

245 BRISCOE LANE,
MANCHESTER

PHASE 1:
PRELIMINARY RISK ASSESSMENT

Job Number: LKC 21 1606
Date: November 2021
Client: Construction Solutions (North West)
Limited



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1 Introduction

LK Consult Ltd (LKC) has been retained to carry out a Phase 1 Preliminary Risk Assessment (PRA) for Briscoe Lane, Manchester.

In accordance with current guidance (including LCRM¹ and the National Planning Policy Framework (NPPF)²), the PRA will include a site reconnaissance, site history, geology, hydrogeology, hydrology, mineral search and a landfill search. Information gathered from the desk study and site reconnaissance will be used to develop a contamination conceptual model for the site.

In addition, the information gathered will be used to identify potential geotechnical constraints associated with the redevelopment of the site.

Based on the findings of this report, an appropriate site investigation can be derived, if required.

Site details are provided in Table 1-1. Figure 1 shows the site location and boundary. Figure 2 shows the proposed development plan.

Site Location	Located along Ten Acres Lane at the south west end of Rosebank Road. Connected to the south east of a larger warehouse located at the corner of Briscoe Lane and Ten Acres Lane. Centred at approximate National Grid Reference 387530E, 399595N.
Approximate Area	3,800m ² .
Topography	71 metres Above Ordnance Datum (AOD). Site is generally level, with the exception of the site access to the south east which slopes down towards the road.
Current Site Use	The site is split into three different sections. The southern section is used for deliveries to the warehouse. The middle section of the site contains a two-storey derelict building and a concrete yard used by employees on breaks. The northern section of the site is closed off and not currently in use.
Purpose of Report	Pre-planning.
Proposed Development	Commercial building with no soft landscaping. New extension to the existing warehouse.

Table 1-1: Summary of site details.

¹ Land Contamination Risk Management (LCRM) <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>

² "National Planning Policy Framework." The Ministry of Housing, Communities and Local Government. February 2019.

2 Historical Review

2.1 Historical Map Review

In compiling the site history, LKC consulted Envirocheck historical mapping (Appendix A) and other public domain maps / aerial photography.

Table 2-1 summarises features on site. Table 2-2 summarises potentially contaminative land uses within approximately 50m and potentially infilled features within approximate 250m.

Site Features	Location on Site	Dates Present		Comments
		From	To	
Pond	N	1848	1893	No longer present from 1894 mapping.
Avro Works (Aeroplane)	S & W	1932	Present	Continues offsite to the W. No longer annotated 'Avro Works' from 1938 mapping. Annotated 'warehouse' from 1949 mapping.
Glasshouses	S	1893	1909	No longer present by 1923 mapping.
Undifferentiated Building	N	1893	1909	Likely associated with 'Farm Yard Tavern'. No longer present from 1923 mapping.
Undifferentiated Buildings	N & Centre	1893	1909	No longer present from 1923 mapping.
Road	NW & Centre	1848	1909	No longer present by 1923 mapping.

Table 2-1: Summary of site features. Dates based on available historical map editions.

Surrounding Area Features	Distance (m)	Direction	Dates Present		Comments
			From	To	
Avro Works (Aeroplane)	Adjacent	W	1932	Present	No longer annotated 'Avro Works' from 1938 mapping. Annotated 'warehouse' from 1949 mapping. Tanks noted 84m W from 1949-1970 mapping and 224m W from 1949-1951 mapping.
Railway Line	2	S	1848	2021	Runs E-W.
Pond	12	W	1893	1923	Potentially infilled from 1932 mapping.
Pond	31	NE	1893	1923	Potentially infilled from 1932 mapping.
Cuttings then Clay Pit	81	SW	1932	1956	Potentially infilled from 1966 mapping.
Pond	82	W	1848	1923	Potentially infilled from 1932 mapping.
Pond	133	E	1848	1923	Potentially infilled from 1932 mapping.
Pond	135	N	1908	1923	Potentially infilled from 1932 mapping.
Pond	158	NE	1908	1909	Potentially infilled from 1923 mapping..
Pond	183	W	1923	1923	Potentially infilled from 1932 mapping. Becomes part of the Clay Pit.
Pond	198	NW	1848	1909	Potentially infilled from 1923 mapping.

Table 2-2: Summary of potentially contaminative features within 50m and potentially infilled features with 250m. Dates are based on available historical map editions.

Plate 2-1 shows the features noted in Table 2-1 and 2-2.

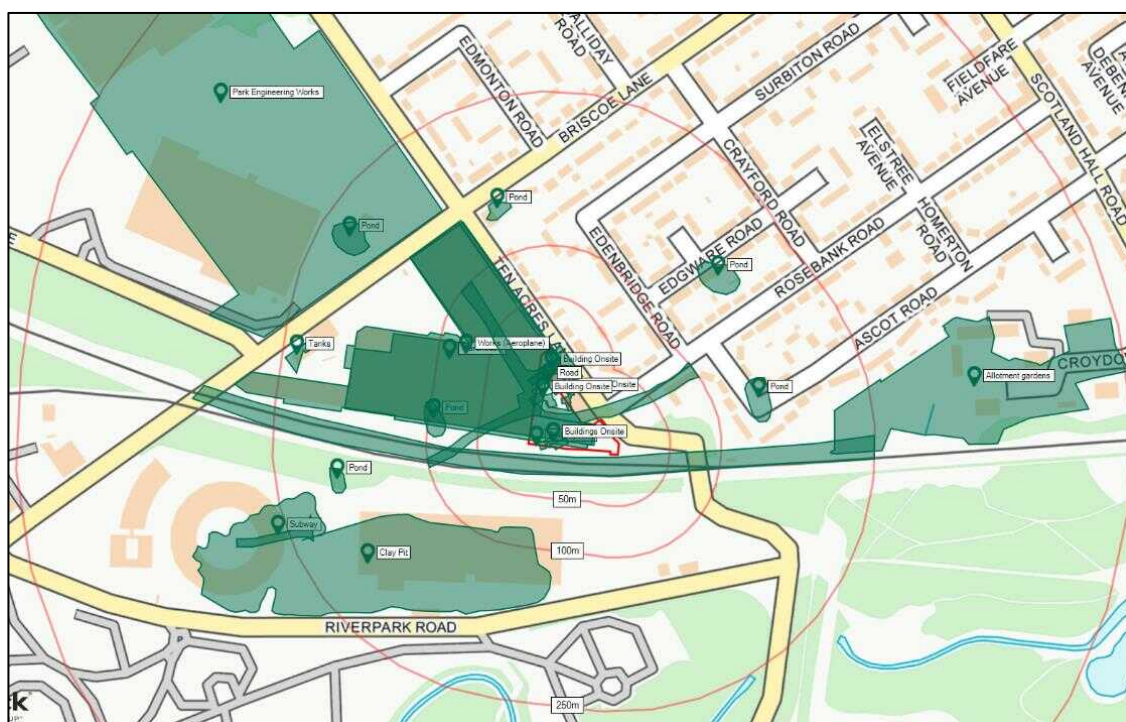


Plate 2-1: Historical features.

The 1932 mapping showing the Avro Works (aeroplane) is shown on Plate 2-2.

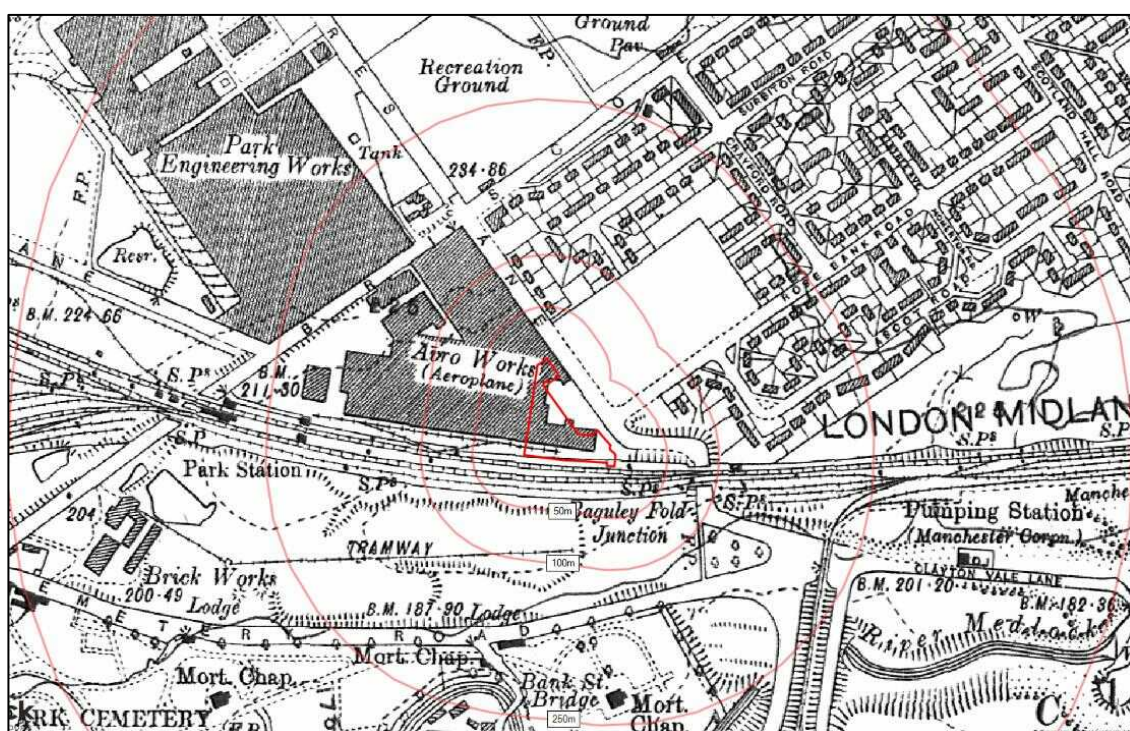


Plate 2-2: Extract from 1932 mapping.

Plate 2-3 shows a historical aerial photograph of the Avro Works in Newton Heath.



Plate 2-3: 1927 aerial photograph of Avro Works. Source: www.britainfromabove.org.uk.

2.2 Additional Information

Avro (A.V ROE and Company) moved into the Park Works extension built by construction engineers Mather and Platt at Newton Heath, Manchester in 1919³.

After the end of WWI, due to the decline in the demand for military aircrafts, Avro adapted the business through Avro 504 repairs and refitting of for civilian and commercial use. Avro also invested in car production, producing vehicles such as the Harper Runabout. Through the post war recession, in addition to car production the company produced children's toys, tin baths, billiard tables and bassinets.

In 1938 Avro received orders for construction of 1000 Bristol Blenheim at Newton Heath. Components for Ansons and Lancaster aircraft were also manufactured at the facility throughout WWII. Manufacturing of planes and components decreased at Newton Heath after the war, leading to the closure of the site on the 8th April 1947.

³ <https://www.baesystems.com/en/heritage/avro-locations>



Plate 2-4: Photograph of Avro 504 planes at Avro Newton Heath Factory.
Source: <https://www.baesystems.com/en/heritage/avro-locations>.

3 Environmental Setting

A summary of environmental settings is presented in Table 3-1, based on a review of available environmental data.

