	0	0	0	-
71	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	23	-
73	4.19	Pollution inventory substances	0	0	0	0	-
74	4.20	Pollution inventory waste transfers	0	0	0	0	-
74	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
75	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
77	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
79	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
80	5.4	<u>Groundwater vulnerability- soluble rock risk</u>	Identified (within 0m)				
80	5.5	Groundwater vulnerability- local information	None (within 0m)				
81	5.6	<u>Groundwater abstractions</u>	0	0	0	2	35
91	5.7	Surface water abstractions	0	0	0	0	0
91	5.8	<u>Potable abstractions</u>	0	0	0	0	9
94	5.9	Source Protection Zones	0	0	0	0	-
94	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
95	6.1	<u>Water Network (OS MasterMap)</u>	0	1	12	-	-



97	6.2	<u>Surface water features</u>	0	1	3	-	-
97	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
97	6.4	<u>WFD Surface water bodies</u>	0	1	0	-	-
98	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
99	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
99	7.2	Historical Flood Events	0	0	0	-	-
99	7.3	Flood Defences	0	0	0	-	-
99	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
100	7.5	Flood Storage Areas	0	0	0	-	-
101	7.6	Flood Zone 2	None (within 50m)				
101	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
102	8.1	<u>Surface water flooding</u>	1 in 100 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
104	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
105	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
105	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
105	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
105	10.4	Special Protection Areas (SPA)	0	0	0	0	0
106	10.5	National Nature Reserves (NNR)	0	0	0	0	0
106	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
106	10.7	Designated Ancient Woodland	0	0	0	0	0
106	10.8	Biosphere Reserves	0	0	0	0	0
107	10.9	Forest Parks	0	0	0	0	0
107	10.10	Marine Conservation Zones	0	0	0	0	0
107	10.11	Green Belt	0	0	0	0	0
107	10.12	Proposed Ramsar sites	0	0	0	0	0



107	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
108	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
108	10.15	Nitrate Sensitive Areas	0	0	0	0	0
108	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	4
109	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
110	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
111	11.1	World Heritage Sites	0	0	0	-	-
112	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
112	11.3	National Parks	0	0	0	-	-
112	11.4	<u>Listed Buildings</u>	0	0	7	-	-
113	11.5	Conservation Areas	0	0	0	-	-
113	11.6	Scheduled Ancient Monuments	0	0	0	-	-
113	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
115	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
116	12.2	Open Access Land	0	0	0	-	-
116	12.3	Tree Felling Licences	0	0	0	-	-
116	12.4	Environmental Stewardship Schemes	0	0	0	-	-
116	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
117	13.1	Priority Habitat Inventory	0	0	0	-	-
117	13.2	Habitat Networks	0	0	0	-	-
117	13.3	Open Mosaic Habitat	0	0	0	-	-
117	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
118	14.1	<u>10k Availability</u>	Identified (within 500m)				
119	14.2	<u>Artificial and made ground (10k)</u>	0	0	1	3	-
121	14.3	<u>Superficial geology (10k)</u>	1	0	1	3	-

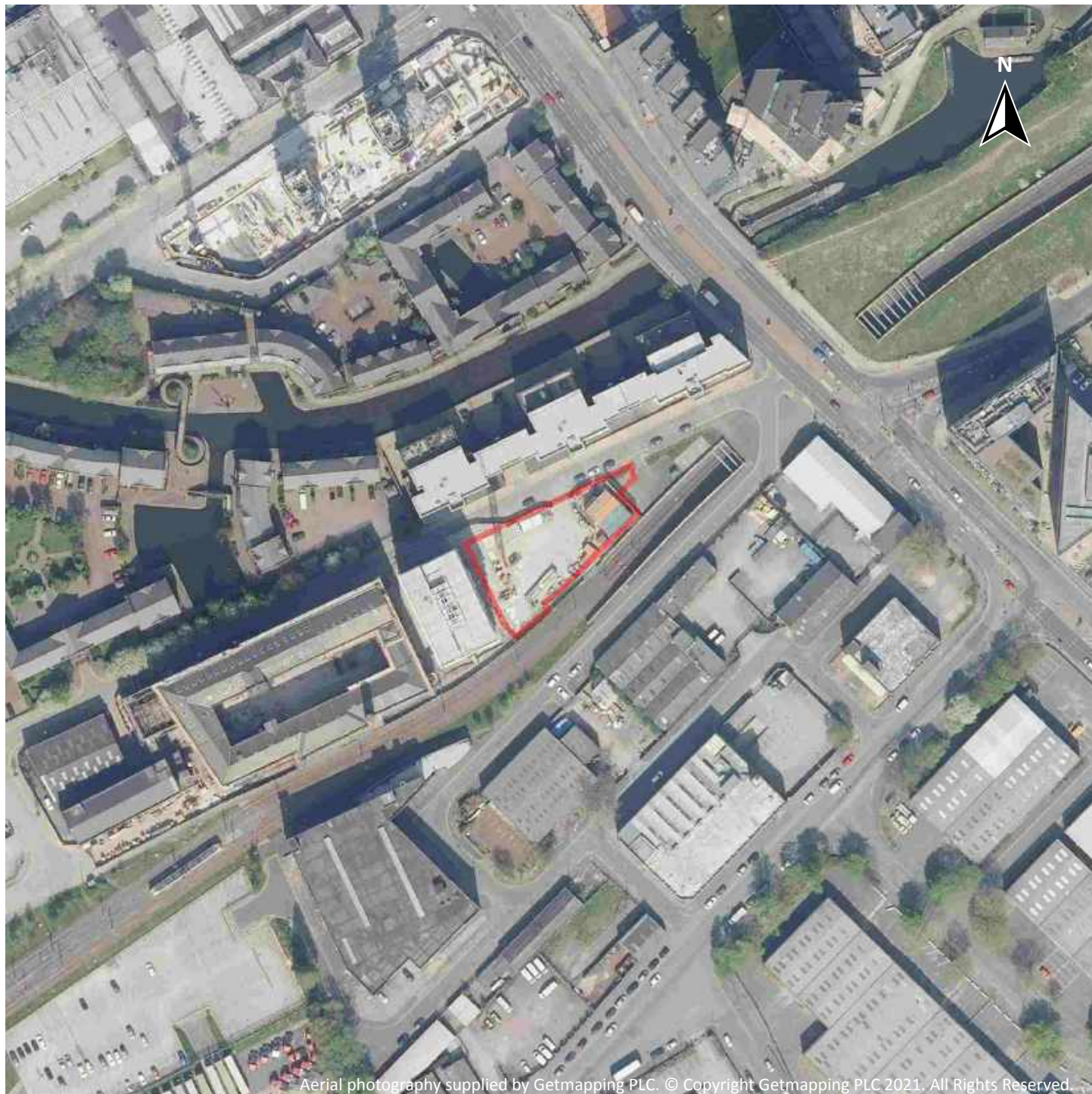


122	14.4	Landslip (10k)	0	0	0	0	-
123	14.5	<u>Bedrock geology (10k)</u>	1	0	4	1	-
124	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	2	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
125	15.1	<u>50k Availability</u>	Identified (within 500m)				
126	15.2	<u>Artificial and made ground (50k)</u>	0	0	1	1	-
127	15.3	Artificial ground permeability (50k)	0	0	-	-	-
128	15.4	<u>Superficial geology (50k)</u>	1	0	0	2	-
129	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
129	15.6	Landslip (50k)	0	0	0	0	-
129	15.7	Landslip permeability (50k)	None (within 50m)				
130	15.8	<u>Bedrock geology (50k)</u>	1	0	2	1	-
131	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
131	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
132	16.1	<u>BGS Boreholes</u>	0	8	52	-	-
Page	Section	Natural ground subsidence					
137	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
138	17.2	<u>Running sands</u>	Very low (within 50m)				
139	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
140	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
141	17.5	<u>Landslides</u>	Very low (within 50m)				
142	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
144	18.1	Natural cavities	0	0	0	0	-
145	18.2	BritPits	0	0	0	0	-
145	18.3	<u>Surface ground workings</u>	0	15	11	-	-
146	18.4	Underground workings	0	0	0	0	0
146	18.5	Historical Mineral Planning Areas	0	0	0	0	-



<u>146</u>	<u>18.6</u>	<u>Non-coal mining</u>	0	0	0	0	2
<u>147</u>	<u>18.7</u>	<u>Mining cavities</u>	0	0	0	0	1
<u>147</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>148</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
148	18.10	Brine areas	None (within 0m)				
148	18.11	Gypsum areas	None (within 0m)				
149	18.12	Tin mining	None (within 0m)				
149	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>150</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>151</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	1	1	-	-	-
<u>151</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	2	4	-	-	-
152	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
153	21.1	Underground railways (London)	0	0	0	-	-
153	21.2	Underground railways (Non-London)	0	0	0	-	-
154	21.3	Railway tunnels	0	0	0	-	-
<u>154</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	0	0	61	-	-
156	21.5	Royal Mail tunnels	0	0	0	-	-
157	21.6	Historical railways	0	0	0	-	-
<u>157</u>	<u>21.7</u>	<u>Railways</u>	0	5	8	-	-
158	21.8	Crossrail 1	0	0	0	0	-
158	21.9	Crossrail 2	0	0	0	0	-
<u>158</u>	<u>21.10</u>	<u>HS2</u>	0	0	3	1	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.14ha



Recent site history - 2015 aerial photograph

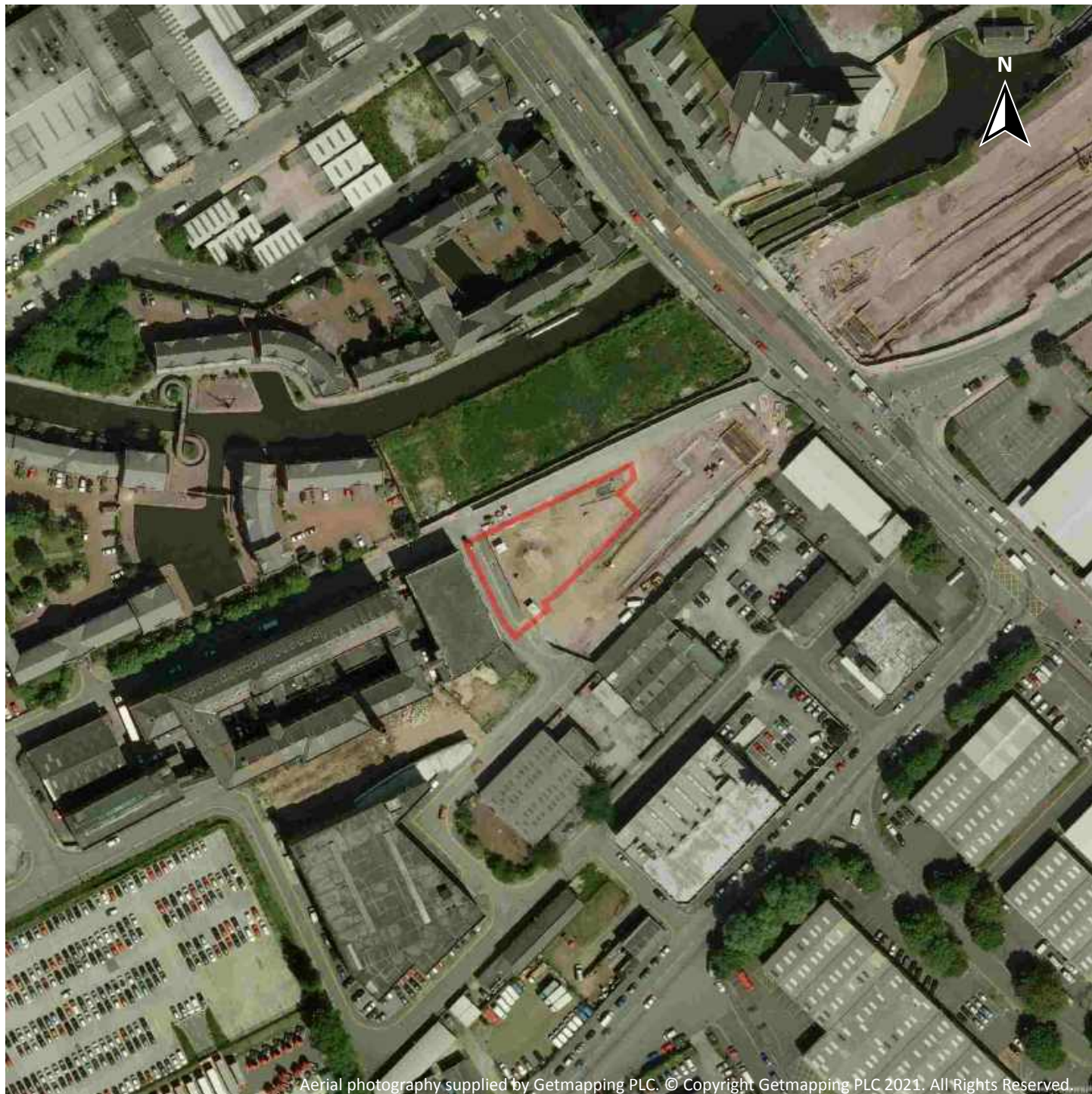


Capture Date: 11/06/2015

Site Area: 0.14ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.14ha



Recent site history - 2000 aerial photograph



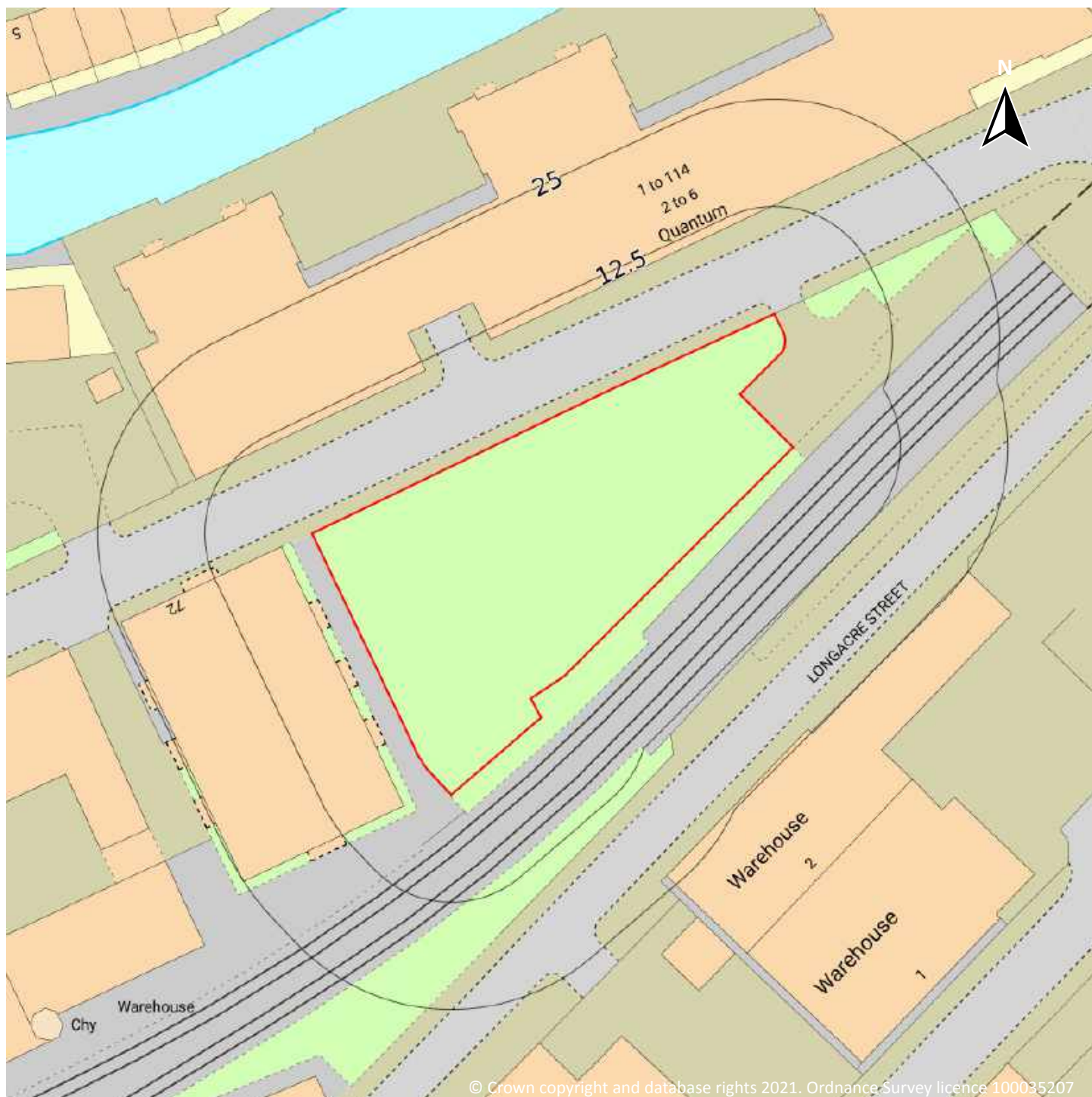
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2021. All Rights Reserved.

Capture Date: 27/06/2000

Site Area: 0.14ha



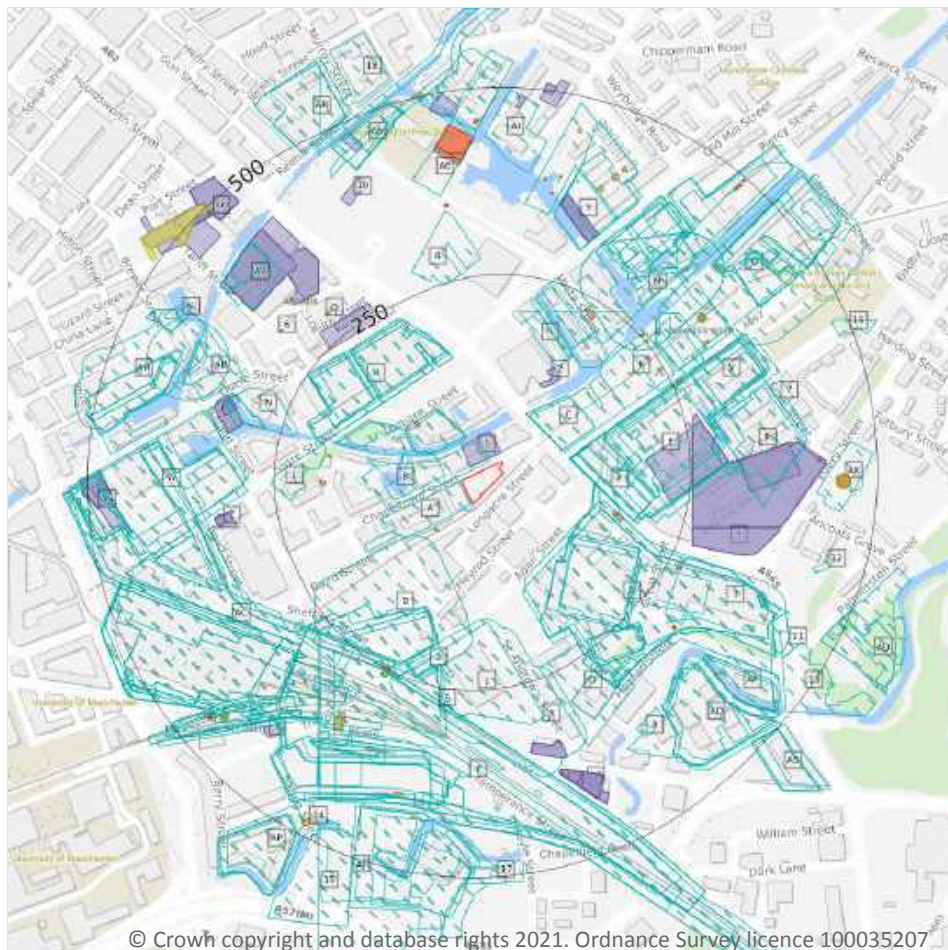
OS MasterMap site plan



Site Area: 0.14ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

1.1 Historical industrial land uses

Records within 500m

247

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	2m SW	Unspecified Works	1968	830437



ID	Location	Land use	Dates present	Group ID
B	6m NW	Unspecified Works	1923	970752
B	23m W	Unspecified Works	1968	872464
B	46m NW	Unspecified Wharves	1923	956711
B	48m NW	Unspecified Wharves	1934 - 1938	857499
B	48m NW	Unspecified Wharves	1915	985290
C	68m NE	Corporation Yard	1915	937912
C	68m NE	Corporation Yard	1934 - 1938	938193
C	69m NE	Corporation Yard	1923	916320
D	76m SW	Unspecified Depot	1991	962321
B	81m NW	Unspecified Workshop	1923	811070
E	89m E	Vulcan Works	1915	918761
E	89m E	Vulcan Works	1934 - 1938	930130
F	89m E	Grain Store	1915	945610
F	92m E	Grain Store	1923	849549
F	92m E	Grain Store	1905	904364
E	99m E	Unspecified Commercial/Industrial	1956	796795
F	100m E	Unspecified Warehouse	1968	893418
B	110m NW	Unspecified Works	1915	830439
G	117m SE	Goods Station	1956	897884
G	119m SE	Railway Sidings	1956 - 1968	845148
G	122m SE	Railway Sidings	1934	857332
G	122m SE	Railway Sidings	1915	905447
G	122m SE	Railway Sidings	1905	943711
G	122m SE	Railway Sidings	1938	947526
G	122m SE	Railway Sidings	1923	964887
G	123m SE	Goods Station	1905 - 1938	920838
G	125m SE	Goods Station	1968	941668
G	126m SE	Railway Sidings	1890	860700



ID	Location	Land use	Dates present	Group ID
G	134m SE	Goods Station	1890	970801
E	138m E	Vulcan Works	1923	923425
E	138m E	Vulcan Works	1905	883538
F	139m E	Railway Building	1938	820434
H	144m NW	Unspecified Disused Foundry	1890	794069
H	145m NW	Clothing Foundry	1905	817104
I	146m NE	Unspecified Wharf	1915	854827
E	150m E	Unspecified Mills	1890	808185
H	151m NW	Unspecified Warehouse	1923	896333
D	151m SW	Railway Sidings	1923	879517
D	151m SW	Goods Yard	1915 - 1923	898838
D	154m SW	Railway Sidings	1934 - 1938	899923
D	154m SW	Goods Yard	1934 - 1938	929364
H	155m NW	Unspecified Warehouse	1934 - 1938	871212
H	155m NW	Unspecified Warehouse	1915	961707
J	155m S	Unspecified Depot	1985	849011
H	156m NW	Clothing Factory	1923	871590
H	158m NW	Unspecified Factory	1968	821377
D	158m SW	Railway Sidings	1915	849007
E	158m E	Unspecified Warehouse	1985 - 1991	945086
H	160m NW	Clothing Factory	1934 - 1938	898959
H	160m NW	Clothing Factory	1915	930283
J	160m S	Goods Yard	1968	811695
D	161m S	Railway Sidings	1890 - 1905	979002
I	164m NE	Unspecified Works	1923	982336
I	164m NE	Unspecified Wharf	1923	917487
E	166m E	Unspecified Warehouse	1968	908490
K	174m NE	Unspecified Works	1915 - 1923	892569



ID	Location	Land use	Dates present	Group ID
I	177m NE	Unspecified Works	1915	888993
L	186m W	Unspecified Ground Workings	1851	800647
I	187m NE	Unspecified Works	1968	957976
3	206m S	Smithy	1923	843313
G	219m SE	Goods Shed	1968	834671
M	221m NE	Unspecified Wharf	1906	879975
M	221m NE	Unspecified Wharf	1921	971613
K	226m NE	Unspecified Depot	1985 - 1991	858910
N	226m W	Unspecified Wharf	1923	938827
O	233m SE	Unspecified Depot	1985 - 1991	914152
P	236m SW	Railway Sidings	1968	889807
O	238m SE	Goods Shed	1915	875452
O	238m SE	Goods Shed	1934 - 1938	937484
D	238m SW	Railway Sidings	1956	950162
O	241m SE	Goods Shed	1905	939631
O	241m SE	Goods Shed	1923	948483
D	242m SW	Railway Sidings	1851	923729
4	247m N	Unspecified Mill	1968	810291
D	248m SW	Smithy	1915	843312
D	248m SW	Railway Building	1923	820447
P	252m SW	Railway Sidings	1985 - 1988	878187
P	252m SW	Railway Sidings	1978	900007
P	252m SW	Railway Sidings	1985 - 1991	932616
M	257m NE	Hospital	1956 - 1968	937930
K	261m NE	Unspecified Mill	1923	975402
K	263m NE	Unspecified Mill	1915	977947
5	266m S	Railway Building	1923	820446
T	266m SE	Unspecified Commercial/Industrial	1985 - 1991	988506



ID	Location	Land use	Dates present	Group ID
K	268m NE	Unspecified Tank	1923	861167
D	270m SW	Railway Sidings	1994	844263
D	270m SW	Railway Sidings	1971	884730
K	270m NE	Unspecified Tank	1915	857486
O	271m SE	Unspecified Depot	1968 - 1978	954606
N	272m W	Unspecified Wharf	1915	900362
N	272m W	Unspecified Wharf	1934 - 1938	933593
U	275m NE	Unspecified Mill	1978	916152
V	279m NE	Unspecified Works	1968	907384
M	282m NE	Unspecified Works	1968	830477
R	284m E	Unspecified Workhouse	1915 - 1923	892233
W	285m W	Unspecified Commercial/Industrial	1956	796797
W	286m W	Goods Station	1890 - 1938	979048
D	289m SW	Railway Station	1978	851643
D	289m SW	Railway Station	1968	921332
V	289m NE	Unspecified Works	1985 - 1991	918302
O	291m SE	Railway Building	1915	879984
O	291m SE	Railway Building	1934 - 1938	961111
G	293m SE	Unspecified Ground Workings	1851	800648
O	295m SE	Railway Building	1923	954689
M	297m NE	Unspecified Wharf	1923	854227
D	297m SW	Railway Building	1956	820448
D	298m SW	Railway Station	1985 - 1994	890876
D	298m SW	Railway Station	1971	897274
D	298m SW	Railway Station	1978	897926
D	298m SW	Railway Station	1956	935665
X	300m S	Chimney	1985 - 1991	901328
Y	301m N	Bedstead and Safe Works	1921 - 1923	988994



ID	Location	Land use	Dates present	Group ID
M	303m NE	Hospital	1978	988199
Y	303m N	Unspecified Commercial/Industrial	1933	796758
D	304m SW	Railway Stations	1915	887476
D	304m SW	Railway Stations	1934 - 1938	900032
D	306m SW	Railway Building	1923	820449
D	306m SW	Railway Buildings	1923	833663
M	308m NE	Hospital	1985 - 1991	926141
M	310m NE	Hospital	1923	891870
D	310m SW	Railway Station	1923	941202
D	310m SW	Railway Station	1890 - 1905	959335
D	318m SW	Railway Building	1923	820444
D	318m SW	Railway Building	1968 - 1978	934108
P	323m S	Railway Buildings	1923	833659
AB	323m NW	Unspecified Mills	1915 - 1923	891864
Y	326m N	Unspecified Works	1968	830476
M	329m NE	Machine Works	1921 - 1923	953970
D	331m SW	Railway Building	1956	917214
M	334m NE	Hospital	1921	885106
Y	337m N	Glass Works	1921 - 1923	903107
U	337m NE	Unspecified Mills	1938	917952
D	338m SW	Railway Building	1915 - 1938	865882
D	339m S	Police Station	1851	832592
D	342m SW	Railway Station	1851	942543
M	343m NE	Unspecified Tank	1923	825272
D	344m S	Goods Station	1978	858349
AB	345m NW	Unspecified Wharf	1923	869878
D	347m S	Railway Station	1968	981899
AD	348m SE	Unspecified Mills	1938 - 1956	957321



ID	Location	Land use	Dates present	Group ID
AD	350m SE	Unspecified Mill	1923	974952
D	350m S	Railway Building	1934 - 1938	983618
AC	351m SW	Railway Building	1905 - 1923	924355
D	351m SW	Railway Building	1956 - 1968	855450
D	351m S	Railway Building	1915	940308
AD	352m SE	Unspecified Mill	1915	908517
AD	352m SE	Unspecified Mill	1934	991978
D	352m S	Goods Station	1985 - 1991	980310
D	353m SW	Grain Store	1915 - 1923	946860
AB	353m NW	Unspecified Wharf	1934 - 1938	892116
AC	354m SW	Railway Building	1934 - 1938	893266
AD	355m SE	Unspecified Mill	1968	935579
M	356m NE	Hospital	1891	962056
D	356m SW	Railway Building	1938	820435
AD	356m SE	Unspecified Mill	1890	881657
D	357m S	Railway Station	1923	871349
AA	360m NW	Sawmills	1923	813168
D	361m SW	Railway Building	1978	874711
AF	363m SE	Unspecified Commercial/Industrial	1934	796801
AF	363m SE	Unspecified Works	1915 - 1923	989036
AE	364m N	Unspecified Mill	1968	810292
AF	369m SE	Printing Works	1890	809618
7	369m E	Unspecified Works	1923	830480
D	370m SW	Railway Station	1956	989397
8	372m SE	Unspecified Tank	1915 - 1938	970730
M	376m NE	Unspecified Commercial/Industrial	1933	796757
T	377m SE	Railway Building	1934 - 1938	874386
T	377m SE	Railway Building	1915	935014



ID	Location	Land use	Dates present	Group ID
AB	378m NW	Unspecified Wharf	1915	974633
T	380m SE	Railway Building	1923	950526
D	380m SW	Railway Station	1956	949532
T	381m SE	Railway Building	1923	820445
U	382m NE	Unspecified Mills	1956 - 1968	898421
AH	383m NW	Unspecified Wharf	1956	971868
U	384m NE	Industrial Estate	1985 - 1991	854771
U	385m NE	Unspecified Mills	1923	937329
U	387m NE	Unspecified Mills	1933	861126
U	387m NE	Unspecified Mills	1921	986585
AI	387m N	Unspecified Works	1968	830474
AF	388m SE	Unspecified Works	1968	866667
D	390m SW	Railway Station	1988 - 1994	979216
P	391m S	Railway Building	1923	820269
AA	391m NW	Sawmill	1921	895554
AA	391m NW	Sawmill	1933 - 1938	936555
AH	399m W	Unspecified Warehouse	1923	807197
D	400m SW	Railway Building	1985 - 1994	978063
D	400m SW	Railway Building	1978	955370
D	400m SW	Railway Building	1971	985873
AE	404m N	Unspecified Works	1968	830440
P	405m S	Railway Building	1923	820268
D	406m W	Railway Building	1905 - 1938	893315
AH	407m NW	Unspecified Wharf	1890 - 1923	976213
AH	410m W	Unspecified Warehouses	1915	933374
AH	410m W	Unspecified Warehouses	1934 - 1938	964840
AH	411m NW	Unspecified Wharf	1934	971276
AJ	417m S	Unspecified Works	1968	976597



ID	Location	Land use	Dates present	Group ID
AJ	418m S	Unspecified Commercial/Industrial	1956	930471
AK	419m E	Grave Yard	1851	817298
AJ	419m S	Unspecified Works	1978	980989
P	421m S	Railway Building	1923	820267
11	425m SE	Unspecified Works	1915 - 1923	954396
AL	427m NW	Unspecified Wharf	1923	851439
AJ	428m S	Unspecified Works	1985 - 1991	854217
AL	431m NW	Unspecified Wharf	1934	875206
AL	431m NW	Unspecified Wharf	1915	936033
AL	431m NW	Unspecified Wharf	1938	991516
12	433m E	Unspecified Ground Workings	1923	800646
AM	435m NW	Sawmill	1923	932999
AM	436m NW	Sawmill	1933 - 1938	905698
AM	436m NW	Sawmill	1921	903562
AJ	439m S	Unspecified Works	1915 - 1923	967647
AE	440m NW	Disused Canal	1991	849130
P	441m S	Railway Building	1923	820266
AE	444m N	Coal Wharf	1851	794093
AN	445m W	Goods Shed	1905	923774
AN	445m W	Goods Shed	1923	979300
AN	448m W	Goods Shed	1915	885654
AN	448m W	Goods Shed	1934 - 1938	924820
13	448m SE	Unspecified Factory	1915 - 1923	881854
AN	449m W	Railway Building	1890	820433
AM	452m NW	Unspecified Mill	1968	810293
AJ	457m S	Dye Works	1851	833959
AK	462m E	Unspecified Tank	1985 - 1991	982136
AP	468m SW	Cotton Mill	1851	797897



ID	Location	Land use	Dates present	Group ID
15	474m S	Dye Works	1851	833960
AE	475m NW	Disused Canal	1985	2367192
16	479m NE	Railway Building	1890	820432
17	479m S	Brewery	1915 - 1923	932621
AQ	480m SE	Rubber Works	1938	858199
AQ	480m SE	Rubber Works	1915	893263
AP	483m SW	Unspecified Mill	1923	919594
AQ	484m SE	Rubber Works	1923 - 1934	947315
AP	485m SW	Unspecified Mill	1915	857457
AP	485m SW	Unspecified Mill	1934	945749
AP	485m SW	Unspecified Mills	1938	979357
AP	485m SW	Unspecified Mills	1890	989407
AR	485m NW	Unspecified Mills	1923	954294
AS	488m SE	Pin Mill	1915	878297
AS	488m SE	Pin Mill	1934 - 1938	932894
AR	489m NW	Unspecified Mills	1921	878606
AR	489m NW	Unspecified Mills	1933 - 1938	900882
AQ	491m SE	Unspecified Works	1968	855879
AS	494m SE	Pin Mill	1923	845642
AS	495m SE	Unspecified Works	1968	830481
D	497m SW	Railway Buildings	1923	833658
18	499m NW	Unspecified Works	1968	830441

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

81

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
A	58m SW	Unspecified Tank	1889	115863
A	60m SW	Unspecified Tank	1908	115862
B	88m NW	Unspecified Tank	1891	115907
L	176m W	Unspecified Tank	1889	132358
L	180m W	Unspecified Tank	1908	115909
K	206m NE	Unspecified Tank	1889	115908
K	236m NE	Unspecified Tank	1908 - 1932	148442
K	237m NE	Unspecified Tank	1908 - 1922	143306
D	243m SW	Unspecified Tank	1948	139263
K	245m NE	Unspecified Tank	1948 - 1967	126201
K	250m NE	Tanks	1908	106802
K	251m NE	Tanks	1908 - 1932	132347
D	252m SW	Unspecified Tank	1889 - 1891	148142
D	266m SW	Unspecified Tank	1889	115910
K	269m NE	Unspecified Tank	1908 - 1922	128680
Q	283m NW	Unspecified Tank	1891	115978
Q	286m NW	Unspecified Tank	1891	115977
6	312m NW	Unspecified Tank	1953 - 1967	137797
D	315m SW	Unspecified Tank	1955	134554
D	315m SW	Unspecified Tank	1950	137983
D	315m SW	Unspecified Tank	1955	139148
D	316m SW	Unspecified Tank	1952	145936
D	316m SW	Unspecified Tank	1948	146075
R	325m E	Unspecified Tank	1889	115906
D	326m SW	Unspecified Tank	1955	145130
D	327m SW	Unspecified Tank	1950	138252



ID	Location	Land use	Dates present	Group ID
D	327m SW	Unspecified Tank	1952	132557
D	327m SW	Unspecified Tank	1948	148859
D	328m SW	Unspecified Tank	1889 - 1948	131020
AC	343m SW	Unspecified Tank	1948 - 1965	147696
Y	363m N	Tanks	1891	106805
Y	380m N	Unspecified Tank	1891	115979
Y	382m N	Unspecified Tank	1891	115980
Y	384m N	Unspecified Tank	1893	115981
U	385m NE	Unspecified Tank	1908 - 1922	137618
Y	387m N	Tanks	1891	106804
Y	387m N	Unspecified Tank	1891	115975
AF	391m SE	Unspecified Tank	1908	115864
AF	394m SE	Unspecified Tank	1889	115865
D	395m SW	Unspecified Tank	1891	115930
D	398m SW	Unspecified Tank	1891	115935
D	399m S	Tanks	1891	106790
D	404m SW	Unspecified Tank	1891	115933
Y	405m N	Unspecified Tank	1893	115974
D	407m SW	Unspecified Tank	1891	115931
D	409m SW	Unspecified Tank	1891	115919
D	414m SW	Unspecified Tank	1891	115920
D	415m SW	Unspecified Tank	1891	115932
D	418m SW	Unspecified Tank	1891	115929
Y	420m NE	Unspecified Tank	1893	115973
D	420m SW	Unspecified Tank	1891	115918
D	425m S	Unspecified Tank	1889	146095
D	425m SW	Unspecified Tank	1891	115917
D	426m SW	Unspecified Tank	1891	115928



ID	Location	Land use	Dates present	Group ID
D	427m SW	Unspecified Tank	1891	115934
D	429m SW	Unspecified Tank	1891	115927
D	430m SW	Unspecified Tank	1891	115936
D	437m SW	Unspecified Tank	1891	115921
D	440m SW	Unspecified Tank	1891	115925
D	442m SW	Unspecified Tank	1891	115911
AK	445m E	Unspecified Tank	1985 - 1990	132759
AK	446m E	Unspecified Tank	1948 - 1957	134196
AK	446m E	Unspecified Tank	1948 - 1951	132951
D	447m SW	Unspecified Tank	1891	115914
D	447m SW	Unspecified Tank	1891	115924
D	450m SW	Unspecified Tank	1891	115923
Y	452m N	Unspecified Tank	1893	115976
D	460m SW	Unspecified Tank	1891	115922
AJ	466m S	Unspecified Tank	1889	115861
AJ	468m S	Unspecified Tank	1889	128594
14	468m SW	Tanks	1908	106791
D	472m SW	Unspecified Tank	1891	115926
AJ	474m S	Unspecified Tank	1889	115860
M	478m NE	Tanks	1948	131391
M	478m NE	Tanks	1948 - 1951	142420
D	485m SW	Unspecified Tank	1891	115915
D	488m SW	Unspecified Tank	1891	115916
AO	490m NW	Unspecified Tank	1953 - 1965	148454
M	494m NE	Tanks	1948 - 1951	127701
AJ	494m S	Unspecified Tank	1889	136012
AE	496m N	Unspecified Tank	1948	133167

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

19

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
B	92m NW	Electricity Substation	1991 - 1997	69001
F	155m E	Electricity Substation	1948 - 1978	69011
F	161m E	Electricity Substation	1981	62187
L	182m W	Electricity Substation	1992 - 1997	71274
I	225m NE	Electricity Substation	1988 - 1997	81397
K	256m NE	Electricity Substation	1948 - 1997	65447
G	263m SE	Electricity Substation	1985 - 1994	78122
G	305m SE	Electricity Substation	1985 - 1994	76956
K	315m NE	Electricity Substation	1997	62188
AE	348m N	Electricity Substation	1988 - 1997	64799
D	353m S	Electricity Substation	1977 - 1994	69582
AE	400m N	Hydraulic Power Station	1908 - 1931	72594
AE	406m N	Hydraulic Power Station	1948 - 1951	65750
AE	407m N	Hydraulic Power Station	1948 - 1955	84311
AE	415m N	Corporation Hydraulic Power Station	1948 - 1951	66629
AK	420m E	Electricity Substation	1989 - 1991	74775
AK	421m E	Electricity Substation	1994 - 1997	81016
AE	453m N	Electricity Substation	1987	64729
AE	454m N	Electricity Substation	1978 - 1994	70177

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

1

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
AO	486m NW	Service Garage	1948	1532

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

53

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
1	11m NW	Garage	1948	20317
2	112m NE	Garage	1948	20325
E	190m E	Co-operation Garage and Workshops	1948	20539
Q	240m NW	Garage	1991 - 1992	24800
E	253m E	Garage and Workshops	1951	20550
E	254m E	Co-op Garage and Workshops	1948	20621
Q	254m NW	Garage	1948	21756
R	254m E	Garage	1989 - 1990	27786
R	254m E	Garage	1994 - 1997	26249
Q	256m NW	Garage	1997	22282



ID	Location	Land use	Dates present	Group ID
S	263m E	Garage	1996	21966
S	263m E	Garage	1994	23944
N	303m W	Garage	1953 - 1967	27482
N	303m W	Garage	1971	22847
Z	306m W	Garage	1971	22068
Z	309m W	Garage	1971	23059
Y	315m N	Corporation Cleansing Department Garage	1948 - 1955	25856
Y	315m N	Corporation Cleansing Department Garage	1948	21128
Y	315m N	Garage	1965 - 1967	27438
R	315m E	Garage	1991	21495
AA	315m NW	Garage	1996	22785
AA	316m NW	Garage	1990	22515
N	317m W	Garage	1971	20877
N	317m W	Garage	1960	22202
Z	319m W	Garage	1953 - 1967	26856
X	329m S	Garage	1963 - 1991	25171
X	330m S	Garage	1965 - 1968	26504
AA	358m NW	Garage	1971	27725
AG	375m S	Garage	1994	20796
AG	375m S	Garage	1977	23899
AG	375m S	Garage	1985 - 1991	24759
AG	379m S	Garage	1968	22183
AG	387m S	Garage	1963	22547
AG	388m S	Garage	1965	24941
9	395m SW	Garage	1948	20318
10	396m NW	Garage	1948	24546
AN	449m W	Garage	1990	23753
AM	458m NW	Garage	1951	20319



ID	Location	Land use	Dates present	Group ID
AO	458m NW	Garage	1965	21679
AE	464m N	Garage	1951	20322
AN	465m W	Garage	1971	20840
AN	465m W	Garage	1971	21466
AI	472m N	Garage	1951	20323
AO	474m NW	Garage	1971 - 1990	25753
AO	475m NW	Garage	1971	23646
AI	479m N	Garage	1965	21074
AO	486m NW	Garage	1971	27039
AO	486m NW	Service Garage	1948	20587
AO	486m NW	Garage	1960	23455
AO	487m NW	Garage	1953	23454
AO	487m NW	Garage	1971	26371
AO	488m NW	Garage	1990	23312
AI	494m N	Garage	1963	22256