Categories ^(data sources)		Details
Geology ^{1, 2, 3}	Artificial	- Made Ground (Undivided) across the whole site.
	Superficial	- Till (Devensian).
	Bedrock	- The majority of the site: Chester Formation (sandstone). - East of the site: Collyhurst Sandstone Formation. - 1 fault in the east of the site, striking NNW-SSE with a downthrow to the SW.
	BGS Logs (<50m)	- None.
Hydro-geology ¹	Aquifer Designation	- Superficial - Majority of the site: Secondary Undifferentiated. - S of site: Secondary A Aquifer.
		- Bedrock - Principal Aquifer.
	Source Protection Zone (SPZ)	- Site not within an SPZ.
	Groundwater Abstractions (100m)	- None.
Hydrology ¹	Surface Water Courses (100m)	- None.
	Flooding risk	- Flood Zone 1.
	Surface Water Abstractions (100m)	- None.
	Discharge Consents	- None.
	Pollution Incidents	- None.
Minerals & Mining ^{1,4}	Coal Mining	- Within a Coal Reporting Area. - Not within a Development High Risk Area.
	Surface Mineral Extractions (250m)	- Name: Philips Park Brick Works. - Location: 170m southwest. - Commodity: Common clay and shale.
	Cheshire Brine Compensation District	- Not within Compensation District. - Not within Consultation Area.
	Non-Coal Mining Area	- Not within an area of conclusive metalliferous mining.
Ground Stability ¹	Collapsible Ground	- Very low hazard.
	Compressible Ground	- Very low hazard.
	Ground Dissolution	- No hazard.
	Landslide	- Very low hazard.
	Running Sand	- Very low hazard.
	Shrinking / Swelling Clay	- Very low hazard.

Table 3-1: Summary of the environmental setting.

Notes: Distance in brackets is the distance from site that features are included. Where no distance given, features relate to on site only.

Data Sources:

1 Envirocheck Report (Appendix A & B).

2 BGS Sheet 85 1:50,000.

3 BGS GeoIndex <http://mapapps2.bgs.ac.uk/geoindex/home.html>

4 The Coal Authority Web Mapping Services (WMS) /

Interactive Map Viewer <http://coal.decc.gov.uk/en/coal/cms/publications/data/map/map.aspx>

Categories ^(data sources)		Details
Landfill Sites (250m) ¹	Known / Registered	- 80m SE – 'Clayton Vale Power Station'. Deposited waste included inert, industrial, commercial, household, special waste and liquid sludge' Operational 1965-1968. - 93m SE – 'Clayton Vale'. Deposited waste included inert and industrial waste. Operational from 1901- Unknown - 146m E – 'Clayton Vale Power Station'. Deposited waste included inert and industrial waste'. Operational 1901-1980.
	Potentially Infilled Land (non-water and water), based on Envirocheck Report	- 12no. features within 250m of the site.
	Potentially infilled sites, based on LKC historical review	- 11no. features: See Table 2-1 and 2-2.
Radon Potential ¹		- 1-3% of homes above Action Level. No protective measures are necessary in the construction of new dwellings or extensions.
Designated Sites (50m) ¹		- None.
Contemporary Trade Directory (50m) ¹		- None.
Fuel Station Entries (50m) ¹		- None.
Unexploded Ordnance Risk (UXO)	Zetica Risk Map ⁵	- Moderate.
	Historical / Current Military Activity	- Identified on site-site utilised to construct aircraft.
	Pre-Desk Study Assessment ⁵	- Detailed UXO desk study required.

Table 3-1 (cont.): Summary of the environmental setting.

Notes: Distance in brackets is the distance from site that features are included. Where no distance given, features relate to on site only.

Data Sources:

1 Envirocheck Report (Appendix A & B).

5 Zetica UXO Unexploded Bomb Risk Map and Pre-Desk Study Assessment (Appendix C).

4 Site Reconnaissance

A site reconnaissance was carried out on 15th October 2021.

Relevant features identified on site are summarised below:

- The site is split into three different sections. The southern section is used as access for deliveries to the warehouse. The central section contains a two-storey derelict building and a concrete yard which is used by employees on breaks. The north eastern of the site is divided into two sections by a wall; north of the wall contains the old loading bay with concrete groundcover, and south of the wall contains the same groundcover but with heavily overgrown vegetation.
- No obvious signs of contamination were identified apart from large amounts of fly tipped bricks, plastic and timber across the site.
- The south of the site is predominantly surfaced in concrete, with paving blocks located near to the warehouse and two storey building. North of the site is surfaced in concrete in the accessible areas and the central section is surfaced in a combination of concrete, cobbles and paving blocks.
- Ground elevation is relatively flat across the site, apart from a small concrete ledge elevated 0.2-0.3m along half of the southern fence line.
- Small cracks in the southern wall indicates potential ground movement.
- Security on site includes security guard, padlocked gates, CCTV and barbed wire fencing around the perimeter. The site is accessible by notifying the security guard, who holds all keys.
- A borehole monitoring well was located in the south east of the site indicating a previous site investigation.
- Evidence of underground services across the site have been identified including manhole covers. The central building containing an electricity warning sign; no cables were identified at the surface. Services plans indicate this is an electricity substation.
- Scrub vegetation present in the north of the site.

The surrounding area comprises a large warehouse to the west, trainline to the south of the site and residential housing to the north and east.

Relevant photographs are provided in Plate 4-1.



Plate 4-1: Site photographs.

	
Photograph 3: Existing building in the centre of the site.	Photograph 4: Groundcover in the centre of the site.
	
Photograph 5: View of the inaccessible area in the north.	Photograph 6: View of groundcover and separating wall in north of site.
	
Photograph 7: View of the north of the site.	Photograph 8: View of groundcover and the wall separating the north and central sectors of the site.

Plate 4-1 (continued): Site photographs.

5 Preliminary Conceptual Model

5.1 Introduction

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

The Sections below are therefore divided into potential contaminant, potential pathway and potential receptor as described in LCRM⁴, on the premise that, if there is no pollutant linkage, then there will be no risk to the receptor. The final Section provides an assessment of the potential pollutant linkages that may still be present on the site if redevelopment were to occur.

5.2 Potential Contaminants

Potential viable contamination sources are detailed in Table 5-1. These are split into onsite sources, offsite sources and underlying geology.

Potential Source	Contaminants
On Site	
Aeroplane manufacturer	- Metals and metalloid compounds including cyanide, acids and alkalis, organic compounds including chlorinated and non chlorinated solvents,, reinforced plastics, solvents, oils and lubricants, polychlorinated biphenyls (PCBs), asbestos, fibreglass, paints, adhesives, sealants, fuels, radium luminescing paints used on dials ⁵ containing radioactive material. ⁶
Car manufacturer	- Metals, metalloids and compounds, inorganic ions, acids, alkalis, fuels and other oils, non-chlorinated solvents, chlorinated solvents, other organic materials, PCBs, asbestos ⁷ .
Electricity substation (if pre 1980s)	- Unknown age of electricity substation. - Polychlorinated biphenyl (PCBs) and transistor oils.
Deep Made Ground below some or all of the site (e.g. infilled ponds, former cellars, recorded made ground onsite).	- Demolition rubble, ash and clinker: Asbestos Containing Material (ACM), heavy metals, sulphates, PAHs ⁸ . - Other fill material sources: Unknown organic / inorganic compounds. - If organic / putrescible material: Hazardous gas (principally carbon dioxide and methane).
Yard	- Assuming hard stood surface and no signs of spills / leaks on the site surface: No significant contamination source anticipated.
Former Road	- Hydrocarbons: Bitumen and road planings.

Table 5-1: Potential contamination sources.

⁴ Land Contamination Risk Management (LCRM) <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>

⁵ DEFRA (2006). Industry Profile-Industrial Activities which have used Materials Containing Radioactivity.

⁶ Department of the Environment Industry Profile – Engineering Works-Aircraft Manufacture (1995).

⁷ Department of the Environment Industry Profile – Engineering Works-Vehicle Manufacture (1995).

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

Surrounding Area	
Aeroplane manufacturer	- See contaminants listed above.
Railway land (including railway line / sidings and goods yard).	- Fuels, oils, PAHs, ethylene glycol (antifreeze), creosote, solvents, herbicides (including atrazine and simazine), heavy metals (such as vanadium), sulphate, phenols and asbestos ⁹ .
Landfills / offsite potentially infilled features within 250m	- Given size, distance and age of features, there is considered to be a source of hazardous gas (principally carbon dioxide and methane).

Table 5-1 (continued): Potential contamination sources.

5.3 Potential Receptors

Potential receptors are detailed in Table 5-2.

Receptors	
Human Health	- Future site users (visitors and site workers). - Offsite land users. - As the proposed development is for industrial use, the most sensitive receptors (children) have not been included in this assessment.
Controlled Waters	- Principal Aquifer (Bedrock). - Secondary Undifferentiated & A Aquifers (Superficial). - No surface water within influencing distance.
Buildings and structures.	
Potable water pipes.	

Table 5-2: Potential receptors.

5.4 Potential Pathways

Potential pathways are detailed in Table 5-3.

Pathways		
Soil	Human Health ¹⁰ (commercial land use with no soft landscaping)	- Inhalation of vapours outside. - Inhalation of vapours inside.
		- Omitted: ingestion of soil, ingestion of soil-derived indoor dust, dermal contact with soil, dermal contact with soil-derived indoor dust, inhalation of soil-derived outdoor dust, inhalation of soil-derived indoor dust, ingestion of contaminated vegetables and ingestion of soil attached to vegetables.
		- Windblown dust and fibres to adjacent receptors.
		- Direct contact with receptors (building foundations, services).
Water		- Surface run-off over impermeable surface.
		- Site is predominantly hardstood; therefore, infiltration is likely to be limited.
Water and Gas		- Migration through potentially permeable strata and preferential pathways. - Superficial (Till) likely to be low permeability. - Bedrock (sandstone) likely to be relatively permeable. - Preferential pathways: fault on site and services.
Gas		- Migration into buildings (e.g. via services) and accumulation of gases in confined spaces (potentially causing explosion if methane is present).

Table 5-3: Potential pathways.

⁹ Department of the Environment Industry Profile – Railway Land (1995).

¹⁰ EA (2008). "Updated Technical Background to the CLEA Model". Science Report – SC050021/SR3.

5.5 Preliminary Contamination Conceptual Model

The Preliminary Contamination Conceptual Model is illustrated in Table 5-4 and has identified eight generic potential pollutant linkages.

Each linkage is described along with an assessment of the risk based upon guidance on probabilities and consequences outlined in CIRIA C552¹¹.

In order to assess the potential risk for each pollutant linkage, an assessment of the magnitude of the potential consequence (severity) of the risk occurring and the magnitude of the probability (likelihood) of the risk occurring has been considered and classified. This is based on the guidance provided in CIRIA C552 and further details including a risk matrix is provided in Appendix E.

Where LKC identified a low to very low risk, targeted or low density intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk, intrusive investigation work or precautionary remedial measures will be recommended.

It should be noted that there may be risk from short term exposure from contaminated soil to site workers. The Preliminary Contamination Conceptual Model deals with long term exposure to key receptors. Acute risks can be easily mitigated by good environmental management of the site during site works. Standard health and safety precautions (as per HSE guidance¹²) should be adopted by all workers involved with site enabling and construction works. Therefore, this receptor is not considered in the contamination conceptual model.

¹¹ CIRIA (2001). "Contaminated Land Risk Assessment: A Guide to Good Practice". C552.

¹² HSE (1991). "Protection of Workers and the General Public During Development of Contaminated Land". London HMSO.

PL	Pathway	Receptor	Contaminants of Concern (CoC)	Probability	Consequence	Risk	Recommendations
1	- No viable pathways (dermal inhalation, ingestion).	- Future site users. - Offsite receptors.	- ACMs, heavy metals, PAHs, hydrocarbons, PCBs and other inorganic and organic contaminants.	-	-	-	No viable human health pathways as no soft landscaping. No pollutant linkage therefore no further assessment required.
2	- Inhalation of vapours. - Migration via permeable strata and preferential pathways.	- Future site users. - Offsite receptors.	- Volatile contaminants (TPHCWG, SVOCs, VOCs).	Likely (given site history, site conditions and proposed end use)	Medium	Moderate	Intrusive investigation required, to include PID testing. Soil analysis of CoC, subject to ground conditions encountered and PID testing.
3	- Inhalation of gas. - Migration via permeable strata and preferential pathways. - Explosion in confined spaces. - Exposure to radon.	- Future site users. - Buildings. - Offsite land users.	- Ground / hazardous gas (carbon dioxide, methane).	Likely (given viable gas source and viable pathway)	Severe	High	Intrusive investigation to confirm ground conditions. If significant gas source and pathway identified, gas monitoring required.
			- Radon	Unlikely (as 1-3% of homes above action level)	Medium	Low	(1-3%) No protective measures are necessary in the construction of new dwellings or extensions.
4	- Surface run-off. - Migration via permeable strata and preferential pathways. - Perched waters migration.	- Groundwater: Secondary Undifferentiated, Secondary A and Principal Aquifers.	- Mobile contaminants such as metals, PAHs, hydrocarbons, volatile compounds.	Likely (mobile contamination anticipated with possible pathway)	Medium	Moderate	Intrusive investigation required. Groundwater sampling, subject to ground conditions encountered. Analysis of CoC.
5	- Sulphate attack on concrete.	- Building structure.	- Sulphate.	Likely (given site history, site conditions, geology and direct contact / pathway)	Mild	Moderate / Low (moderate assumed until ground conditions confirmed)	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
6	- Ingestion of tainted water supply.	- Future site users. - Water pipes.	- Organic contaminants such as petroleum hydrocarbons, naphthalene, volatile compounds.	Low Likelihood (although some contamination may be present, no new water pipe connections anticipated)	Medium	Moderate / Low (moderate risk assumed until ground conditions confirmed)	Low density intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
7	- Direct contact (plant uptake).	- Flora.	- Phytotoxic contaminants such as heavy metals.	-	-	-	No further assessment required.
8	- Exposure to gamma radiation.	- Future site users.	- Radium 226.	Low likelihood	Medium	Moderate / Low (moderate assumed until ground conditions confirmed)	Radiological testing / scan of soil beneath hardstanding required.

Table 5-4: Preliminary Contamination Conceptual Model.

Notes: PL = Pollutant Linkage. Contaminant of Concern (CoC) - See Table 5-1 for contamination sources. Site conditions based on observations during site reconnaissance.

6 Preliminary Geotechnical Risk Assessment

Table 6-1 summarises the possible geotechnical constraints of the site, based on the site history, environmental settings and site reconnaissance. Investigation work will be required to confirm the risks and provide a detailed geotechnical assessment and foundation design.

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	Site is relatively flat. No significant slope stability risk anticipated. No further assessment required.
Envirocheck Ground Stability Hazards	No to low hazard identified. No further action required.
Made Ground	Unknown depth and constituent of made ground across the site. Previous buildings on site indicate potential for deep made ground. Possible in-ground structures from previous developments. Unlikely to be a suitable founding strata unless engineering work is undertaken.
Superficial	Unknown strength of soils for foundation design. Till (Devensian) deposited across the whole site.
Bedrock	Likely to be a suitable founding strata. Unknown depth to bedrock.
Groundwater	Unknown depth and variability of groundwater.
Plasticity	Plasticity of clay deposits should be confirmed, particularly where trees are present or proposed, to identify the shrink / swell risk.
Sulphate	Unknown sulphate content of the made ground and natural.
Road / Pavement Design	Unknown CBR values for footpath and road design.

Table 6-1: Summary of geotechnical constraints.

7 Summary Conclusions and Recommendations

7.1 Summary Conclusions

Table 7-1 summarises the site details, historical review, environmental settings and site reconnaissance.

Current Site Use	Current site uses are for deliveries (southern area), staff members on break (central area) and certain areas are unused (northern area).
Proposed Development	Commercial building with no soft landscaping. New extension to the existing warehouse.
Main Historical Features	Onsite: warehouse, works (aeroplane), road and multiple buildings onsite. Surrounding Area: aeroplane works, railway line, clay pit, ponds.
Geology / Hydrogeology	Artificial: Made Ground (Undivided) across the whole site. Superficial: Till (Devensian), Secondary A & Undifferentiated Superficial Aquifer. Bedrock: Chester Formation (Sandstone), east of the site contains Collyhurst Sandstone Formation. Principal Bedrock Aquifer. One fault located in east of site, striking NNW-SSE with a downthrow to the SW.
Landfills / Infilled Ground	3no. known landfills and potentially infilled ground identified.
Site Walkover	The site is covered in relatively poor condition concrete hardstanding, current site uses include access for deliveries and staff breaks with some of the north of the site closed off for access. Ground elevation is consistent throughout and the perimeter is enclosed by a stone wall and metal fencing with barbed wire and security cameras.

Table 7-1: Summary of site details, historical review, environmental settings and site reconnaissance.

A preliminary contamination conceptual model has been produced by LKC, which is summarised in Table 7-2.

Pollutant Linkage		Risk	Recommendations
PL1: Contaminants posing a risk to future site users via dermal contact, ingestion and inhalation (of soil, dust, fibres).	ACM, heavy metals, PAHs, Petroleum hydrocarbons, PCBs	-	Site is proposed to be all hardstood, therefore no pollutant linkage exists.
PL2: Volatile contaminants posing a risk to future site users via the inhalation of vapours.		Moderate	Intrusive investigation required, to include PID testing. Soil analysis of CoC, subject to ground conditions encountered and PID testing.
PL3: Gas posing a risk to buildings and future site users via the migration of gas into building causing explosion and asphyxiation.	Carbon dioxide & methane	High	Intrusive investigation to confirm ground conditions. If significant gas source and pathway identified, gas monitoring required.
	Radon	Low	(1-3%) No protective measures are necessary in the construction of new dwellings or extensions.
PL4: Mobile contamination posing a risk to controlled waters via the migration through permeable strata.		Moderate	Low density intrusive investigation required. Groundwater sampling, subject to ground conditions encountered. Analysis of CoC.

Table 7-2: Summary risk table.

Where moderate / low risk had been identified, the assumed risk is shown in bold.

Pollutant Linkage	Risk	Recommendations
PL5: Sulphate posing a risk to building via direct contact (sulphate attack).	Moderate / Low	Intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
PL6: Organic contaminants posing a risk to water pipes.	Moderate / Low	Low density intrusive investigation required. Soil analysis of CoC, subject to ground conditions encountered.
PL7: Phytotoxic metals posing a risk to flora via root uptake.	-	Site is proposed to be all hardstood, therefore no pollutant linkage exists.
PL8: Exposure to radioactivity materials.	Moderate / Low	Radiological survey / scan of soils beneath hardstanding required.

Table 7-2: Summary risk table.

Where moderate / low risk had been identified, the assumed risk is shown in bold.

A preliminary geotechnical assessment has been carried out by LKC. Table 7-3 summarises the geotechnical constraints.

Coal Mining	Site is not within a Development High Risk Area. No further assessment required.
Slope Stability	Site is relatively flat. No significant slope stability risk is anticipated. No further assessment required.
Made Ground	Unknown depth and constituent of made ground across the site. Possible in ground structures from previous developments.
Superficial	Unknown strength of soils for foundation design. Till (Devensian) anticipated below the site.
Bedrock	Unknown depth to bedrock.
Groundwater	Unknown depth and variability of groundwater.
Plasticity	Plasticity of clay deposits should be confirmed if found on site.
Sulphate	Unknown sulphate content of the made ground and natural.
Road / Pavement Design	Unknown CBR values for footpath and road design should be calculated.

Table 7-3: Summary of geotechnical constraints.

7.2 Recommendations

Recommendations are provided in Table 7-4.

Contamination status	There is sufficient information on the potential contaminative status of the site to allow conditional approval of a planning application, based on the proposed end use detailed in the PRA.
Further assessment recommendations	Phase 2 intrusive investigation required. Phase 2 investigation to be carried out in line with current guidance, including BS10175 ¹³ , BS5930 ¹⁴ CIRIA C665 ¹⁵ , RB17 ¹⁶ and BS8485 ¹⁷ . 'Detailed investigation': 1 sample per 10-25m square centres. Plus targeted investigation locations in areas of concern (contamination and geotechnical). To be agreed with the local authority.
Type of investigation work	Boreholes and / or trial pits.

Table 7-4: Recommendations.

¹³ British Standard (2017). "Investigation of Potentially Contaminated Sites – Code of Practice". BS10175:2017.

¹⁴ British Standard (2015). "Code of Practice for Ground Investigations". BS5930:2015.

¹⁵ CIRIA (2007). "Assessing Risks Posed by Hazardous Ground Gases to Buildings". CIRIA C665.

¹⁶ CL:AIRE Research Bulletin RB17 (November 2012) "A Pragmatic Approach to Ground Gas Risk Assessment".

¹⁷ BSI (2015). "Code of Practice for the Design of Protective Measures for Methane and Carbon Dioxide Ground Gases for New Buildings". BS8485:2015.

PL 2, 5, 6	Intrusive investigation work recommended to confirm ground conditions across the site. Testing of contaminants of concern based on preliminary conceptual model and field observations (PID tests and visual / olfactory evidence).
PL 3	Gas monitoring: monitoring wells to be installed in boreholes, monitoring frequency and period subject to anticipated risk.
PL 4	Groundwater sampling. Groundwater samples to be collected from monitoring wells and tested for contaminants of concern based on preliminary conceptual model and ground conditions encountered.
PL8	Radiological survey required as the site was utilised to dismantle aircraft pre 1950s. Radioactivity material present in luminous dials. Discussion should be had with the Local Authority regarding type of survey required.
Reporting	Information from the above can be used to carry out a contamination and geotechnical assessment and provide a remediation strategy for the site.