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

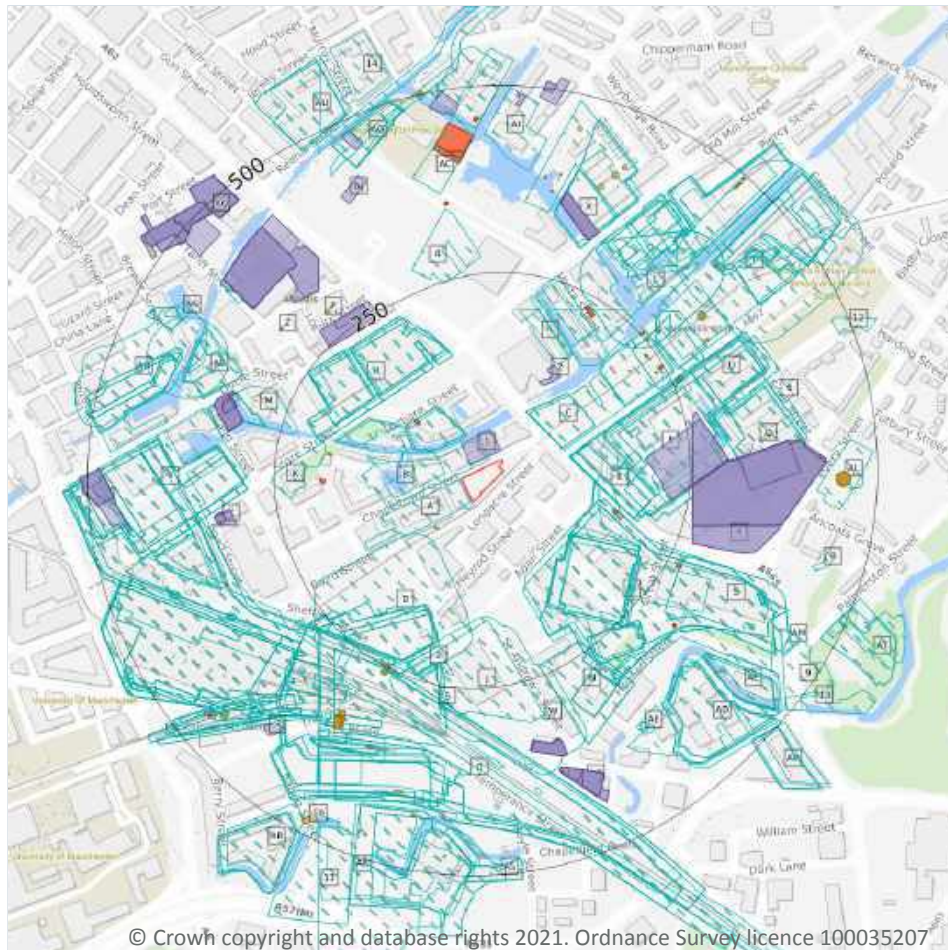
Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical petrol stations
- Historical garages

2.1 Historical industrial land uses

Records within 500m

334

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
A	2m SW	Unspecified Works	1968	830437
B	6m NW	Unspecified Works	1923	970752
B	23m W	Unspecified Works	1968	872464



ID	Location	Land Use	Date	Group ID
B	46m NW	Unspecified Wharves	1923	956711
B	48m NW	Unspecified Wharves	1938	857499
B	48m NW	Unspecified Wharves	1934	857499
B	48m NW	Unspecified Wharves	1915	985290
C	68m NE	Corporation Yard	1938	938193
C	68m NE	Corporation Yard	1934	938193
C	68m NE	Corporation Yard	1915	937912
C	69m NE	Corporation Yard	1923	916320
D	76m SW	Unspecified Depot	1991	962321
B	81m NW	Unspecified Workshop	1923	811070
E	89m E	Grain Store	1915	945610
F	89m E	Vulcan Works	1938	930130
F	89m E	Vulcan Works	1934	930130
F	89m E	Vulcan Works	1915	918761
E	92m E	Grain Store	1905	904364
E	92m E	Grain Store	1923	849549
F	99m E	Unspecified Commercial/Industrial	1956	796795
E	100m E	Unspecified Warehouse	1968	893418
B	110m NW	Unspecified Works	1915	830439
G	117m SE	Goods Station	1956	897884
G	119m SE	Railway Sidings	1968	845148
G	122m SE	Railway Sidings	1934	857332
G	122m SE	Railway Sidings	1938	947526
G	122m SE	Railway Sidings	1915	905447
G	122m SE	Railway Sidings	1905	943711
G	122m SE	Railway Sidings	1923	964887
G	123m SE	Goods Station	1938	920838
G	123m SE	Goods Station	1934	920838



ID	Location	Land Use	Date	Group ID
G	123m SE	Goods Station	1915	920838
G	125m SE	Goods Station	1968	941668
G	125m SE	Goods Station	1905	920838
G	125m SE	Goods Station	1923	920838
G	126m SE	Railway Sidings	1890	860700
G	131m E	Railway Sidings	1956	845148
G	134m SE	Goods Station	1890	970801
F	138m E	Vulcan Works	1923	923425
F	138m E	Vulcan Works	1905	883538
E	139m E	Railway Building	1938	820434
H	144m NW	Unspecified Disused Foundry	1890	794069
H	145m NW	Clothing Foundry	1905	817104
I	146m NE	Unspecified Wharf	1915	854827
F	150m E	Unspecified Mills	1890	808185
H	151m NW	Unspecified Warehouse	1923	896333
D	151m SW	Railway Sidings	1923	879517
D	151m SW	Goods Yard	1923	898838
D	154m SW	Railway Sidings	1938	899923
D	154m SW	Goods Yard	1938	929364
D	154m SW	Railway Sidings	1934	899923
D	154m SW	Goods Yard	1934	929364
H	155m NW	Unspecified Warehouse	1938	871212
H	155m NW	Unspecified Warehouse	1934	871212
H	155m NW	Unspecified Warehouse	1915	961707
J	155m S	Unspecified Depot	1985	849011
H	156m NW	Clothing Factory	1923	871590
H	158m NW	Unspecified Factory	1968	821377
D	158m SW	Railway Sidings	1915	849007

ID	Location	Land Use	Date	Group ID
D	158m SW	Goods Yard	1915	898838
F	158m E	Unspecified Warehouse	1985	945086
F	158m E	Unspecified Warehouse	1991	945086
H	160m NW	Clothing Factory	1938	898959
H	160m NW	Clothing Factory	1934	898959
H	160m NW	Clothing Factory	1915	930283
J	160m S	Goods Yard	1968	811695
D	161m S	Railway Sidings	1905	979002
D	161m S	Railway Sidings	1890	979002
I	164m NE	Unspecified Works	1923	982336
I	164m NE	Unspecified Wharf	1923	917487
F	166m E	Unspecified Warehouse	1968	908490
F	174m NE	Unspecified Works	1923	892569
F	177m NE	Unspecified Works	1915	892569
I	177m NE	Unspecified Works	1915	888993
K	186m W	Unspecified Ground Workings	1851	800647
I	187m NE	Unspecified Works	1968	957976
3	206m S	Smithy	1923	843313
G	219m SE	Goods Shed	1968	834671
L	221m NE	Unspecified Wharf	1921	971613
L	221m NE	Unspecified Wharf	1906	879975
F	226m NE	Unspecified Depot	1985	858910
F	226m NE	Unspecified Depot	1991	858910
M	226m W	Unspecified Wharf	1923	938827
N	233m SE	Unspecified Depot	1985	914152
N	233m SE	Unspecified Depot	1991	914152
O	236m SW	Railway Sidings	1968	889807
N	238m SE	Goods Shed	1938	937484



ID	Location	Land Use	Date	Group ID
N	238m SE	Goods Shed	1934	937484
N	238m SE	Goods Shed	1915	875452
O	238m SW	Railway Sidings	1956	950162
N	241m SE	Goods Shed	1905	939631
N	241m SE	Goods Shed	1923	948483
D	242m SW	Railway Sidings	1851	923729
4	247m N	Unspecified Mill	1968	810291
D	248m SW	Smithy	1915	843312
D	248m SW	Railway Building	1923	820447
O	252m SW	Railway Sidings	1985	932616
O	252m SW	Railway Sidings	1978	900007
O	252m SW	Railway Sidings	1991	932616
L	257m NE	Hospital	1956	937930
F	261m NE	Unspecified Mill	1923	975402
F	263m NE	Unspecified Mill	1915	977947
5	266m S	Railway Building	1923	820446
S	266m SE	Unspecified Commercial/Industrial	1985	988506
S	266m SE	Unspecified Commercial/Industrial	1991	988506
D	267m SW	Railway Sidings	1956	950162
F	268m NE	Unspecified Tank	1923	861167
D	270m SW	Railway Sidings	1971	884730
D	270m SW	Railway Sidings	1988	878187
D	270m SW	Railway Sidings	1978	900007
D	270m SW	Railway Sidings	1985	878187
D	270m SW	Railway Sidings	1994	844263
F	270m NE	Unspecified Tank	1915	857486
N	271m SE	Unspecified Depot	1978	954606
N	271m SE	Unspecified Depot	1968	954606



ID	Location	Land Use	Date	Group ID
M	272m W	Unspecified Wharf	1938	933593
M	272m W	Unspecified Wharf	1934	933593
M	272m W	Unspecified Wharf	1915	900362
T	275m NE	Unspecified Mill	1978	916152
U	279m NE	Unspecified Works	1968	907384
L	282m NE	Unspecified Works	1968	830477
Q	284m E	Unspecified Workhouse	1915	892233
Q	285m E	Unspecified Workhouse	1923	892233
V	285m W	Unspecified Commercial/Industrial	1956	796797
V	286m W	Goods Station	1905	979048
V	286m W	Goods Station	1890	979048
V	286m W	Goods Station	1923	979048
D	289m SW	Railway Station	1978	851643
D	289m SW	Railway Station	1968	921332
U	289m NE	Unspecified Works	1985	918302
U	289m NE	Unspecified Works	1991	918302
V	291m W	Goods Station	1938	979048
V	291m W	Goods Station	1934	979048
V	291m W	Goods Station	1915	979048
N	291m SE	Railway Building	1938	961111
N	291m SE	Railway Building	1934	961111
N	291m SE	Railway Building	1915	879984
G	293m SE	Unspecified Ground Workings	1851	800648
N	295m SE	Railway Building	1923	954689
L	297m NE	Unspecified Wharf	1923	854227
D	297m SW	Railway Building	1956	820448
D	298m SW	Railway Station	1971	897274
D	298m SW	Railway Station	1956	935665

ID	Location	Land Use	Date	Group ID
D	298m SW	Railway Station	1988	890876
D	298m SW	Railway Station	1978	897926
D	298m SW	Railway Station	1985	890876
D	298m SW	Railway Station	1994	890876
W	300m S	Chimney	1985	901328
W	300m S	Chimney	1991	901328
X	301m N	Bedstead and Safe Works	1923	988994
L	303m NE	Hospital	1978	988199
X	303m N	Unspecified Commercial/Industrial	1933	796758
D	304m SW	Railway Stations	1938	900032
D	304m SW	Railway Stations	1934	900032
D	304m SW	Railway Stations	1915	887476
D	306m SW	Railway Building	1923	820449
X	306m N	Bedstead and Safe Works	1921	988994
D	306m SW	Railway Buildings	1923	833663
L	308m NE	Hospital	1985	926141
L	308m NE	Hospital	1991	926141
L	310m NE	Hospital	1923	891870
D	310m SW	Railway Station	1905	959335
D	310m SW	Railway Station	1890	959335
D	310m SW	Railway Station	1923	941202
D	318m SW	Railway Building	1923	820444
D	318m SW	Railway Building	1978	934108
D	318m SW	Railway Building	1968	934108
O	323m S	Railway Buildings	1923	833659
AB	323m NW	Unspecified Mills	1923	891864
AB	323m NW	Unspecified Mills	1915	891864
X	326m N	Unspecified Works	1968	830476



ID	Location	Land Use	Date	Group ID
L	329m NE	Machine Works	1923	953970
D	331m SW	Railway Building	1956	917214
L	334m NE	Hospital	1921	885106
X	337m N	Glass Works	1923	903107
T	337m NE	Unspecified Mills	1938	917952
D	338m SW	Railway Building	1923	865882
D	339m SW	Railway Building	1938	865882
D	339m SW	Railway Building	1934	865882
D	339m SW	Railway Building	1915	865882
D	339m S	Police Station	1851	832592
D	342m SW	Railway Station	1851	942543
L	343m NE	Unspecified Tank	1923	825272
D	344m S	Goods Station	1978	858349
AB	345m NW	Unspecified Wharf	1923	869878
D	347m S	Railway Station	1968	981899
AD	348m SE	Unspecified Mills	1956	957321
L	349m NE	Machine Works	1921	953970
AD	350m SE	Unspecified Mill	1923	974952
D	350m S	Railway Building	1938	983618
D	350m S	Railway Building	1934	983618
D	351m SW	Railway Building	1915	924355
D	351m SW	Railway Building	1905	924355
D	351m SW	Railway Building	1923	924355
D	351m S	Railway Building	1915	940308
D	351m SW	Railway Building	1956	855450
L	352m NE	Hospital	1968	937930
AD	352m SE	Unspecified Mills	1938	957321
AD	352m SE	Unspecified Mill	1934	991978



ID	Location	Land Use	Date	Group ID
AD	352m SE	Unspecified Mill	1915	908517
D	352m S	Goods Station	1985	980310
D	352m S	Goods Station	1991	980310
D	353m SW	Grain Store	1923	946860
AB	353m NW	Unspecified Wharf	1938	892116
AB	353m NW	Unspecified Wharf	1934	892116
D	354m SW	Railway Building	1968	855450
D	354m SW	Railway Building	1938	893266
D	354m SW	Railway Building	1934	893266
AD	355m SE	Unspecified Mill	1968	935579
L	356m NE	Hospital	1891	962056
D	356m SW	Railway Building	1938	820435
D	356m SW	Grain Store	1915	946860
AD	356m SE	Unspecified Mill	1890	881657
D	357m S	Railway Station	1923	871349
AA	360m NW	Sawmills	1923	813168
D	361m SW	Railway Building	1978	874711
X	361m NE	Glass Works	1921	903107
AE	363m SE	Unspecified Commercial/Industrial	1934	796801
AE	363m SE	Unspecified Works	1915	989036
AC	364m N	Unspecified Mill	1968	810292
AE	366m SE	Unspecified Works	1923	989036
AE	369m SE	Printing Works	1890	809618
6	369m E	Unspecified Works	1923	830480
D	370m SW	Railway Station	1956	989397
AF	372m SE	Unspecified Tank	1938	970730
AF	372m SE	Unspecified Tank	1934	970730
AF	372m SE	Unspecified Tank	1915	970730



ID	Location	Land Use	Date	Group ID
L	376m NE	Unspecified Commercial/Industrial	1933	796757
S	377m SE	Railway Building	1938	874386
S	377m SE	Railway Building	1934	874386
S	377m SE	Railway Building	1915	935014
AB	378m NW	Unspecified Wharf	1915	974633
AF	379m SE	Unspecified Tank	1923	970730
S	380m SE	Railway Building	1923	950526
D	380m SW	Railway Station	1956	949532
S	381m SE	Railway Building	1923	820445
T	382m NE	Unspecified Mills	1956	898421
T	382m NE	Unspecified Mills	1968	898421
AH	383m NW	Unspecified Wharf	1956	971868
T	384m NE	Industrial Estate	1985	854771
T	384m NE	Industrial Estate	1991	854771
T	385m NE	Unspecified Mills	1923	937329
T	387m NE	Unspecified Mills	1921	986585
T	387m NE	Unspecified Mills	1933	861126
AI	387m N	Unspecified Works	1968	830474
AE	388m SE	Unspecified Works	1968	866667
D	390m SW	Railway Station	1988	979216
D	390m SW	Railway Station	1994	979216
O	391m S	Railway Building	1923	820269
AA	391m NW	Sawmill	1921	895554
AA	391m NW	Sawmill	1938	936555
AA	391m NW	Sawmill	1933	936555
AH	399m W	Unspecified Warehouse	1923	807197
D	400m SW	Railway Building	1971	985873
D	400m SW	Railway Building	1988	978063



ID	Location	Land Use	Date	Group ID
D	400m SW	Railway Building	1978	955370
D	400m SW	Railway Building	1985	978063
D	400m SW	Railway Building	1994	978063
AC	404m N	Unspecified Works	1968	830440
O	405m S	Railway Building	1923	820268
D	406m W	Railway Building	1915	893315
D	406m W	Railway Building	1905	893315
D	406m W	Railway Building	1923	893315
AH	407m NW	Unspecified Wharf	1905	976213
AH	407m NW	Unspecified Wharf	1890	976213
AH	407m NW	Unspecified Wharf	1923	976213
AH	410m NW	Unspecified Wharf	1915	976213
AH	410m W	Unspecified Warehouses	1938	964840
AH	410m W	Unspecified Warehouses	1934	964840
AH	410m W	Unspecified Warehouses	1915	933374
D	411m W	Railway Building	1938	893315
D	411m W	Railway Building	1934	893315
AH	411m NW	Unspecified Wharf	1934	971276
AK	417m S	Unspecified Works	1968	976597
AK	418m S	Unspecified Commercial/Industrial	1956	930471
AL	419m E	Grave Yard	1851	817298
AK	419m S	Unspecified Works	1978	980989
O	421m S	Railway Building	1923	820267
AM	425m SE	Unspecified Works	1915	954396
AM	426m SE	Unspecified Works	1923	954396
AN	427m NW	Unspecified Wharf	1923	851439
AK	428m S	Unspecified Works	1985	854217
AK	428m S	Unspecified Works	1991	854217



ID	Location	Land Use	Date	Group ID
AN	431m NW	Unspecified Wharf	1938	991516
AN	431m NW	Unspecified Wharf	1934	875206
AN	431m NW	Unspecified Wharf	1915	936033
8	433m E	Unspecified Ground Workings	1923	800646
AO	435m NW	Sawmill	1923	932999
AO	436m NW	Sawmill	1921	903562
AO	436m NW	Sawmill	1938	905698
AO	436m NW	Sawmill	1933	905698
AK	439m S	Unspecified Works	1915	967647
AC	440m NW	Disused Canal	1991	849130
O	441m S	Railway Building	1923	820266
AK	442m S	Unspecified Works	1923	967647
AC	444m N	Coal Wharf	1851	794093
AP	445m W	Goods Shed	1905	923774
AP	445m W	Goods Shed	1923	979300
AP	448m W	Goods Shed	1938	924820
AP	448m W	Goods Shed	1934	924820
AP	448m W	Goods Shed	1915	885654
9	448m SE	Unspecified Factory	1923	881854
AP	449m W	Railway Building	1890	820433
AO	452m NW	Unspecified Mill	1968	810293
AK	457m S	Dye Works	1851	833959
AL	462m E	Unspecified Tank	1985	982136
AL	462m E	Unspecified Tank	1991	982136
AR	468m SW	Cotton Mill	1851	797897
11	474m S	Dye Works	1851	833960
AC	475m NW	Disused Canal	1985	2367192
12	479m NE	Railway Building	1890	820432



ID	Location	Land Use	Date	Group ID
AS	479m S	Brewery	1915	932621
AT	480m SE	Rubber Works	1938	858199
AT	480m SE	Rubber Works	1915	893263
AS	481m S	Brewery	1923	932621
13	483m SE	Unspecified Factory	1915	881854
AR	483m SW	Unspecified Mill	1923	919594
AT	484m SE	Rubber Works	1934	947315
AR	485m SW	Unspecified Mills	1938	979357
AR	485m SW	Unspecified Mill	1934	945749
AR	485m SW	Unspecified Mill	1915	857457
AR	485m SW	Unspecified Mills	1890	989407
AU	485m NW	Unspecified Mills	1923	954294
AV	488m SE	Pin Mill	1938	932894
AV	488m SE	Pin Mill	1934	932894
AV	488m SE	Pin Mill	1915	878297
AU	489m NW	Unspecified Mills	1921	878606
AU	489m NW	Unspecified Mills	1938	900882
AU	489m NW	Unspecified Mills	1933	900882
AT	491m SE	Unspecified Works	1968	855879
AV	494m SE	Pin Mill	1923	845642
AV	495m SE	Unspecified Works	1968	830481
D	497m SW	Railway Buildings	1923	833658
14	499m NW	Unspecified Works	1968	830441

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

131

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
A	58m SW	Unspecified Tank	1889	115863
A	60m SW	Unspecified Tank	1908	115862
B	88m NW	Unspecified Tank	1891	115907
K	176m W	Unspecified Tank	1889	132358
K	176m W	Unspecified Tank	1889	132358
K	180m W	Unspecified Tank	1908	115909
F	206m NE	Unspecified Tank	1889	115908
F	236m NE	Unspecified Tank	1908	148442
F	236m NE	Unspecified Tank	1922	148442
F	236m NE	Unspecified Tank	1932	148442
F	237m NE	Unspecified Tank	1908	143306
F	237m NE	Unspecified Tank	1922	143306
D	243m SW	Unspecified Tank	1948	139263
D	243m SW	Unspecified Tank	1948	139263
F	245m NE	Unspecified Tank	1965	126201
F	245m NE	Unspecified Tank	1967	126201
F	245m NE	Unspecified Tank	1951	126201
F	245m NE	Unspecified Tank	1948	126201
F	245m NE	Unspecified Tank	1967	126201
F	245m NE	Unspecified Tank	1955	126201
F	245m NE	Unspecified Tank	1948	126201
F	250m NE	Tanks	1908	106802
F	251m NE	Tanks	1908	132347



ID	Location	Land Use	Date	Group ID
F	251m NE	Tanks	1922	132347
F	251m NE	Tanks	1932	132347
D	252m SW	Unspecified Tank	1889	148142
D	253m SW	Unspecified Tank	1891	148142
D	266m SW	Unspecified Tank	1889	115910
F	269m NE	Unspecified Tank	1908	128680
F	269m NE	Unspecified Tank	1922	128680
P	283m NW	Unspecified Tank	1891	115978
P	286m NW	Unspecified Tank	1891	115977
Z	312m NW	Unspecified Tank	1960	137797
Z	312m NW	Unspecified Tank	1953	137797
Z	312m NW	Unspecified Tank	1965	137797
Z	312m NW	Unspecified Tank	1967	137797
Z	312m NW	Unspecified Tank	1953	137797
Z	312m NW	Unspecified Tank	1953	137797
D	315m SW	Unspecified Tank	1955	139148
D	315m SW	Unspecified Tank	1950	137983
D	315m SW	Unspecified Tank	1955	134554
D	316m SW	Unspecified Tank	1952	145936
D	316m SW	Unspecified Tank	1948	146075
Q	325m E	Unspecified Tank	1889	115906
D	326m SW	Unspecified Tank	1955	145130
D	327m SW	Unspecified Tank	1950	138252
D	327m SW	Unspecified Tank	1952	132557
D	327m SW	Unspecified Tank	1948	148859
D	328m SW	Unspecified Tank	1948	131020
D	329m SW	Unspecified Tank	1948	131020
D	336m SW	Unspecified Tank	1889	131020

ID	Location	Land Use	Date	Group ID
D	336m SW	Unspecified Tank	1889	131020
D	337m SW	Unspecified Tank	1891	131020
D	338m SW	Unspecified Tank	1908	131020
D	338m SW	Unspecified Tank	1922	131020
D	338m SW	Unspecified Tank	1932	131020
D	343m SW	Unspecified Tank	1950	147696
D	343m SW	Unspecified Tank	1955	147696
D	344m SW	Unspecified Tank	1964	147696
D	344m SW	Unspecified Tank	1952	147696
D	344m SW	Unspecified Tank	1948	147696
D	344m SW	Unspecified Tank	1965	147696
D	344m SW	Unspecified Tank	1965	147696
X	363m N	Tanks	1891	106805
X	380m N	Unspecified Tank	1891	115979
X	382m N	Unspecified Tank	1891	115980
X	384m N	Unspecified Tank	1893	115981
T	385m NE	Unspecified Tank	1908	137618
T	385m NE	Unspecified Tank	1922	137618
X	387m N	Tanks	1891	106804
X	387m N	Unspecified Tank	1891	115975
AE	391m SE	Unspecified Tank	1908	115864
AE	394m SE	Unspecified Tank	1889	115865
D	395m SW	Unspecified Tank	1891	115930
D	398m SW	Unspecified Tank	1891	115935
D	399m S	Tanks	1891	106790
D	404m SW	Unspecified Tank	1891	115933
X	405m N	Unspecified Tank	1893	115974
D	407m SW	Unspecified Tank	1891	115931



ID	Location	Land Use	Date	Group ID
D	409m SW	Unspecified Tank	1891	115919
D	414m SW	Unspecified Tank	1891	115920
D	415m SW	Unspecified Tank	1891	115932
D	418m SW	Unspecified Tank	1891	115929
X	420m NE	Unspecified Tank	1893	115973
D	420m SW	Unspecified Tank	1891	115918
D	425m S	Unspecified Tank	1889	146095
D	425m S	Unspecified Tank	1889	146095
D	425m SW	Unspecified Tank	1891	115917
D	426m SW	Unspecified Tank	1891	115928
D	427m SW	Unspecified Tank	1891	115934
D	429m SW	Unspecified Tank	1891	115927
D	430m SW	Unspecified Tank	1891	115936
D	437m SW	Unspecified Tank	1891	115921
D	440m SW	Unspecified Tank	1891	115925
D	442m SW	Unspecified Tank	1891	115911
AL	445m E	Unspecified Tank	1985	132759
AL	445m E	Unspecified Tank	1990	132759
AL	445m E	Unspecified Tank	1990	132759
AL	445m E	Unspecified Tank	1989	132759
AL	446m E	Unspecified Tank	1957	134196
AL	446m E	Unspecified Tank	1951	134196
AL	446m E	Unspecified Tank	1948	134196
AL	446m E	Unspecified Tank	1951	132951
AL	446m E	Unspecified Tank	1948	132951
D	447m SW	Unspecified Tank	1891	115914
D	447m SW	Unspecified Tank	1891	115924
D	450m SW	Unspecified Tank	1891	115923

ID	Location	Land Use	Date	Group ID
X	452m N	Unspecified Tank	1893	115976
D	460m SW	Unspecified Tank	1891	115922
AK	466m S	Unspecified Tank	1889	115861
AK	468m S	Unspecified Tank	1889	128594
AK	468m S	Unspecified Tank	1889	128594
10	468m SW	Tanks	1908	106791
D	472m SW	Unspecified Tank	1891	115926
AK	474m S	Unspecified Tank	1889	115860
L	478m NE	Tanks	1948	131391
L	478m NE	Tanks	1951	142420
L	478m NE	Tanks	1948	142420
L	478m NE	Tanks	1951	142420
D	485m SW	Unspecified Tank	1891	115915
D	488m SW	Unspecified Tank	1891	115916
AQ	490m NW	Unspecified Tank	1960	148454
AQ	490m NW	Unspecified Tank	1953	148454
AQ	490m NW	Unspecified Tank	1965	148454
AQ	490m NW	Unspecified Tank	1953	148454
L	494m NE	Tanks	1951	127701
L	494m NE	Tanks	1948	127701
AK	494m S	Unspecified Tank	1889	136012
AK	494m S	Unspecified Tank	1889	136012
AC	496m N	Unspecified Tank	1948	133167
AC	496m N	Unspecified Tank	1948	133167

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

65

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
B	92m NW	Electricity Substation	1991	69001
B	92m NW	Electricity Substation	1992	69001
B	93m NW	Electricity Substation	1997	69001
E	155m E	Electricity Substation	1978	69011
E	156m E	Electricity Substation	1967	69011
E	156m E	Electricity Substation	1951	69011
E	156m E	Electricity Substation	1948	69011
E	156m E	Electricity Substation	1967	69011
E	156m E	Electricity Substation	1955	69011
E	156m E	Electricity Substation	1948	69011
E	161m E	Electricity Substation	1981	62187
K	182m W	Electricity Substation	1992	71274
K	183m W	Electricity Substation	1997	71274
I	225m NE	Electricity Substation	1988	81397
I	225m NE	Electricity Substation	1991	81397
I	225m NE	Electricity Substation	1992	81397
I	226m NE	Electricity Substation	1989	81397
I	226m NE	Electricity Substation	1997	81397
F	256m NE	Electricity Substation	1997	65447
F	256m NE	Electricity Substation	1978	65447
F	256m NE	Electricity Substation	1988	65447
F	256m NE	Electricity Substation	1991	65447
F	256m NE	Electricity Substation	1992	65447



ID	Location	Land Use	Date	Group ID
F	256m NE	Electricity Substation	1955	65447
F	256m NE	Electricity Substation	1989	65447
F	256m NE	Electricity Substation	1981	65447
F	256m NE	Electricity Substation	1948	65447
F	256m NE	Electricity Substation	1951	65447
F	256m NE	Electricity Substation	1948	65447
G	263m SE	Electricity Substation	1985	78122
G	263m SE	Electricity Substation	1991	78122
G	263m SE	Electricity Substation	1994	78122
G	305m SE	Electricity Substation	1994	76956
G	306m SE	Electricity Substation	1985	76956
G	306m SE	Electricity Substation	1991	76956
F	315m NE	Electricity Substation	1997	62188
AC	348m N	Electricity Substation	1989	64799
AC	348m N	Electricity Substation	1988	64799
AC	348m N	Electricity Substation	1991	64799
AC	348m N	Electricity Substation	1992	64799
AC	348m N	Electricity Substation	1997	64799
D	353m S	Electricity Substation	1985	69582
D	353m S	Electricity Substation	1991	69582
D	353m SW	Electricity Substation	1977	69582
D	354m SW	Electricity Substation	1994	69582
AC	400m N	Hydraulic Power Station	1908	72594
AC	400m N	Hydraulic Power Station	1922	72594
AC	400m N	Hydraulic Power Station	1931	72594
AC	406m N	Hydraulic Power Station	1951	65750
AC	406m N	Hydraulic Power Station	1948	65750
AC	407m N	Hydraulic Power Station	1955	84311

ID	Location	Land Use	Date	Group ID
AC	407m N	Hydraulic Power Station	1948	84311
AC	415m N	Corporation Hydraulic Power Station	1948	66629
AC	415m N	Corporation Hydraulic Power Station	1951	66629
AL	420m E	Electricity Substation	1990	74775
AL	420m E	Electricity Substation	1990	74775
AL	420m E	Electricity Substation	1989	74775
AL	420m E	Electricity Substation	1991	74775
AL	421m E	Electricity Substation	1994	81016
AL	421m E	Electricity Substation	1997	81016
AC	453m N	Electricity Substation	1987	64729
AC	454m N	Electricity Substation	1994	70177
AC	454m N	Electricity Substation	1978	70177
AC	454m N	Electricity Substation	1983	70177
AC	454m N	Electricity Substation	1991	70177

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

1

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
AQ	486m NW	Service Garage	1948	1532

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

79

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 30**

ID	Location	Land Use	Date	Group ID
1	11m NW	Garage	1948	20317
2	112m NE	Garage	1948	20325
F	190m E	Co-operation Garage and Workshops	1948	20539
P	240m NW	Garage	1991	24800
P	240m NW	Garage	1992	24800
F	253m E	Garage and Workshops	1951	20550
F	254m E	Co-op Garage and Workshops	1948	20621
P	254m NW	Garage	1948	21756
Q	254m E	Garage	1990	27786
Q	254m E	Garage	1989	27786
Q	254m E	Garage	1997	26249
Q	254m E	Garage	1994	26249
P	256m NW	Garage	1997	22282
R	263m E	Garage	1994	23944
R	263m E	Garage	1996	21966
M	303m W	Garage	1953	27482
M	303m W	Garage	1953	27482
M	303m W	Garage	1953	27482
M	303m W	Garage	1965	27482
M	303m W	Garage	1967	27482
M	303m W	Garage	1971	22847
Y	306m W	Garage	1971	22068
Y	309m W	Garage	1971	23059



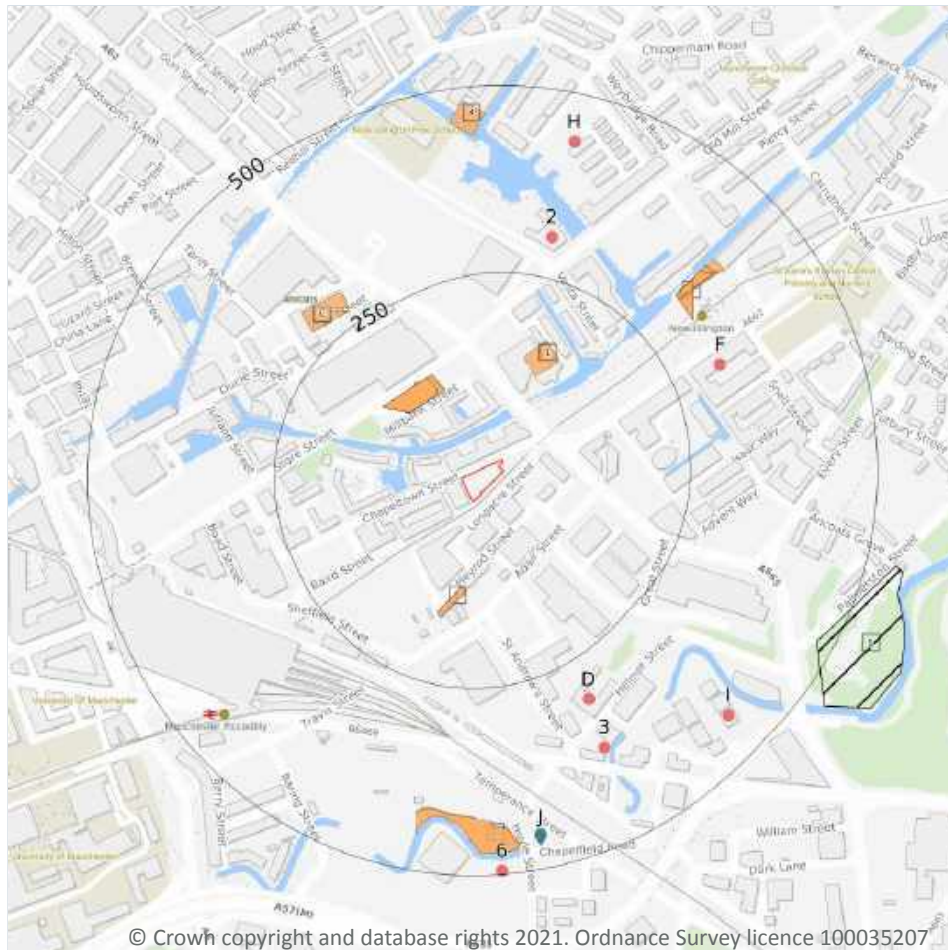
ID	Location	Land Use	Date	Group ID
X	315m N	Corporation Cleansing Department Garage	1955	25856
X	315m N	Corporation Cleansing Department Garage	1948	25856
X	315m N	Garage	1965	27438
X	315m N	Garage	1967	27438
X	315m N	Corporation Cleansing Department Garage	1948	21128
Q	315m E	Garage	1991	21495
AA	315m NW	Garage	1996	22785
AA	316m NW	Garage	1990	22515
M	317m W	Garage	1960	22202
M	317m W	Garage	1971	20877
Y	319m W	Garage	1953	26856
Y	319m W	Garage	1953	26856
Y	319m W	Garage	1953	26856
Y	319m W	Garage	1965	26856
Y	319m W	Garage	1967	26856
Y	319m W	Garage	1960	26856
W	329m S	Garage	1977	25171
W	329m S	Garage	1963	25171
W	329m S	Garage	1985	25171
W	329m S	Garage	1991	25171
W	330m S	Garage	1965	26504
W	330m S	Garage	1965	26504
W	330m S	Garage	1968	26504
AA	358m NW	Garage	1971	27725
AA	359m NW	Garage	1971	27725
AG	375m S	Garage	1994	20796
AG	375m S	Garage	1977	23899
AG	375m S	Garage	1985	24759

ID	Location	Land Use	Date	Group ID
AG	375m S	Garage	1991	24759
AG	379m S	Garage	1968	22183
AG	387m S	Garage	1963	22547
AG	388m S	Garage	1965	24941
AG	388m S	Garage	1965	24941
7	395m SW	Garage	1948	20318
AJ	396m NW	Garage	1948	24546
AJ	408m NW	Garage	1948	24546
AP	449m W	Garage	1990	23753
AO	458m NW	Garage	1951	20319
AQ	458m NW	Garage	1965	21679
AC	464m N	Garage	1951	20322
AP	465m W	Garage	1971	20840
AP	465m W	Garage	1971	21466
AI	472m N	Garage	1951	20323
AQ	474m NW	Garage	1971	25753
AQ	475m NW	Garage	1971	23646
AQ	475m NW	Garage	1990	25753
AI	479m N	Garage	1965	21074
AQ	486m NW	Garage	1971	27039
AQ	486m NW	Garage	1960	23455
AQ	486m NW	Service Garage	1948	20587
AQ	487m NW	Garage	1971	27039
AQ	487m NW	Garage	1953	23454
AQ	487m NW	Garage	1971	26371
AQ	488m NW	Garage	1990	23312
AQ	488m NW	Garage	1971	26371
AI	494m N	Garage	1963	22256

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Details		
5	476m SE	Site Address: Palmerston Street Landfill, Great Ancoats Street, River Medlock, Ardwick, Manchester, Greater Manchester Licence Holder Address: Clarence House, Mellor Road, Cheadle Hulme, Stockport	Waste Licence: Yes Site Reference: RD/LIC/440/86, F046 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/08/1986 Licence Surrender: 21/07/1988	Operator: - Licence Holder: Peter Birse Limited First Recorded 01/09/1986 Last Recorded: 31/12/1987

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m

19

Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Address	Further Details	Date
A	110m NW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1967

ID	Location	Address	Further Details	Date
A	111m NW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
A	111m NW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1978
A	111m NW	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
B	115m S	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
B	115m S	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
1	120m N	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
C	270m NW	Site Address: N/A	Type of Site: Waste Paper Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1932
C	271m NW	Site Address: N/A	Type of Site: Waste Paper Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1931
E	316m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955



ID	Location	Address	Further Details	Date
E	316m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
E	321m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1931
E	326m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1951
E	326m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
E	342m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1951
E	342m NE	Site Address: N/A	Type of Site: Waste Paper Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1948
G	413m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991
G	414m S	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1994
4	434m N	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1967



This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m

2

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 54**

ID	Location	Details		
J	457m S	Site Name: City Excavations Aggregate Yard Site Address: Hoyle Street, Hoyle Trading Estate, Manchester, M12 6JL Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CIT060 EPR reference: EA/EPR/CB3905MR/S002 Operator: City Excavations Ltd Waste Management licence No: 402399 Annual Tonnage: 0	Issue Date: 01/06/2015 Effective Date: - Modified: - Surrendered Date: Jan 28 2021 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
J	457m S	Site Name: City Excavations Aggregate Yard Site Address: Hoyle Street, Hoyle Trading Estate, Manchester, M12 6JL Correspondence Address: -	Type of Site: Inert & excavation Waste TS + treatment Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CIT060 EPR reference: EA/EPR/CB3905MR/A001 Operator: City Excavations Ltd Waste Management licence No: 402399 Annual Tonnage: 75000	Issue Date: 01/06/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m

24

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 54**



ID	Location	Site	Reference	Category	Sub-Category	Description
2	304m N	OLD MILL STREET, MANCHESTER, M4 6EE	WEX234237	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Storing waste exemption	Not on a farm	Storage of sludge
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Disposing of waste exemption	Not on a farm	Burning waste in the open
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Treatment of waste food
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Manual treatment of waste
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Sorting mixed waste



ID	Location	Site	Reference	Category	Sub-Category	Description
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Treating waste exemption	Not on a farm	Recovery of textiles
D	306m SE	Cheaper than a skip ltd, Junc St Andrews Street & Fairfield Street, Helmet Street, Manchester, Manchester, M1 2NT	WEX240717	Using waste exemption	Not on a farm	Use of waste in construction
D	306m SE	105, St. Andrews street, Fairfield street & helmet street, Manchester, M1 2NT	WEX258826	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
F	318m NE	Vulcan Mill Phase 2 - New build construction by Russells, Malta Street, Manchester, M4 7AN	WEX118448	Treating waste exemption	Not on a farm	Screening and blending of waste
F	318m NE	Vulcan Mill Phase 2 - New build construction by Russells, Malta Street, Manchester, M4 7AN	WEX118448	Using waste exemption	Not on a farm	Use of waste in construction
3	372m SE	107 Fairfield Street Manchester Lancashire M1 2WG	EPR/NF0907N V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
H	435m N	-	WEX243781	Treating waste exemption	Not on a farm	Screening and blending of waste
H	435m N	-	WEX243781	Using waste exemption	Not on a farm	Use of waste in construction

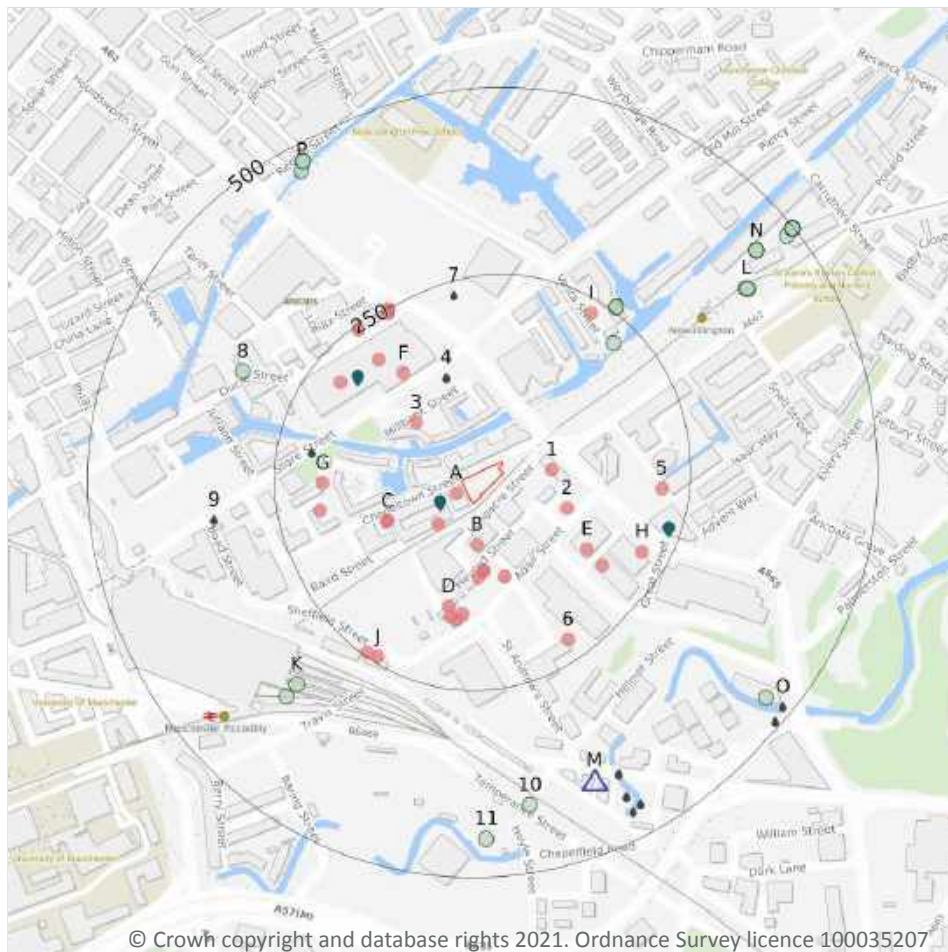


ID	Location	Site	Reference	Category	Sub-Category	Description
I	442m SE	UNIT E, ALDOW ENTERPRISE PARK, BLACKETT STREET, MANCHESTER, M12 6AE	WEX252389	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	442m SE	UNIT E, ALDOW ENTERPRISE PARK, BLACKETT STREET, MANCHESTER, M12 6AE	WEX252389	Storing waste exemption	Not on a farm	Storage of waste in secure containers
I	442m SE	Aldow Enterprise Park Unit E Blackett Street MANCHESTER M12 6AE	EPR/ZE5546CN /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
I	442m SE	Aldow Enterprise Park Unit E Blackett Street MANCHESTER M12 6AE	EPR/KE5943LH /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
6	495m S	Hoyle Street Mancunian Way Manchester Manchester M12 6HL	EPR/MF0306E V/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place

This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

42

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Company	Address	Activity	Category
A	14m SW	Factory	Greater Manchester, M1	Unspecified Works Or Factories	Industrial Features
A	53m SW	Chimney	Greater Manchester, M1	Chimneys	Industrial Features
B	55m S	Manchester Van Hire	7, Heyrod Street, Manchester, Greater Manchester, M1 2WW	Vehicle Repair, Testing and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
1	65m E	The Safe Deposit Centre Manchester	Victoria House, Great Ancoats Street, Manchester, Greater Manchester, M4 7DB	Container and Storage	Transport, Storage and Delivery
B	91m S	Gorman Shorrock & Davies Ltd	52, Heyrod Street, Manchester, Greater Manchester, M1 2WW	Published Goods	Industrial Products
B	91m S	K M Print Design Ltd	52, Heyrod Street, Manchester, Greater Manchester, M1 2WW	Published Goods	Industrial Products
2	97m SE	Armstrongs Office Furniture	1, Adair Street, Manchester, Greater Manchester, M1 2NQ	Office and Shop Equipment	Industrial Products
3	98m NW	Electricity Sub Station	Greater Manchester, M1	Electrical Features	Infrastructure and Facilities
B	100m S	Works	Greater Manchester, M1	Unspecified Works Or Factories	Industrial Features
B	106m SE	P A Metals	7, Adair Street, Manchester, Greater Manchester, M1 2NQ	Scrap Metal Merchants	Recycling Services
C	113m SW	Imperial Knitwear Ltd	66-72, Chapeltown Street, Manchester, Greater Manchester, M1 2WH	Textiles, Fabrics, Silk and Machinery	Industrial Products
C	113m SW	Abbey Knitwear Ltd	66-72, Chapeltown Street, Manchester, Greater Manchester, M1 2WH	Textiles, Fabrics, Silk and Machinery	Industrial Products
D	142m S	Works	Greater Manchester, M1	Unspecified Works Or Factories	Industrial Features
D	149m S	Manchester Van Hire	Manchester Van Hire, Travis Street, Manchester, Greater Manchester, M1 2NG	Vehicle Hire and Rental	Hire Services
E	151m SE	Toolstation	10, Piccadilly Trading Estate, Manchester, Greater Manchester, M1 2NP	Construction and Tool Hire	Hire Services
D	154m S	Works	Greater Manchester, M1	Unspecified Works Or Factories	Industrial Features
D	159m S	Manchester Van & Car Hire	Richmond House, Travis Street, Manchester, Greater Manchester, M1 2NG	Vehicle Hire and Rental	Hire Services
F	163m NW	Presbar Diecastings	Store Street, Manchester, Greater Manchester, M1 2WD	Moulds, Dies and Castings	Industrial Products
E	181m SE	Cloudwater Brew Co	7-8, Piccadilly Trading Estate, Manchester, Greater Manchester, M1 2NP	Alcoholic Drinks	Foodstuffs



ID	Location	Company	Address	Activity	Category
G	186m W	Electricity Sub Station	Greater Manchester, M1	Electrical Features	Infrastructure and Facilities
G	194m W	Electricity Sub Station	Greater Manchester, M1	Electrical Features	Infrastructure and Facilities
F	196m NW	Works	Greater Manchester, M1	Unspecified Works Or Factories	Industrial Features
F	208m NW	Works	Greater Manchester, M4	Unspecified Works Or Factories	Industrial Features
5	212m E	Electricity Sub Station	Greater Manchester, M1	Electrical Features	Infrastructure and Facilities
H	213m SE	Electricity Sub Station	Greater Manchester, M1	Electrical Features	Infrastructure and Facilities
6	221m SE	Chimney	Greater Manchester, M1	Chimneys	Industrial Features
I	231m NE	Electricity Sub Station	Greater Manchester, M4	Electrical Features	Infrastructure and Facilities
J	242m SW	Election Workshop	Unit 3, Sheffield Street, Manchester, Greater Manchester, M1 2ND	Published Goods	Industrial Products
F	244m NW	A&M Labels	65-67, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Published Goods	Industrial Products
F	244m NW	A & M Labels	65-67, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Stationery, Stamps, Tags and Labels	Industrial Products
F	245m NW	Investravel	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Vehicle Hire and Rental	Hire Services
F	245m NW	Acdc Mobile Welding Manchester	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
F	245m NW	A R C Window Films Ltd	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Industrial Coatings and Finishings	Industrial Products
F	245m NW	Shutters & Blinds UK	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Curtains and Blinds	Consumer Products
F	245m NW	Tradeskips	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Construction and Tool Hire	Hire Services
F	245m NW	123 Leasing Ltd	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Vehicle Hire and Rental	Hire Services



ID	Location	Company	Address	Activity	Category
F	245m NW	M B Energy	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
F	245m NW	S T Caravan Services	83, Ducie Street, Manchester, Greater Manchester, M1 2JQ	Sports and Leisure Equipment Repair	Repair and Servicing
J	246m SW	Track Brewing Co	Unit 5 Sheffield Street, Manchester, Greater Manchester, M1 2ND	Alcoholic Drinks	Foodstuffs
F	249m NW	Castle Comfort Stairlifts Ltd	132-134, Great Ancoats Street, Manchester, Greater Manchester, M4 6DE	Disability and Mobility Equipment	Consumer Products
F	249m NW	Ocean Design UK	132-134, Great Ancoats Street, Manchester, Greater Manchester, M4 6DE	Published Goods	Industrial Products
F	249m NW	Sky Lighting	132-134, Great Ancoats Street, Manchester, Greater Manchester, M4 6DE	Aeroplanes	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Company	Address	LPG	Status
M	404m SE	UNBRANDED	100, Fairfield Street, Manchester, Greater Manchester, M1 2WR	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.



4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

3

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Address	Details	
A	39m SW	Central Taxi Spares Ltd, Chapletown Street, Ancoats, M1 2NN	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	196m NW	Presbar Diecastings Ltd, Store Street, Piccadilly Village, Ancoats, Manchester, M1 2WD	Process: Non-ferrous Metal Foundry Processes Status: Historical Permit Permit Type: Part B	Enforcement: 2 Enforcement Notified Date of enforcement: 12/09/2013, 09/01/2014 Comment: Statutory noise nuisance
H	233m E	Advent Manchester, 309 Great Ancoats Street, Manchester M4 7DF	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

13

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Address	Details	
4	132m NW	GREAT ANCOATS STREET, SSO, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 01MAN0023 Permit Version: 1 Receiving Water: SHOOTERS BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 15/09/1993 Revocation Date: 15/09/1993
G	204m W	STORE STREET, ANCOATS, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982994 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/06/1995 Revocation Date: -
7	231m N	GREAT ANCOATS STREET, SSO, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 01MAN0024 Permit Version: 1 Receiving Water: SHOOTERS BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 15/09/1993 Revocation Date: 15/09/1993
I	263m NE	SOHO WORKS SITE SWO, POLLARD STREET, ANCOATS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991041 Permit Version: 1 Receiving Water: MANCHESTER & ASHTON CANAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/09/1985 Revocation Date: 01/07/1991
9	334m W	STORE STREET, ANCOATS, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0371 Permit Version: 1 Receiving Water: -	Status: SURRENDERED UNDER EPR 2010 Issue date: - Effective Date: 01/01/1995 Revocation Date: 05/12/2014



ID	Location	Address	Details	
M	410m SE	RAVEN STREET, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0198 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 31/03/1998
M	441m SE	FAIRFIELD ST/CRANE ST, ARDWICK, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982727 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: CONSENT REVOKED - DISCHARGE CEASED (WRA 91, SCHED 10 & 6) Issue date: - Effective Date: 28/11/1994 Revocation Date: 31/03/1998
M	459m SE	FAIRFIELD STREET CSO, FAIRFIELD STREET, MANCUNIAN WAY, MANCHESTER, M12 6EJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982730 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 30/09/1994 Revocation Date: 31/03/2018
M	459m SE	FAIRFIELD STREET CSO, FAIRFIELD STREET, MANCUNIAN WAY, MANCHESTER, M12 6EJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982730 Permit Version: 2 Receiving Water: RIVER MEDLOCK	Status: VARIED UNDER EPR 2010 Issue date: 19/03/2018 Effective Date: 01/04/2018 Revocation Date: -
M	459m SE	FAIRFIELD STREET CSO, FAIRFIELD STREET, MANCUNIAN WAY, MANCHESTER, M12 6EJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0309 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995
M	463m SE	MANCUNIAN WAY, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0192 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 18/07/1995
O	486m SE	GREAT ANCOATS ST, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0257 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/06/1999



ID	Location	Address	Details	
O	492m SE	BLACKETT STREET, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0194 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 18/07/1995

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0
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Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0
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Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0
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Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

24

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Details	
I	217m NE	Incident Date: 11/03/2002 Incident Identification: 63079 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	256m NE	Incident Date: 22/07/2002 Incident Identification: 93360 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
I	256m NE	Incident Date: 22/07/2002 Incident Identification: 93360 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
8	326m NW	Incident Date: 22/02/2003 Incident Identification: 138638 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	338m SW	Incident Date: 30/05/2001 Incident Identification: 6998 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	360m SW	Incident Date: 08/03/2001 Incident Identification: 96 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
L	400m NE	Incident Date: 10/10/2002 Incident Identification: 114010 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	401m NE	Incident Date: 14/07/2003 Incident Identification: 173497 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
L	401m NE	Incident Date: 29/05/2003 Incident Identification: 161551 Pollutant: Inert Materials and Wastes:Oils and Fuel Pollutant Description: Other Inert Material or Waste:Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
10	409m S	Incident Date: 30/05/2001 Incident Identification: 7029 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
N	442m NE	Incident Date: 30/05/2002 Incident Identification: 82011 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
N	442m NE	Incident Date: 30/05/2002 Incident Identification: 82011 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
N	442m NE	Incident Date: 30/05/2002 Incident Identification: 82011 Pollutant: Inert Materials and Wastes:Specific Waste Materials Pollutant Description: Construction and Demolition Materials and Wastes:Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
11	448m S	Incident Date: 31/07/2001 Incident Identification: 20628 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
O	461m SE	Incident Date: 16/08/2015 Incident Identification: 1365039 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	466m NW	Incident Date: 22/05/2001 Incident Identification: 6328 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	476m NW	Incident Date: 17/05/2001 Incident Identification: 5825 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
P	476m NW	Incident Date: 17/05/2001 Incident Identification: 5825 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
N	485m NE	Incident Date: 28/08/2001 Incident Identification: 27218 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
N	498m NE	Incident Date: 12/08/2001 Incident Identification: 23613 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
N	498m NE	Incident Date: 12/08/2001 Incident Identification: 23613 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
N	498m NE	Incident Date: 12/08/2001 Incident Identification: 23613 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
N	498m NE	Incident Date: 12/08/2001 Incident Identification: 23613 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
N	498m NE	Incident Date: 12/08/2001 Incident Identification: 23613 Pollutant: General Biodegradable Materials and Wastes:Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Food and Drink:Commercial Waste:Household Waste:Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



4.20 Pollution inventory waste transfers

Records within 500m**0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.21 Pollution inventory radioactive waste

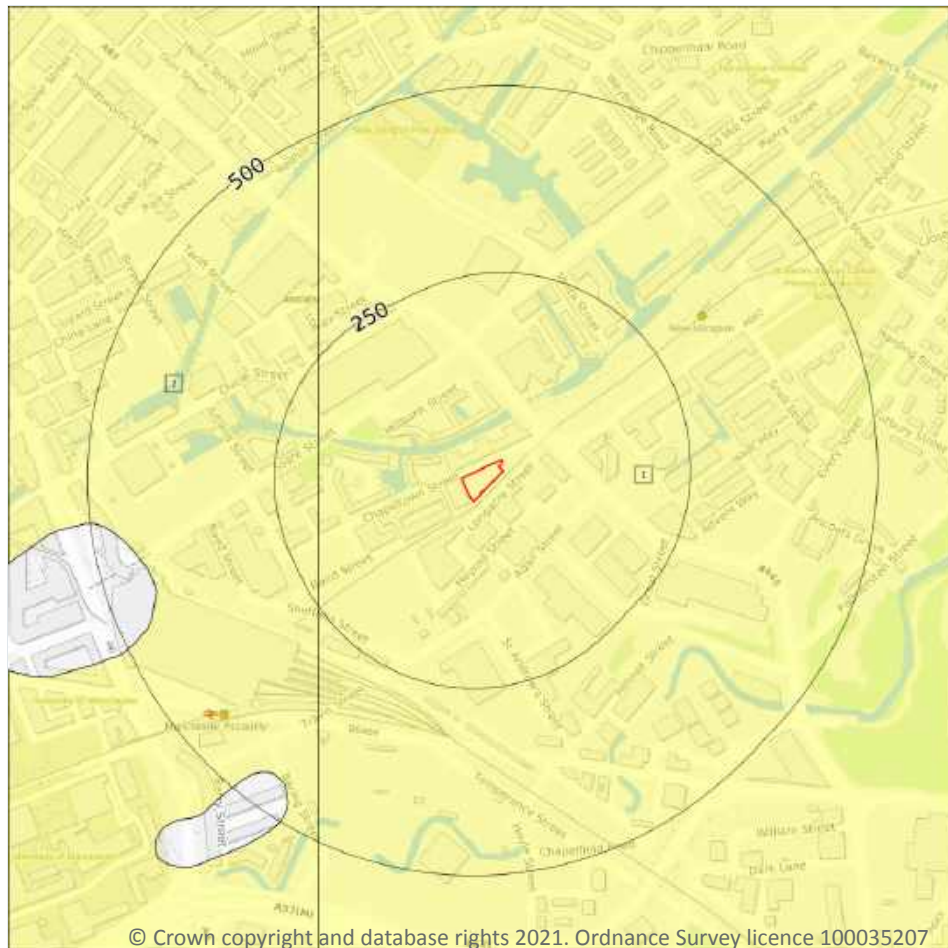
Records within 500m**0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.



5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive
 - Unknown

5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

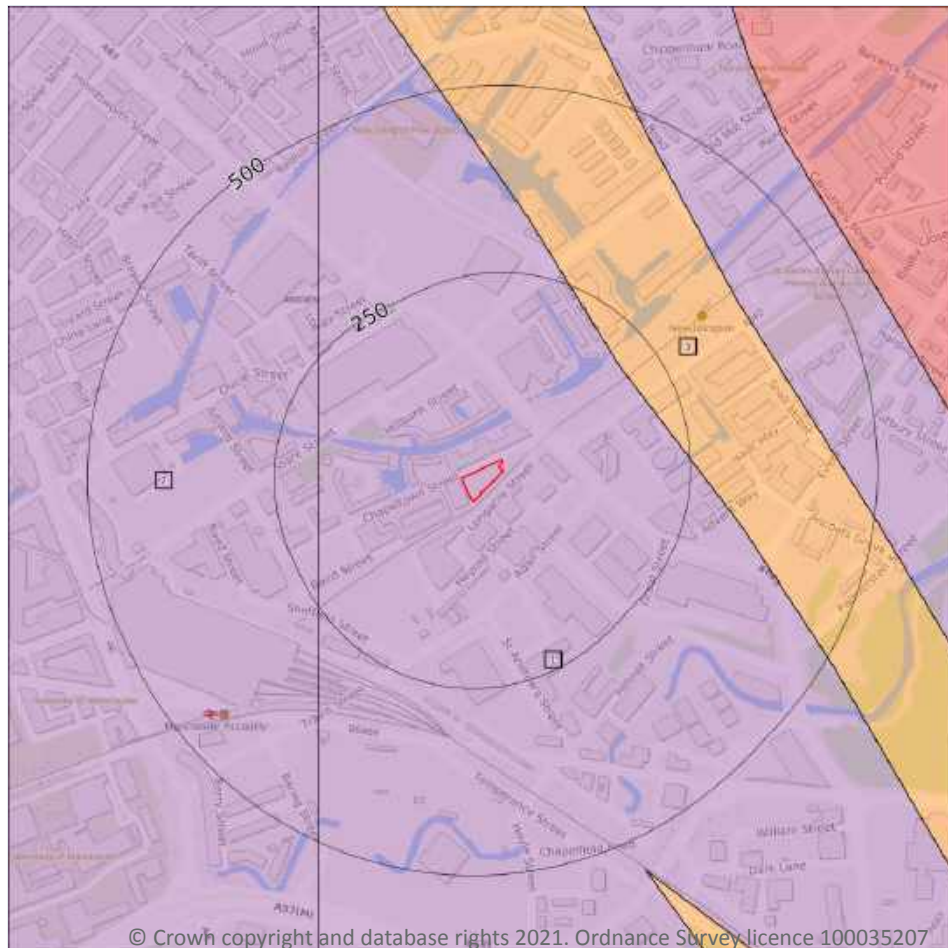
Features are displayed on the Hydrogeology map on **page 75**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	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
2	191m W	Secondary Undifferentiated	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

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 77**

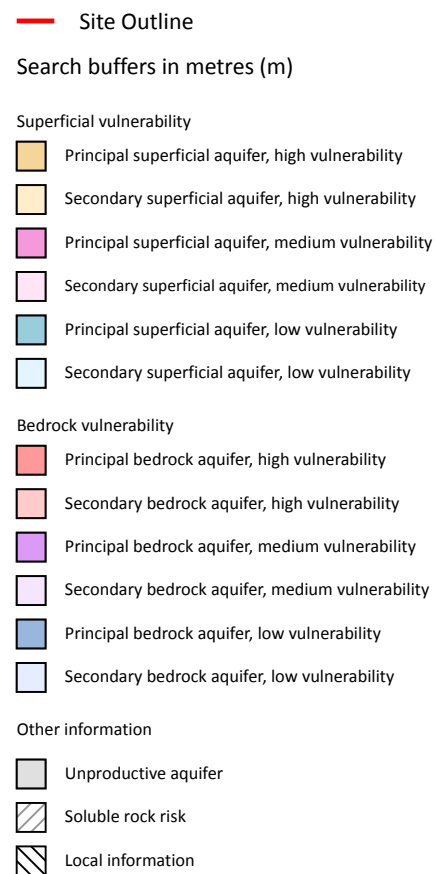
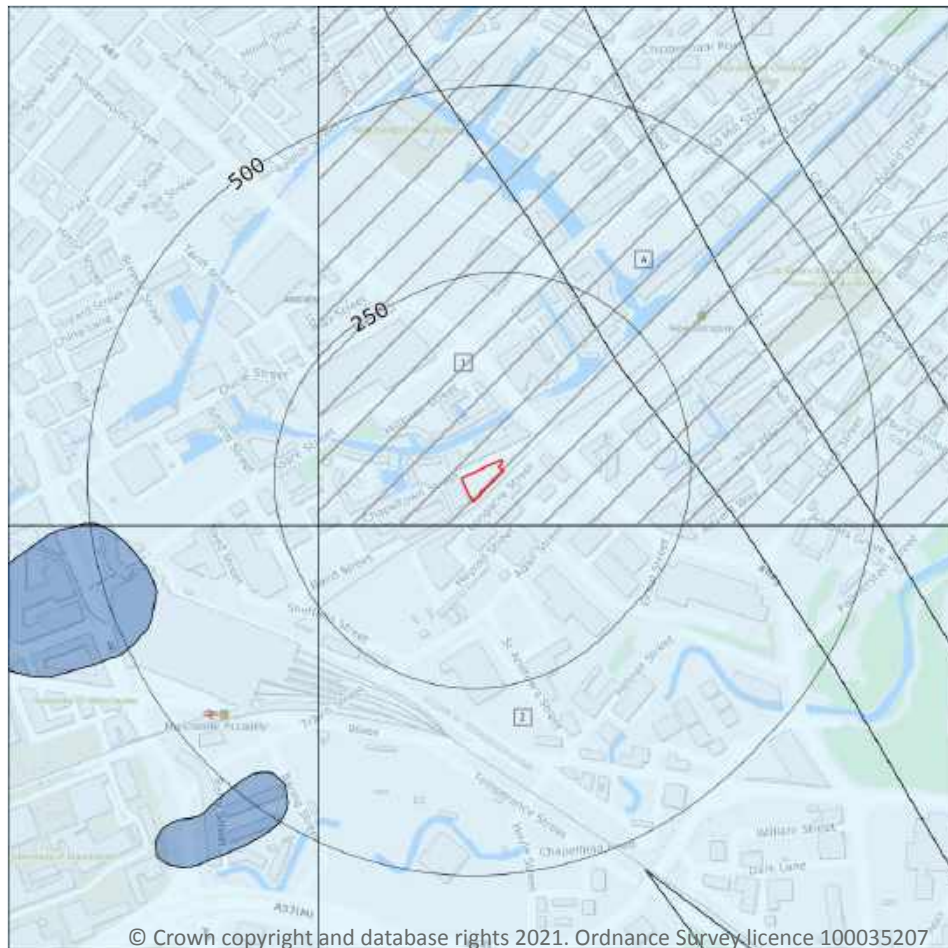
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	191m W	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	201m NE	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 79**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures
2	31m S	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Principal Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	1
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
A	Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.	2.0%

This data is sourced from the British Geological Survey and the Environment Agency.

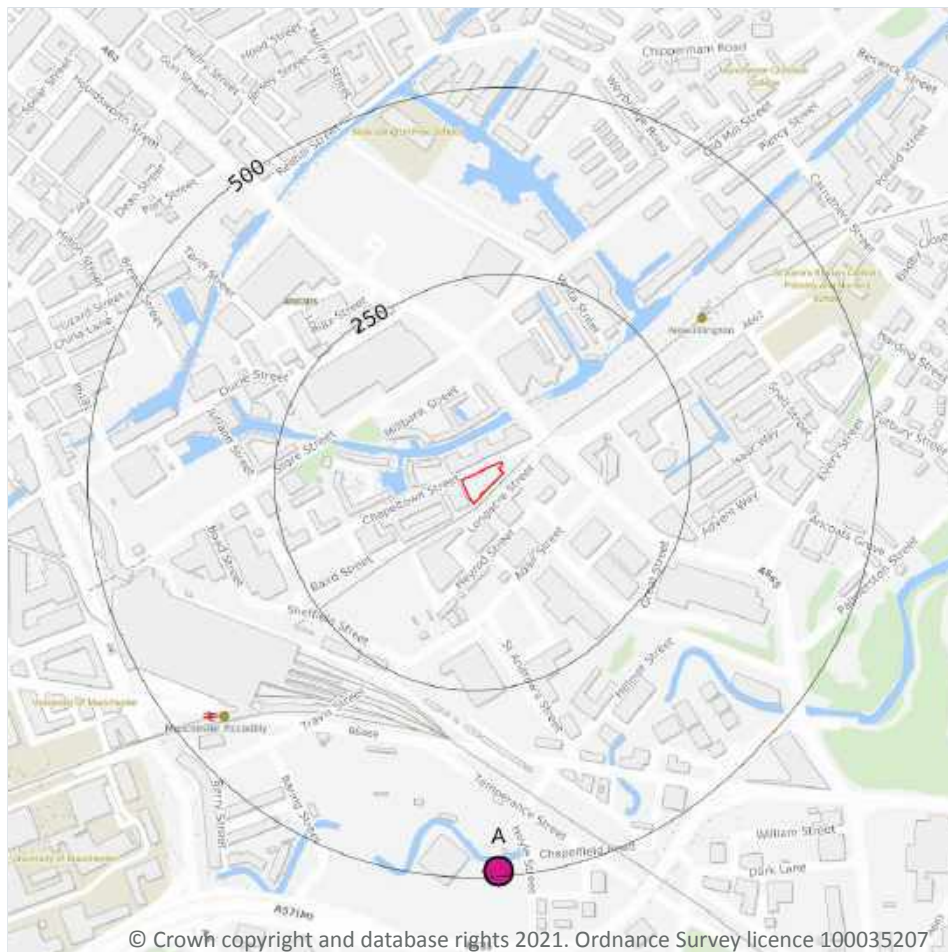
5.5 Groundwater vulnerability- local information

Records on site	0
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This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

37

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 81**

ID	Location	Details	
A	493m S	Status: Historical Licence No: 2569006001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, BROADIE ST, ARDWICK, MANCHESTER" Data Type: Point Name: MOSELEY RUBBER CO LTD Easting: 385240 Northing: 397540	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/02/1966 Version End Date: -
A	493m S	Status: Historical Licence No: 2569006001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, BROADIE ST, ARDWICK, MANCHESTER Data Type: Point Name: MOSELEY RUBBER CO LTD Easting: 385240 Northing: 397540	Annual Volume (m ³): 331858 Max Daily Volume (m ³): 909.2 Original Application No: - Original Start Date: 08/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 08/02/1966 Version End Date: -
-	876m W	Status: Historical Licence No: NW0690006001 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLES AT ORIGIN DEVELOPMENTS, MANCHESTER Data Type: Point Name: West Contracting Easting: 384378 Northing: 397733	Annual Volume (m ³): 139128 Max Daily Volume (m ³): 1010 Original Application No: - Original Start Date: 19/01/2009 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/01/2009 Version End Date: -
-	876m W	Status: Historical Licence No: NW/069/0006/001 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLES AT ORIGIN DEVELOPMENTS, MANCHESTER Data Type: Point Name: West Contracting Easting: 384378 Northing: 397733	Annual Volume (m ³): 139128 Max Daily Volume (m ³): 1010 Original Application No: - Original Start Date: 19/01/2009 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 19/01/2009 Version End Date: -

ID	Location	Details	
-	1092m W	Status: Historical Licence No: 2569007069 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT GEORGE ST, MANCHESTER" Data Type: Point Name: BRITISH TELECOM Easting: 384100 Northing: 398000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1971 Version End Date: -
-	1092m W	Status: Historical Licence No: 2569007069 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT GEORGE ST, MANCHESTER Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 384100 Northing: 398000	Annual Volume (m ³): 1100 Max Daily Volume (m ³): 860 Original Application No: - Original Start Date: 01/04/1984 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1358m SE	Status: Historical Licence No: NW/069/0004/005 Details: Heat Pump Direct Source: Ground Water - North West Region Point: AREA OF ABSTRACTION - LOWER CARBONIFEROUS LIMESTONE Data Type: Poly4 Name: G T Energy UK Limited Easting: 385729 Northing: 396778	Annual Volume (m ³): 2,049,840 Max Daily Volume (m ³): 8640 Original Application No: - Original Start Date: 17/01/2013 Expiry Date: 16/01/2037 Issue No: 2 Version Start Date: 11/06/2013 Version End Date: -
-	1392m SW	Status: Active Licence No: NW/069/0006/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LOWER CHATHAM STREET Data Type: Point Name: Manchester Metropolitan University Easting: 384180 Northing: 397091	Annual Volume (m ³): 283,240 Max Daily Volume (m ³): 1,532 Original Application No: - Original Start Date: 04/04/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/04/2014 Version End Date: -



ID	Location	Details	
-	1392m SW	Status: Active Licence No: NW/069/0006/003 Details: Heat Pump Direct Source: Ground Water - North West Region Point: BOREHOLE 1 AT LOWER CHATHAM STREET Data Type: Point Name: Manchester Metropolitan University Easting: 384180 Northing: 397091	Annual Volume (m ³): 283,240 Max Daily Volume (m ³): 1,532 Original Application No: - Original Start Date: 04/04/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 04/04/2014 Version End Date: -
-	1621m NW	Status: Historical Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD" Data Type: Point Name: BRITISH TELECOM Easting: 383700 Northing: 398700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 27/01/1971 Version End Date: -
-	1621m NW	Status: Historical Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 383700 Northing: 398700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1984 Version End Date: -
-	1621m NW	Status: Active Licence No: 2569007070 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIAL HOUSE CHAPEL STREET SALFORD Data Type: Point Name: BRITISH TELECOMMUNICATIONS PLC Easting: 383700 Northing: 398700	Annual Volume (m ³): 45 Max Daily Volume (m ³): 30 Original Application No: - Original Start Date: 27/01/1971 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2007 Version End Date: -



ID	Location	Details	
-	1774m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -



ID	Location	Details	
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1790m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1872m W	Status: Historical Licence No: 2569007089 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: 2 BOREHOLES AT GARTSIDE STREET MANCHESTER Data Type: Line Name: HER MAJESTY'S COURT SERVICE Easting: 383335 Northing: 398310	Annual Volume (m ³): 200000 Max Daily Volume (m ³): 1179 Original Application No: - Original Start Date: 26/01/2005 Expiry Date: 31/03/2011 Issue No: 2 Version Start Date: 10/07/2008 Version End Date: -
-	1967m NW	Status: Historical Licence No: 2569004011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3" Data Type: Point Name: JOSEPH HOLT LTD Easting: 384100 Northing: 399700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/02/1966 Version End Date: -



ID	Location	Details	
-	1967m NW	Status: Historical Licence No: 2569004011 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3" Data Type: Point Name: JOSEPH HOLT LTD Easting: 384100 Northing: 399700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/02/1966 Version End Date: -
-	1967m NW	Status: Active Licence No: 2569004011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3 Data Type: Point Name: JOSEPH HOLT LTD Easting: 384100 Northing: 399700	Annual Volume (m ³): 45,460 Max Daily Volume (m ³): 181.84 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/02/1966 Version End Date: -
-	1967m NW	Status: Active Licence No: 2569004011 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3 Data Type: Point Name: JOSEPH HOLT LTD Easting: 384100 Northing: 399700	Annual Volume (m ³): 45,460 Max Daily Volume (m ³): 181.84 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 17/02/1966 Version End Date: -
-	1969m SW	Status: Active Licence No: NW/069/0004/003 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT MANCHESTER METROPOLITAN UNIVERSITY Data Type: Point Name: Manchester Metropolitan University Easting: 383715 Northing: 396746	Annual Volume (m ³): 274,115 Max Daily Volume (m ³): 751 Original Application No: - Original Start Date: 20/09/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2015 Version End Date: -



ID	Location	Details	
-	1969m SW	Status: Active Licence No: NW/069/0004/003 Details: Heat Pump Direct Source: Ground Water - North West Region Point: BOREHOLE AT MANCHESTER METROPOLITAN UNIVERSITY Data Type: Point Name: Manchester Metropolitan University Easting: 383715 Northing: 396746	Annual Volume (m ³): 274,115 Max Daily Volume (m ³): 751 Original Application No: - Original Start Date: 20/09/2013 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/01/2015 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	0
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	9
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 81**

ID	Location	Details	
-	1774m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -

ID	Location	Details	
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1774m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383820 Northing: 399190	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -



ID	Location	Details	
-	1786m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383830 Northing: 399220	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER" Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/08/2000 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -
-	1790m NW	Status: Historical Licence No: 2569004023 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER Data Type: Point Name: INTERBREW UK LTD Easting: 383850 Northing: 399250	Annual Volume (m ³): 500000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2004 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

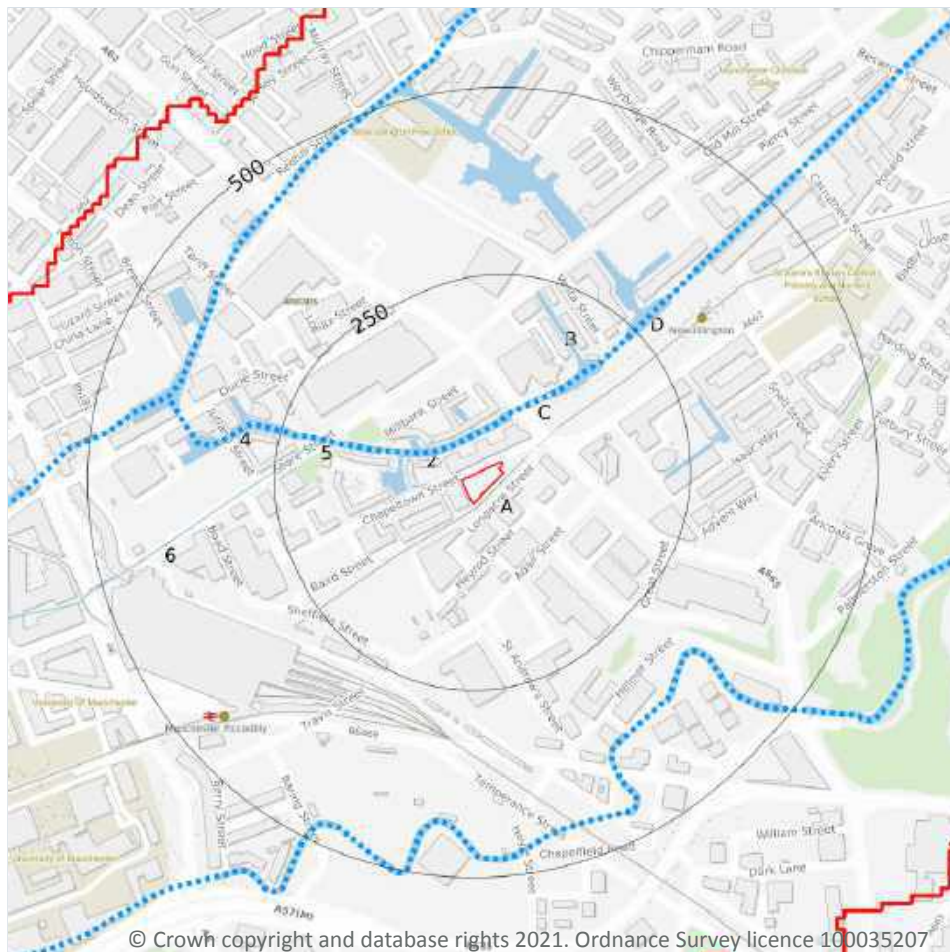
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ... WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

13

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 95**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	47m NW	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal



ID	Location	Type of water feature	Ground level	Permanence	Name
C	64m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
C	64m N	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
C	88m NE	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
C	109m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
C	125m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
B	165m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Islington Branch
C	165m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
4	181m W	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
5	181m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	201m NE	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal
6	212m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	224m NE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Ashton Canal

This data is sourced from the Ordnance Survey.



6.2 Surface water features

Records within 250m

4

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 95**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 95**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Medlock (Lumb Brook to Irwell)	GB112069061152	Roch Irk Medlock	Irwell

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

2

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 95**



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
B	47m NW	Canal	Ashton Canal and Peak Forest Canal, lower section	GB71210219	Moderate	Good	Moderate	2016
11	344m SE	River	Medlock (Lumb Brook to Irwell)	GB112069061152	Moderate	Good	Moderate	2016

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1
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Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 95**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers	GB41201G101100	Poor	Poor	Poor	2015

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m**0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m**0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m**0**

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m

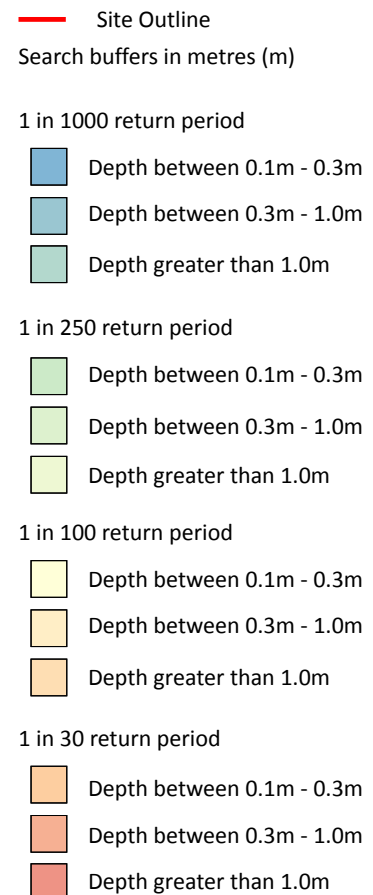
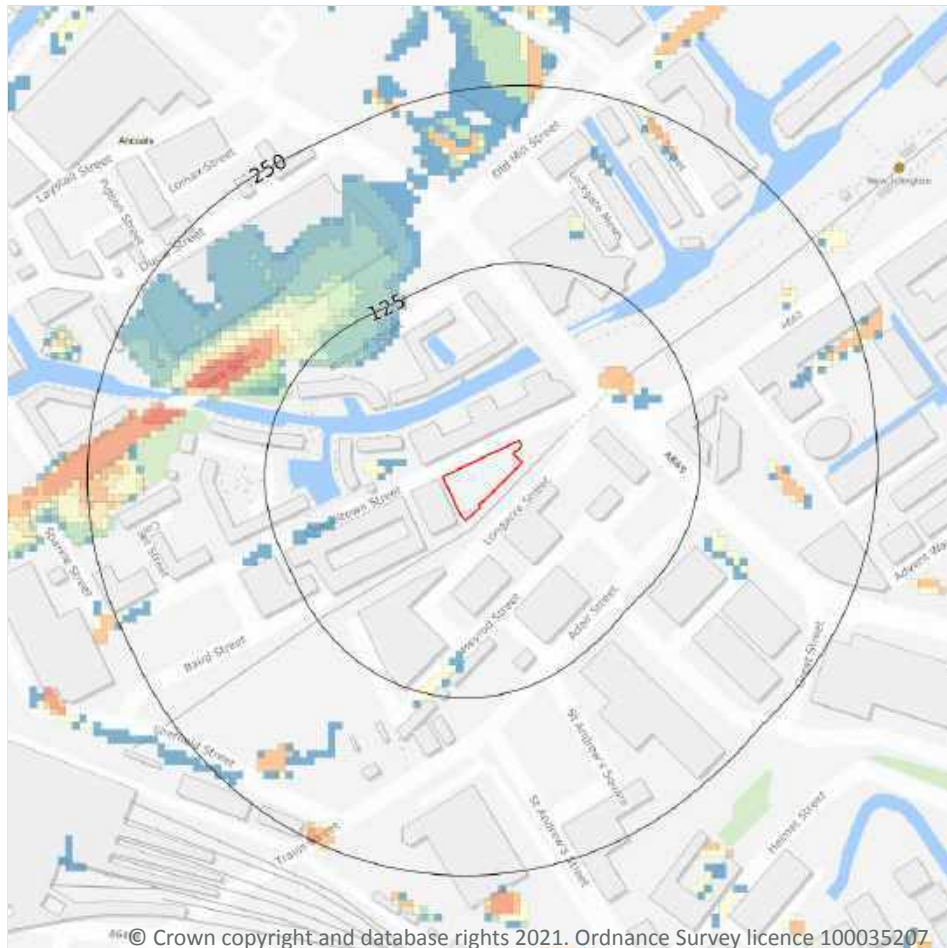
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 100 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 102**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

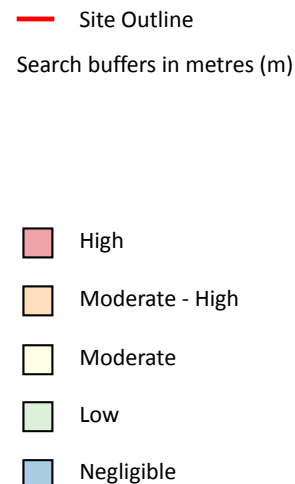
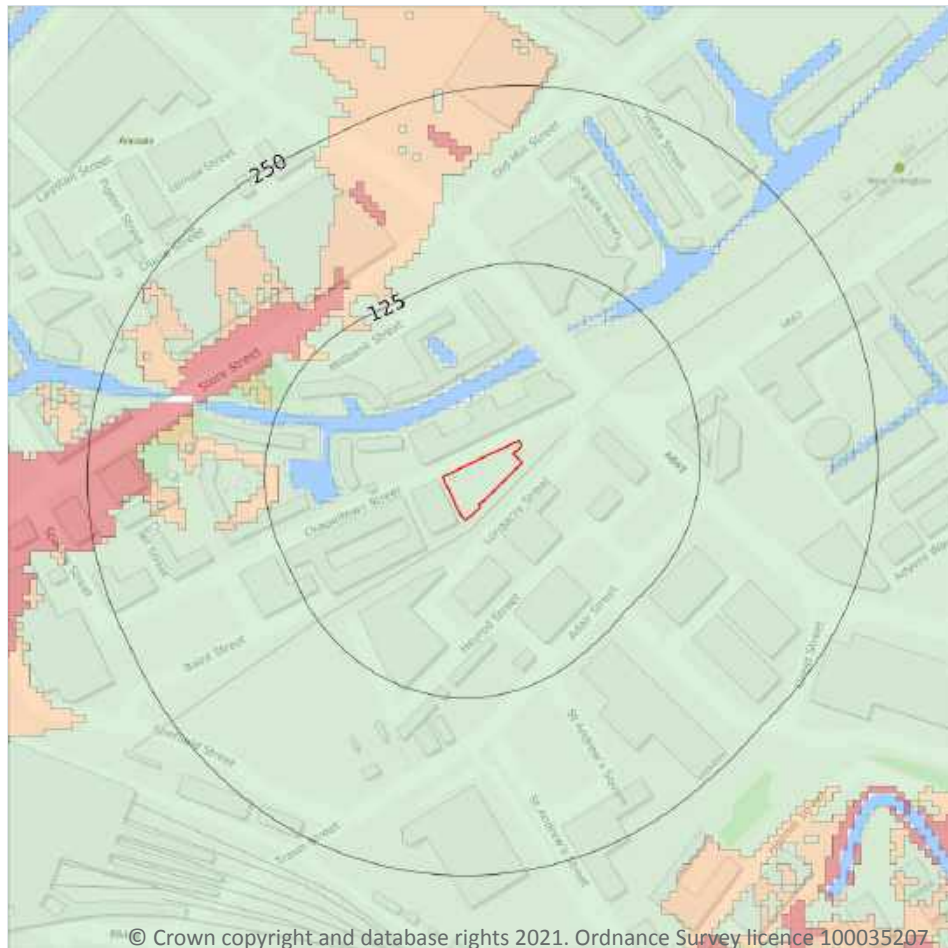
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 104**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m**0**

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**0**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**4**

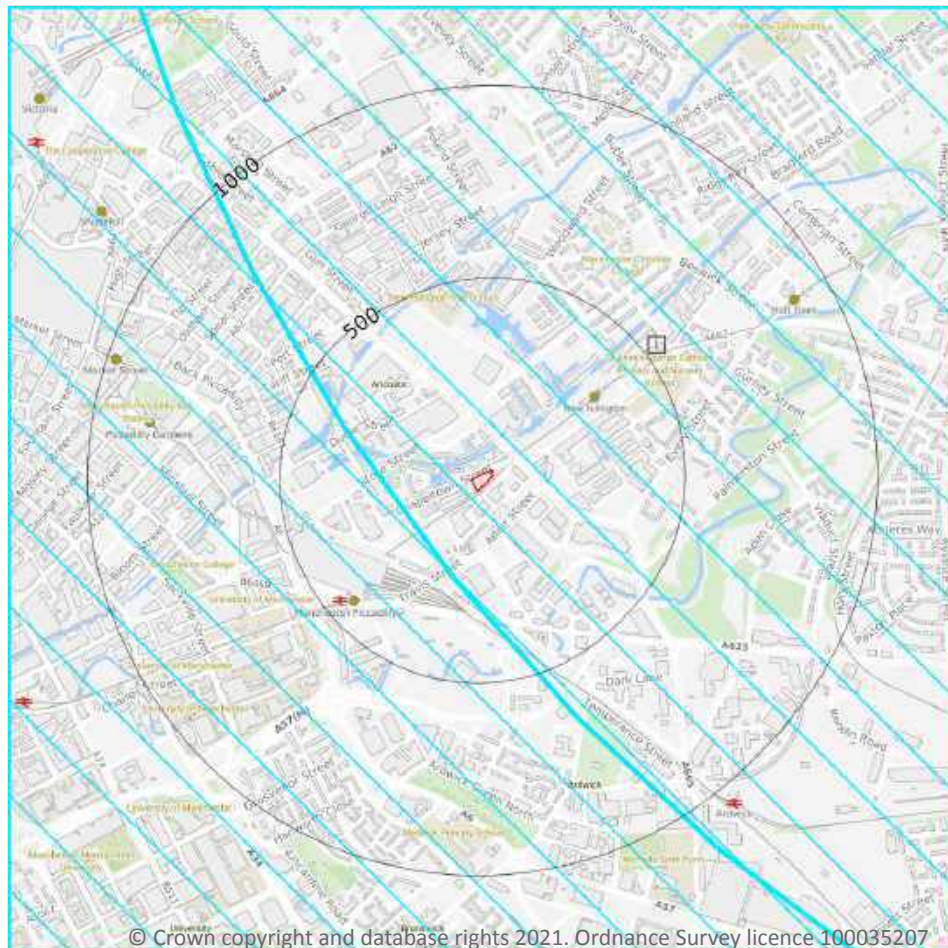
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
706m NE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
1223m N	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	Existing
1605m NW	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	S643	Existing
1885m N	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	S643	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 109**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 750m² & manure stores > 3500t) Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

7

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 111**

ID	Location	Name	Grade	Reference Number	Listed date
1	71m SW	Crusader Works, Piccadilly, Manchester, M1	II	1293172	06/06/1994
2	98m NE	Ashton Canal Lock Number 1 Immediately East Of Great Ancoats Street, Ancoats And Beswick, Manchester, M4	II	1197829	06/06/1994
A	174m NE	Ashton Canal Towpath Bridge Over Junction With Islington Branch Canal West Of Lock Number 2, Ancoats And Beswick, Manchester, M4	II	1197830	06/06/1994

ID	Location	Name	Grade	Reference Number	Listed date
A	186m NE	Ashton Canal Lock Keepers Cottage Beside Lock Number 2 At Islington Branch Junction Basin, Ancoats And Beswick, Manchester, M4	II	1279636	06/06/1994
3	189m W	Store Street Aqueduct, Piccadilly, Manchester, M1	II*	1270666	06/06/1994
4	213m NE	Ashton Canal Lock Number 2 Off South End Of Vesta Street, Ancoats And Beswick, Manchester, M4	II	1207654	06/06/1994
5	218m E	Cooperative Warehouse, Ancoats And Beswick, Manchester, M4	II	1247018	06/06/1994

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.