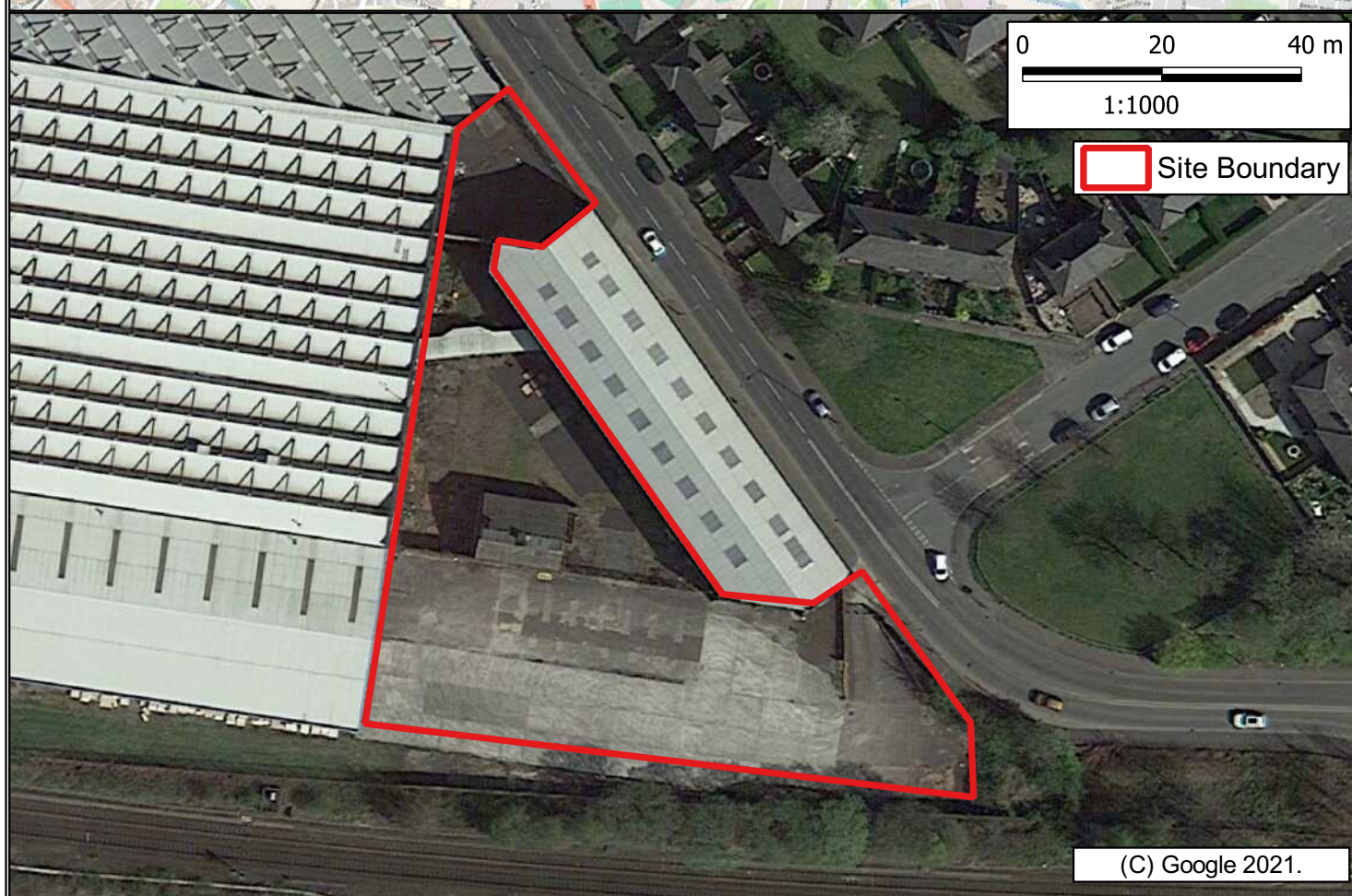
Table 7-4 (continued): Recommendations.

Further Considerations are summarised in Table 7-5.

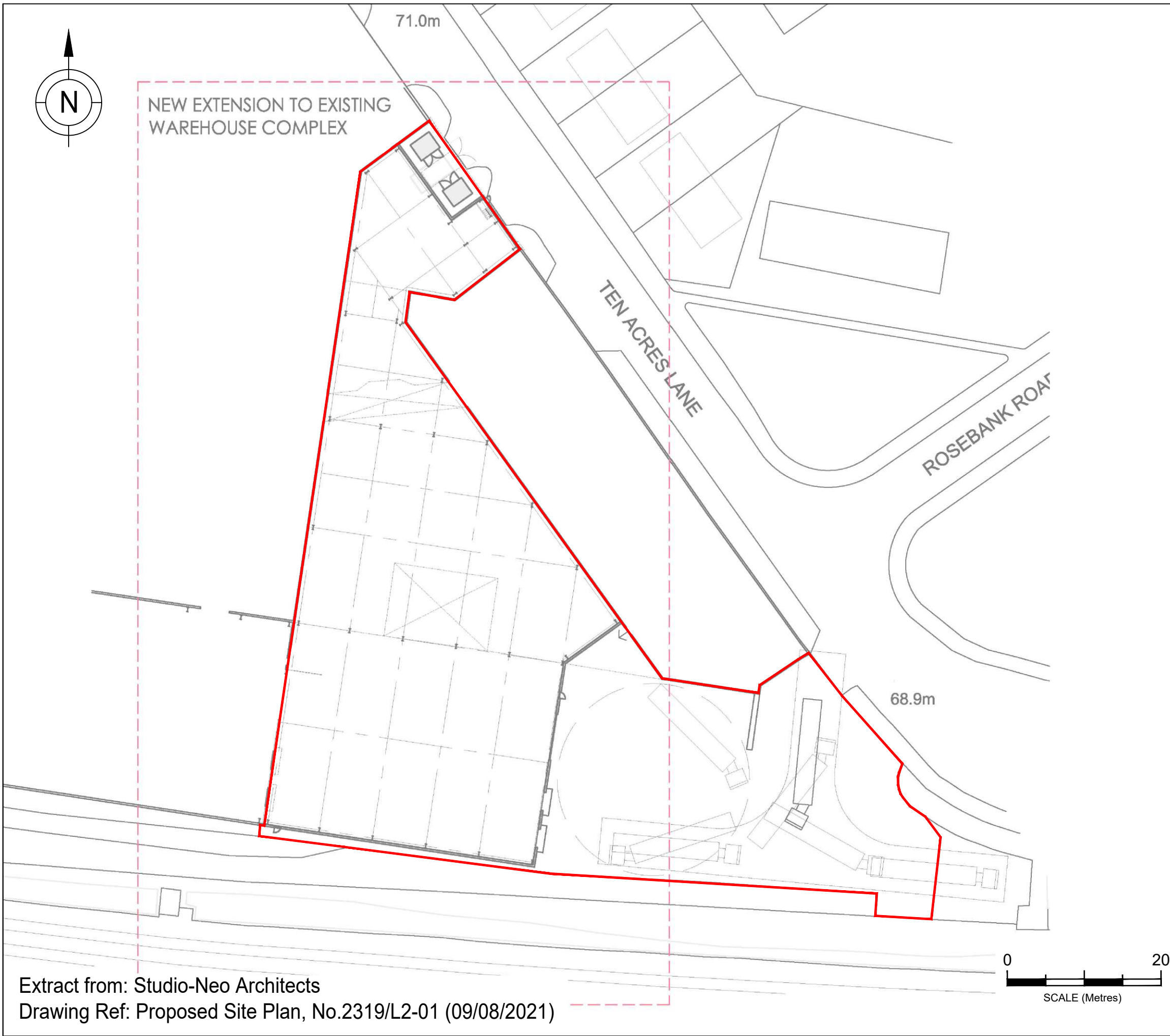
Unexploded Ordnance	A moderate risk from unexploded ordnance (UXO) has been identified from UXO bomb risk mapping and a preliminary desk study assessment. A detailed UXO desk study has been carried out to confirm the risk (see Appendix E). The detailed desk study and risk assessment confirms a low risk for the site.
Asbestos	Even though no asbestos was identified externally on the existing buildings, given the age, there may be areas inside that have Asbestos Containing Materials (ACMs). Therefore, we would advise that a Major Refurbishment Asbestos Survey is undertaken prior to demolition by a professional contractor. The LK Group have a designated Asbestos Department that would be happy to advise you on the appropriate steps to take in order to have the building suitably surveyed.

Table 7-5: Further considerations.

Figures



Client: Construction Solutions				Title: Site Location & Boundary Plan			
Site: 245 Briscoe Lane, Manchester				Scale (see scale bar): 1:25,000 & 1:1,000 @ A4			
Job No.: LKC 21 1606	Drawn By: MP	Checked By: CB	Drawn: October 2021	Figure: 1	Revision:		



KEY

Site Boundary

Sampling Locations and features annotated by LK Consult Ltd are approximate and are based upon observed measurements unless otherwise stated. Do not scale from this drawing and work from marked dimensions only. All dimensions and features should be confirmed on site by the Contractor. Where this drawing includes information provided to LK Consult Ltd by others, LK Consult Ltd gives no warranty, representation or assurance as to the accuracy of such information.



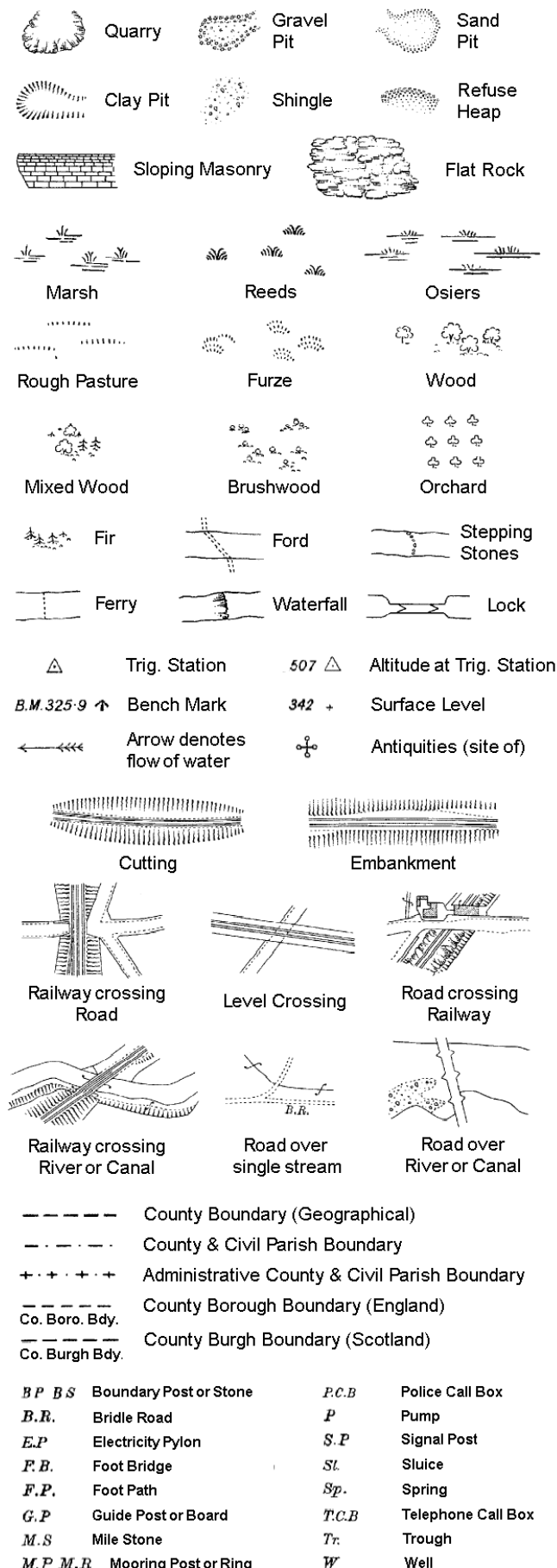
Client: Construction Solutions			
Site: 245 Briscoe Lane, Manchester			
Title: Proposed Development Plan			
Job No.: LKC 21 1606	Scale (See Scale Bar): 1:500 @ A3	Figure: 2	Revision:
Drawn By: AC	Checked By: MP	Drawn: Nov 2021	