This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 115**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m**0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m**0**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m**0**

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m**0**

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m**0**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m**0**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

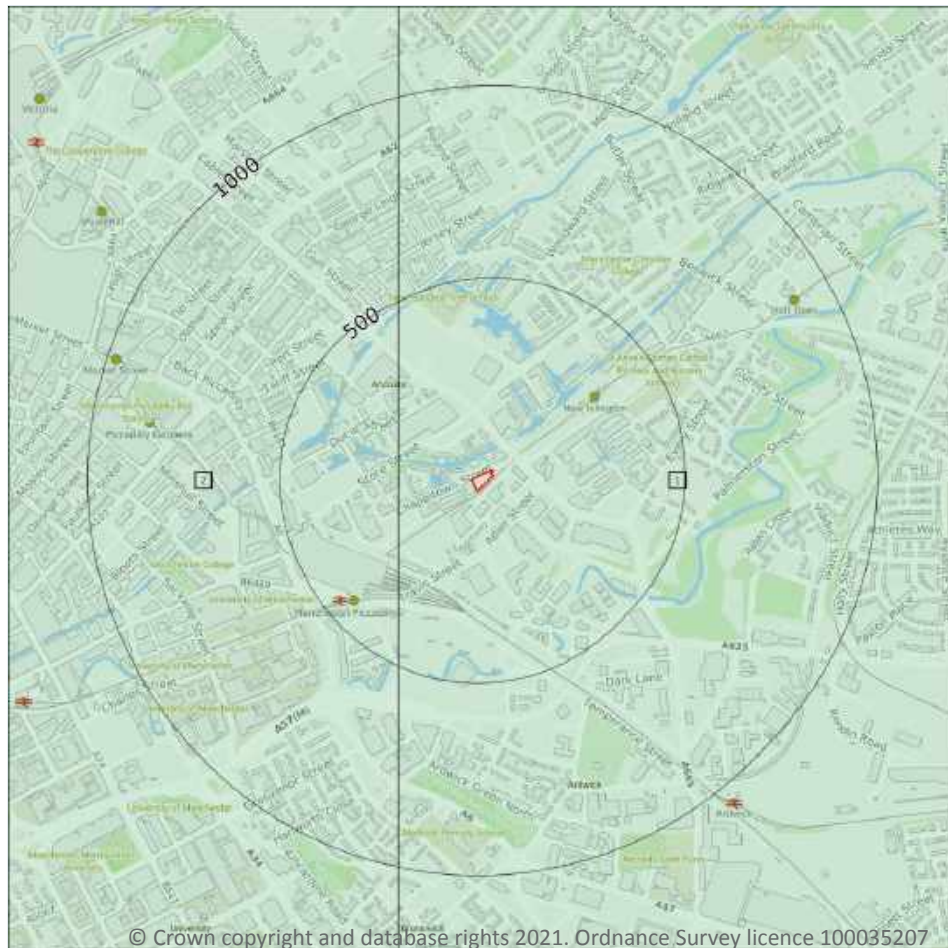
Records within 250m**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

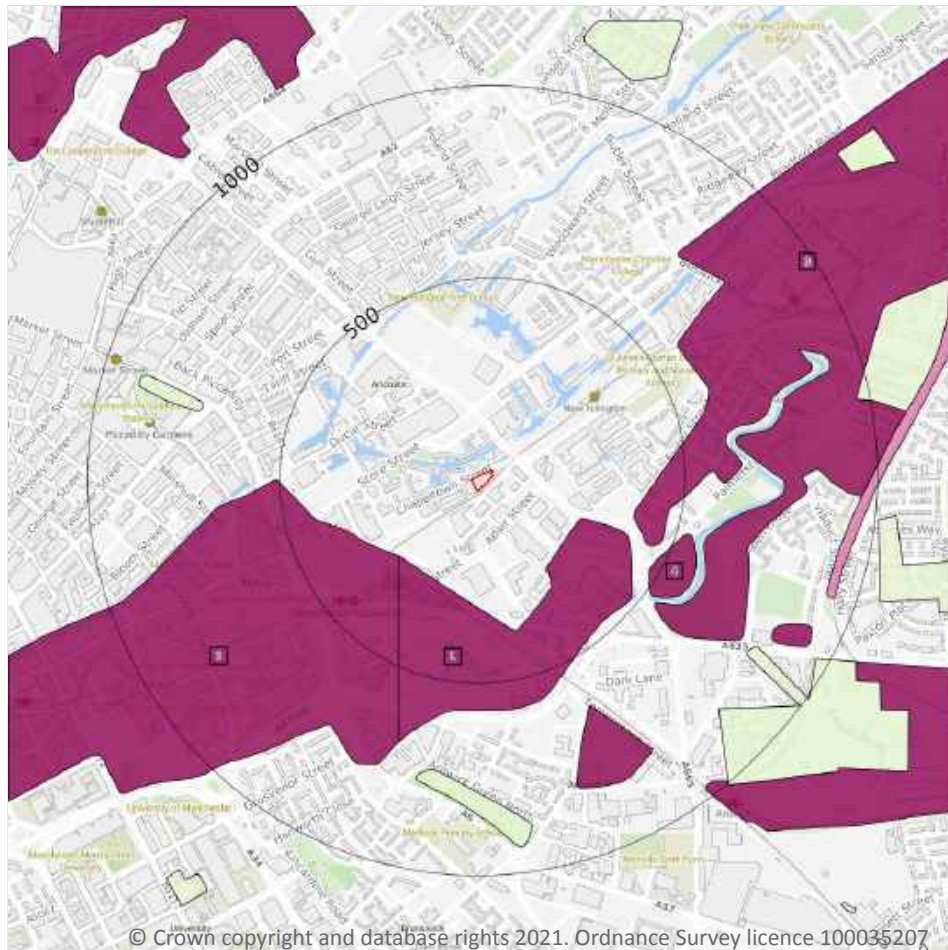
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 118**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SJ89NE
2	191m W	Full	Full	Full	No coverage	SJ89NW

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Reclaimed ground
 - Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

4

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 119**

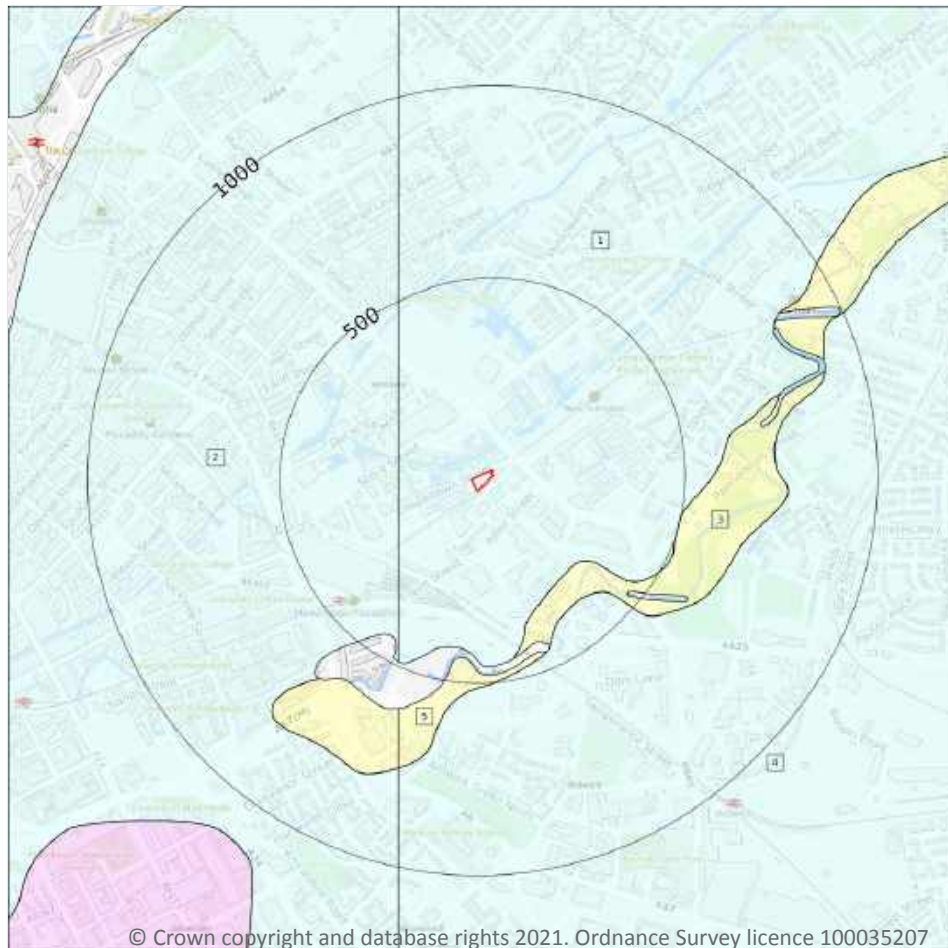
ID	Location	LEX Code	Description	Rock description
1	248m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	266m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	380m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	475m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit



This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline
Search buffers in metres (m)

▨ Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

5

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 121**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	191m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
3	311m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	385m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
5	435m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

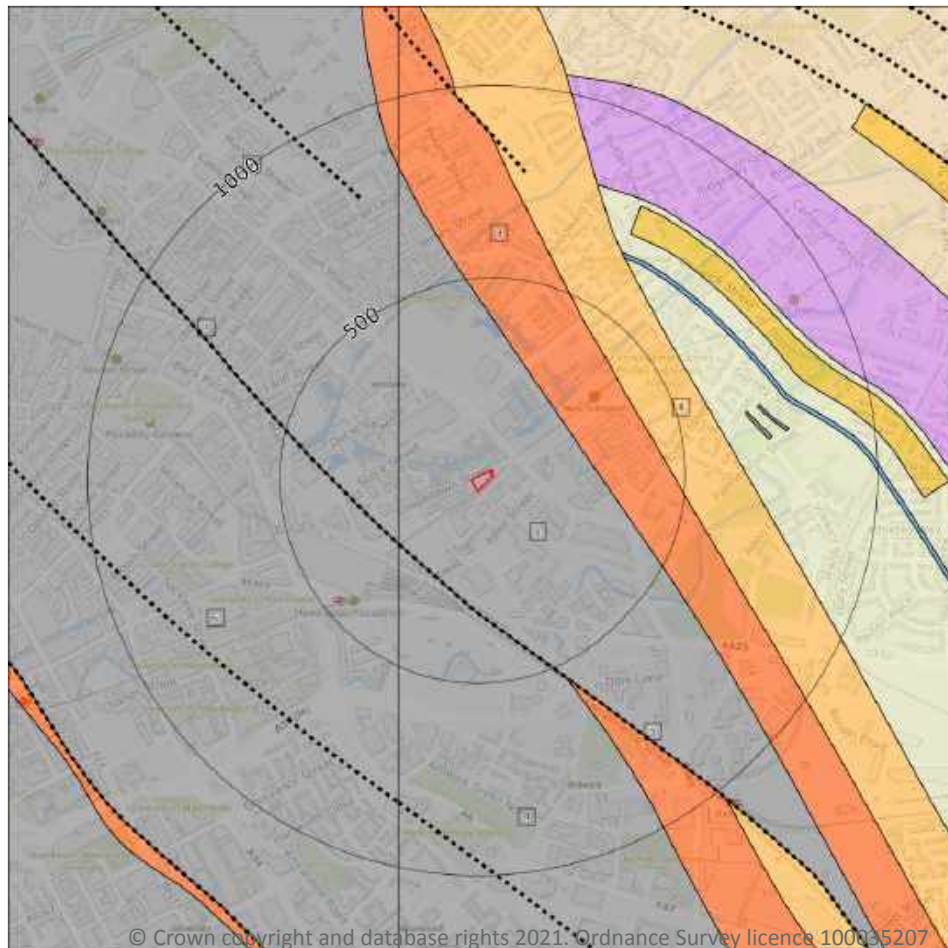
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

6

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 123**

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
2	191m W	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
3	222m NE	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]

ID	Location	LEX Code	Description	Rock age
4	240m SW	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
6	247m SW	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
8	399m NE	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian Epoch

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

2

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

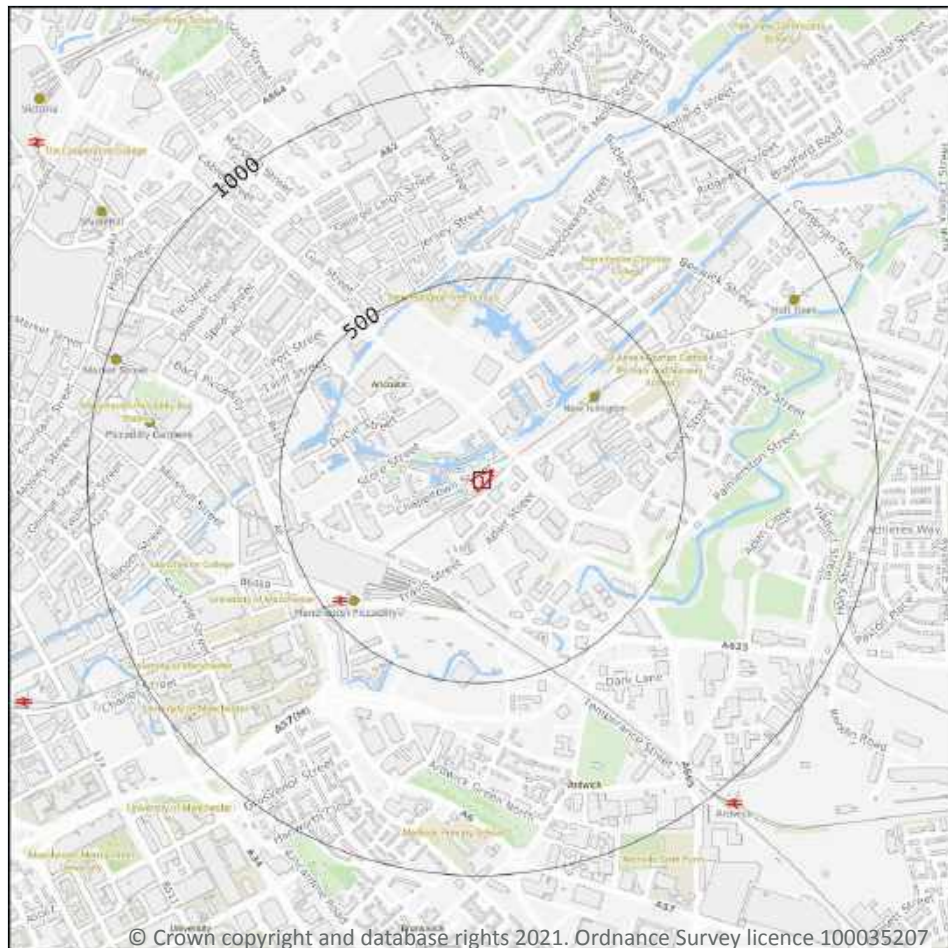
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 123**

ID	Location	Category	Description
5	240m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
7	247m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

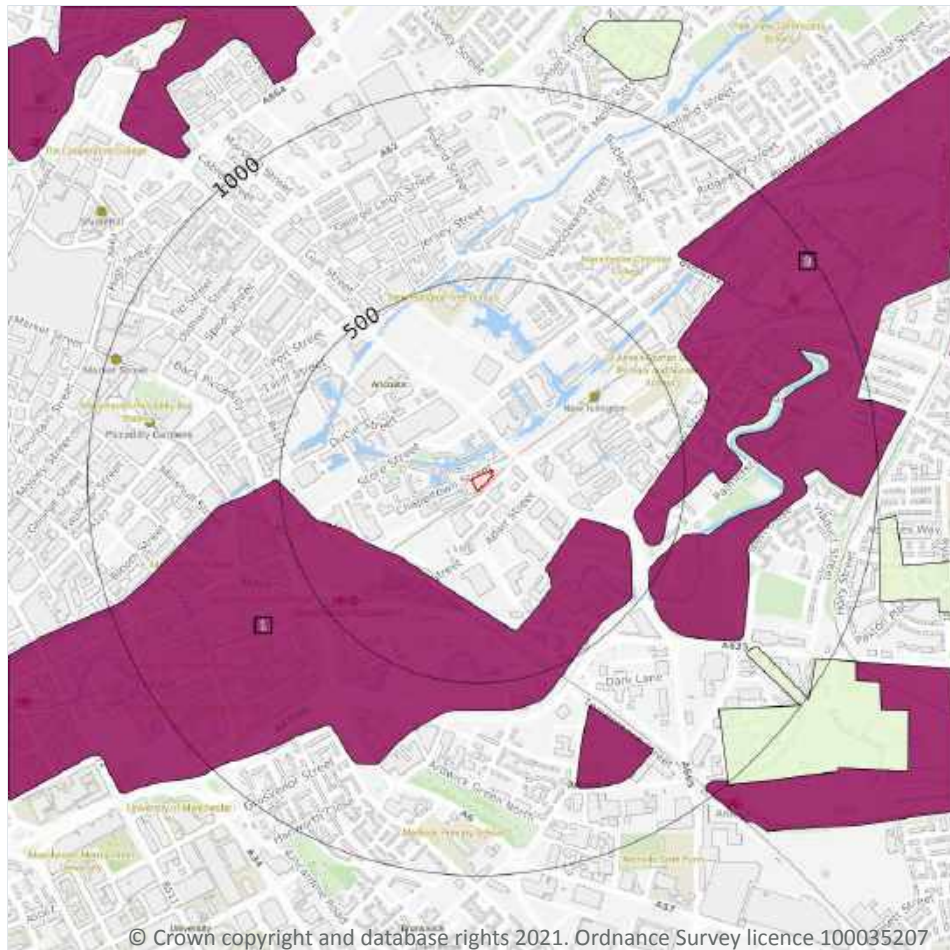
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 125**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Artificial and made ground



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

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15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 126**

ID	Location	LEX Code	Description	Rock description
1	248m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	380m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

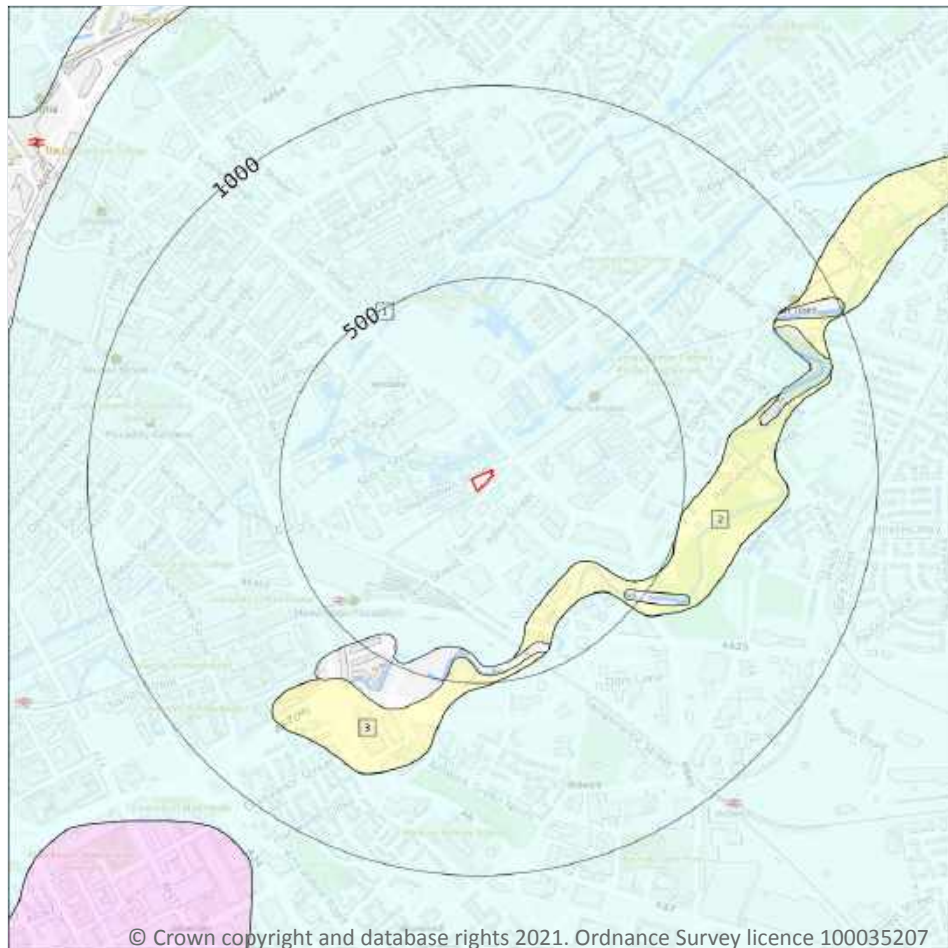
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

▣ Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 128**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	311m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	435m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

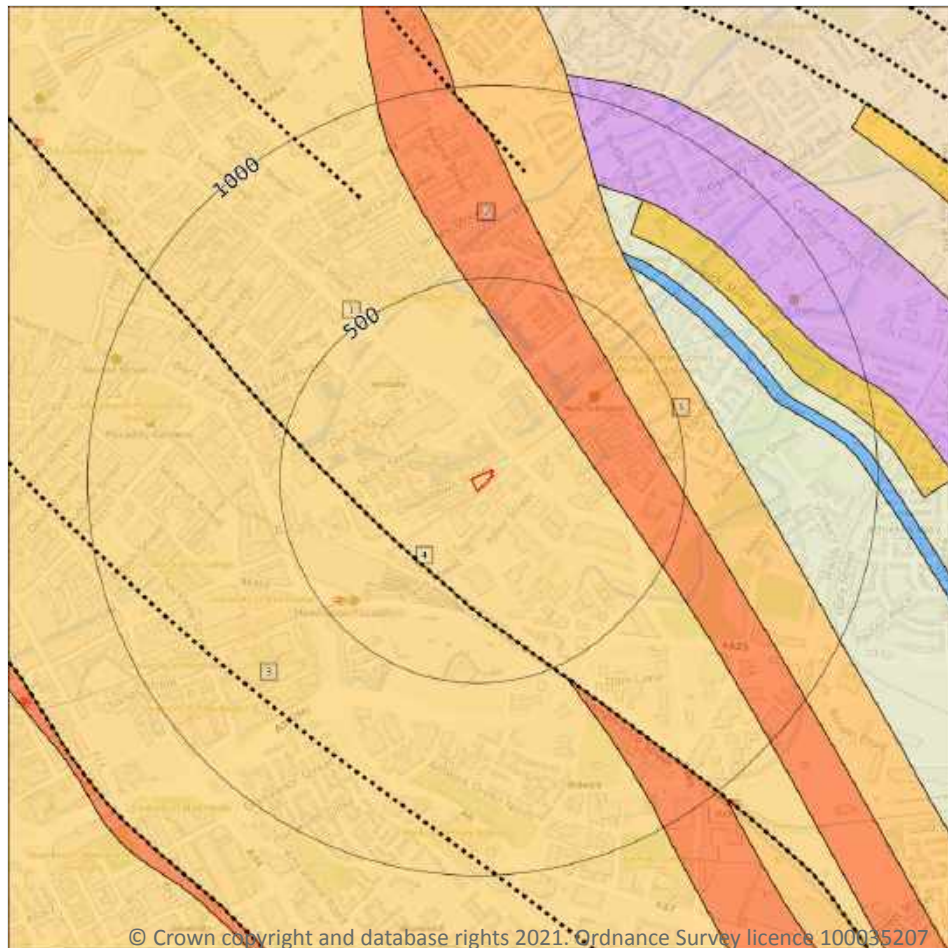
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

4

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 130**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
2	222m NE	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
3	239m SW	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
5	399m NE	CS-SDST	COLLYHURST SANDSTONE FORMATION - SANDSTONE	-



This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

1

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

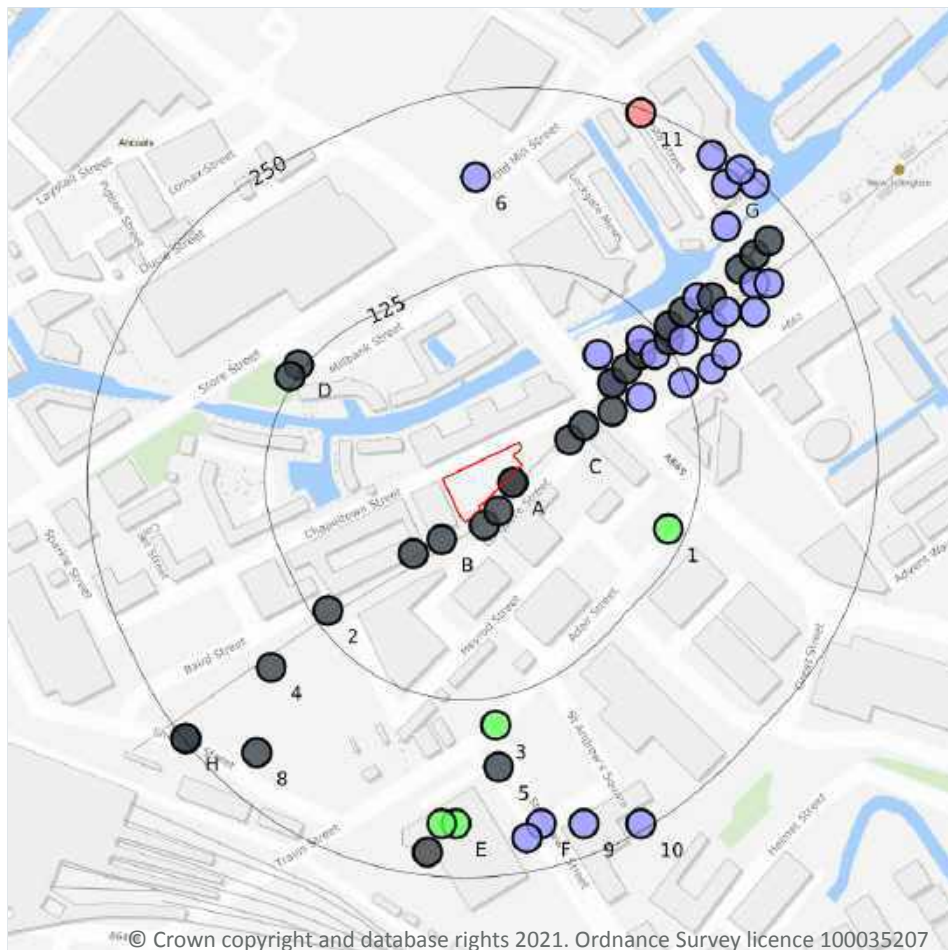
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 130**

ID	Location	Category	Description
4	239m SW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

60

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 132**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	4m SE	385240 398060	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B2	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	4m SE	385240 398060	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB3	-	Y	N/A
A	10m SE	385220 398030	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB2	-	Y	N/A
A	11m SE	385230 398040	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B1	-	Y	N/A
B	20m SW	385190 398020	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB1	-	Y	N/A
C	35m E	385280 398090	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB4	-	Y	N/A
B	42m SW	385170 398010	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TPA 4	-	Y	N/A
C	47m E	385290 398100	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB4A	-	Y	N/A
C	69m E	385310 398110	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB5	-	Y	N/A
C	78m NE	385310 398130	ASHTON CANAL CORRIDOR TP 2	2.0	N	15629934
C	78m NE	385310 398130	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B3	-	Y	N/A
C	83m NE	385300 398150	ASHTON CANAL CORRIDOR TP 1	2.9	N	15629933
C	91m E	385330 398120	ASHTON CANAL CORRIDOR TP 3	2.0	N	15629935
C	92m NE	385320 398140	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB6	-	Y	N/A
C	106m NE	385330 398150	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B4	-	Y	N/A
C	112m NE	385330 398160	ASHTON CANAL CORRIDOR TP 4	2.3	N	15629936
1	112m SE	385349 398027	MANCHESTER CORP. GREAT ANCOATS STREET	21.34	N	936435



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	114m NE	385340 398150	ASHTON CANAL CORRIDOR TP 5	3.1	N	15629937
2	114m SW	385110 397970	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHA2	-	Y	N/A
C	123m E	385360 398130	ASHTON CANAL CORRIDOR TP 6	2.3	N	15629938
C	128m NE	385350 398160	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB7	-	Y	N/A
D	130m NW	385089 398143	PICCADILLY VILLAGE MANCHESTER 100	-	Y	N/A
D	130m NW	385083 398135	PICCADILLY VILLAGE MANCHESTER 101	-	Y	N/A
C	134m NE	385350 398170	ASHTON CANAL CORRIDOR TP 7	1.7	N	15629939
C	134m NE	385350 398170	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B5	-	Y	N/A
C	136m NE	385360 398160	ASHTON CANAL CORRIDOR TP 8	2.0	N	15629940
3	145m S	385228 397889	MANCHESTER CORP. ST. ANDREW'S STREET	23.77	N	936434
C	145m E	385380 398140	ASHTON CANAL CORRIDOR TP 9	1.7	N	15629941
C	148m NE	385360 398180	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B6	-	Y	N/A
C	158m NE	385390 398150	ASHTON CANAL CORRIDOR TP 12	2.1	N	15629944
C	159m NE	385380 398170	ASHTON CANAL CORRIDOR TP 11	2.2	N	15629943
C	159m NE	385380 398170	ASHTON CANAL CORRIDOR TP 13	1.75	N	15629945
C	162m NE	385370 398190	ASHTON CANAL CORRIDOR TP 10	2.1	N	15629942
C	170m NE	385380 398190	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB8	-	Y	N/A
4	170m SW	385070 397930	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TPA 3	-	Y	N/A
C	172m NE	385390 398180	ASHTON CANAL CORRIDOR TP 14	2.0	N	15629946
5	174m S	385230 397860	MANCHESTER PARCELS OFFICE 11	-	Y	N/A
6	190m N	385214 398275	MANCHESTER CORP. MILL STREET	9.45	N	936488
C	190m NE	385410 398180	ASHTON CANAL CORRIDOR TP 17	2.6	N	15629949



ID	Location	Grid reference	Name	Length	Confidential	Web link
C	198m NE	385400 398210	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B7	-	Y	N/A
C	200m NE	385410 398200	ASHTON CANAL CORRIDOR TP 15	3.1	N	15629947
C	208m NE	385420 398200	ASHTON CANAL CORRIDOR TP 16	2.8	N	15629948
7	211m NE	385390 398240	INNER RING ROAD SECTION 2 PHASE 1 MANCHESTER 6	8.2	N	937114
C	212m NE	385410 398220	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHB9	-	Y	N/A
E	212m S	385200 397820	MANCHESTER PARCELS OFFICE 2	11.43	N	936996
E	213m S	385190 397820	MANCHESTER PARCELS OFFICE	11.43	N	937340
8	219m SW	385060 397870	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TPA2	-	Y	N/A
F	219m S	385260 397820	MANCHESTER PARCELS OFFICE 3	9.14	N	936997
C	226m NE	385420 398230	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM TP B8	-	Y	N/A
F	226m S	385250 397810	MANCHESTER PARCELS OFFICE	9.14	N	937341
9	228m S	385290 397820	MANCHESTER PARCELS OFFICE	6.4	N	937344
G	233m NE	385390 398270	ANCOATS HOSPITAL SITE ANCOATS MANCHESTER TP1	3.0	N	17722632
E	234m S	385180 397800	MANCHESTER PARCELS OFFICE 10	-	Y	N/A
G	243m NE	385380 398290	ANCOATS HOSPITAL SITE ANCOATS MANCHESTER TP2	3.0	N	17722635
10	245m SE	385330 397820	MANCHESTER PARCELS OFFICE 6	6.4	N	937000
G	246m NE	385410 398270	INNER RING ROAD SECTION 2 PHASE 1 MANCHESTER 5	8.1	N	937113
G	247m NE	385400 398280	ANCOATS HOSPITAL SITE ANCOATS MANCHESTER TP3	4.0	N	17722636
11	247m N	385330 398320	INNER RING ROAD SECTION 2 PHASE 1 MANCHESTER 7/7A	34.15	N	937115
H	248m SW	385010 397880	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHA1	-	Y	N/A

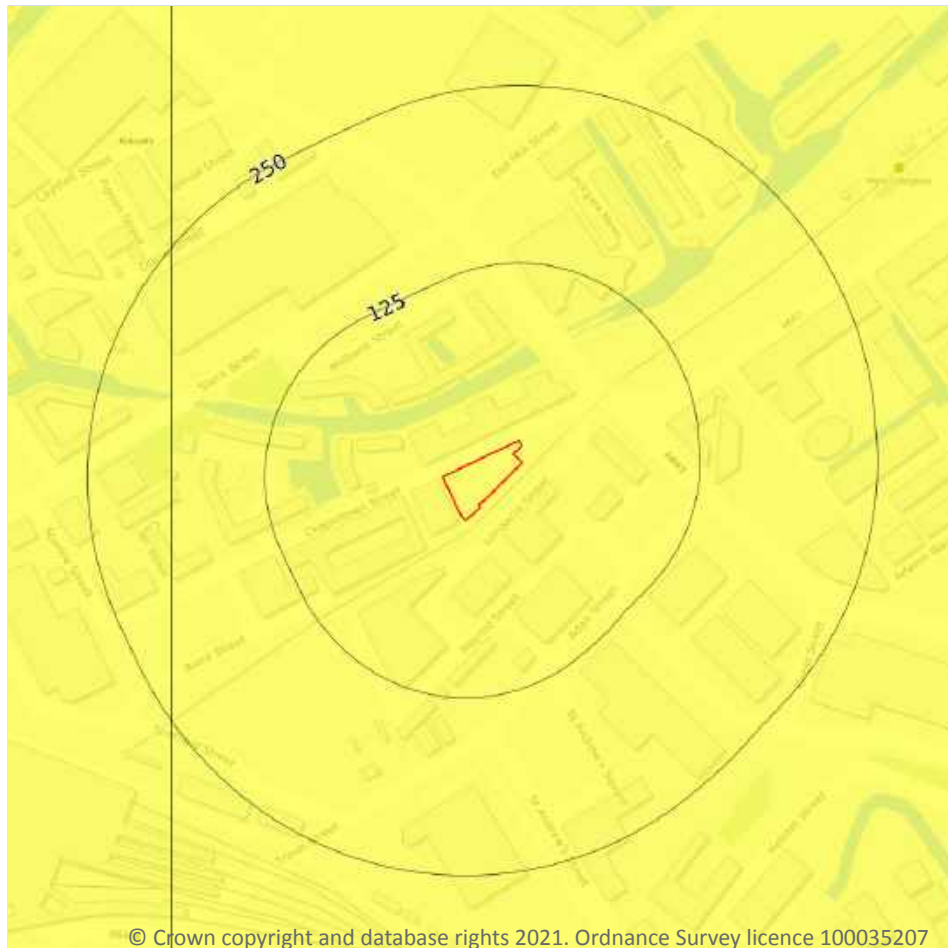


ID	Location	Grid reference	Name	Length	Confidential	Web link
H	248m SW	385010 397880	MANCHESTER METRO PHASE 3 EXTENSION TO COMMONWEALTH WEALTH GAMES STADIUM BHA1A	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

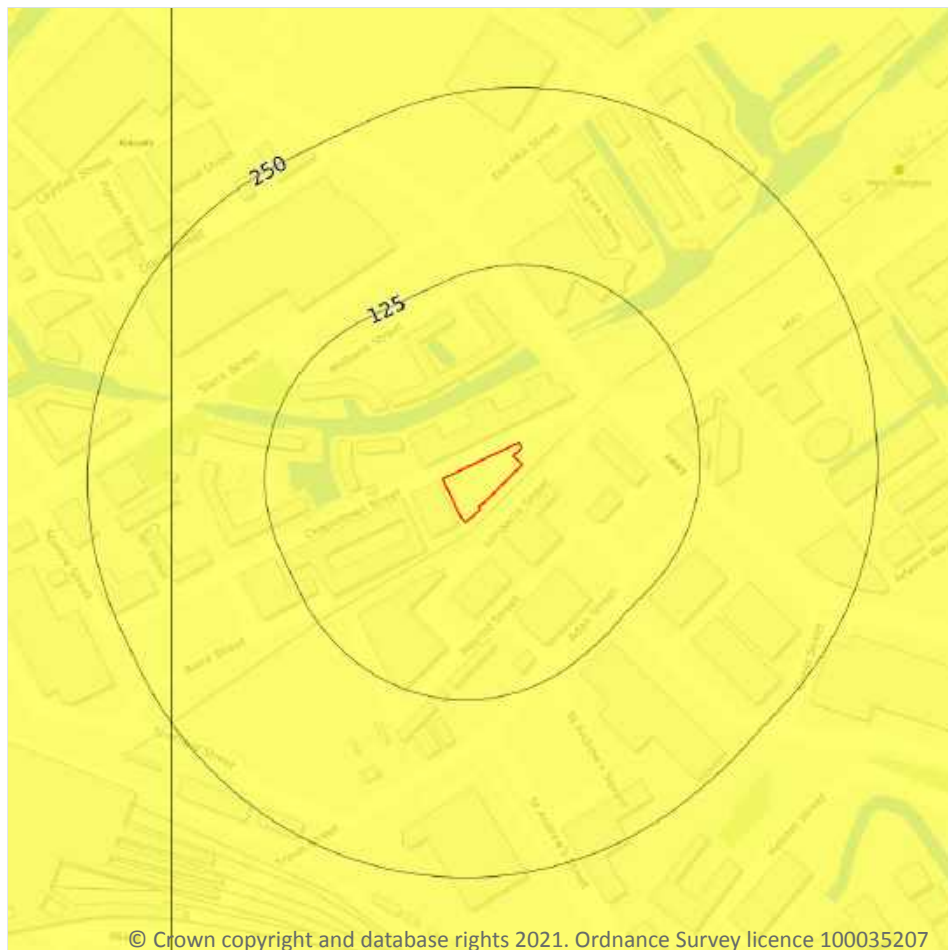
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 137**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

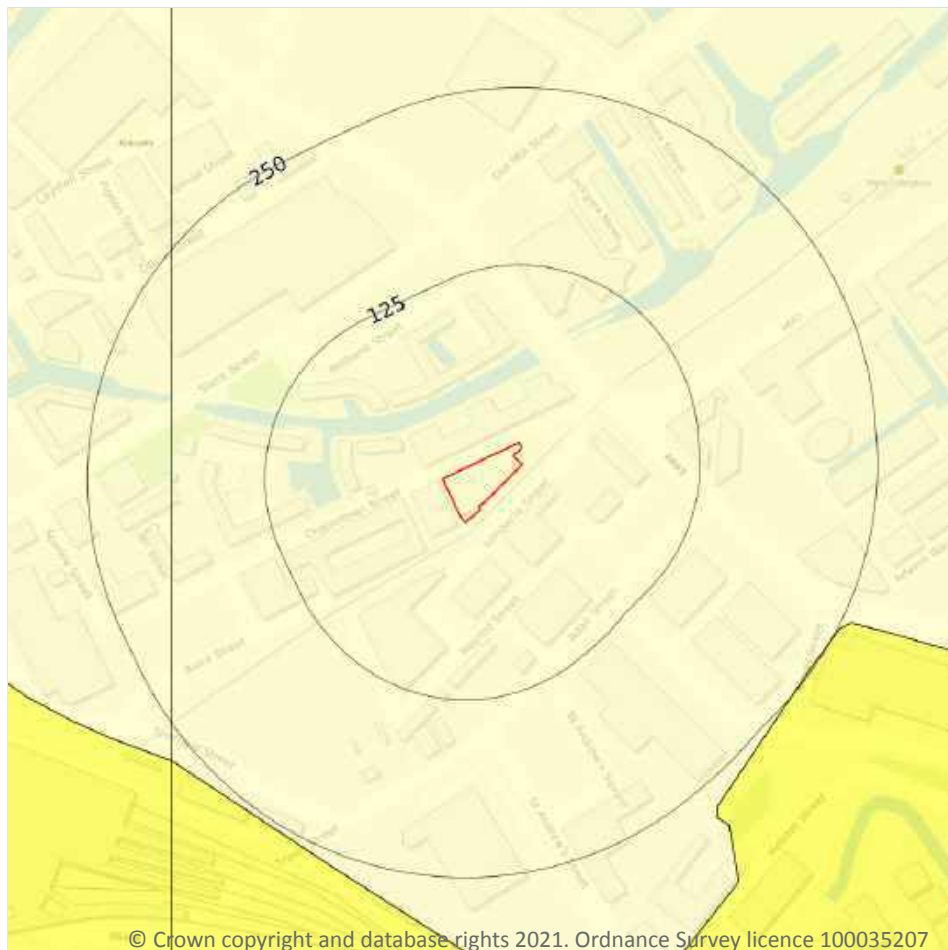
Features are displayed on the Natural ground subsidence - Running sands map on **page 138**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

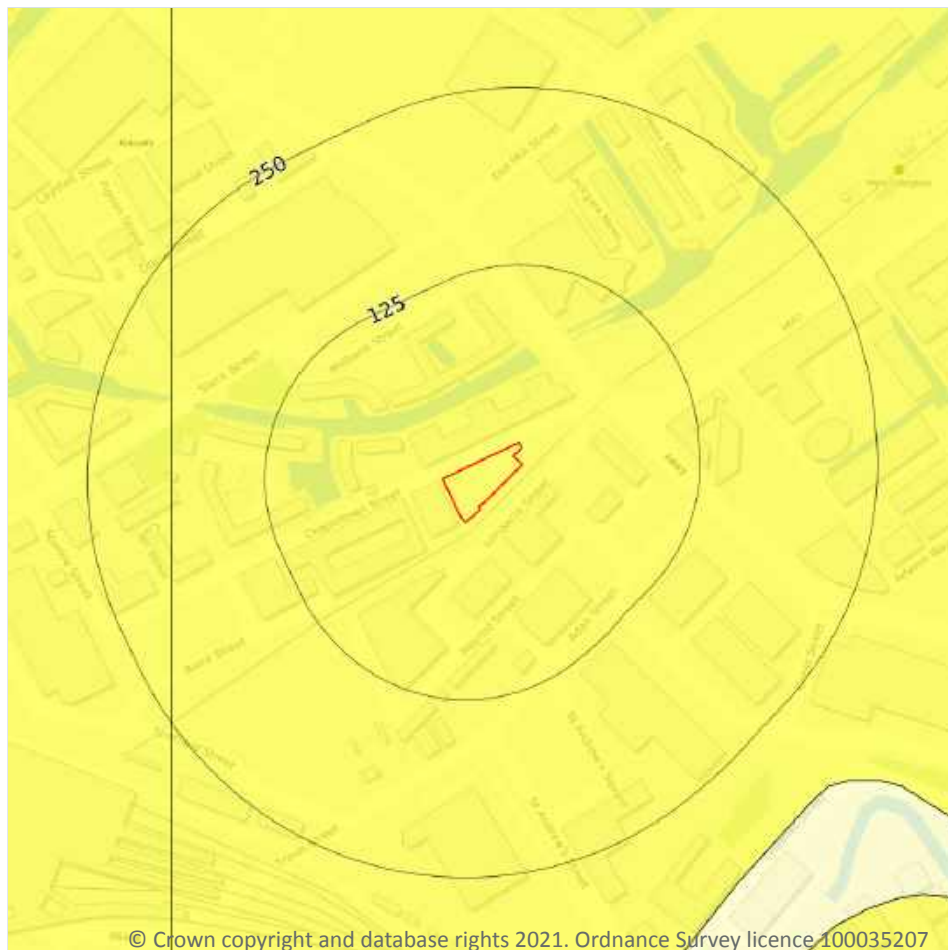
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 139**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

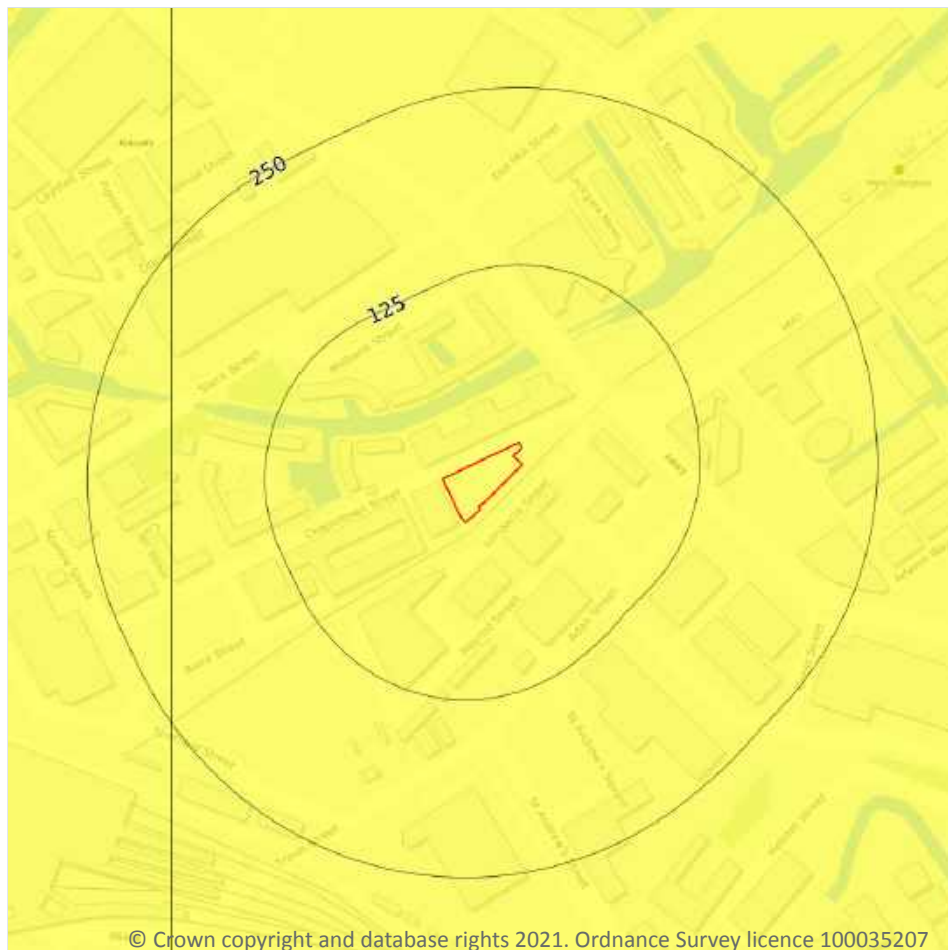
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 140**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

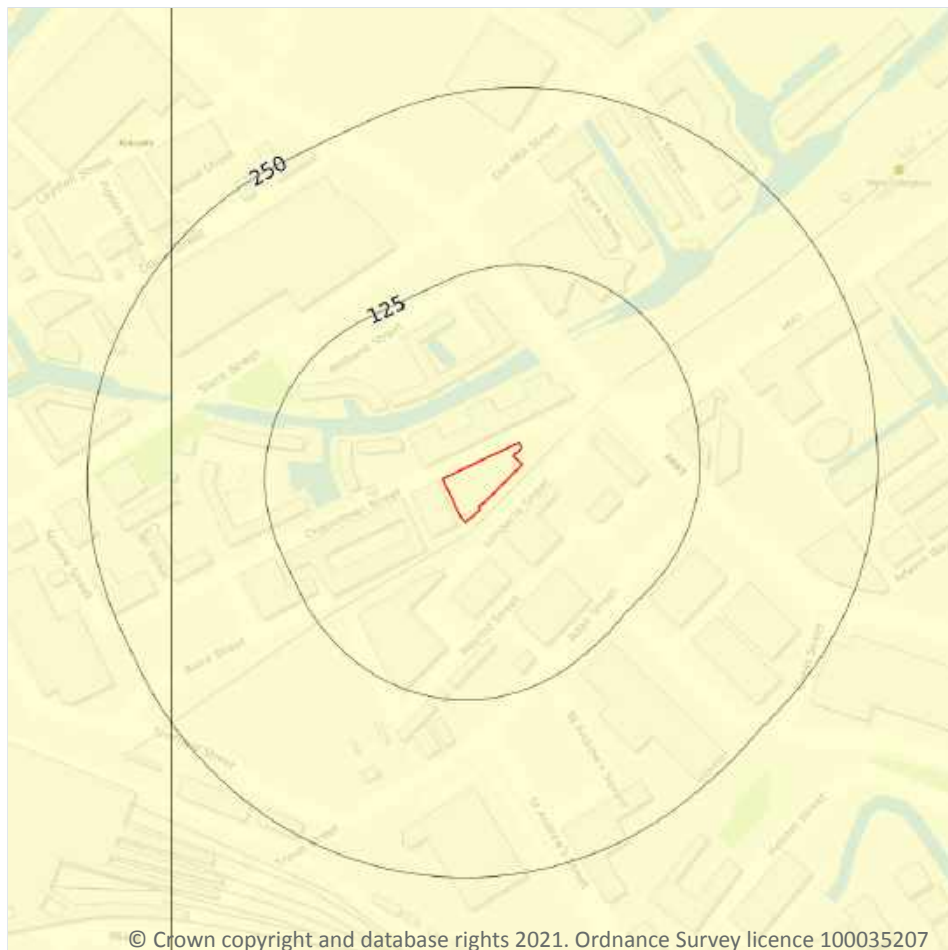
Features are displayed on the Natural ground subsidence - Landslides map on **page 141**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 142**

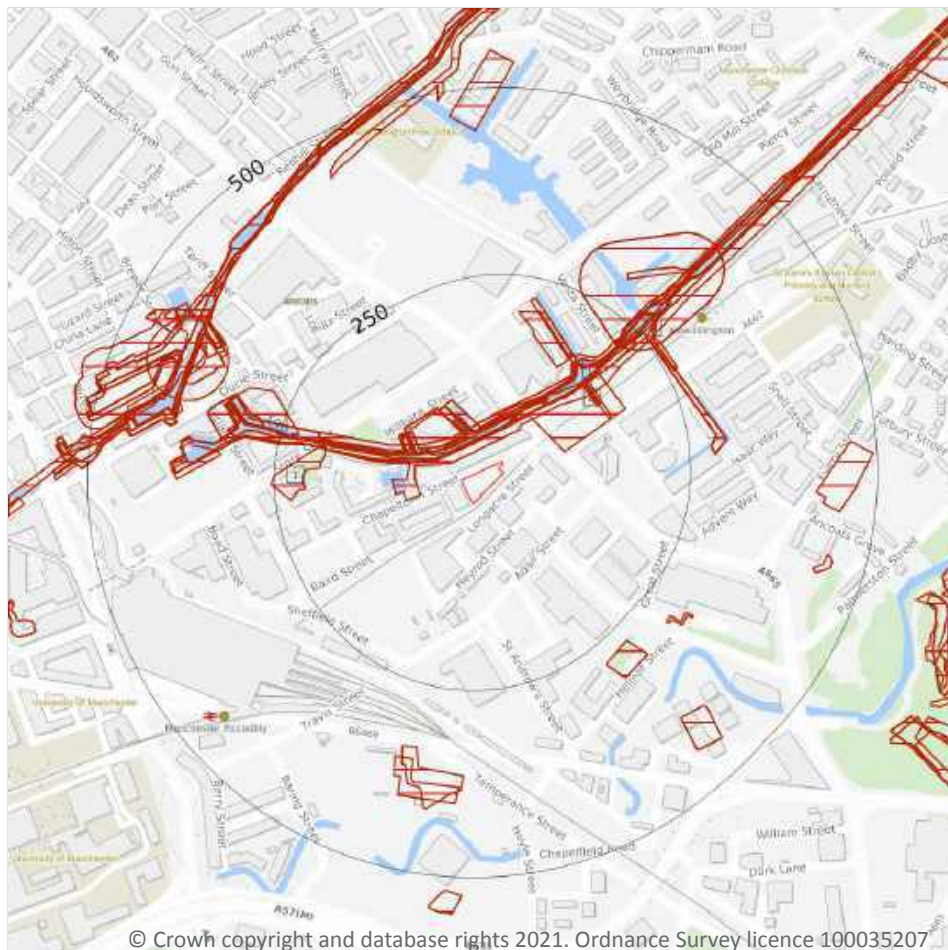
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

26

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**

ID	Location	Land Use	Year of mapping	Mapping scale
A	27m NW	Canal	1991	1:10000
B	38m NW	Canal	1923	1:10560
C	39m NW	Water Body	1905	1:10560
A	41m NW	Canal	1968	1:10560
A	41m NW	Canal	1956	1:10560
C	41m NW	Canal	1938	1:10560
C	41m NW	Canal	1934	1:10560
C	41m NW	Canal	1915	1:10560
C	41m NW	Water Body	1890	1:10560
A	46m NW	Canal	1985	1:10000
A	46m NW	Canal	1978	1:10000
C	46m NW	Unspecified Wharves	1923	1:10560
C	48m NW	Unspecified Wharves	1938	1:10560
C	48m NW	Unspecified Wharves	1934	1:10560
C	48m NW	Unspecified Wharves	1915	1:10560
B	146m NE	Unspecified Wharf	1915	1:10560
B	164m NE	Unspecified Wharf	1923	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
1	186m W	Unspecified Ground Workings	1851	1:10560
D	196m W	Canal	1971	1:10000
D	196m W	Canal	1988	1:10000
D	196m W	Canal	1978	1:10000
D	196m W	Canal	1985	1:10000
D	196m W	Canal	1994	1:10000
A	221m NE	Unspecified Wharf	1921	1:10560
A	221m NE	Unspecified Wharf	1906	1:10560
D	226m W	Unspecified Wharf	1923	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

2

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**



ID	Location	Name	Commodity	Class	Likelihood
-	653m E	Ardwick	Limestone - Ardwick	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
13	741m N	Not available	Vein Mineral	A	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Mining, ground workings and natural cavities map on **page 144**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	981m S	Manchester, Greater Manchester	Firestone, Freestone, Hearthstone , Honestone, Ragstone, Sandstone, Scythestone , Silver Sand, Whetstone	'Underground Manchester - Secrets of the city revealed'	Willow Publishing

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

1

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.



Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

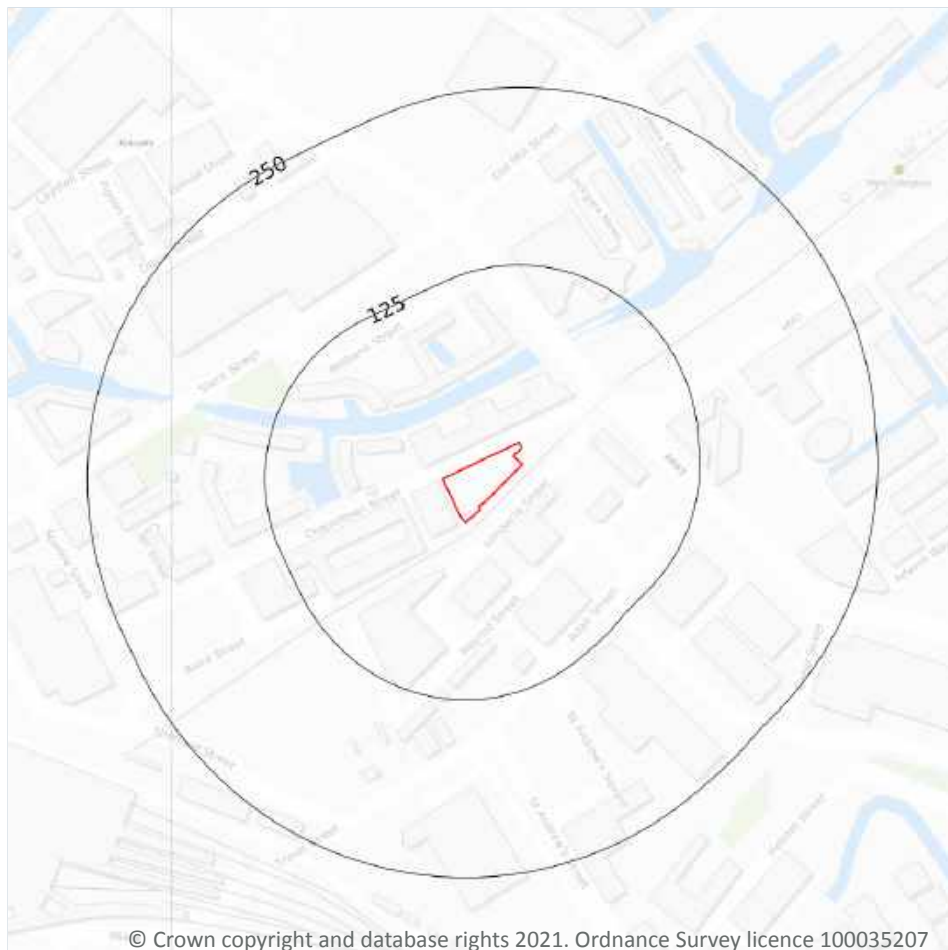
18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 150**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
32m S	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

6

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	27	4.7	46	32	0.3	87	26	30	4
On site	30	5.3	50	34	0.3	89	28	33	6
12m N	32	5.6	84	58	0.9	93	24	37	3
30m NW	29	5.1	45	31	0.3	90	26	33	4
32m S	25	4.4	49	34	0.3	81	27	27	5
33m SW	25	4.4	46	32	0.3	82	25	26	4



This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

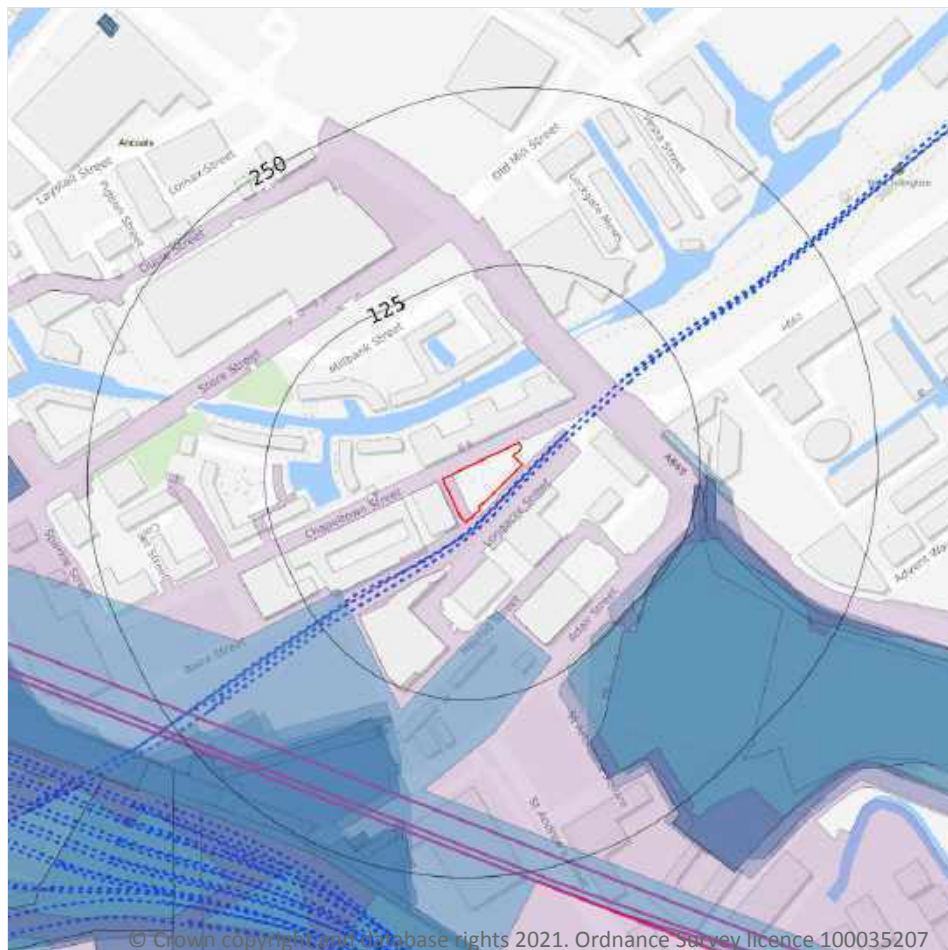
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

61

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Land Use	Year of mapping	Mapping scale
99m E	Railway Sidings	1891	500
113m SE	Railway	1893	-
119m SE	Railway Sidings	1968	10560
120m SE	Railways	1893	-
120m SE	Railways	1922	-
122m SE	Railway Sidings	1934	10560
122m SE	Railway Sidings	1938	10560
122m SE	Railway Sidings	1915	10560
122m SE	Railway Sidings	1905	10560
122m SE	Railway Sidings	1923	10560
123m SE	Railway	1932	-
123m SE	Railway	1916	-
124m SE	Railway Sidings	1908	2500
124m SE	Railway Sidings	1922	2500
124m SE	Railway Sidings	1932	2500
126m SE	Railway Sidings	1890	10560
129m SE	Railway Sidings	1968	2500



Location	Land Use	Year of mapping	Mapping scale
129m SE	Railway Sidings	1965	2500
129m SE	Railway Sidings	1963	1250
129m E	Railway Sidings	1955	1250
129m E	Railway Sidings	1948	1250
130m E	Railway Sidings	1967	2500
130m E	Railway Sidings	1965	2500
130m E	Railway Sidings	1951	2500
130m E	Railway Sidings	1948	2500
130m E	Railway Sidings	1889	2500
131m E	Railway Sidings	1956	10560
133m SE	Railway Sidings	1891	500
136m SE	Railway Sidings	1891	500
138m SW	Railway	1889	-
147m S	Railway Sidings	1948	2500
147m S	Railway Sidings	1948	1250
151m SW	Railway Sidings	1923	10560
154m SE	Railway Sidings	1908	2500
154m SE	Railway Sidings	1922	2500
154m SW	Railway Sidings	1938	10560
154m SW	Railway Sidings	1934	10560
154m S	Railway Sidings	1889	2500
156m S	Railway Sidings	1932	2500
156m SW	Railway Sidings	1891	500
157m S	Railway Sidings	1908	2500
157m S	Railway Sidings	1922	2500
157m SE	Railway Sidings	1948	2500
158m SW	Railway Sidings	1915	10560
161m S	Railway Sidings	1905	10560



Location	Land Use	Year of mapping	Mapping scale
161m S	Railway Sidings	1890	10560
182m SE	Railway Sidings	1891	500
216m SE	Railway Sidings	1948	1250
219m S	Railway Sidings	1891	500
224m SE	Railway Sidings	1948	1250
228m SE	Railway Sidings	1948	1250
228m S	Railway Sidings	1963	1250
228m S	Railway Sidings	1965	2500
231m SE	Railway Sidings	1948	1250
236m SW	Railway Sidings	1968	10560
238m SW	Railway Sidings	1956	10560
241m SE	Railway Sidings	1963	1250
241m SE	Railway Sidings	1908	2500
241m SE	Railway Sidings	1922	2500
241m SE	Railway Sidings	1891	500
242m SW	Railway Sidings	1851	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m**0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m**13**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Name	Type
5m SE		light_rail
6m SE	Not given	Multi Track
9m SE		light_rail
32m E		light_rail
34m E		light_rail
89m NE		light_rail
89m NE	Not given	Multi Track
89m NE		light_rail
115m SW		light_rail
196m SW		light_rail
196m SW		light_rail
205m NE		light_rail
205m NE		light_rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

4

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Track Type	Speed (mph)	Speed (km/h)	Status
196m S	Bridge/Viaduct	50mph	80kph	Current preferred consultation route
213m S	Bridge/Viaduct	50mph	80kph	Current preferred consultation route
218m S	Bridge/Viaduct	50mph	80kph	Current preferred consultation route
268m S	Bridge/Viaduct	50mph	80kph	Current preferred consultation route

This data is sourced from HS2 Ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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Site Details:

CHAPELTOWN STREET,
MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: 1056 Scale Town Plan

Map date: 1851

Scale: 1:1,056

Printed at: 1:1,056



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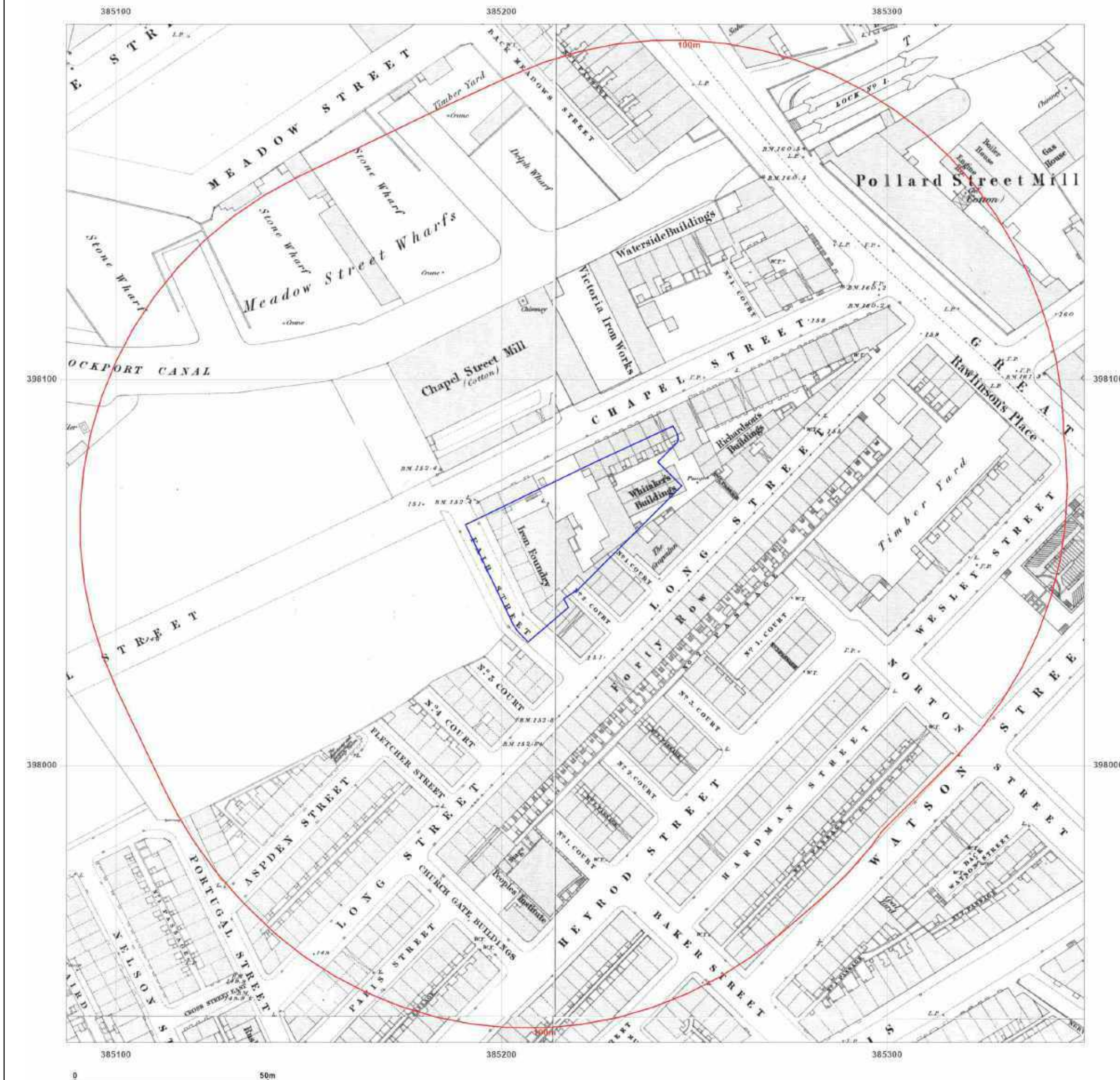


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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series Town Plan

Map date: 1891

Scale: 1:500

Printed at: 1:1,000



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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1889-1893

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1889
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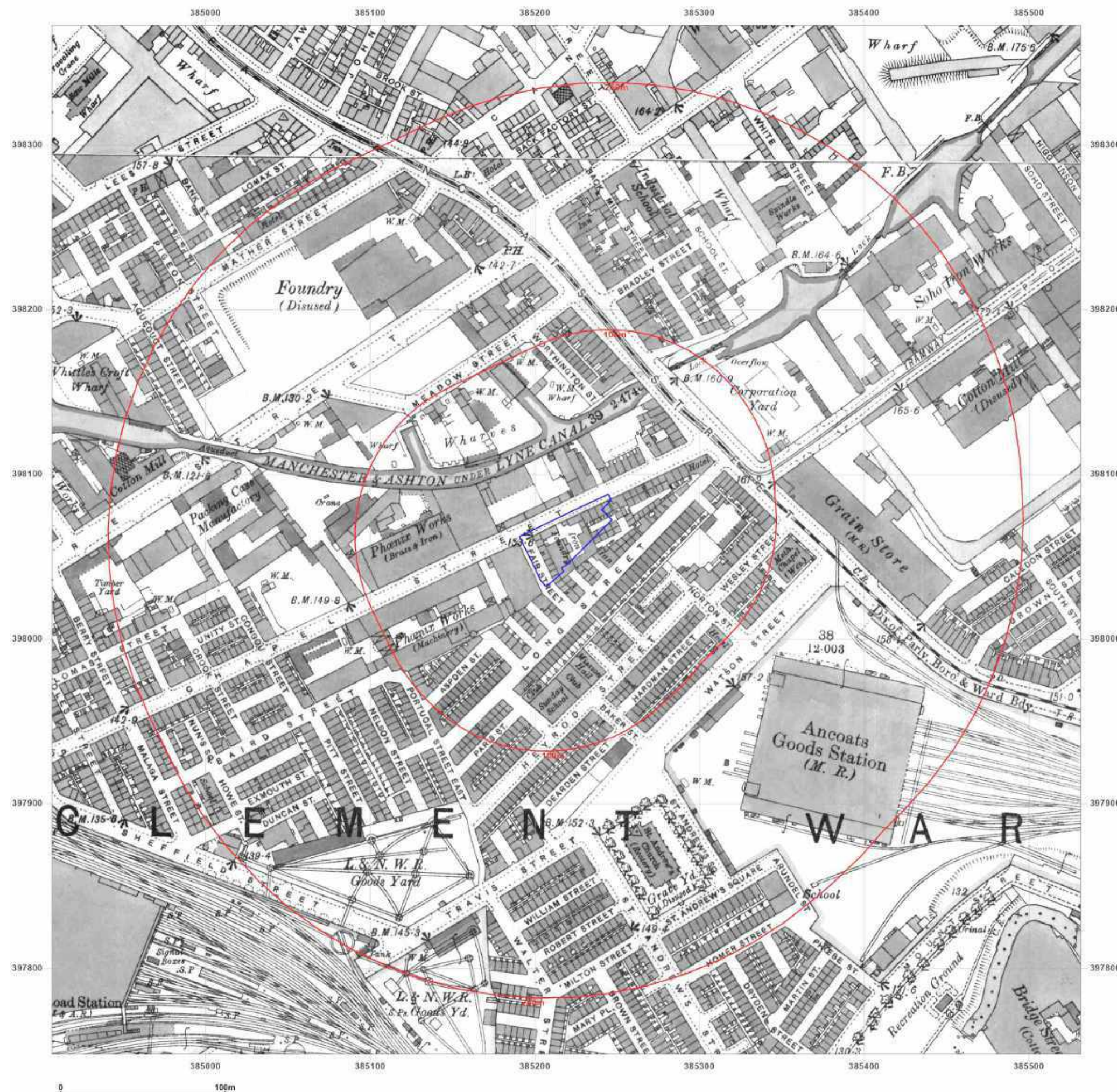


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1908

Scale: 1:2,500

Printed at: 1:2,500



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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1922
Revised 1916
Edition 1922
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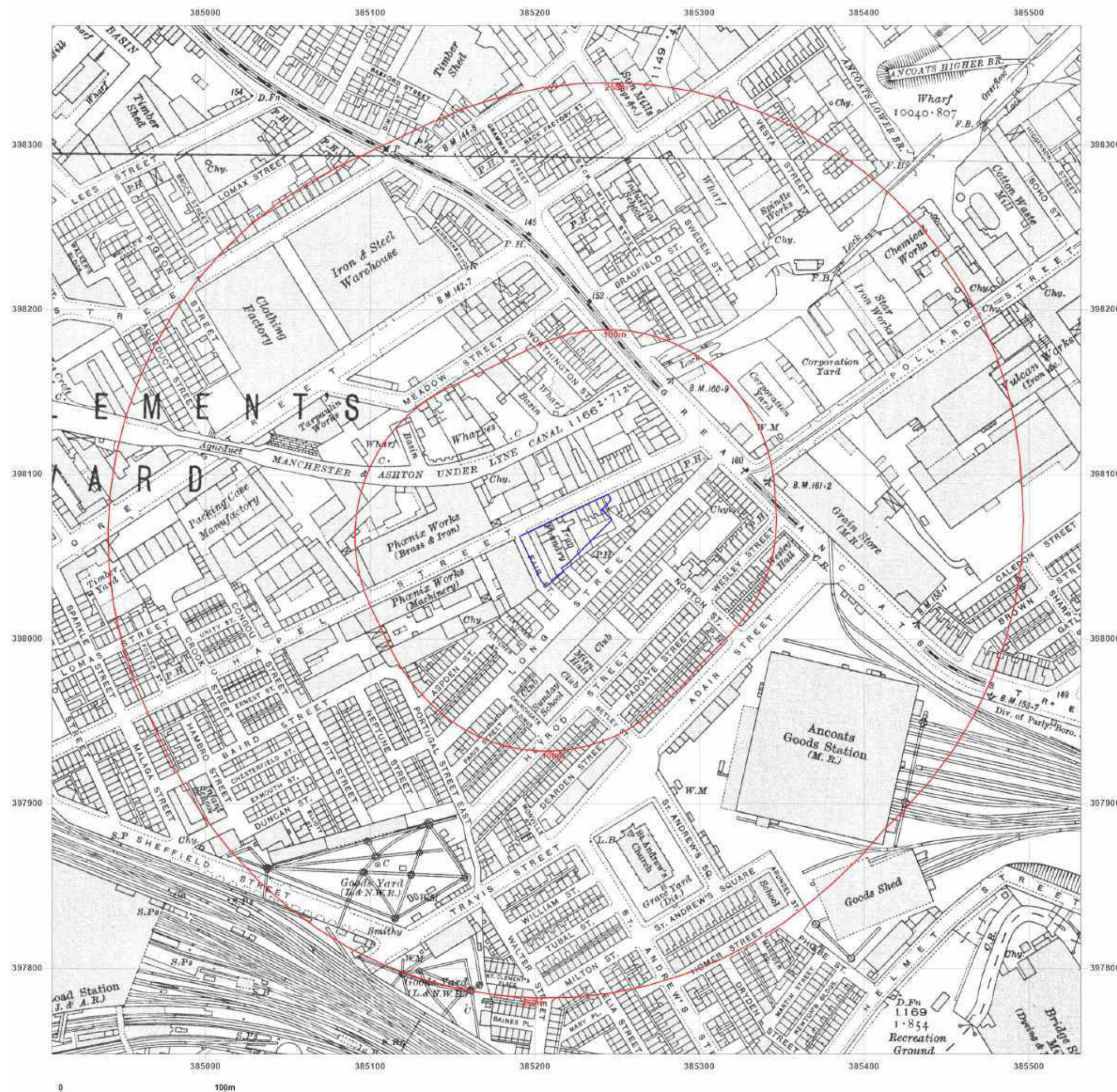


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1931-1932

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1873
Revised 1932
Edition N/A
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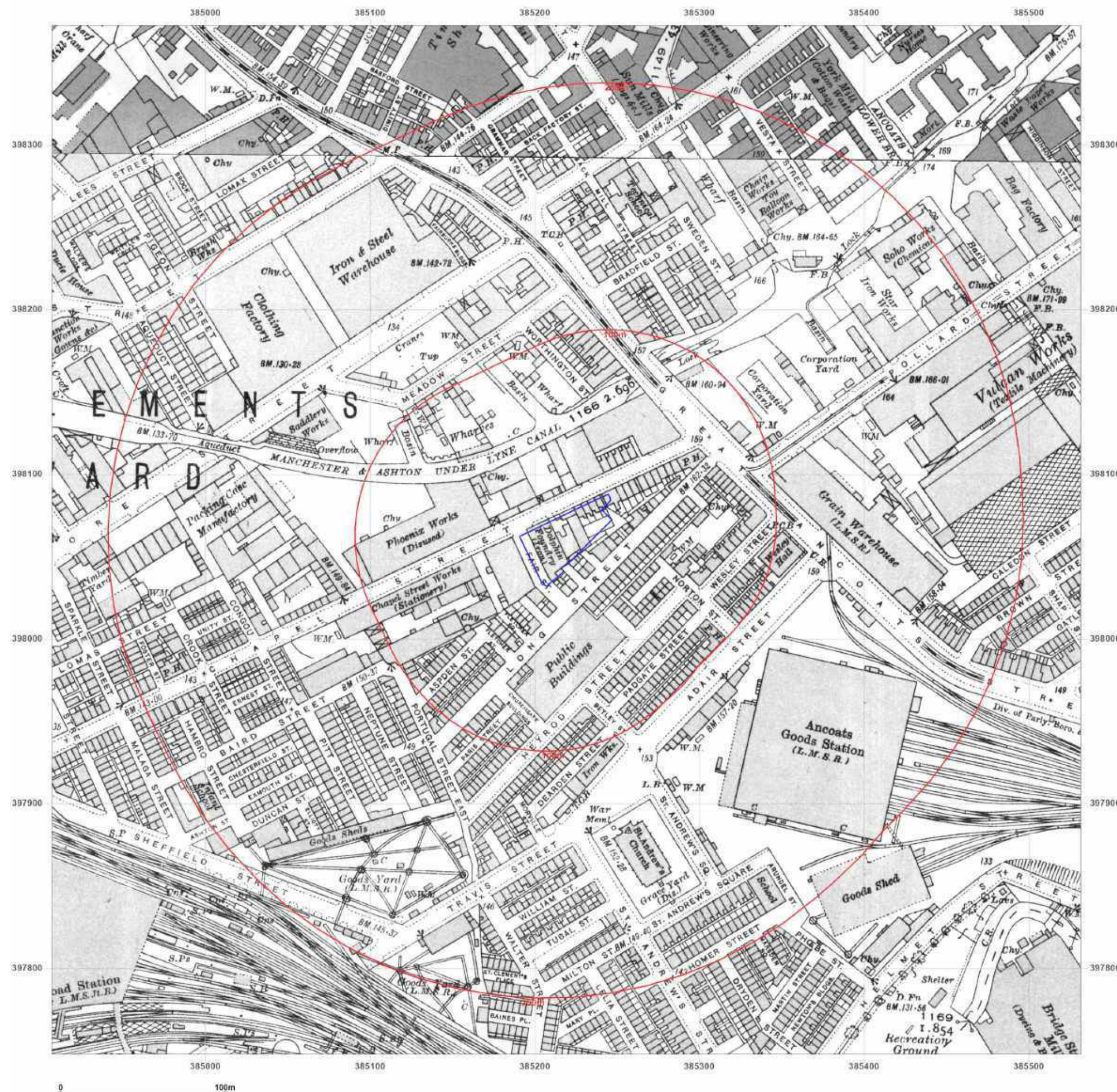


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1948

Scale: 1:1,250

Printed at: 1:2,000



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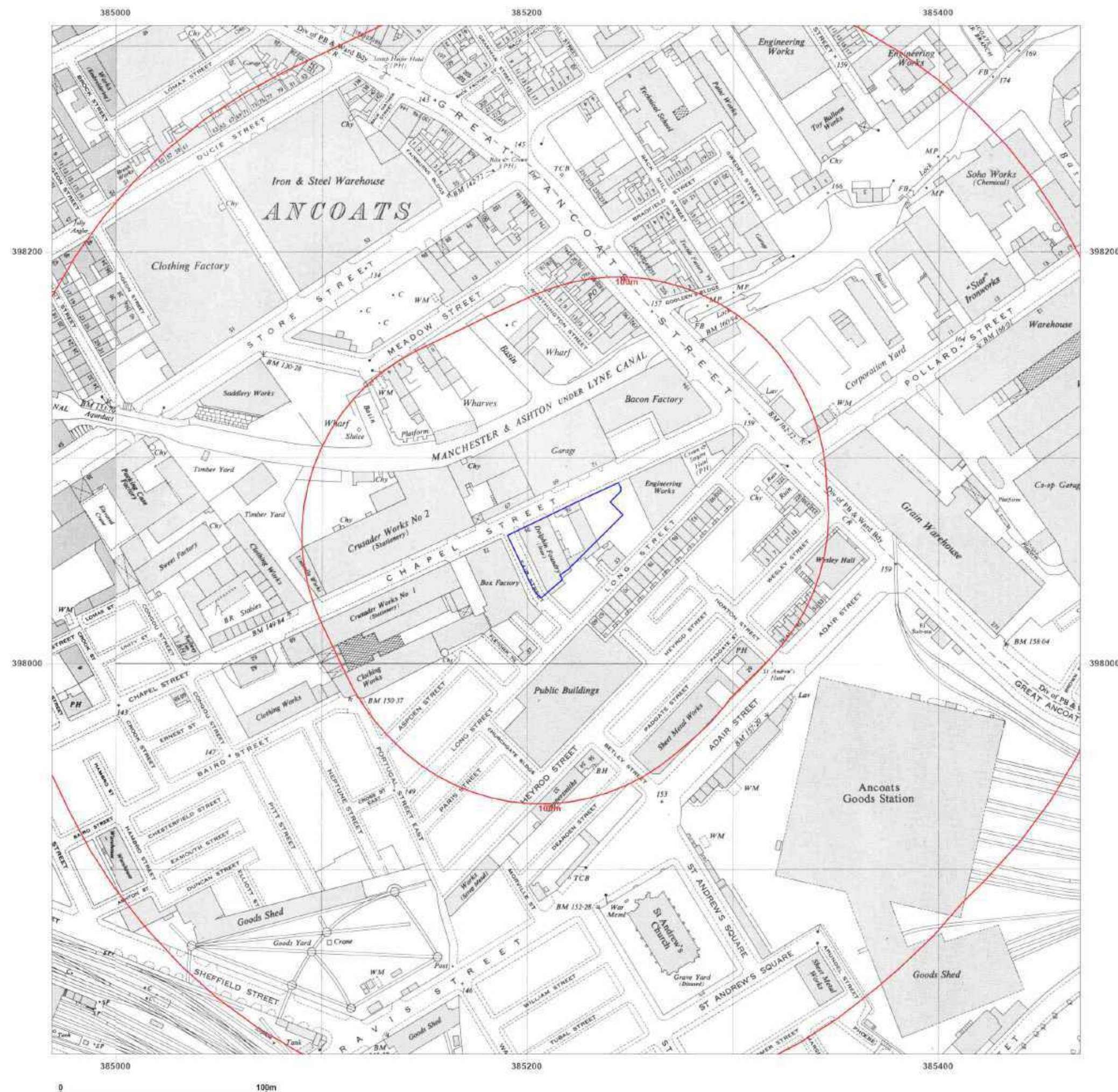