Appendix A

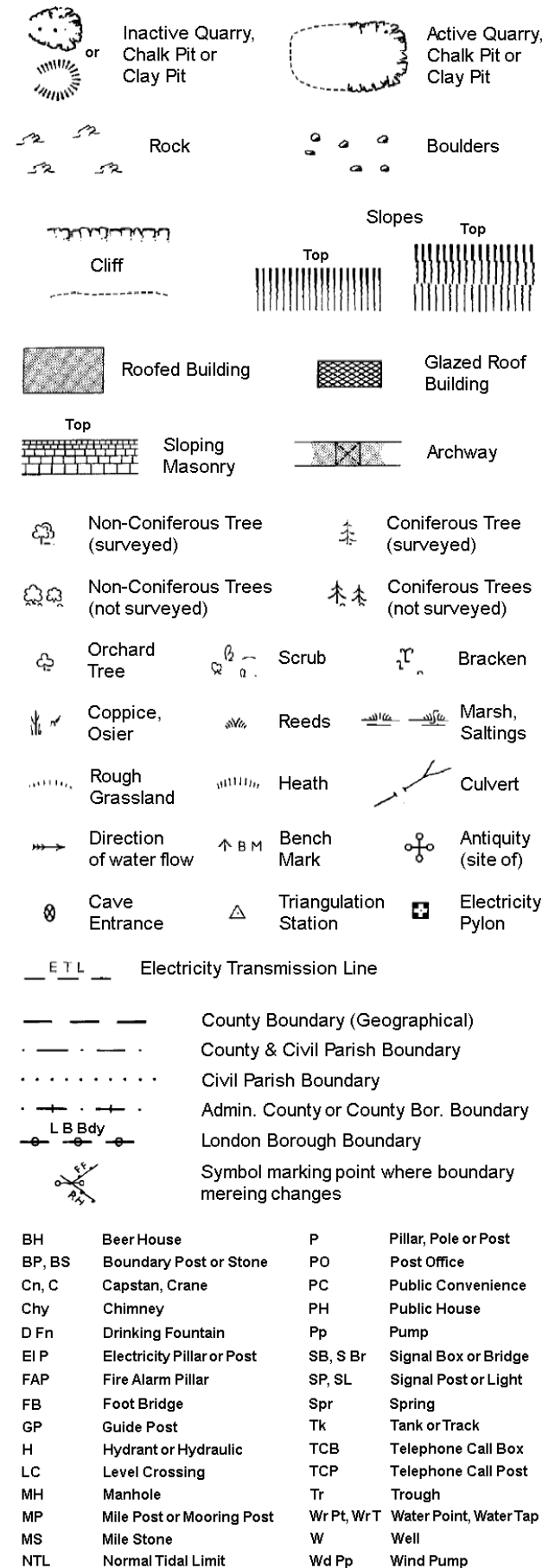
Historical Maps

Historical Mapping Legends

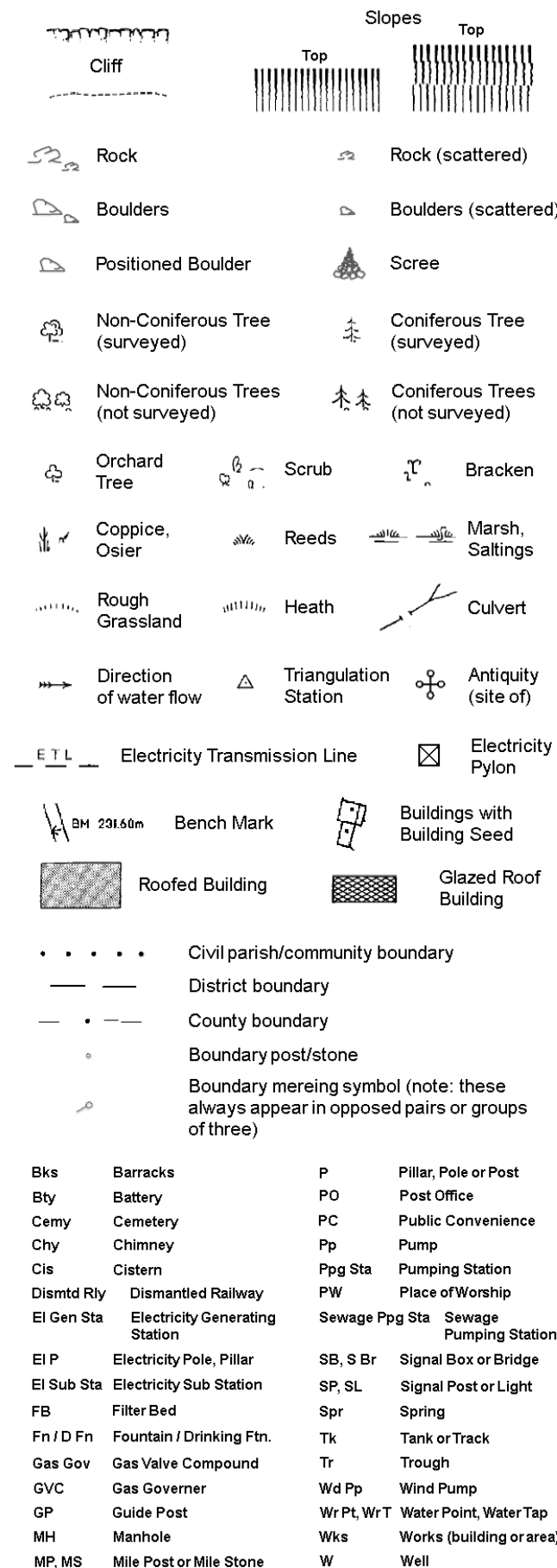
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

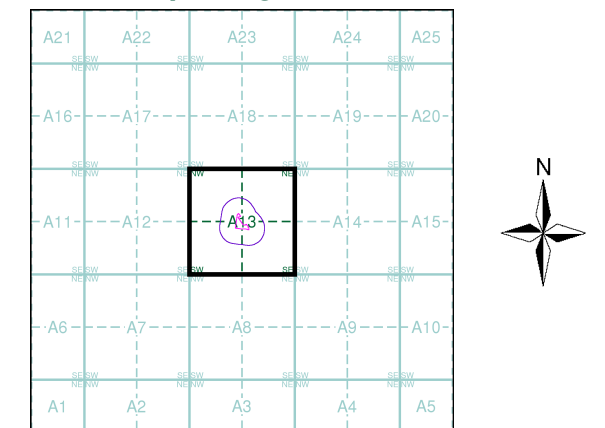


GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1931 - 1932	4
Ordnance Survey Plan	1:1,250	1948 - 1949	5
Ordnance Survey Plan	1:2,500	1951	6
Ordnance Survey Plan	1:1,250	1966	7
Ordnance Survey Plan	1:2,500	1970	8
Additional SIMs	1:1,250	1984 - 1991	9
Additional SIMs	1:1,250	1987	10
Large-Scale National Grid Data	1:1,250	1992	11
Historical Aerial Photography	1:2,500	2000	12

Historical Map - Segment A13



Order Details

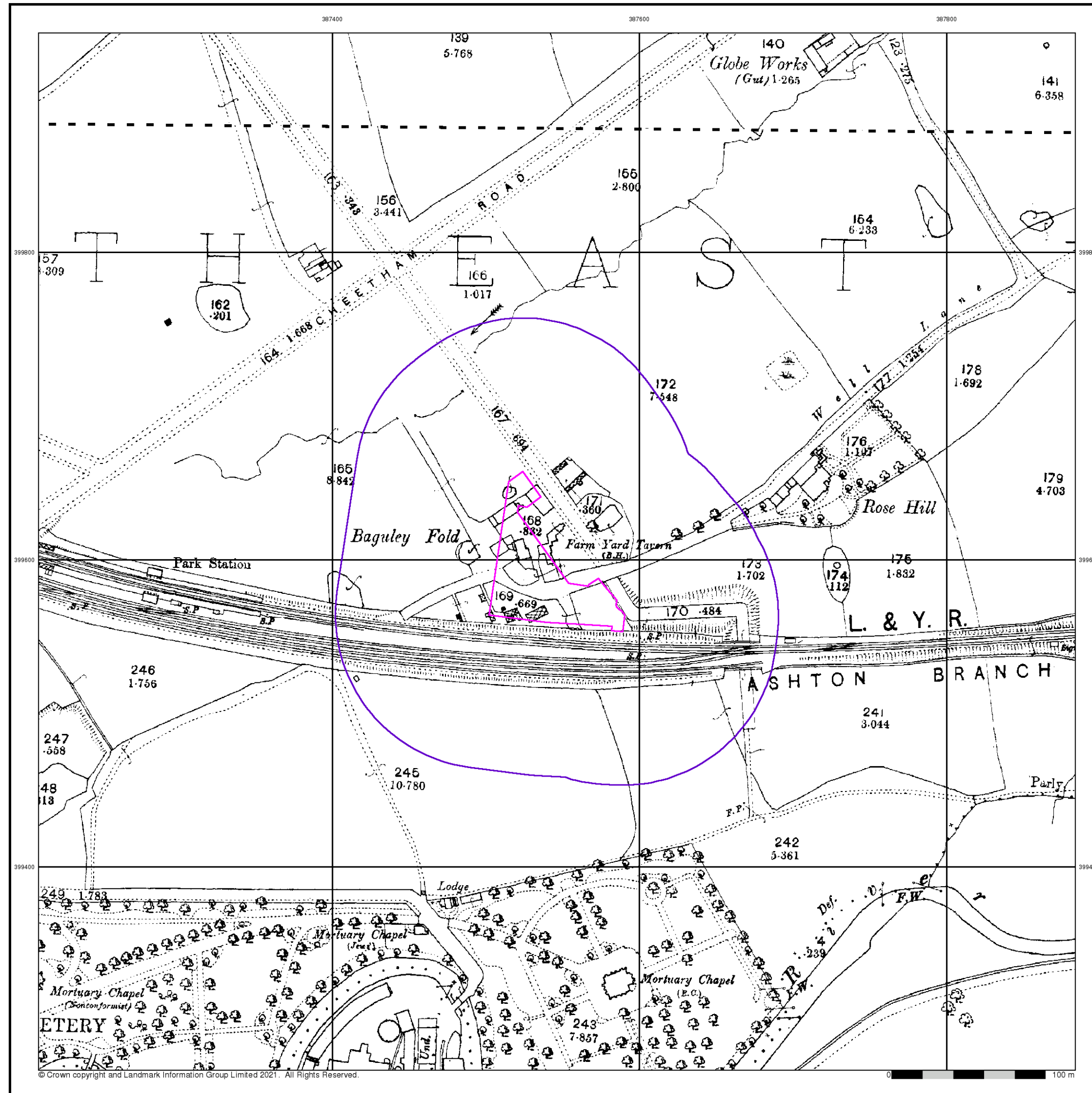
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