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1948-1953

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1948
Edition N/A
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Surveyed 1948
Revised 1948
Edition N/A
Copyright 1950
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Revised 1948
Edition N/A
Copyright 1949
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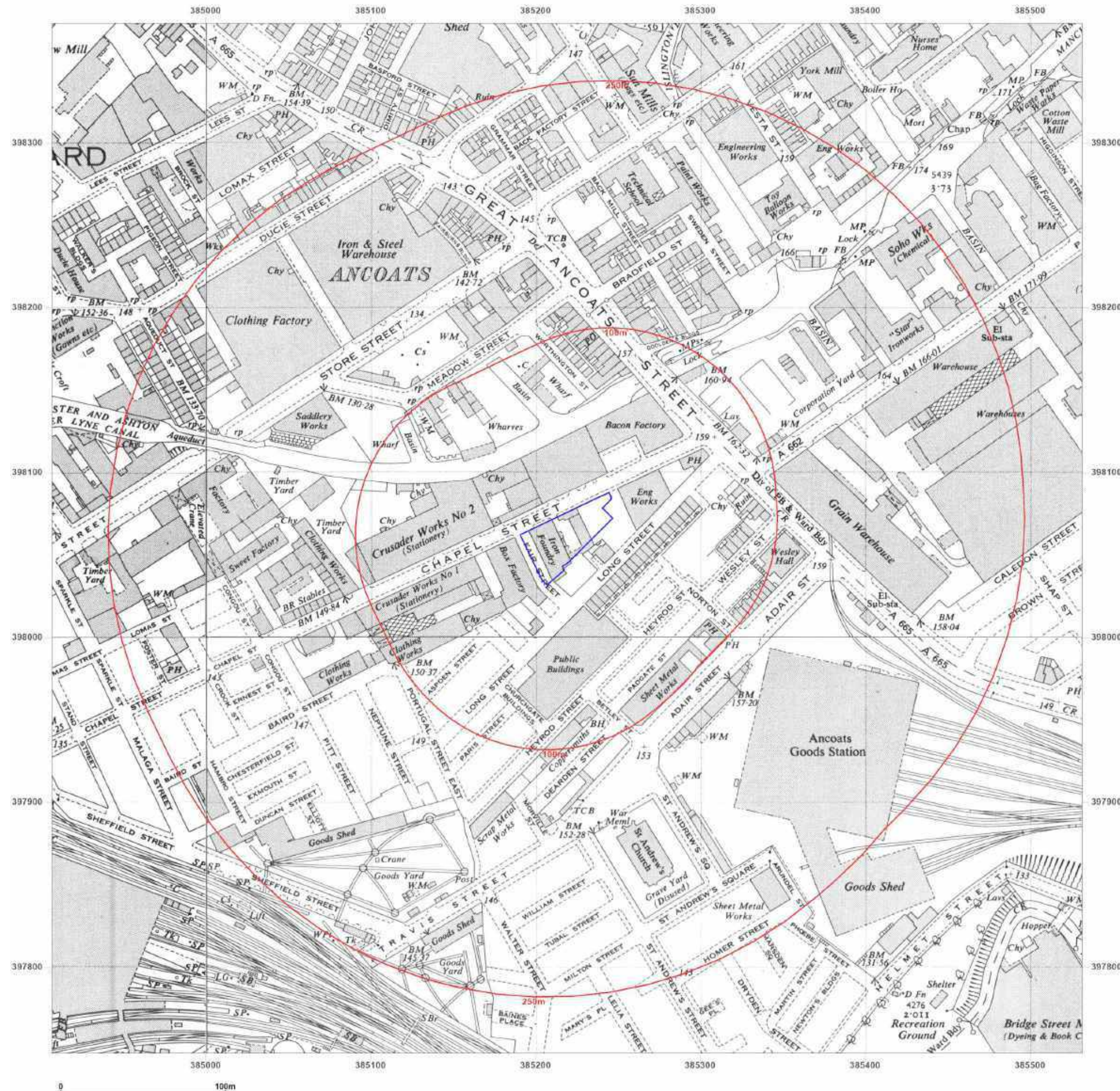


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1952-1955

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Surveyed 1953
Revised 1953
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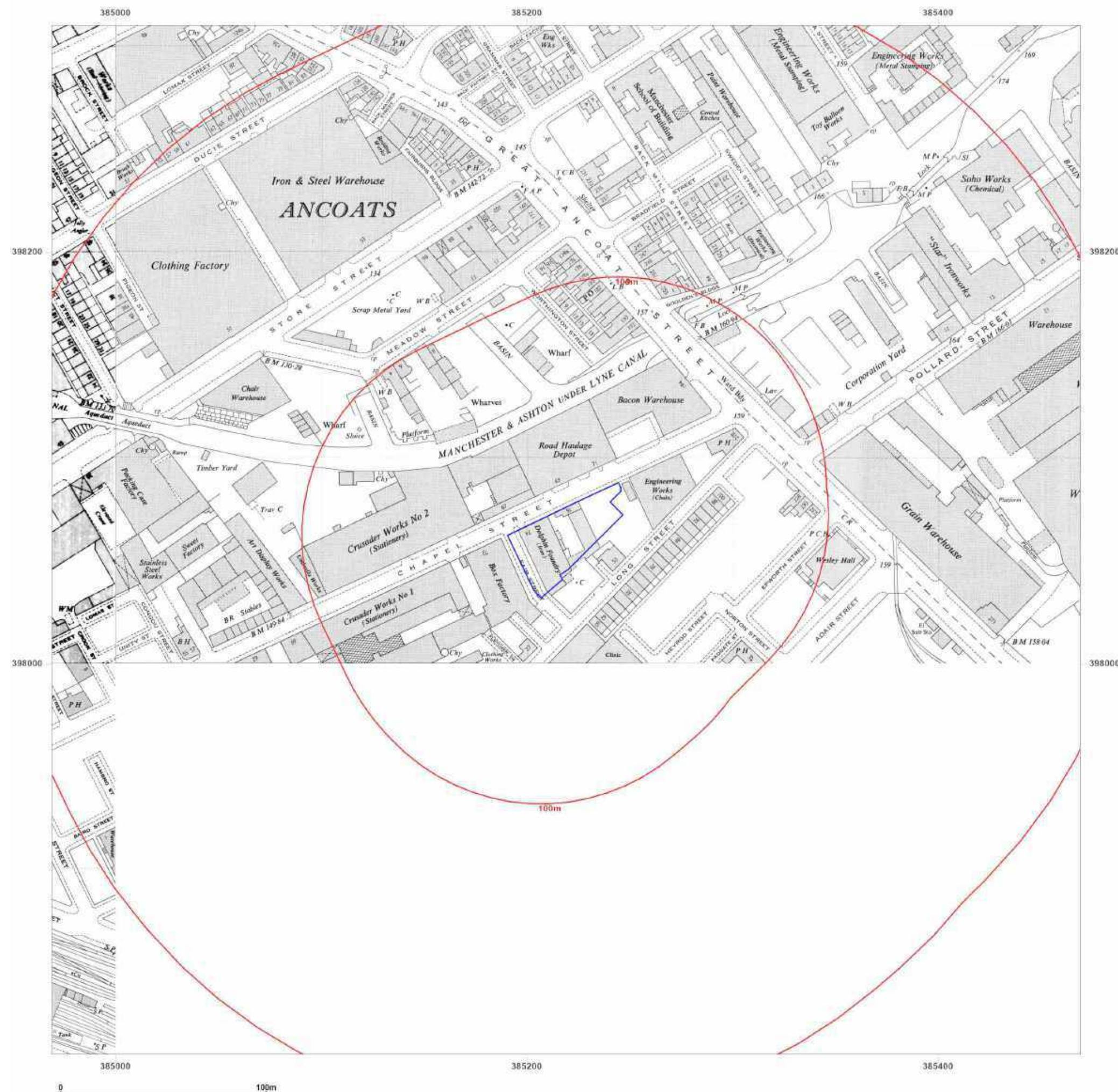


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1950-1955

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1951
Edition N/A
Copyright 1952
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Revised 1953
Edition N/A
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Levelled 1929

Surveyed N/A
Revised 1948
Edition 1950
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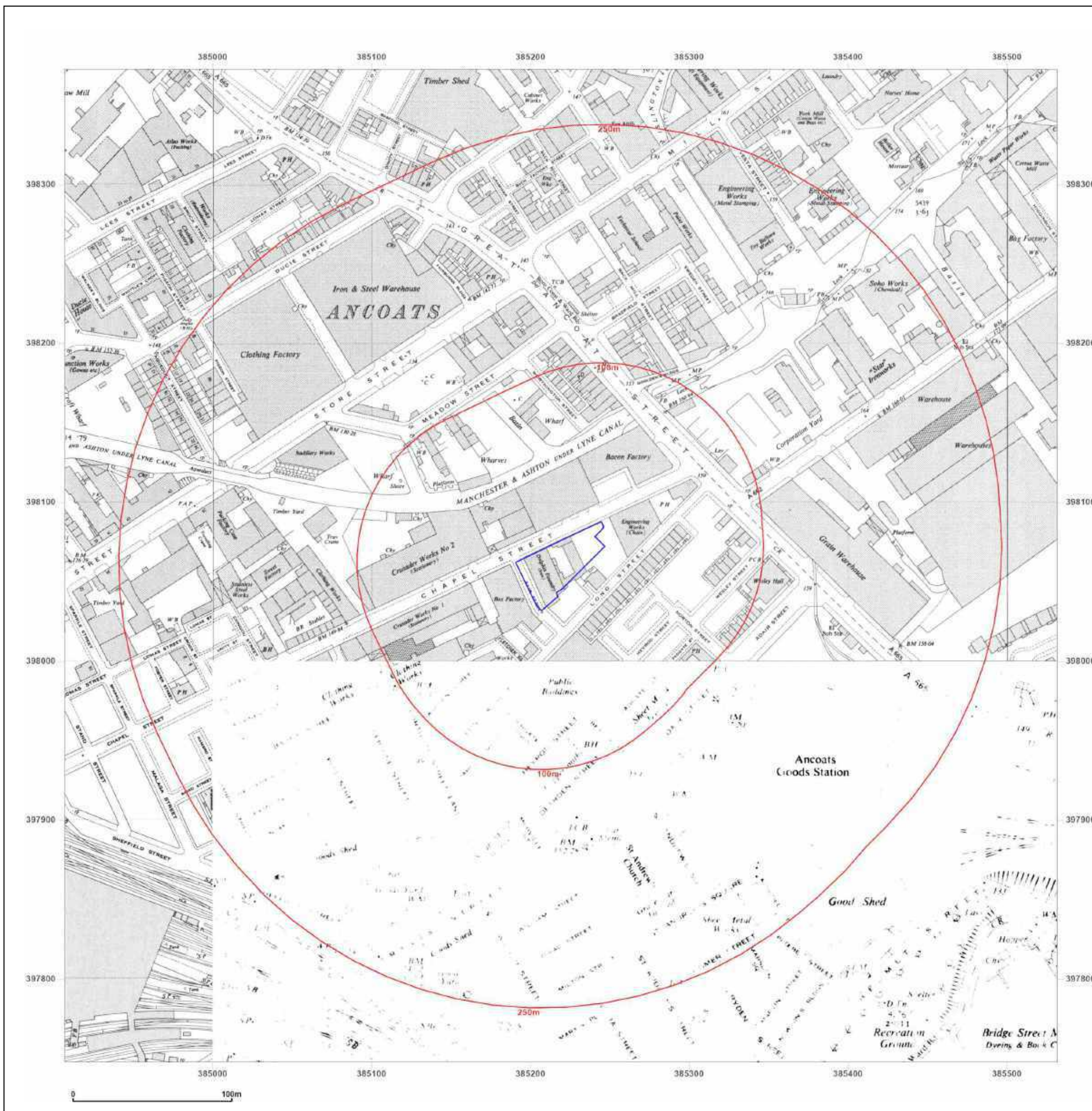


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1960-1964

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1959

Surveyed 1948
Revised 1962
Edition N/A
Copyright 1963
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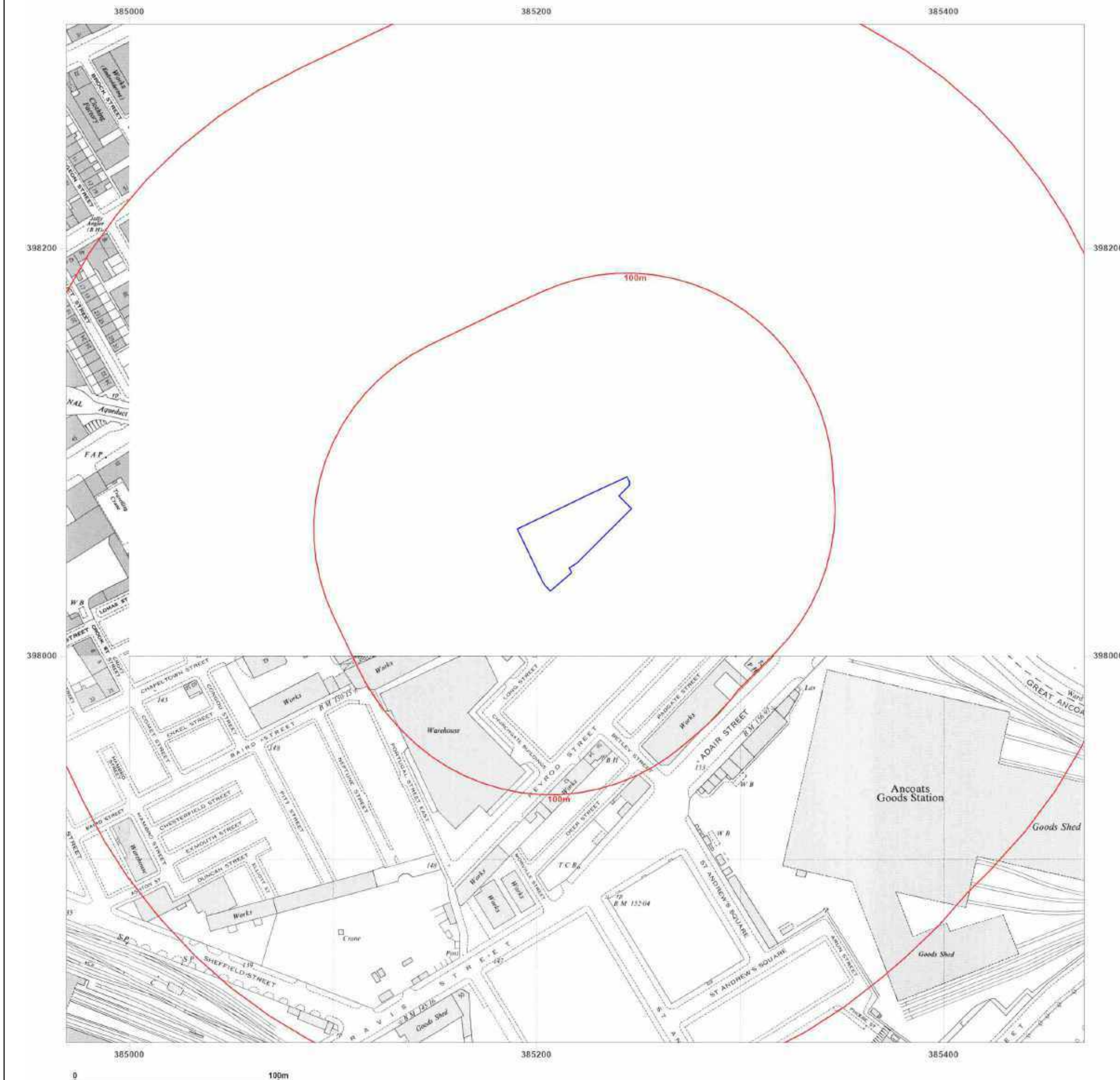


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1965-1968

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1968
Edition N/A
Copyright 1970
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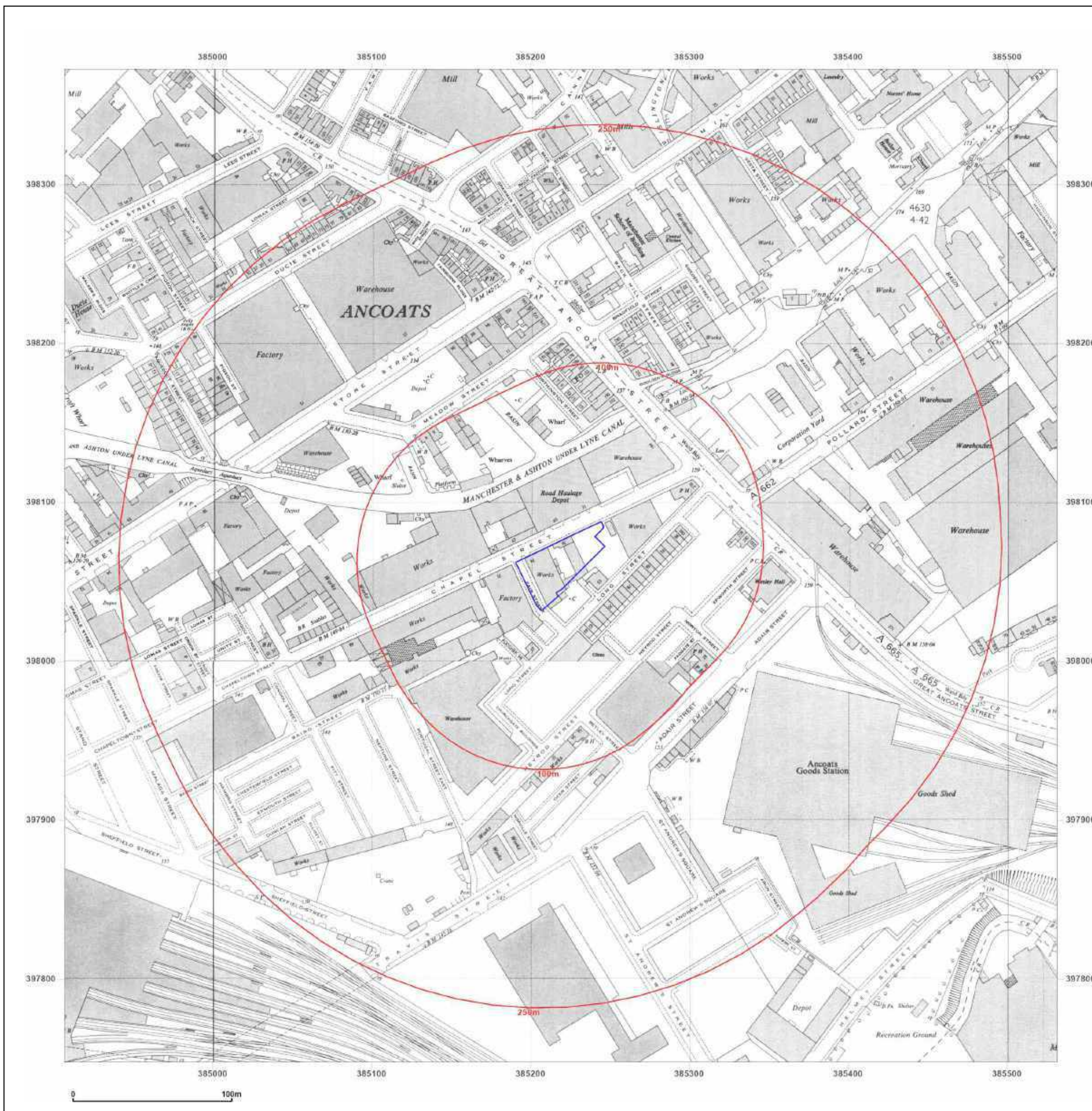


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Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

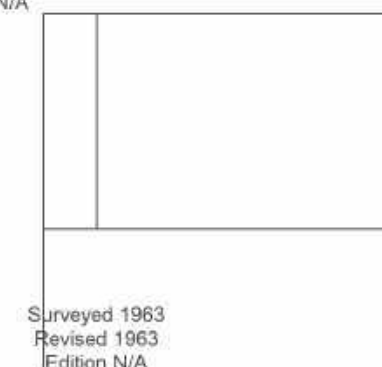
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Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1963
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Edition N/A
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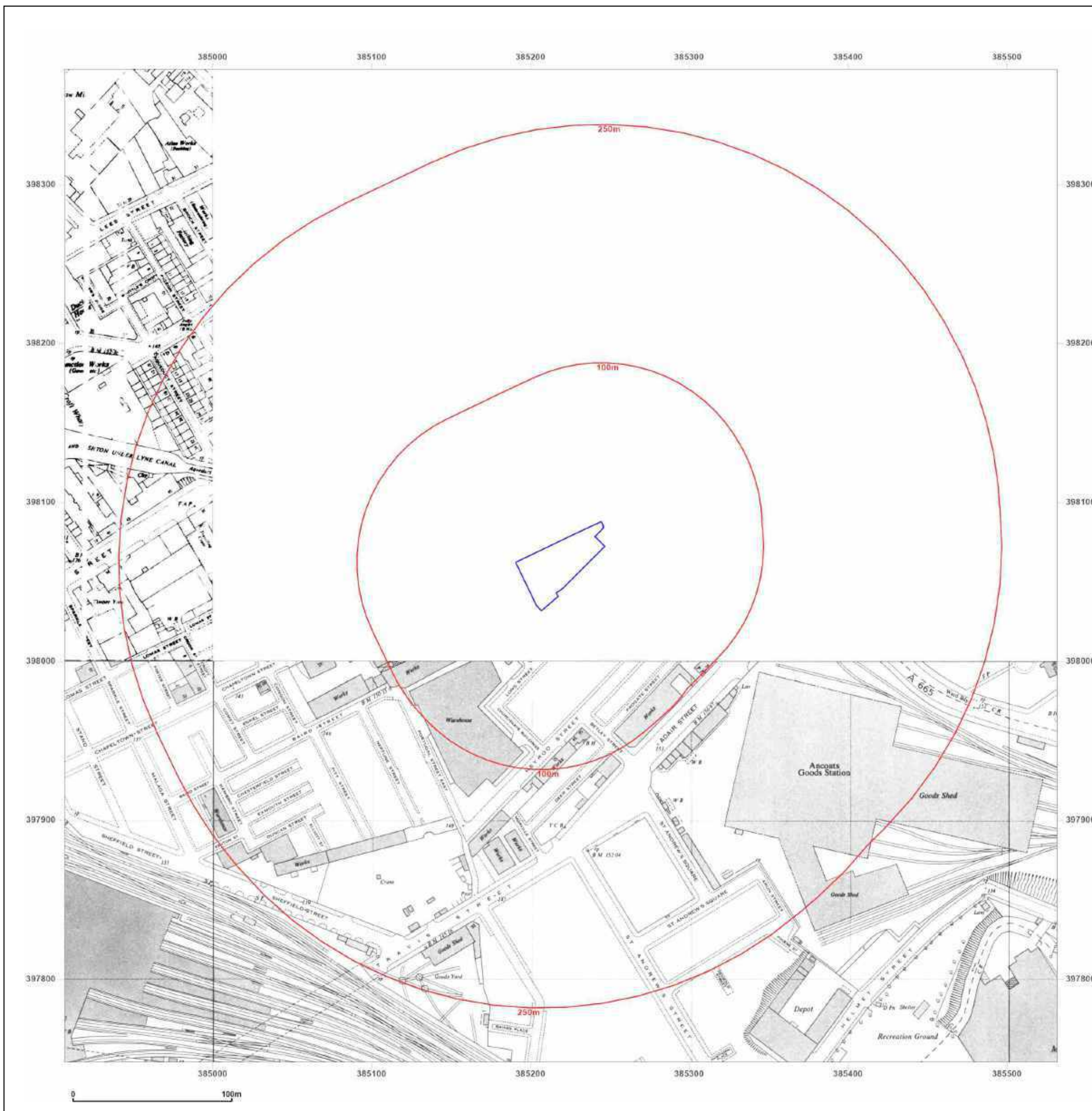


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1967-1970

Scale: 1:2,500

Printed at: 1:2,500



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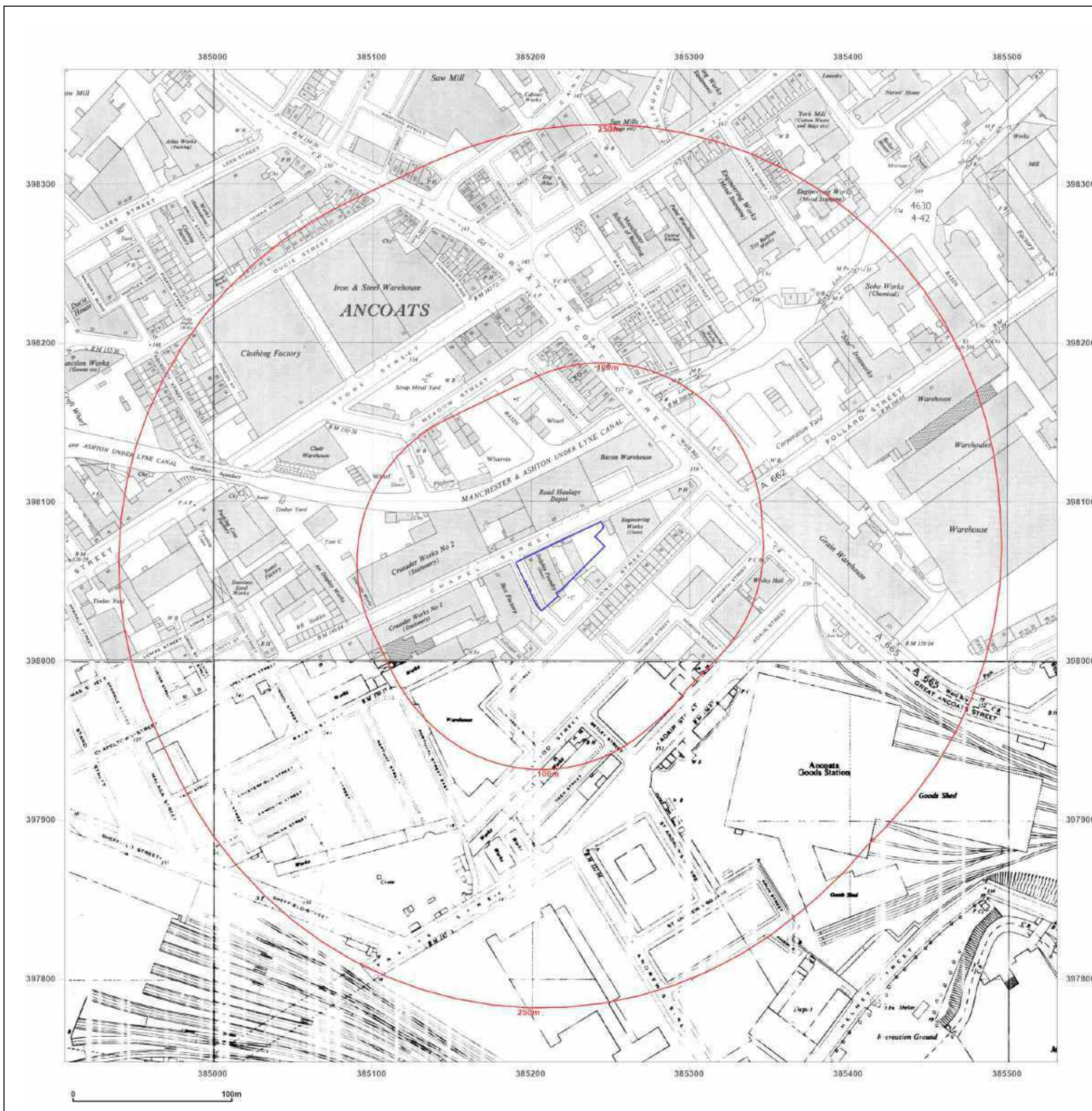


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1971-1974

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1948
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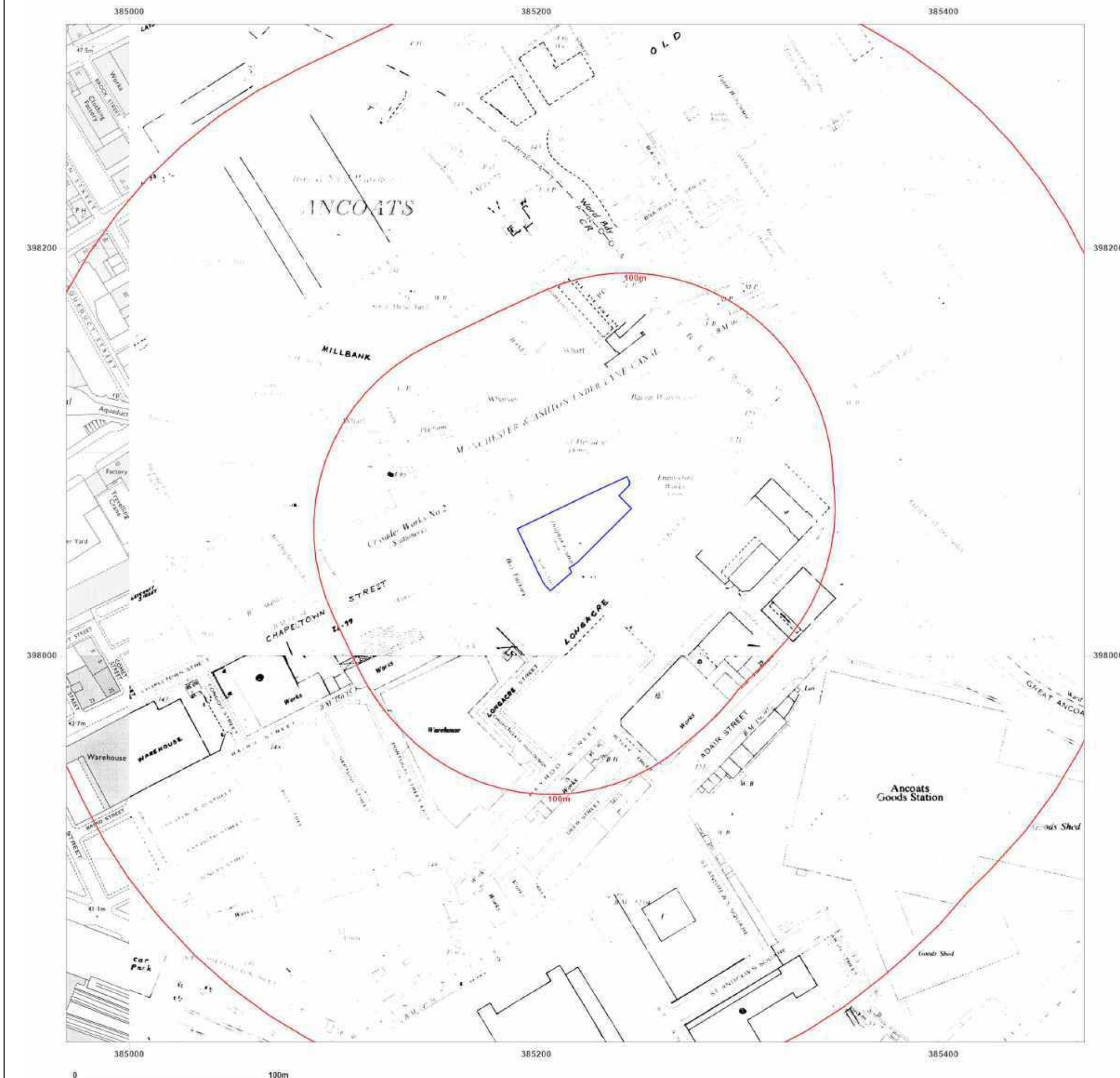


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1971-1978

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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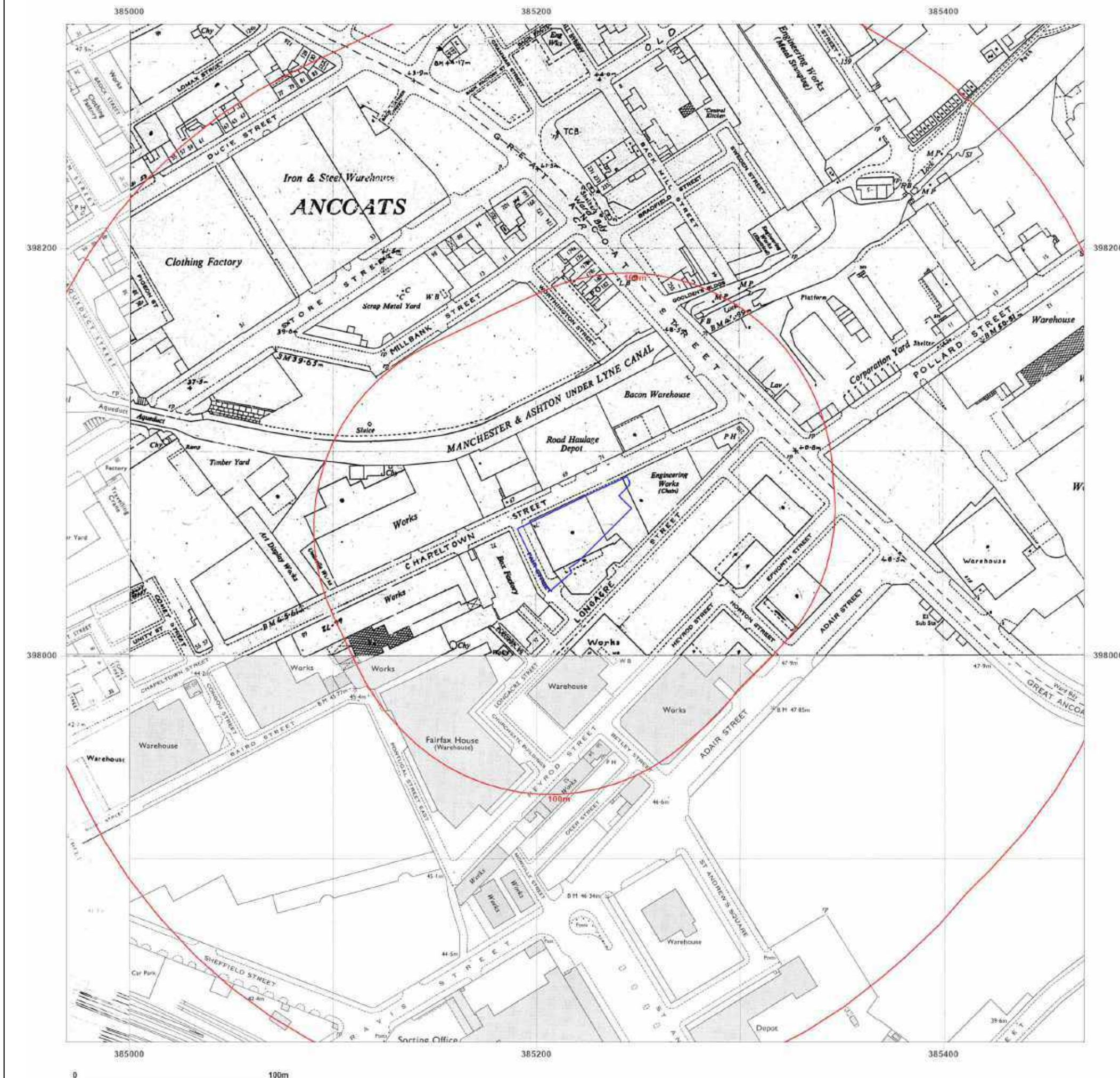


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1981-1985

Scale: 1:1,250

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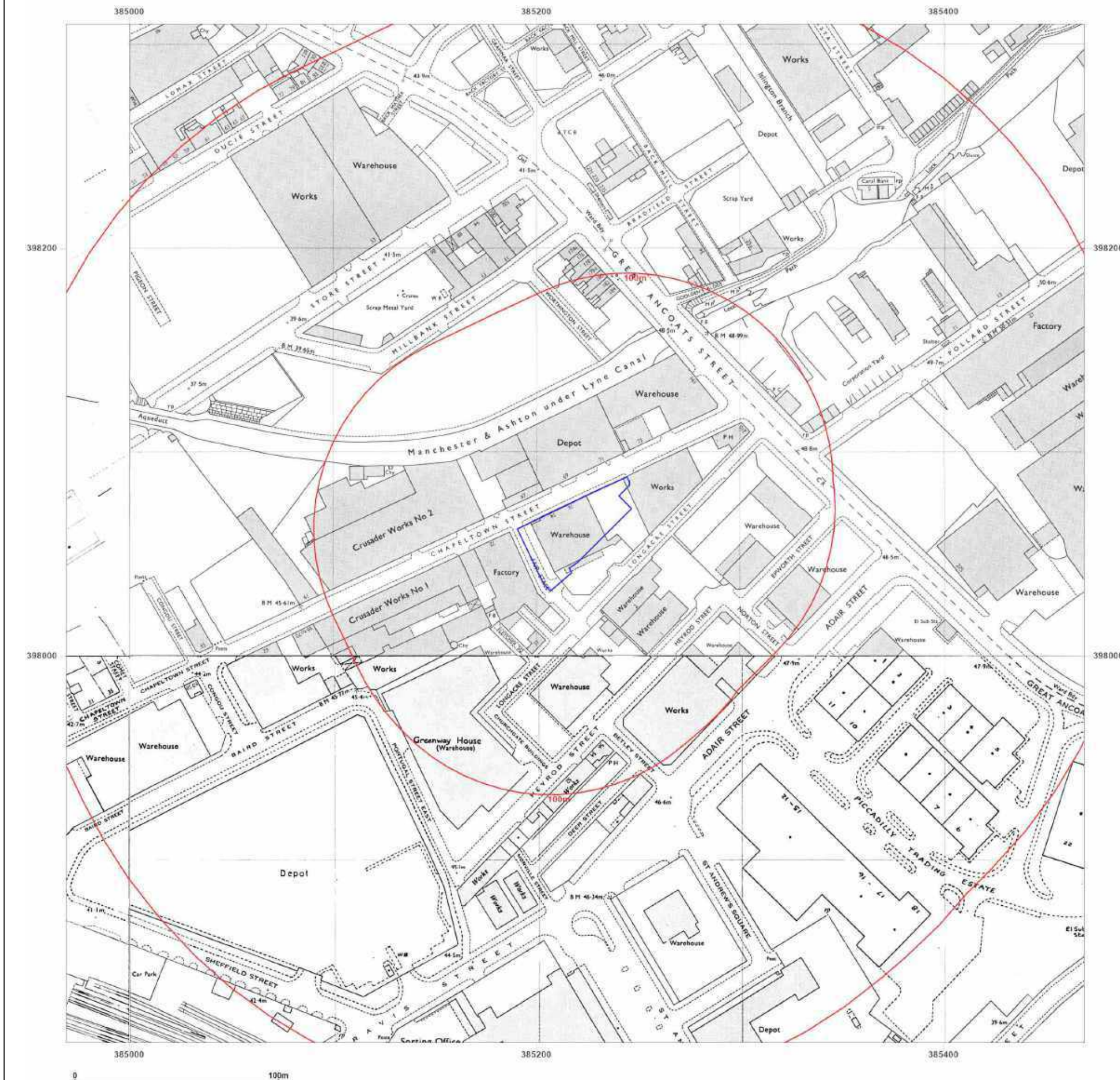


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1992
Edition N/A
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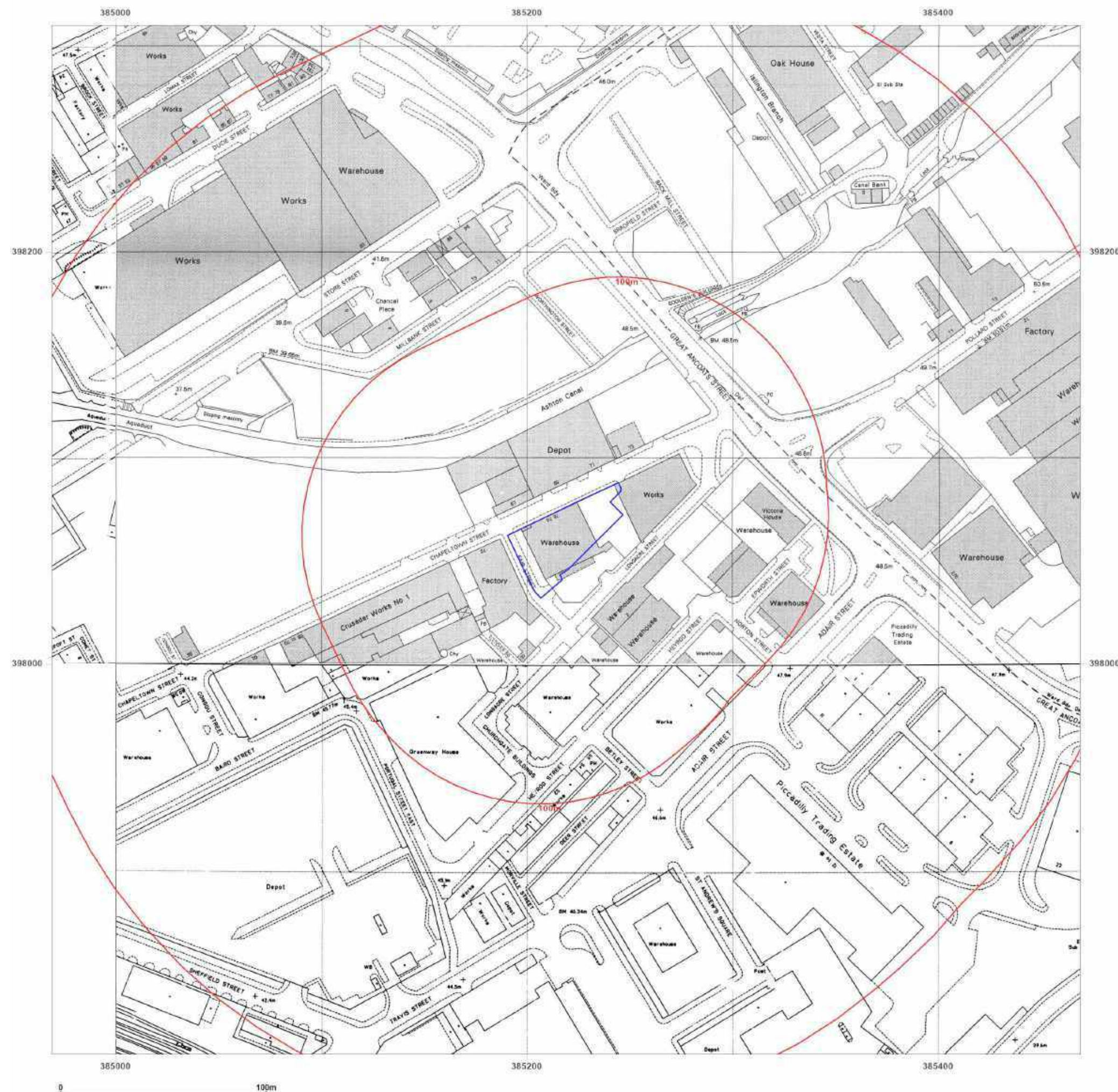


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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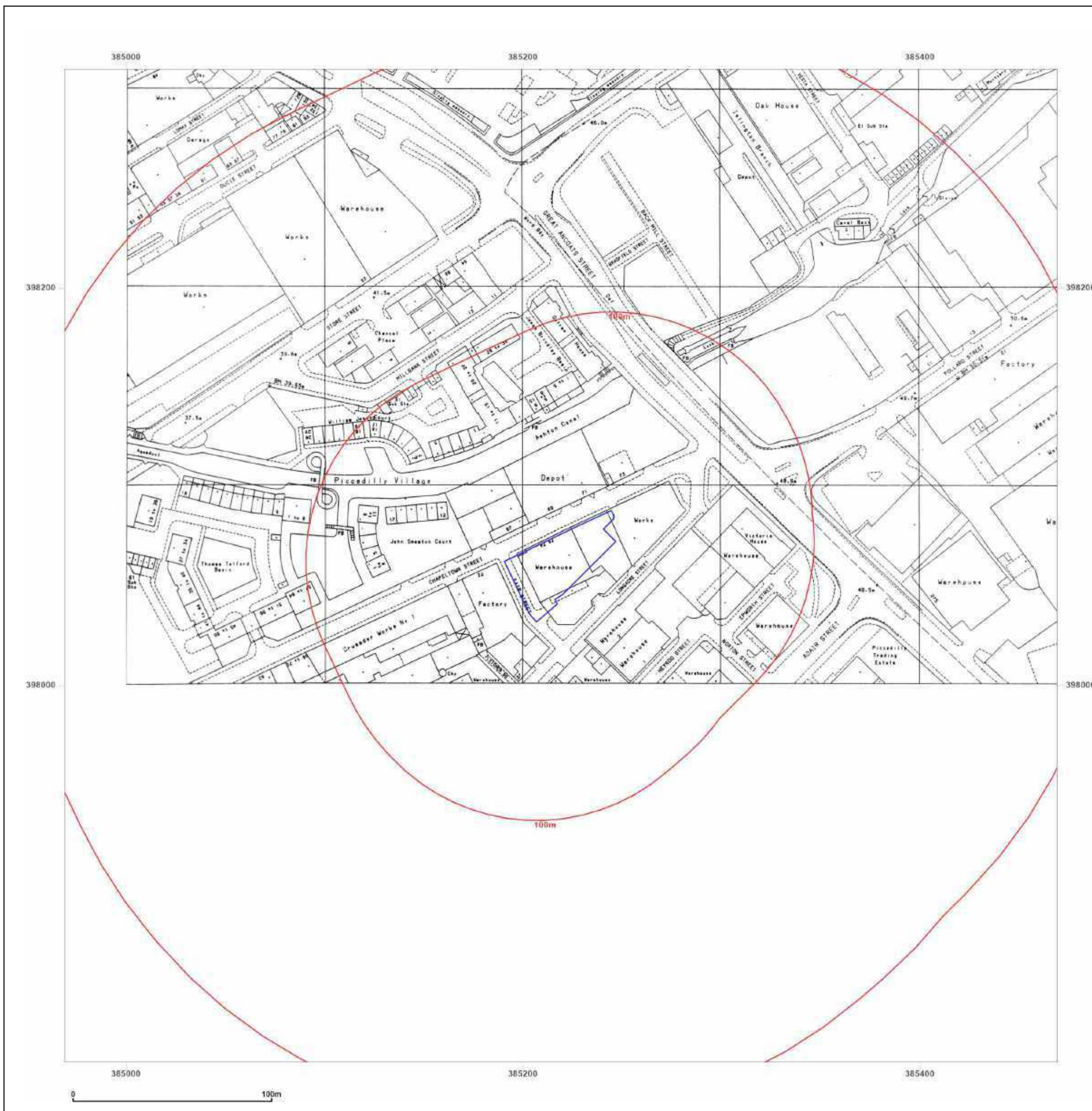


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Revised 1992
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Edition N/A
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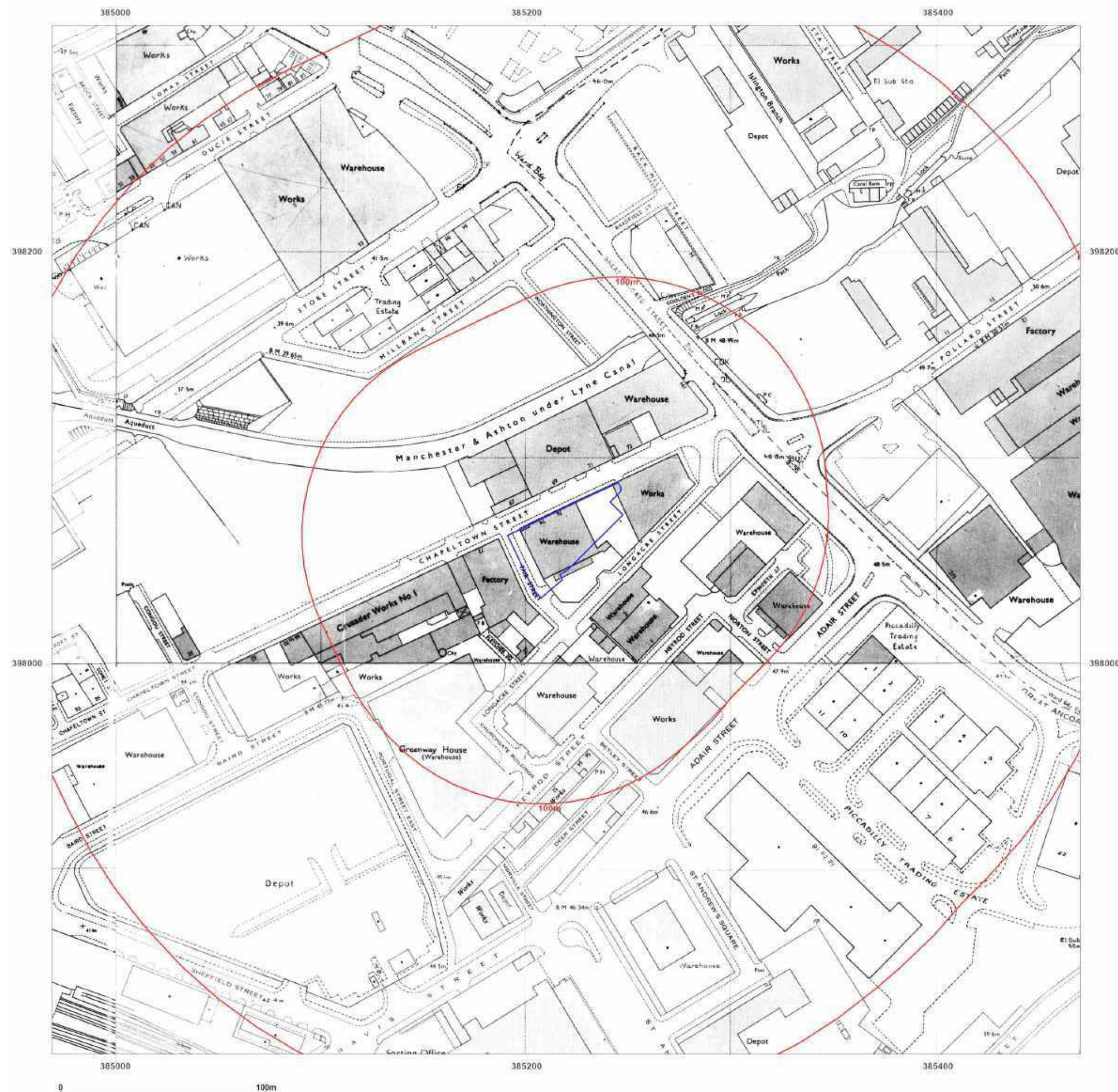


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1991-1995

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1995
Revised 1995
Edition N/A
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Levelled N/A

Surveyed 1994
Revised 1994
Edition N/A
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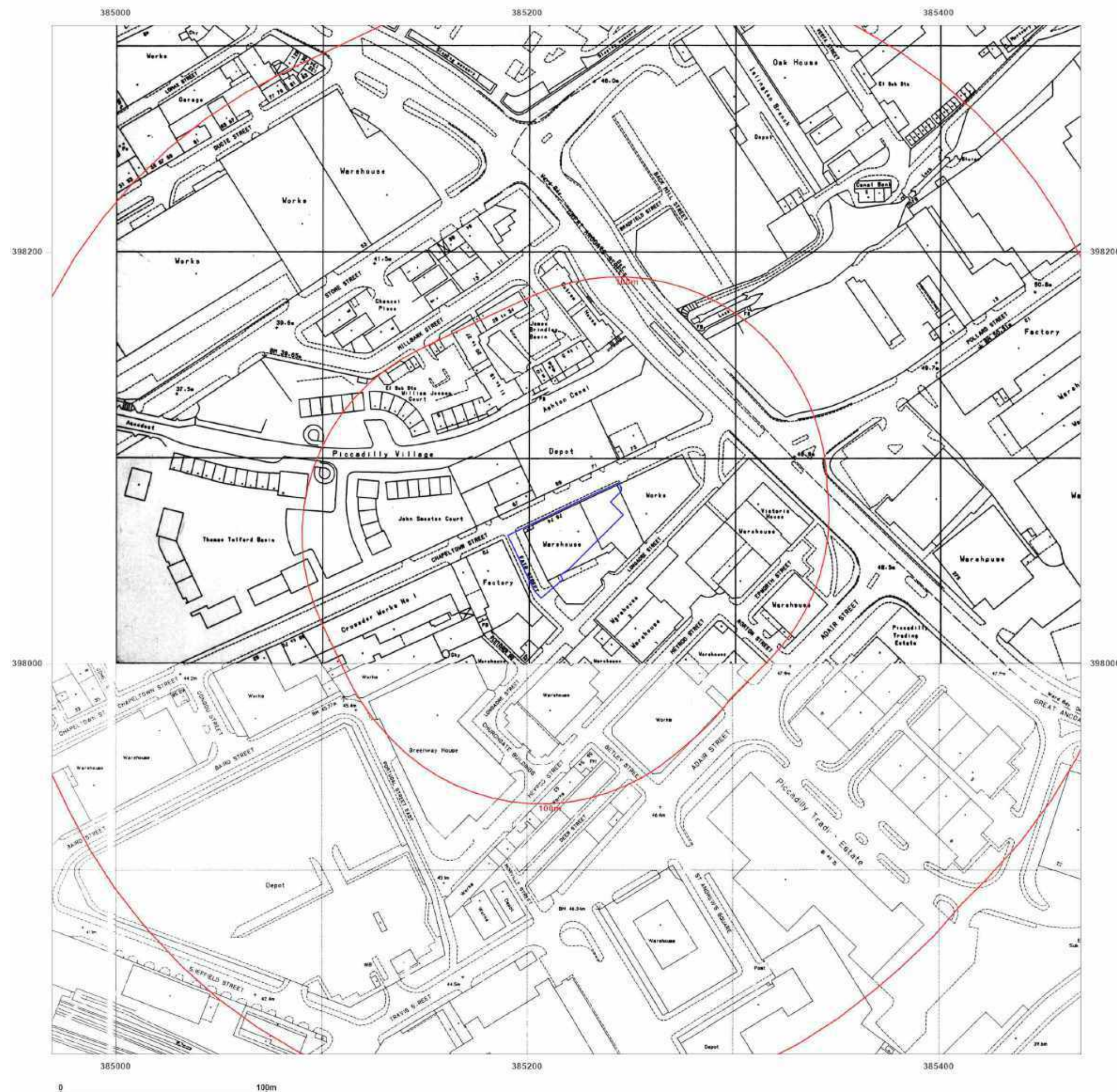


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1992-1995

Scale: 1:1,250

Printed at: 1:2,000



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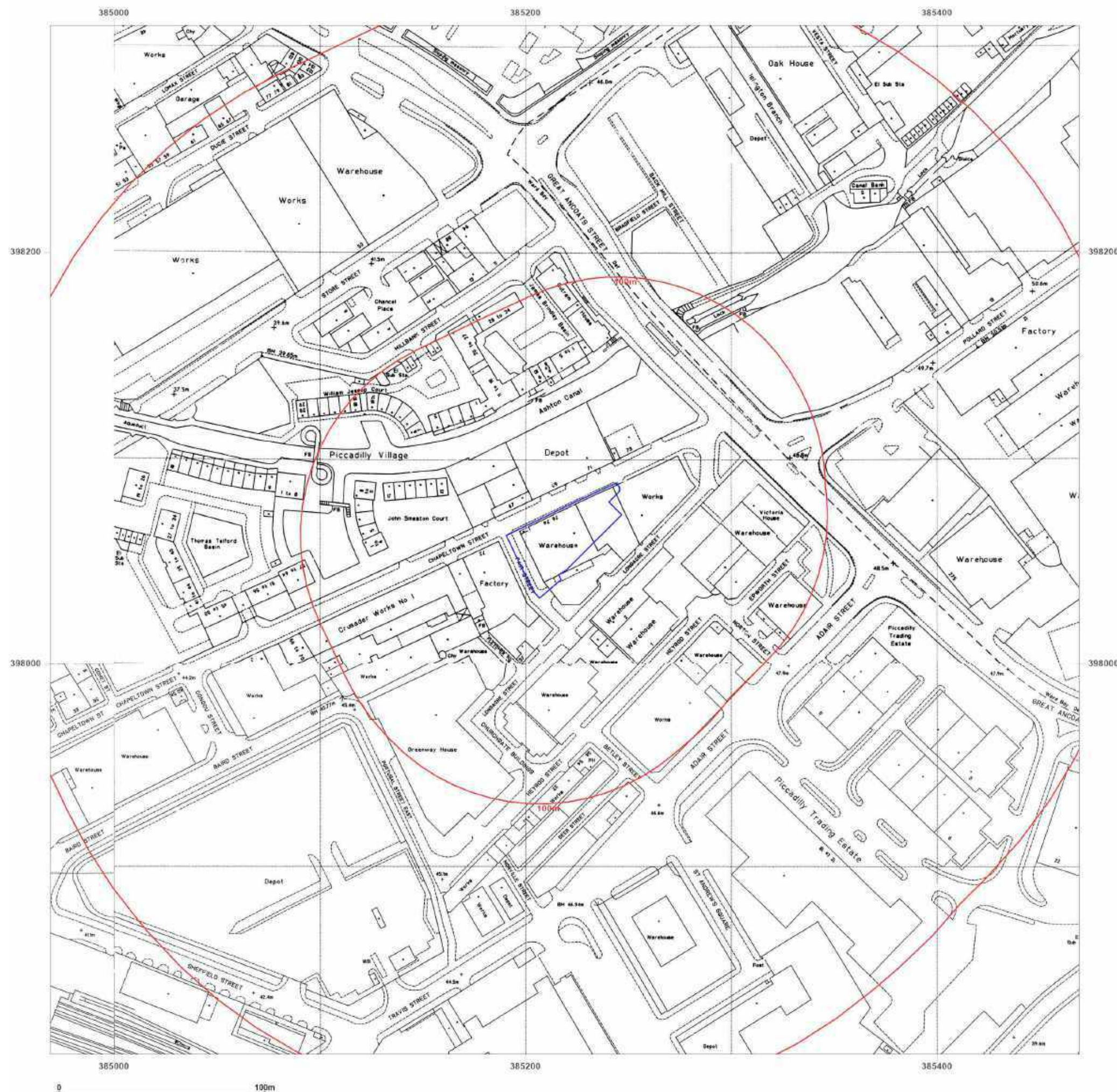


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MANCHESTER, M1 2BJ

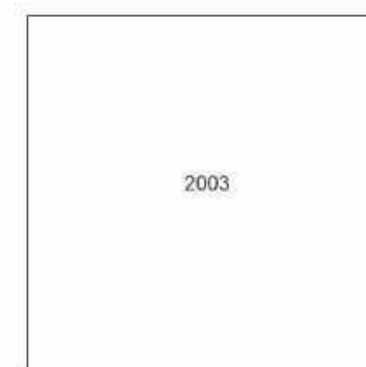
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Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1848

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

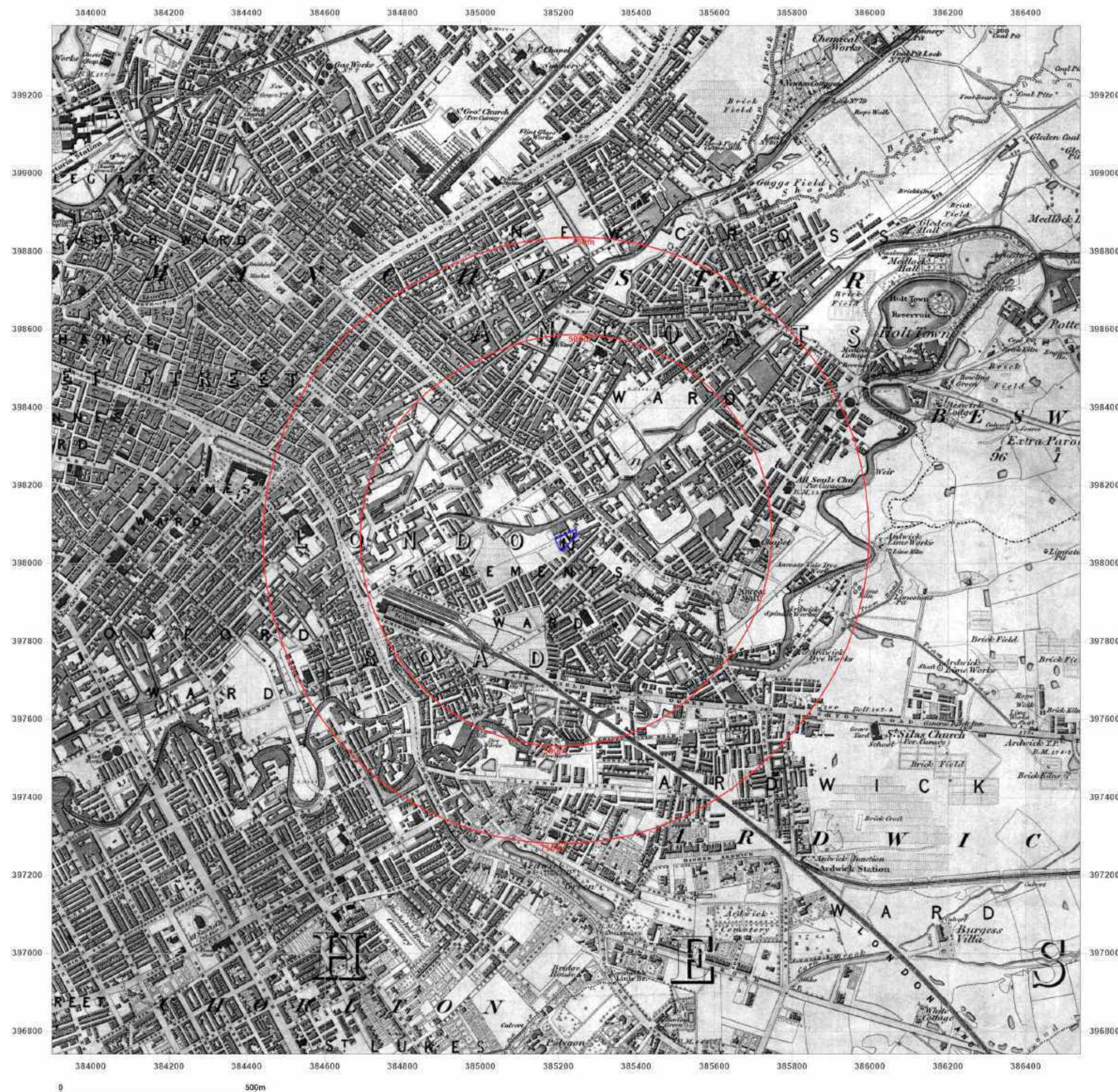


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Client Ref: 9861G
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Grid Ref: 385219, 398060

Map Name: County Series

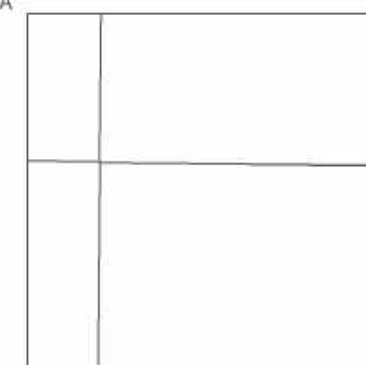
Map date: 1890-1894

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1889
Revised 1889
Edition 1894
Copyright N/A
Levelled N/A



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

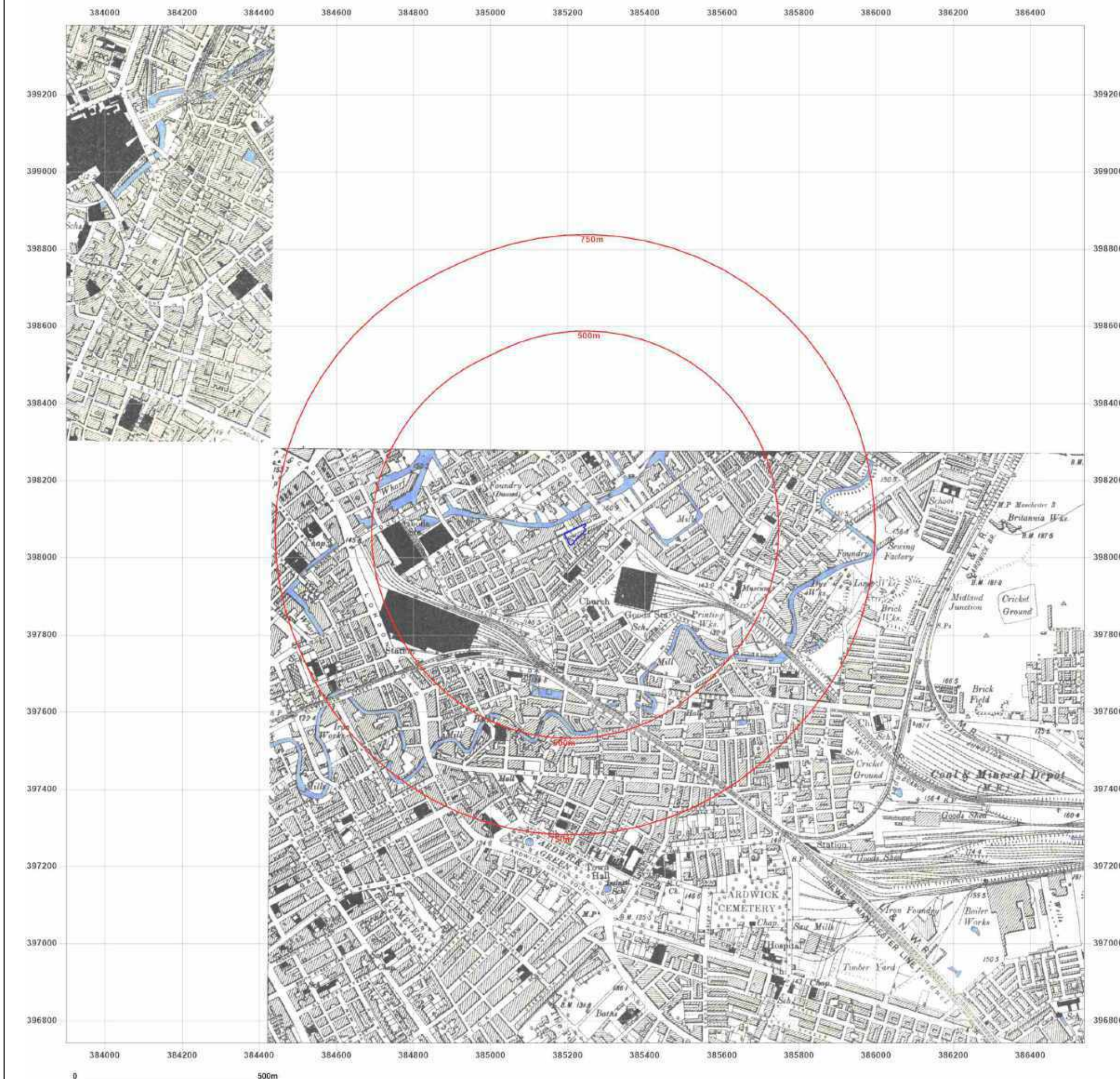


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1891-1896

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1894
Revised 1896
Edition 1896
Copyright N/A
Levelled N/A

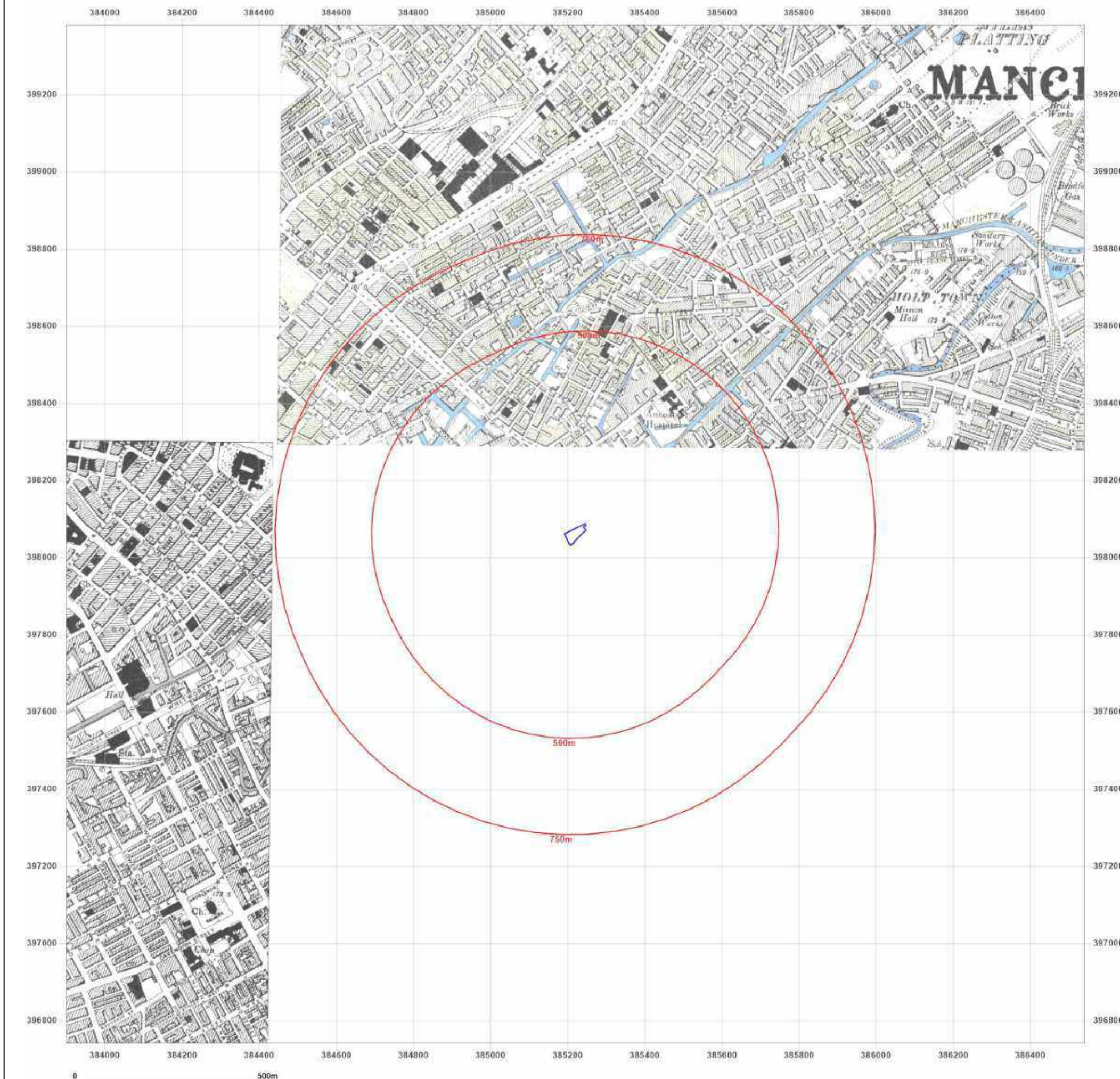


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1906
Edition 1906
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1906
Edition 1906
Copyright N/A
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Surveyed 1844
Revised 1905
Edition 1905
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Revised 1905
Edition 1905
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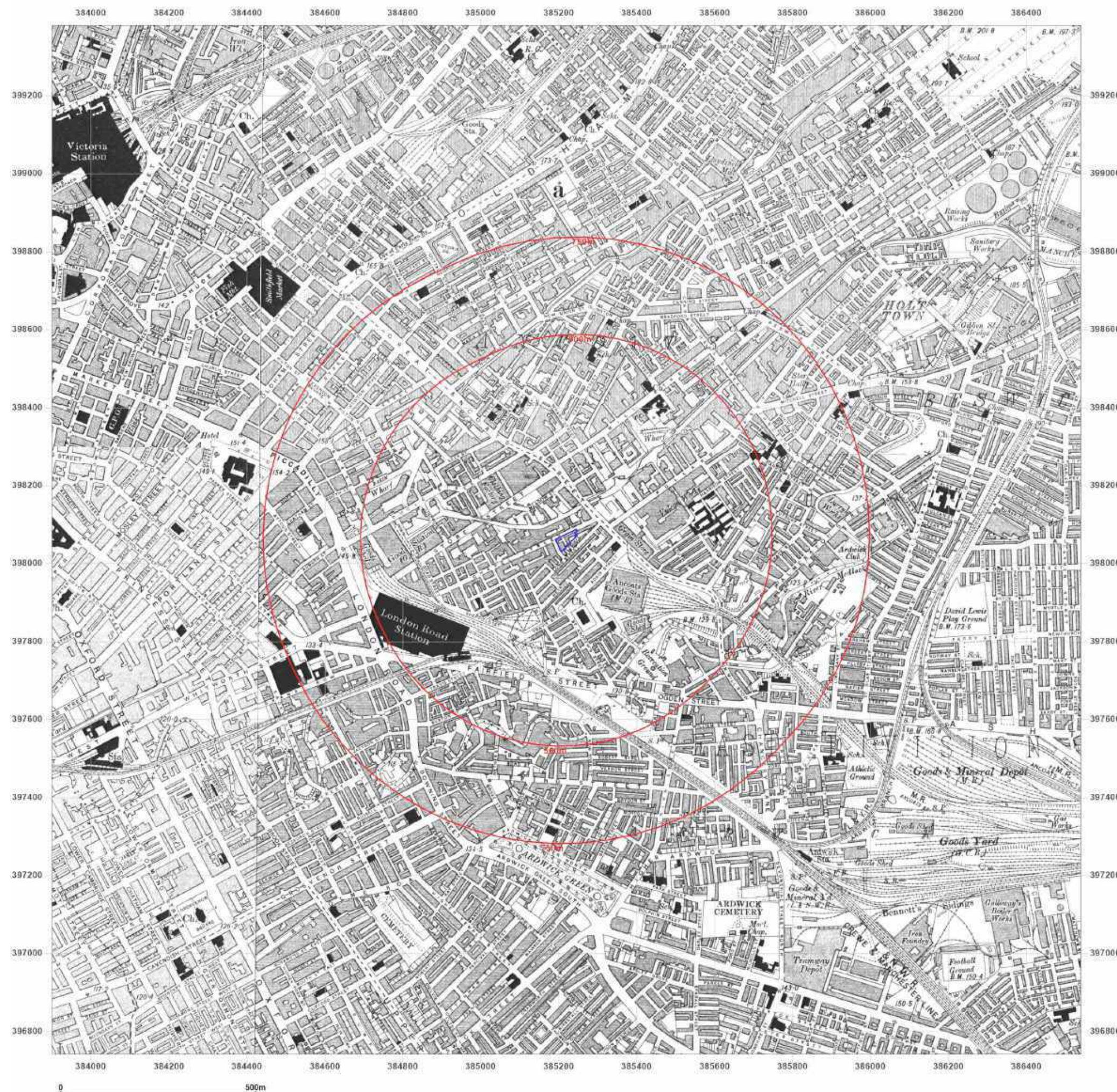


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Client Ref: 9861G
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Map Name: County Series

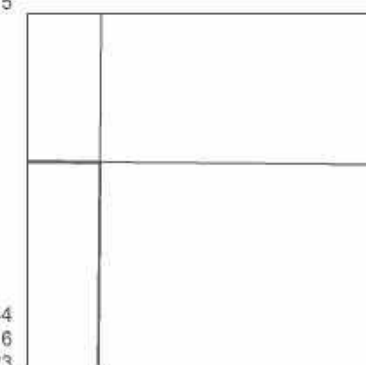
Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915

Surveyed 1844
Revised 1915
Edition 1923
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Site Details:

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Map Name: County Series

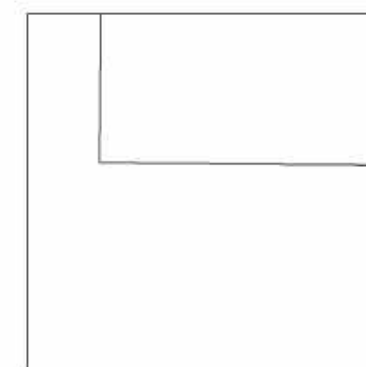
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Printed at: 1:10,560



Surveyed 1844
Revised 1921
Edition 1923
Copyright N/A
Levelled 1906

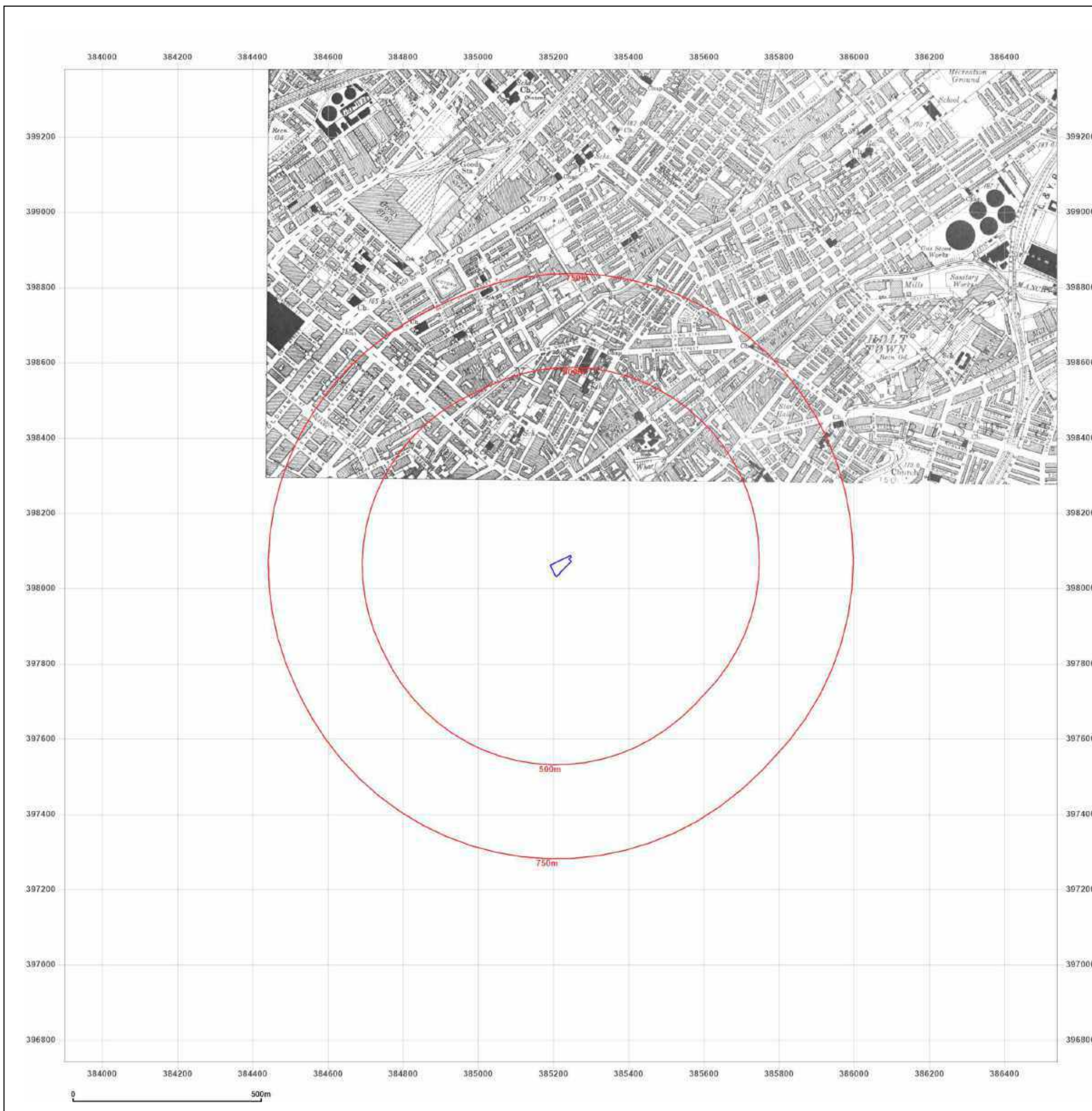


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MANCHESTER, M1 2BJ

Client Ref: 9861G
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Grid Ref: 385219, 398060

Map Name: County Series

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Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915

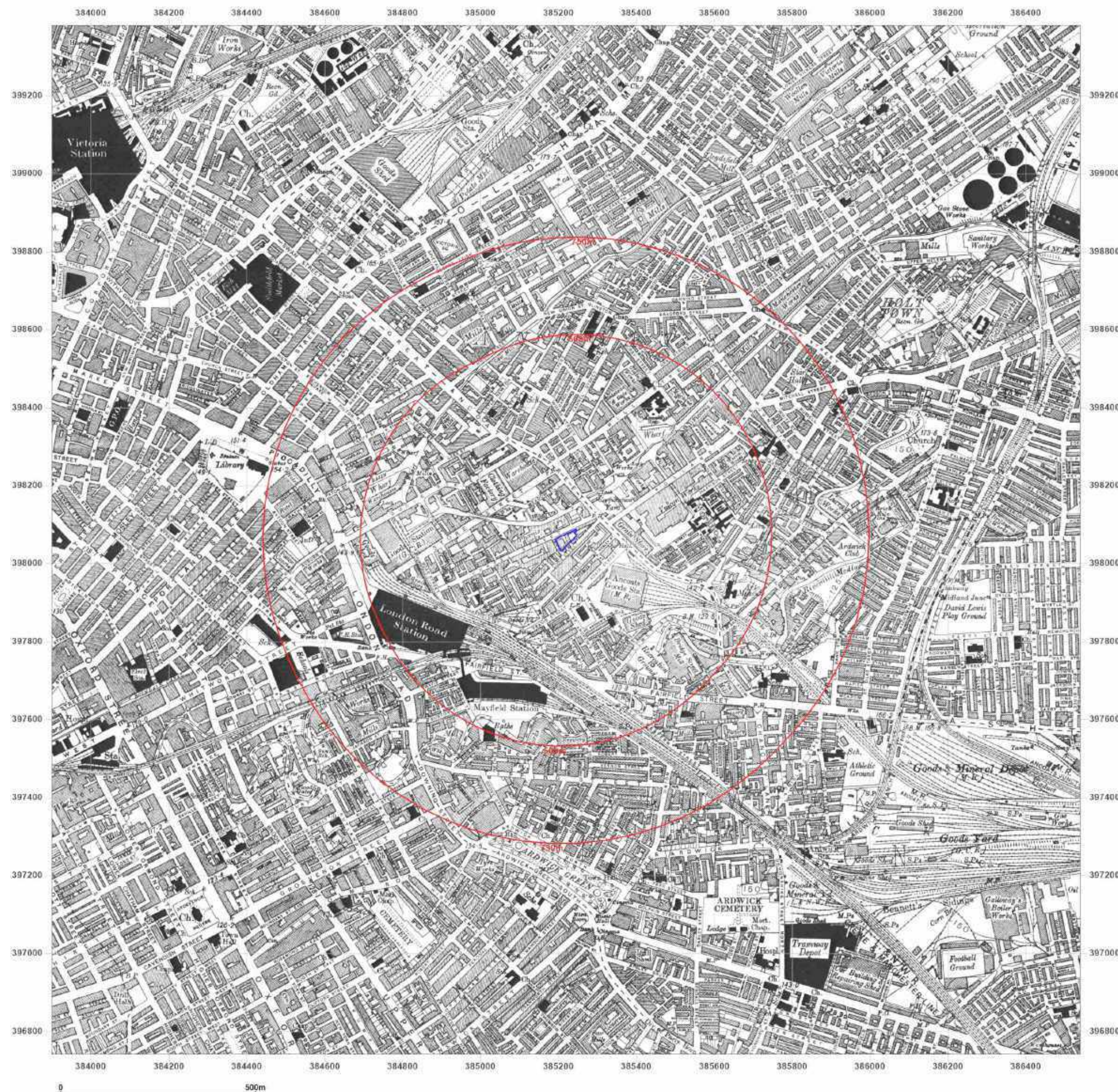


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: County Series

Map date: 1931-1934

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1931
Edition 1931
Copyright N/A
Levelled 1927

Surveyed 1844
Revised 1933
Edition 1933
Copyright N/A
Levelled 1927

Surveyed 1844
Revised 1932
Edition 1932
Copyright N/A
Levelled 1927

Surveyed 1844
Revised 1934
Edition 1934
Copyright N/A
Levelled 1927

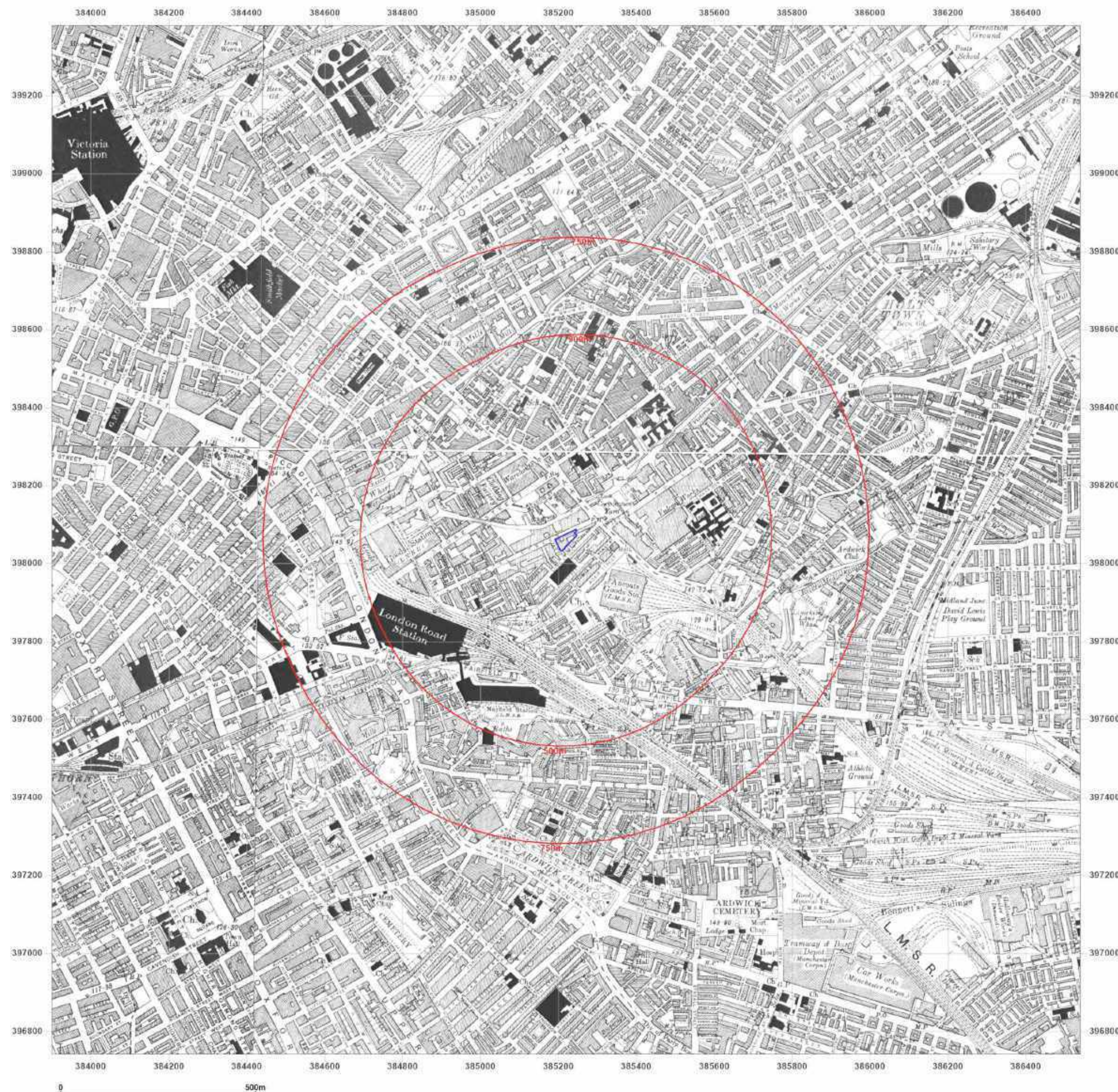


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Client Ref: 9861G
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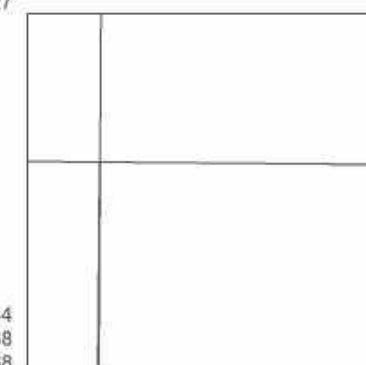
Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition 1938
Copyright N/A
Levelled 1927