Whispering Smith Ltd, 245 Briscoe Lane, MANCHESTER, M40 2ST



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Fax: 0844 844 9951
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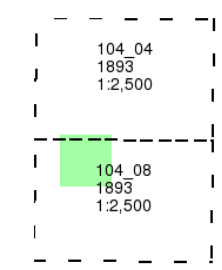
Lancashire And Furness

Published 1893

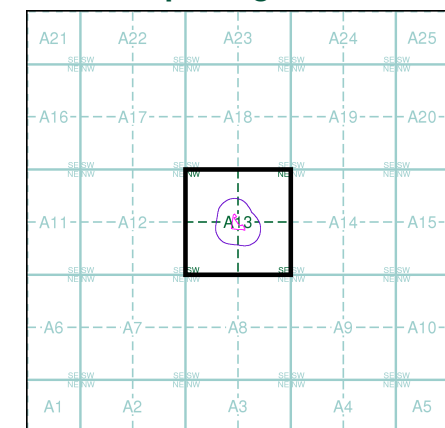
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

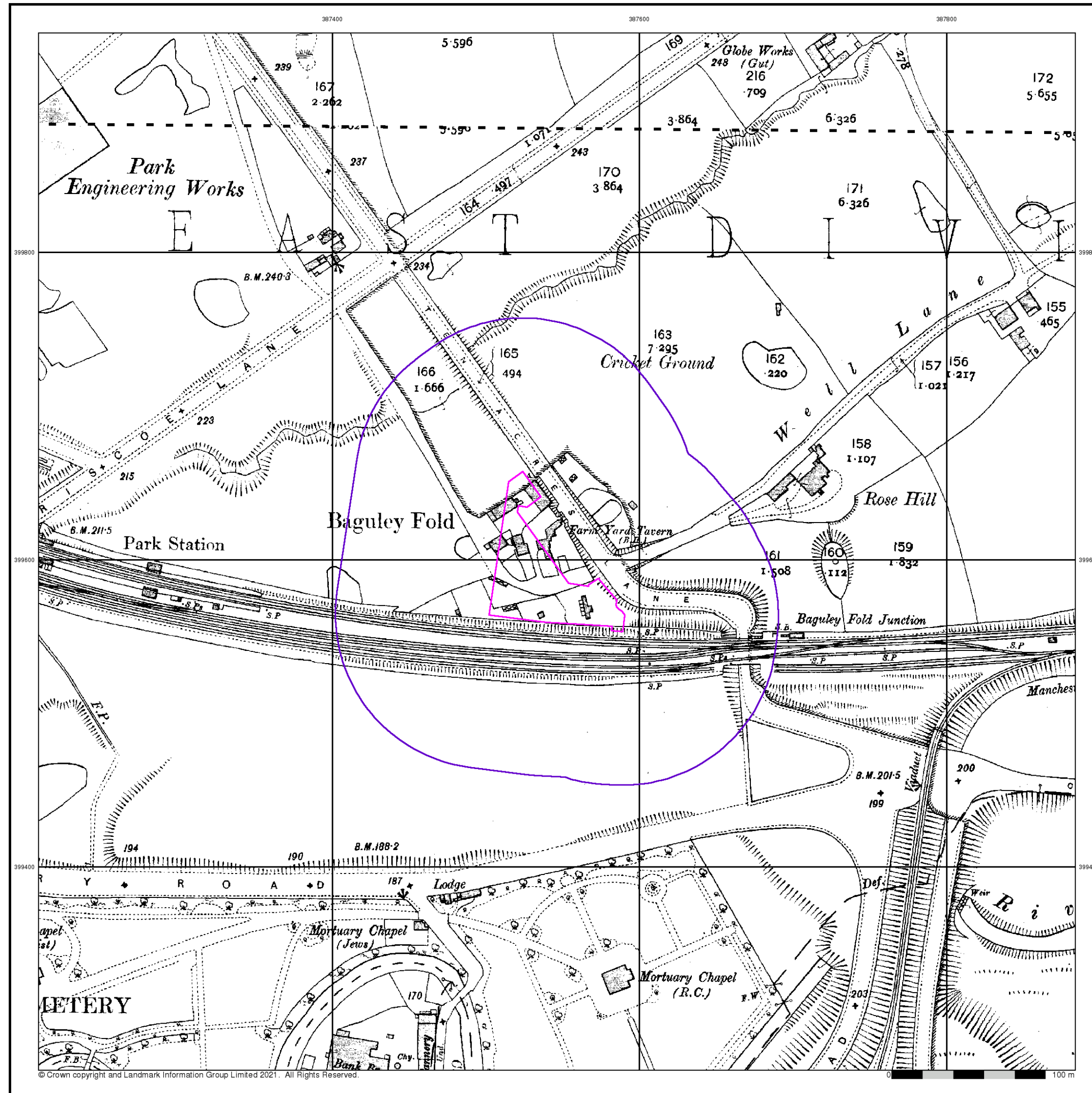
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

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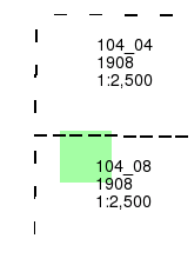
Lancashire And Furness

Published 1908

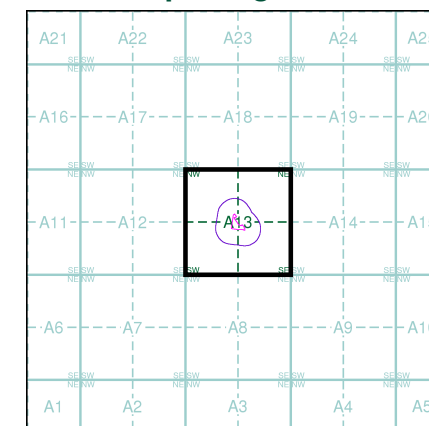
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

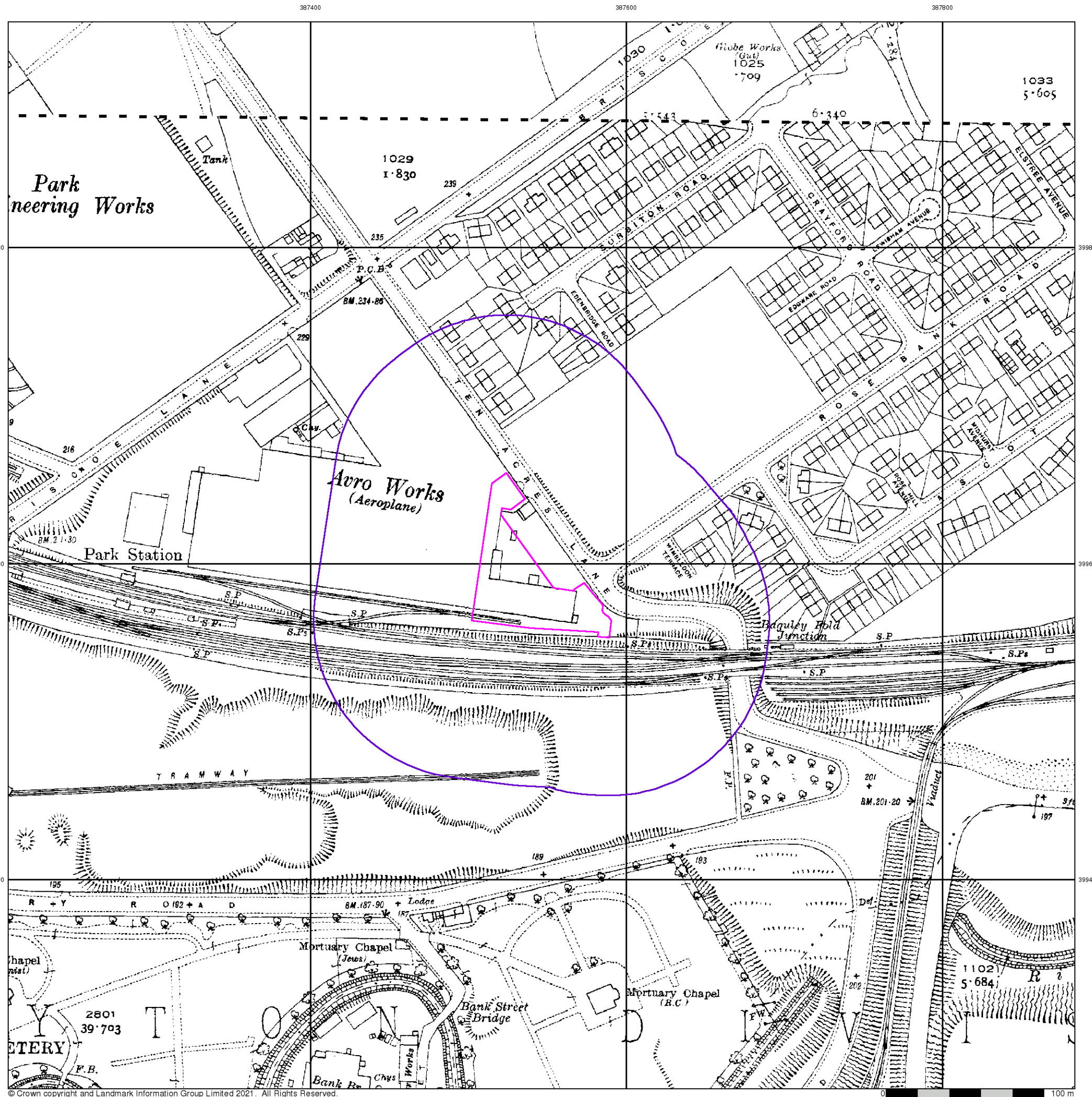
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

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Lancashire And Furness

Published 1931 - 1932

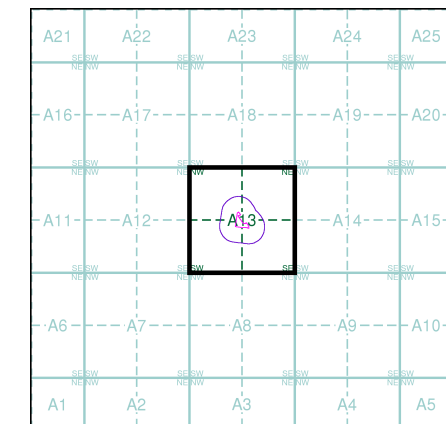
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered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

Map Name(s) and Date(s)