Surveyed 1844
Revised 1938
Edition 1938
Copyright N/A
Levelled 1927

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Revised 1938
Edition 1938
Copyright N/A
Levelled 1927

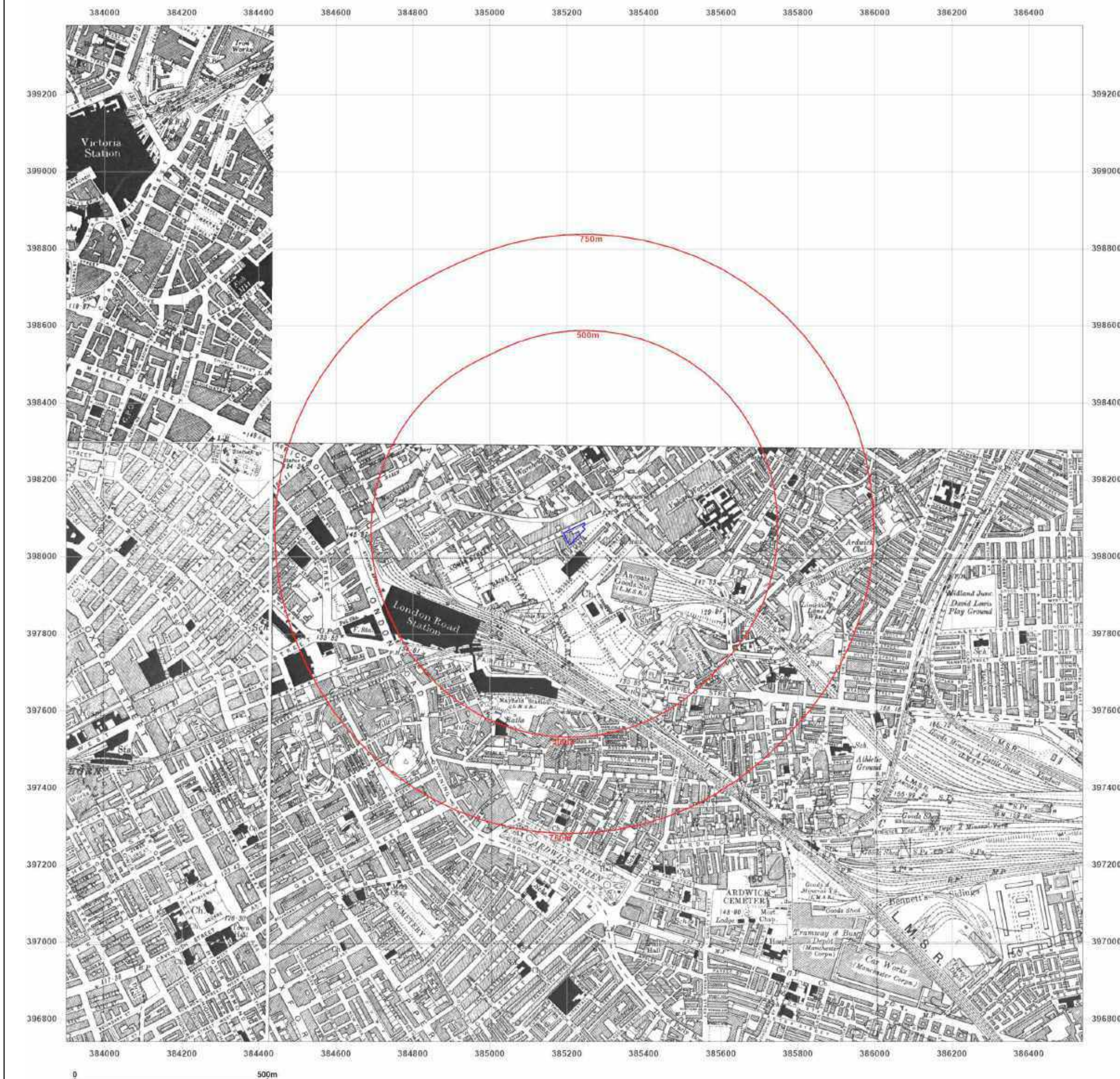


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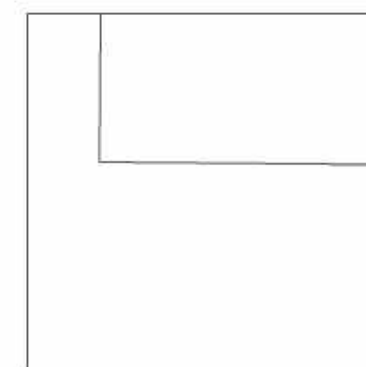
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Printed at: 1:10,560



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Edition 1938
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Site Details:

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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



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

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

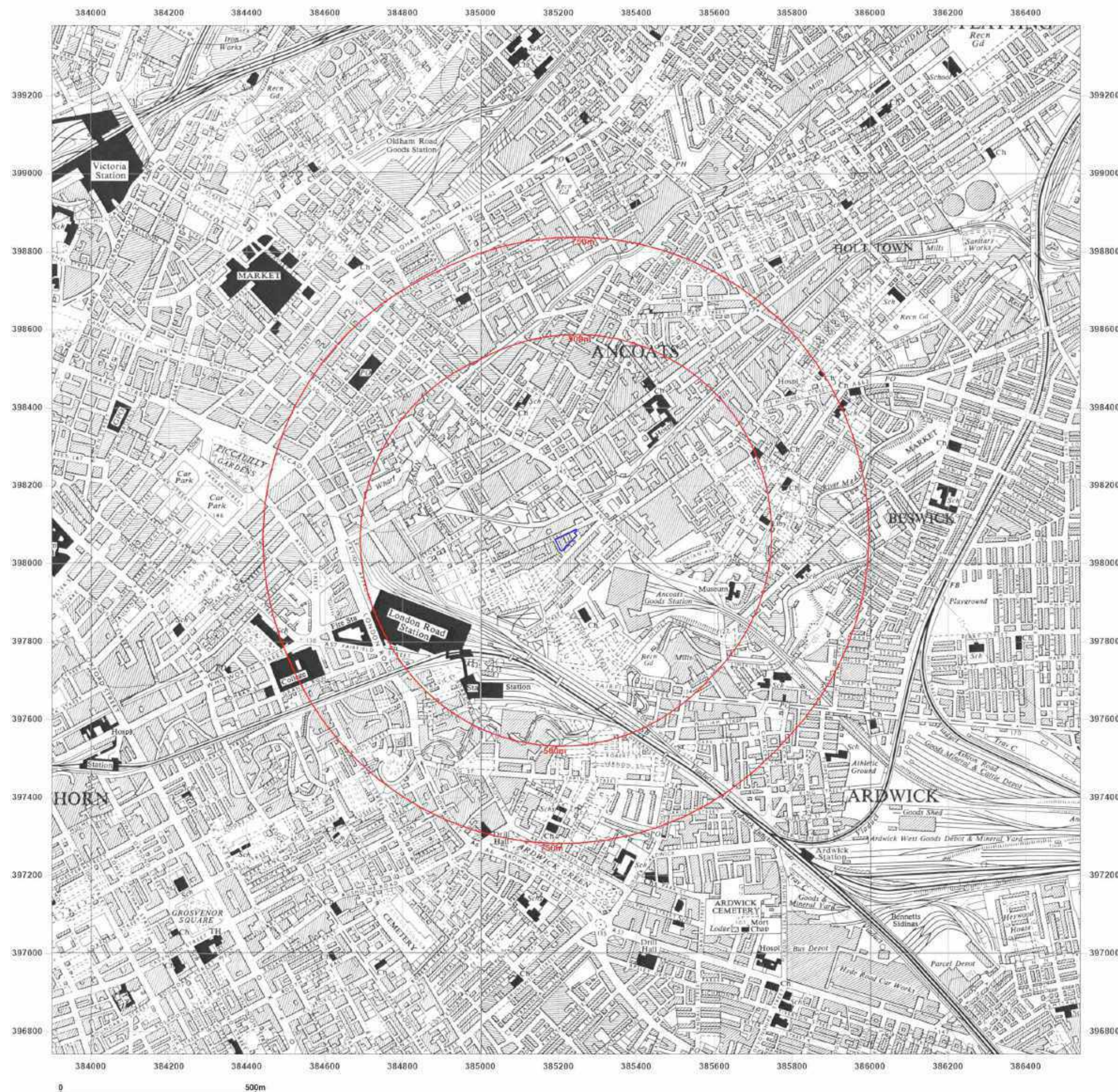


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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: Provisional

Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1968
Levelled N/A

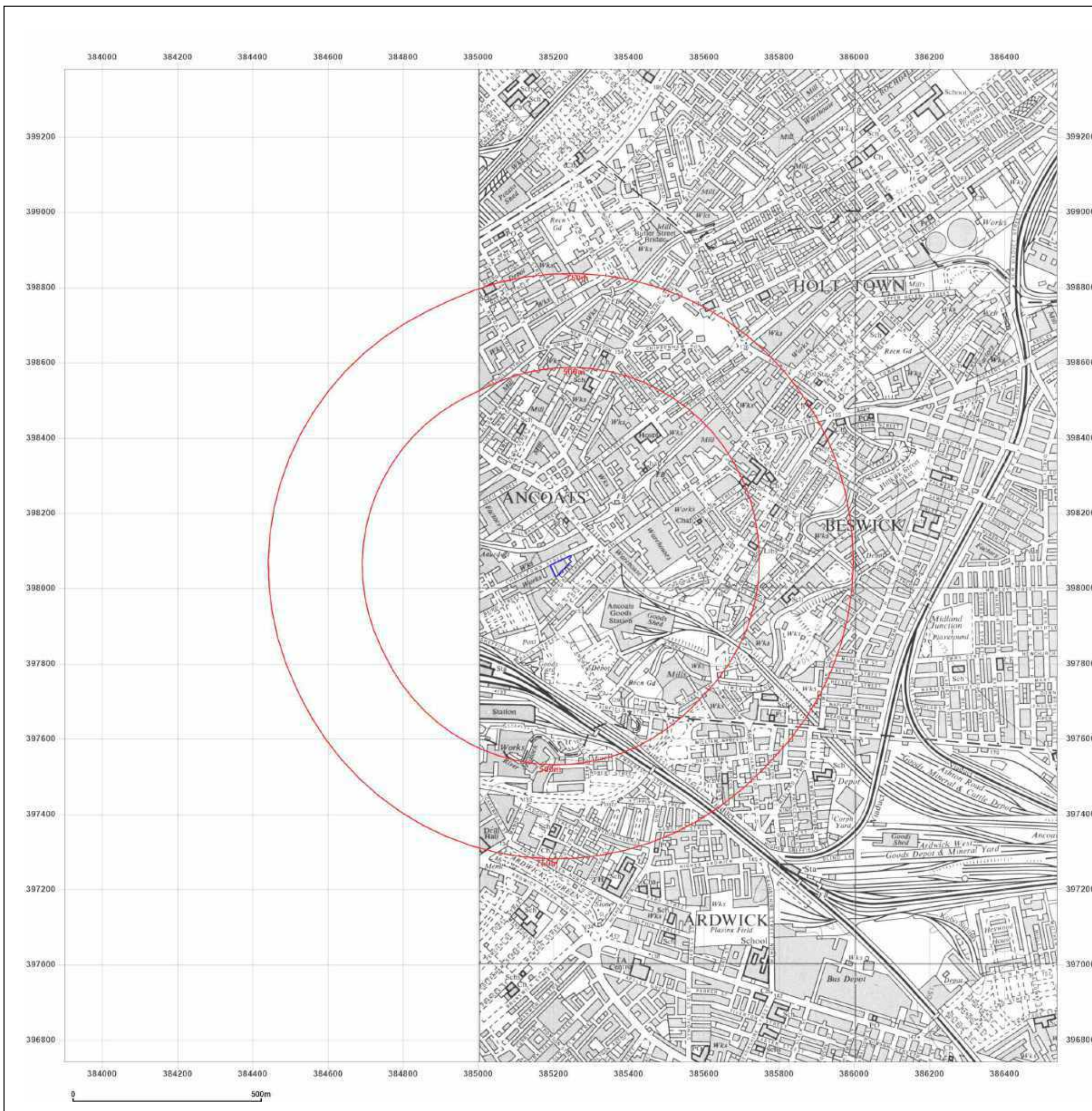


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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1972

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1971
Revised 1972
Edition N/A
Copyright 1972
Levelled 1972

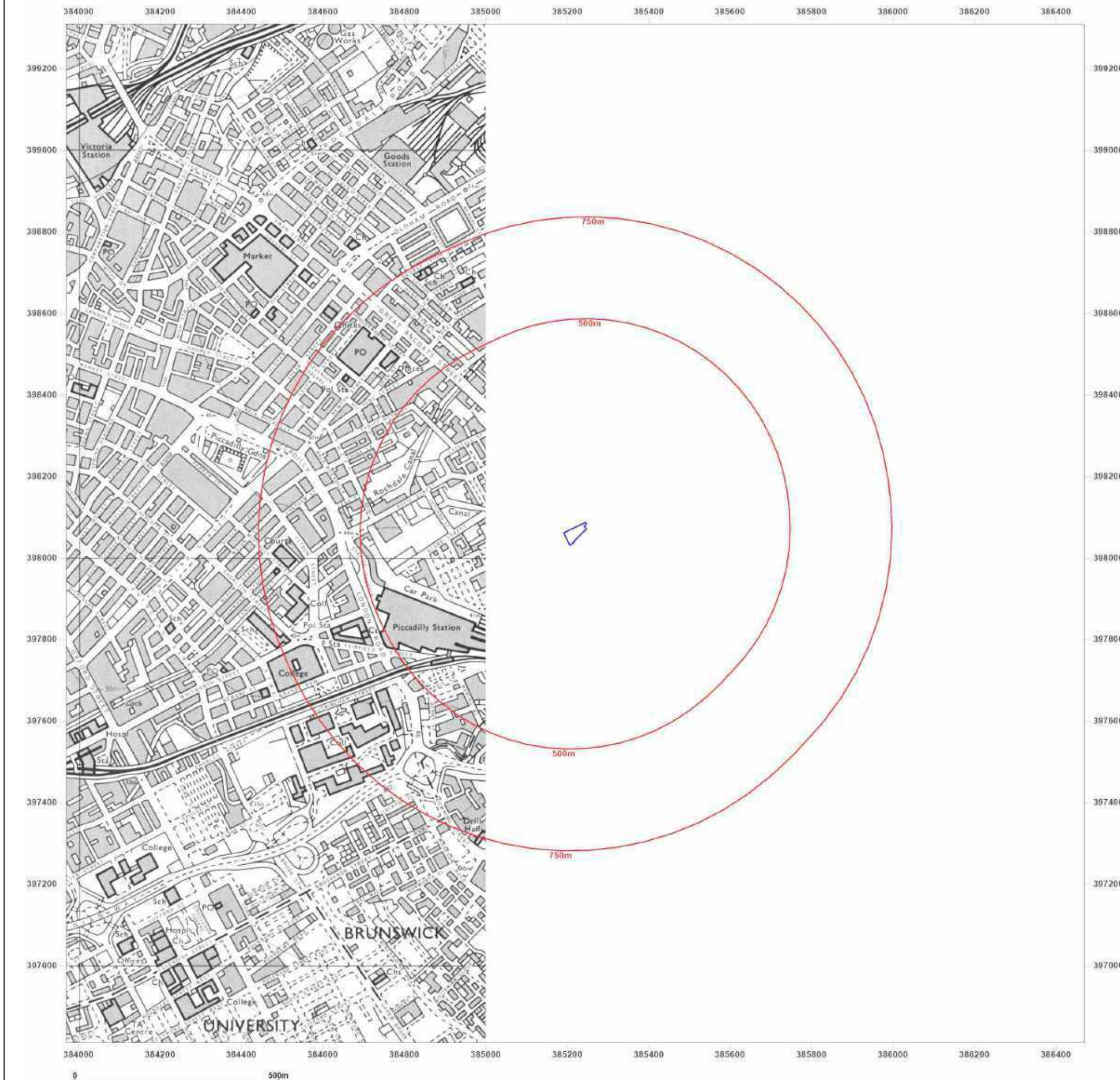


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1980-1981

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1980
Edition N/A
Copyright 1980
Levelled 1976

Surveyed 1976
Revised 1980
Edition N/A
Copyright 1981
Levelled 1976

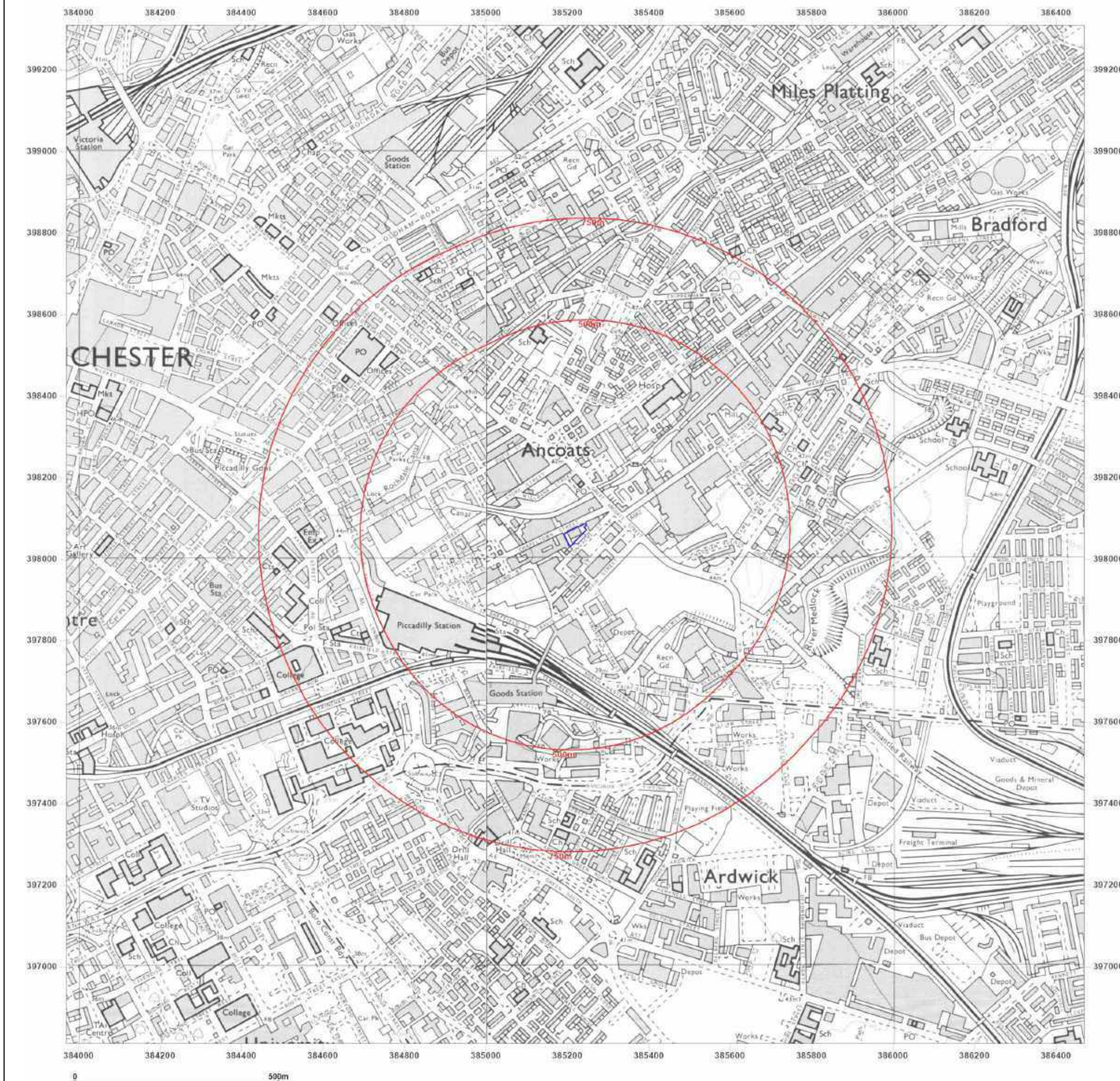


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Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1985

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
Revised 1985
Edition N/A
Copyright 1985
Levelled 1981

Surveyed 1985
Revised 1985
Edition N/A
Copyright 1985
Levelled 1981

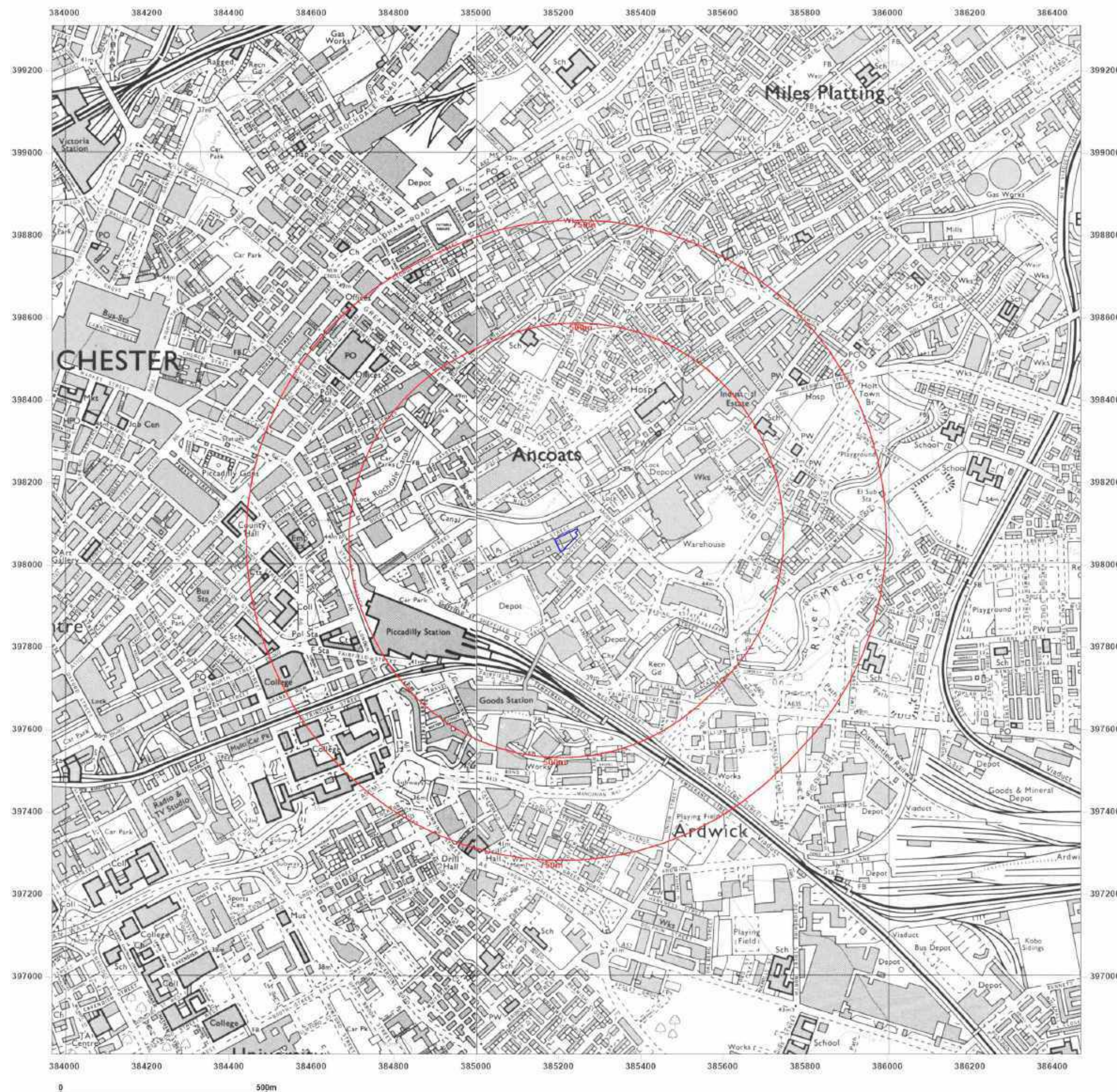


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1988-1991

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1986
Revised 1988
Edition N/A
Copyright 1988
Levelled 1981

Surveyed 1985
Revised 1991
Edition N/A
Copyright 1991
Levelled 1981

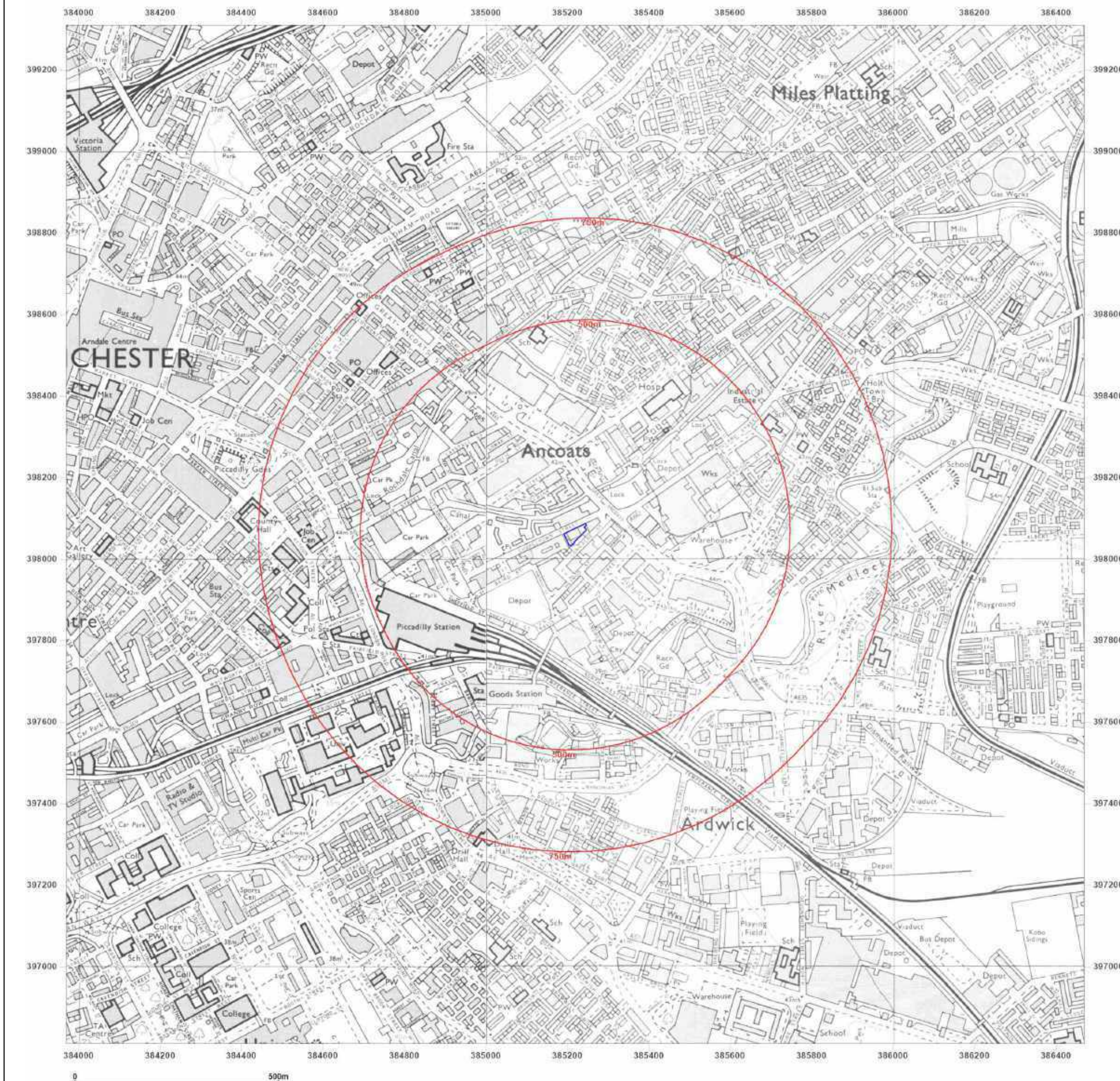


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 1994

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1986
Revised 1994
Edition N/A
Copyright 1994
Levelled 1981

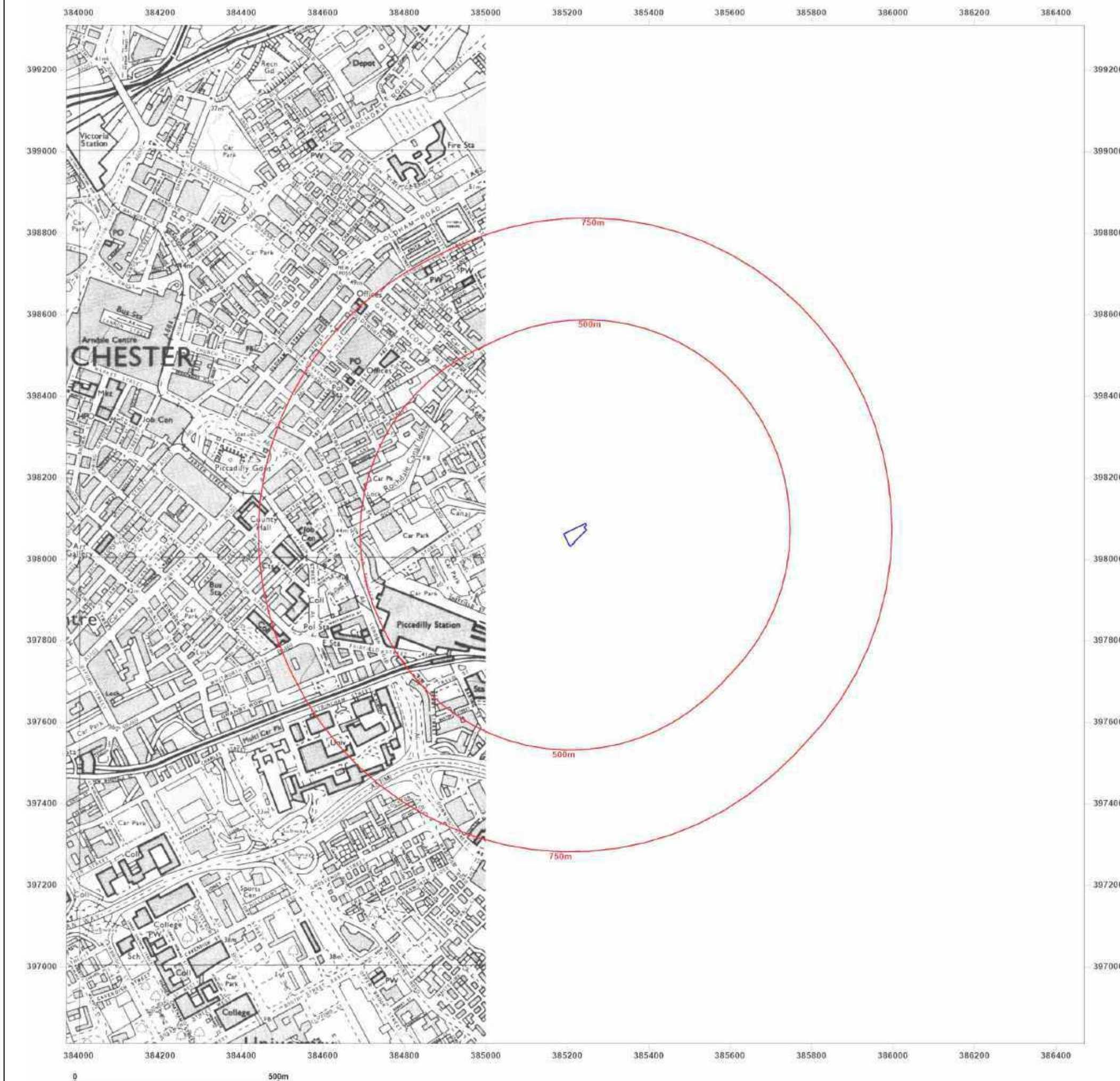


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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001



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MANCHESTER, M1 2BJ

Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010



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Client Ref: 9861G
Report Ref: HMD-424-8216408
Grid Ref: 385219, 398060

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



2021

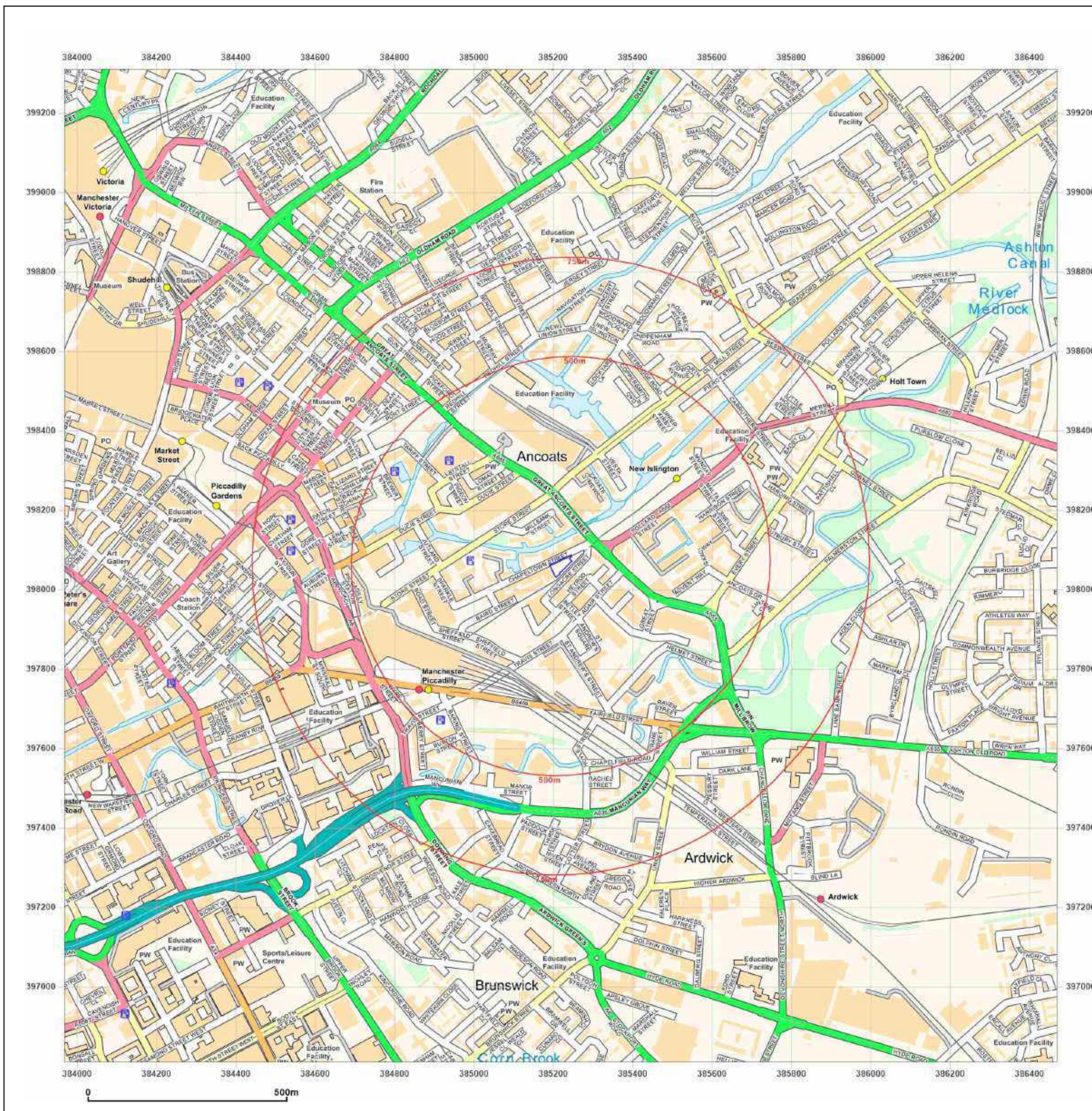


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APPENDIX 04

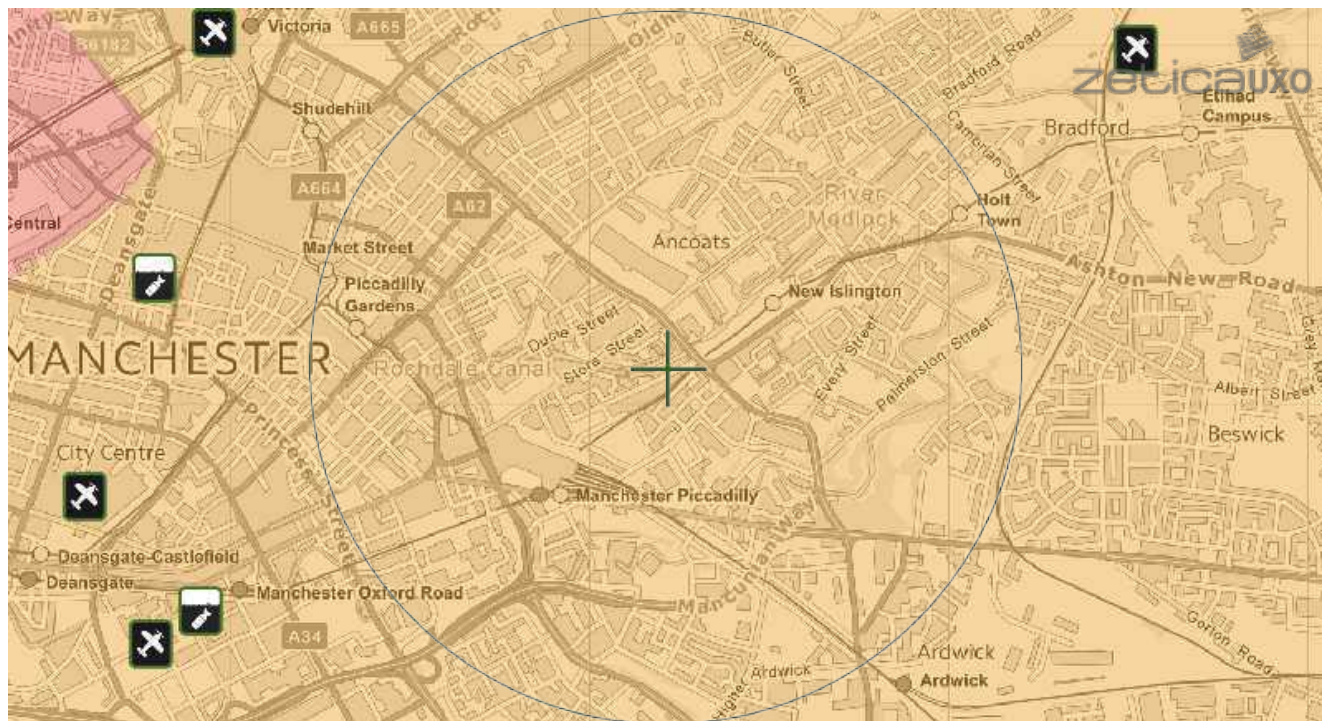
Unexploded Bomb Risk Map – Preliminary

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Location: M1 2BJ,
Map Centre: 385223,398103



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

APPENDIX 05

Qualitative Risk Assessment Guidance

Qualitative Risk Assessment Guidance

The Preliminary Contamination Risk Assessment methodology within the Phase 1 Desk Study Report is undertaken with reference to the following CIRIA guidance.

- Contaminated Land Risk Assessment - A Guide to Good Practice CIRIA C552:2001.

In practical terms, risk evaluation is undertaken in order to ascertain if potential risks are considered to be acceptable via classification following factors.

- The magnitude of the potential **consequences** (severity) of the risk occurring.
- The magnitude of the **probability** (likelihood) of the risks occurring.
- The potential consequences of contamination risks occurring at the Site should be classified in accordance with the following table which is adapted from Table 6.3 in the CIRIA guidance.

Table 1 Classification of Consequence

Classification	Definition
Severe	Short term (acute) risk to human health likely to result in 'significant harm' as defined by the <i>Environment Protection Act 1990</i> , Part IIA. Short term risk of (significant) pollution of sensitive water resource or ecosystem. Catastrophic damage to building/property. Short term risk to a particular ecosystem, or organism forming part of such an ecosystem.
Medium	Chronic damage to human health (significant harm). Pollution of sensitive water resources. A significant change in a particular ecosystem, or an organism forming part of such an ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may results in a financial loss, or expenditure to resolve. Non-permanent, easily preventable effects to human health. Easily repairable damage to buildings, structures and services.

The probability or likelihood of a risk occurring is then classified in accordance with Table 6.4 in the CIRIA Guidance which is also reproduced in Table 2 below.

Table 2 Classification of Probability

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

These classifications are then compared to indicate the risk to each pollution linkage. For each likelihood scenario, it will be assumed that a pollution linkage exists between the source and any potential receptors. The classification is not applied if no active pollution linkage is perceived to exist.

Upon classification of both the consequences and probability, the two can be compared in Table 6.5 within the guidance, in order to produce a risk category rating. The risk categories range from 'Very High Risk' to 'Very Low Risk' and should be determined for each potential pollutant linkage as oppose to each receptor or hazard as indicated above.

The matrix table is reproduced in Table 3 below.

Table 3 Consequence Vs Probability Matrix

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate / Low Risk
	Likely	High Risk	Moderate Risk	Moderate / Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate / Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate / Low Risk	Low Risk	Very Low Risk	Very Low Risk

The outcome of the Consequence vs Probability matrix should be compared to the risk definitions and likely actions required in Table 4 (Table 6.6 in CIRIA C552).

The outcome will then determine the overall risk category for the site and should form the basis for any proposed investigation work and remedial actions to be determined. The assessment is based on a qualitative approach at the initial Phase 1 Desk Study, and should be updated following the results of any subsequent ground investigation results.

Table 4 Definitions of Classified Risks and Likely Required Actions

Risk Category	Definition
Very High	There is a high probability that severe harm could arise to a designated receptor from an identified hazard OR, there is evidence that severe harm to a designated receptor is currently happening. This risk (if realised) is likely to result in a substantial liability. <u>Required Actions</u> <i>Urgent investigation (if not undertaken already) and remediation are likely to be required.</i>
High	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. <u>Required Actions</u> <i>Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.</i>
Moderate	It is possible that harm could arise to a designated receptor from an identified hazard. However, if it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is likely that the harm would be relatively mild. <i>Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.</i>
Low	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.