104_04
1931
1:2,500
104_08
1932
1:2,500

Historical Map - Segment A13



Order Details

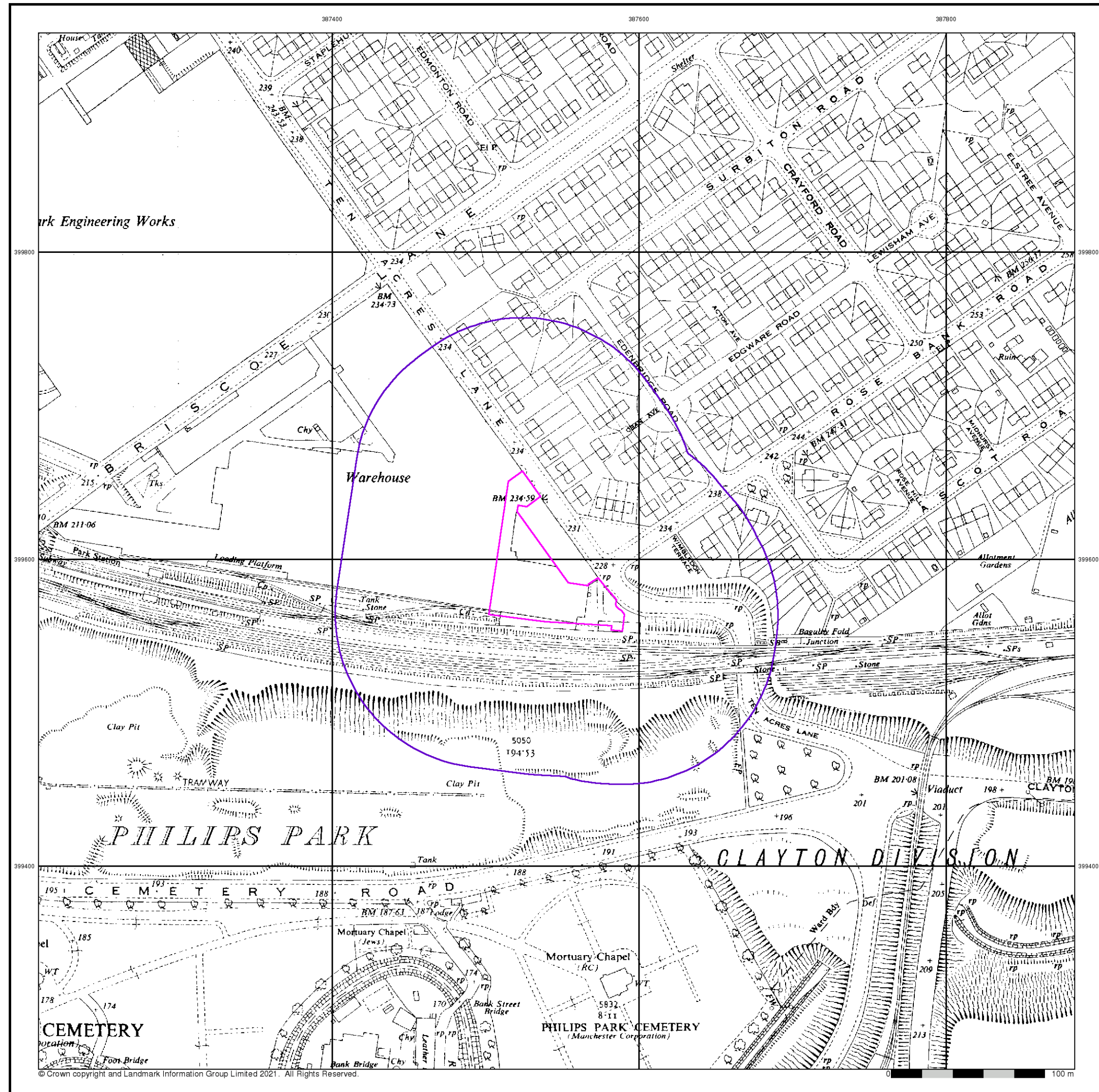
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
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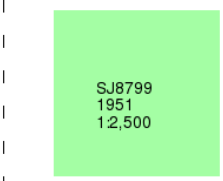
Ordnance Survey Plan

Published 1951

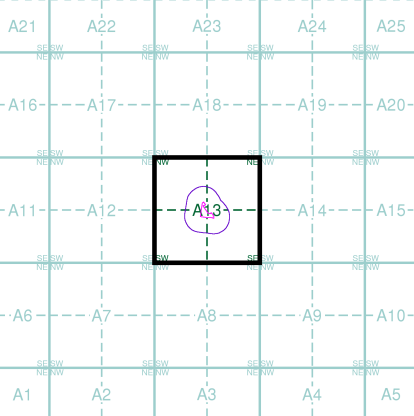
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
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Site Area (Ha):	0.38
Search Buffer (m):	100

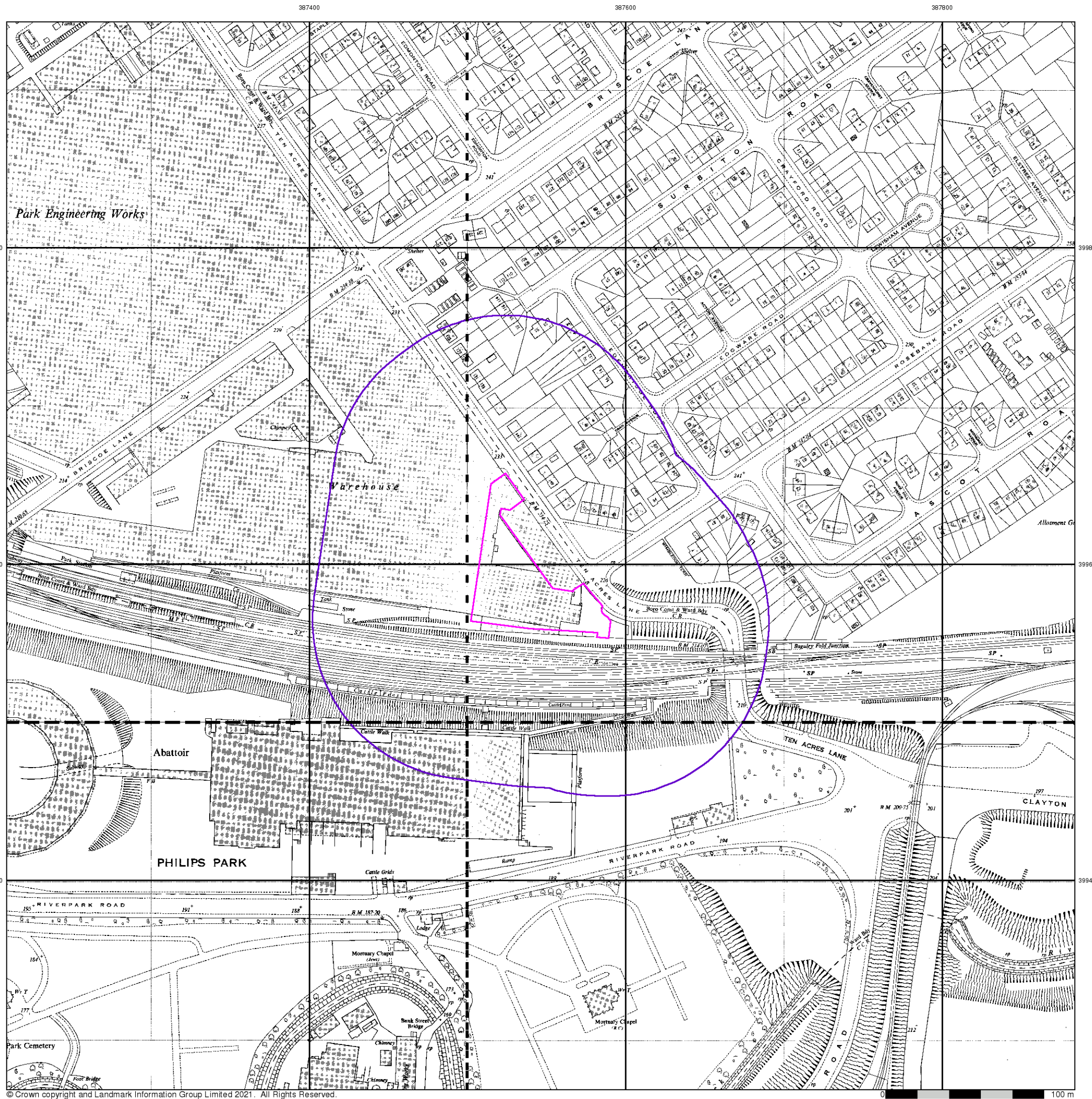
Site Details

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Ordnance Survey Plan

Published 1966

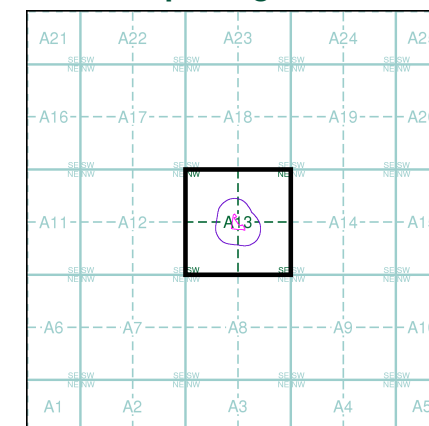
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8799NW	SJ8799NE
1966	1966
1:1,250	1:1,250
SJ8799SW	SJ8799SE
1966	1966
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

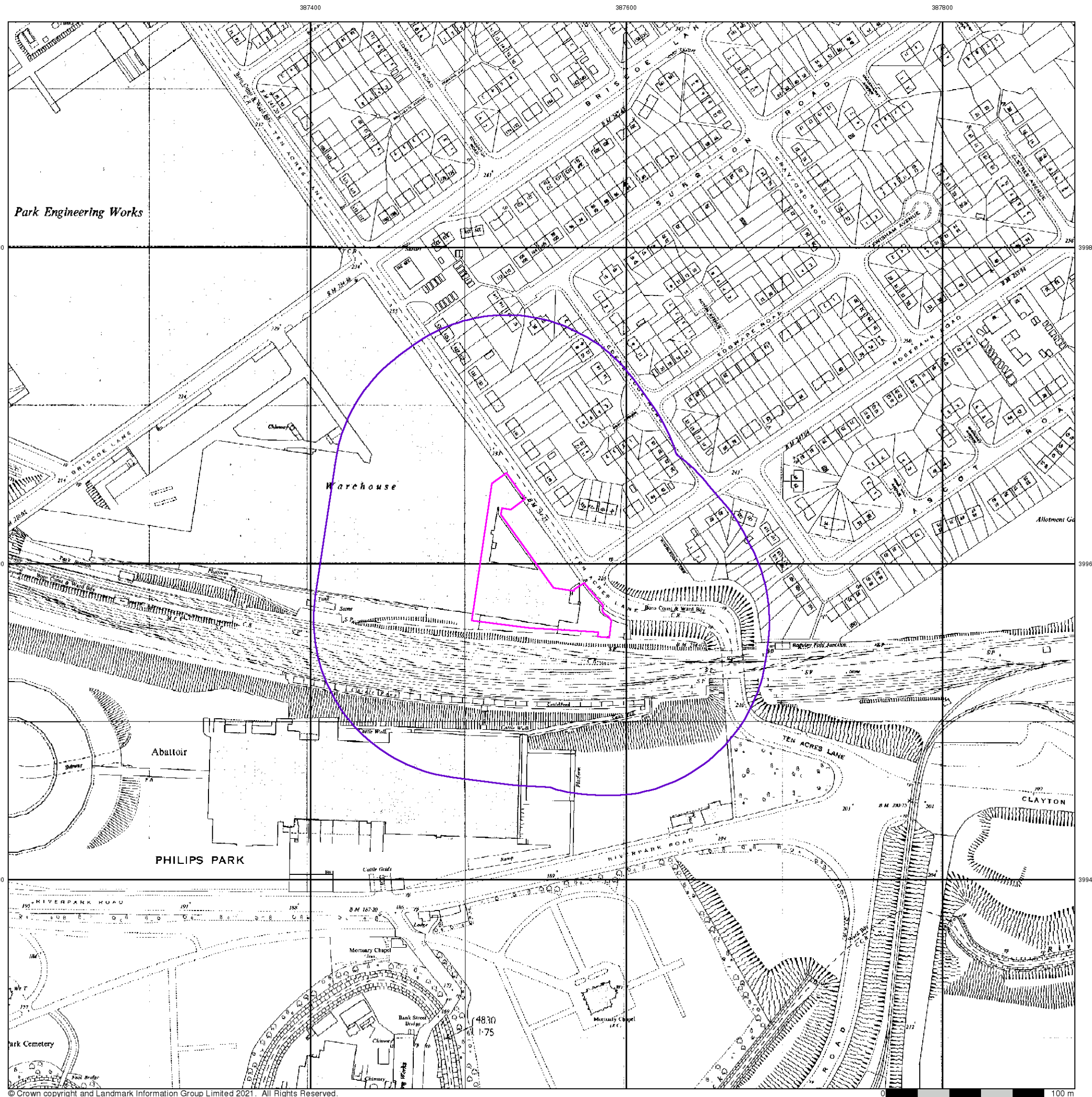
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

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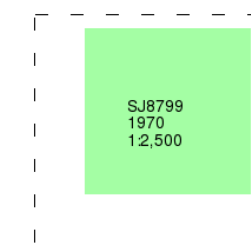
Ordnance Survey Plan

Published 1970

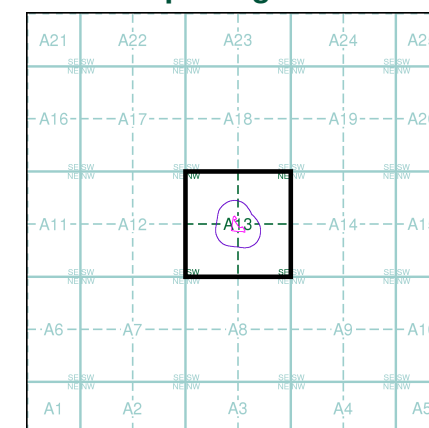
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

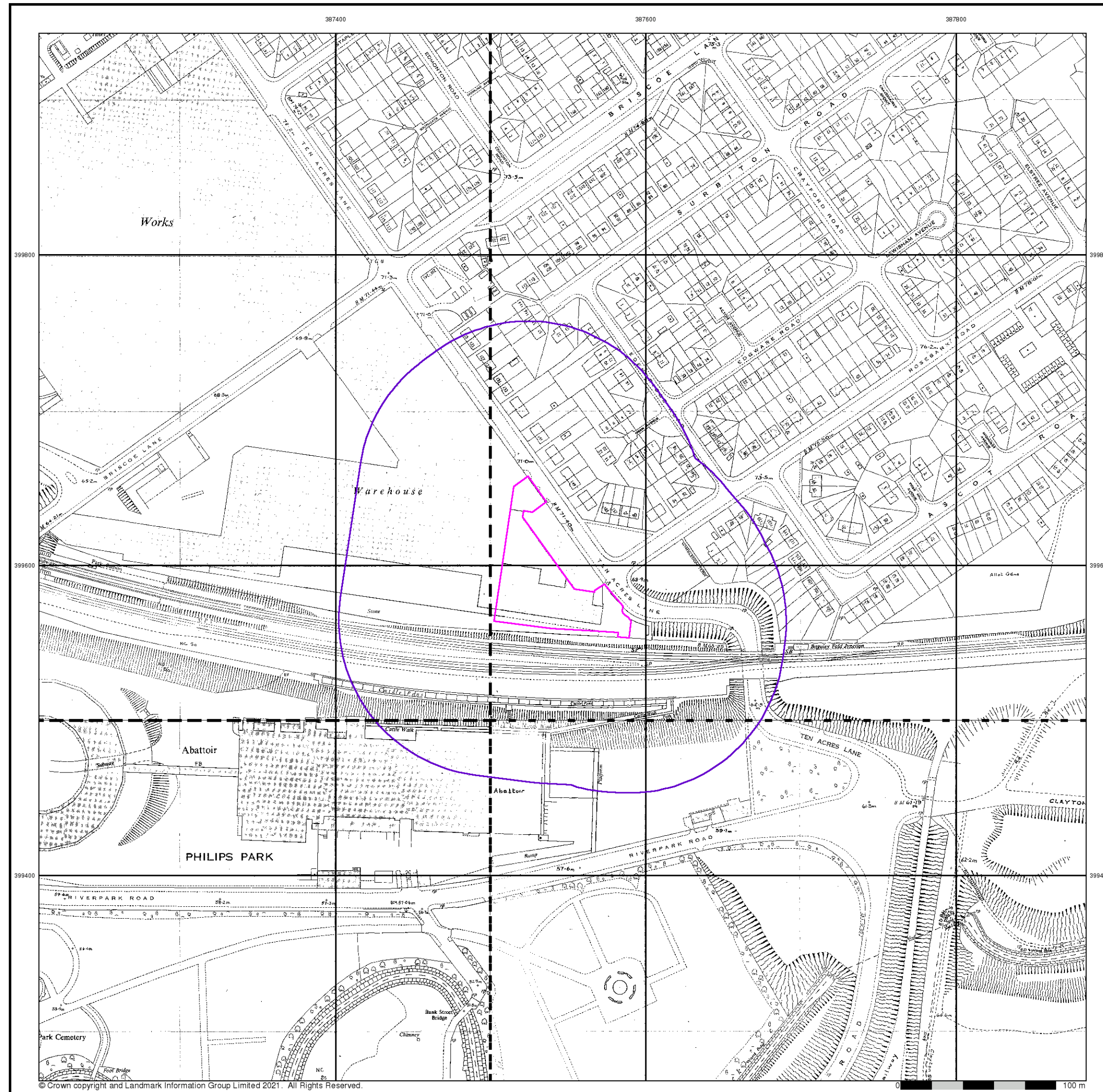
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

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387400 387600 387800

399800 399600 399400

399400

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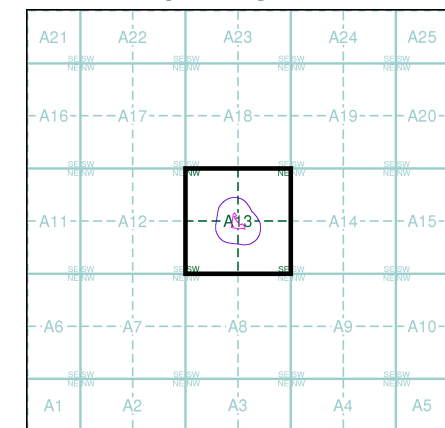
Published 1984 - 1991
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8799NW	SJ8799NE
1991	1984
1:1,250	1:1,250
SJ8799SW	SJ8799SE
1990	1984
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

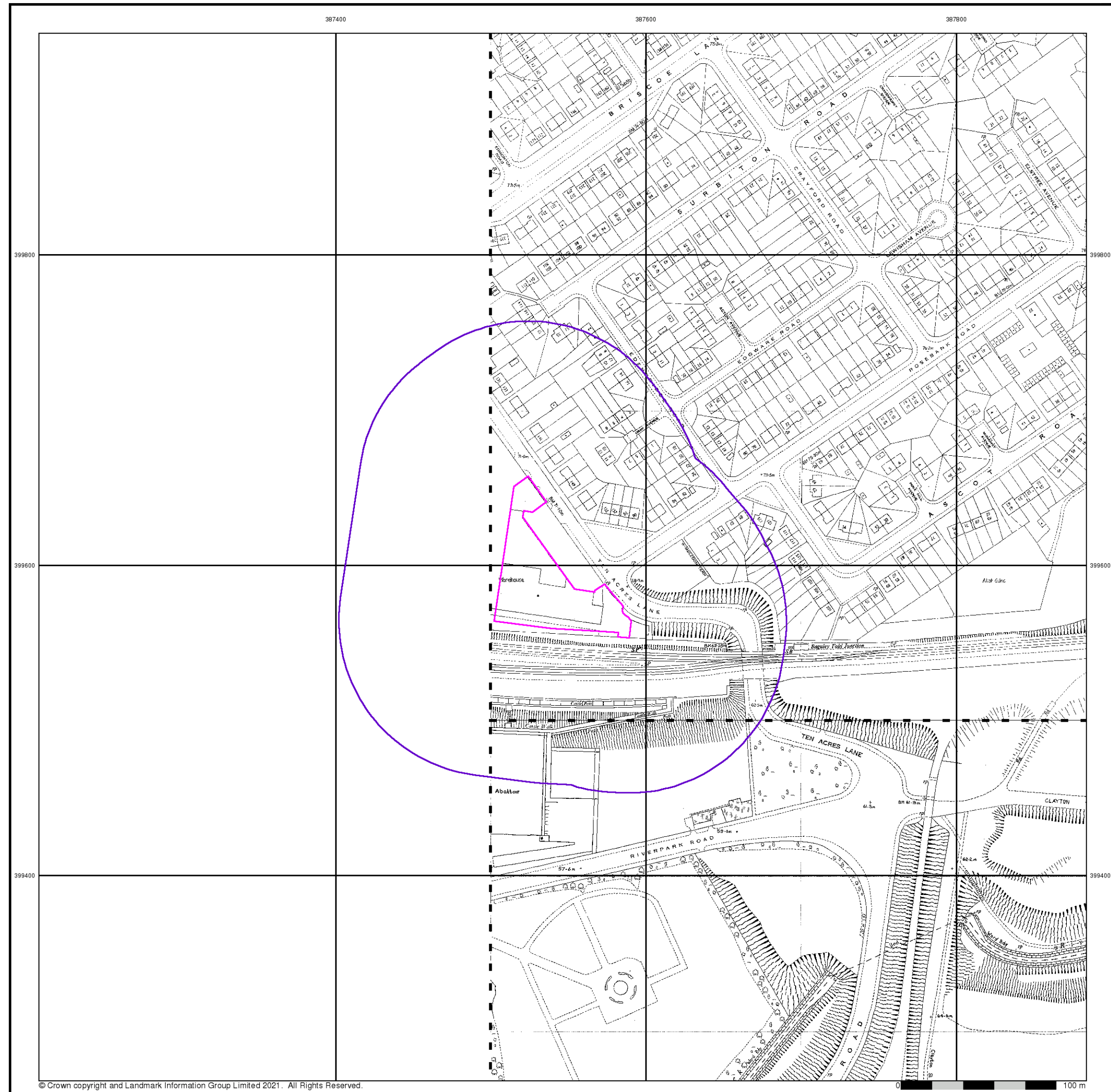
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
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Site Details

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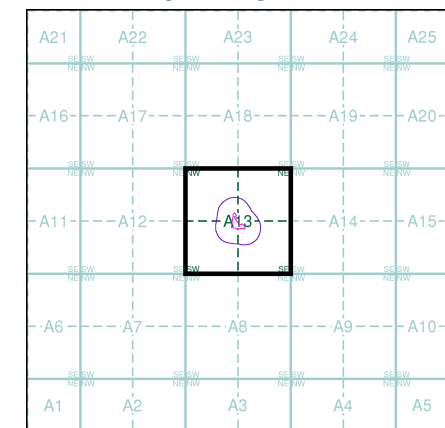


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ8799NE
1987
1:1,250
SJ8799SE
1987
1:1,250

Historical Map - Segment A13

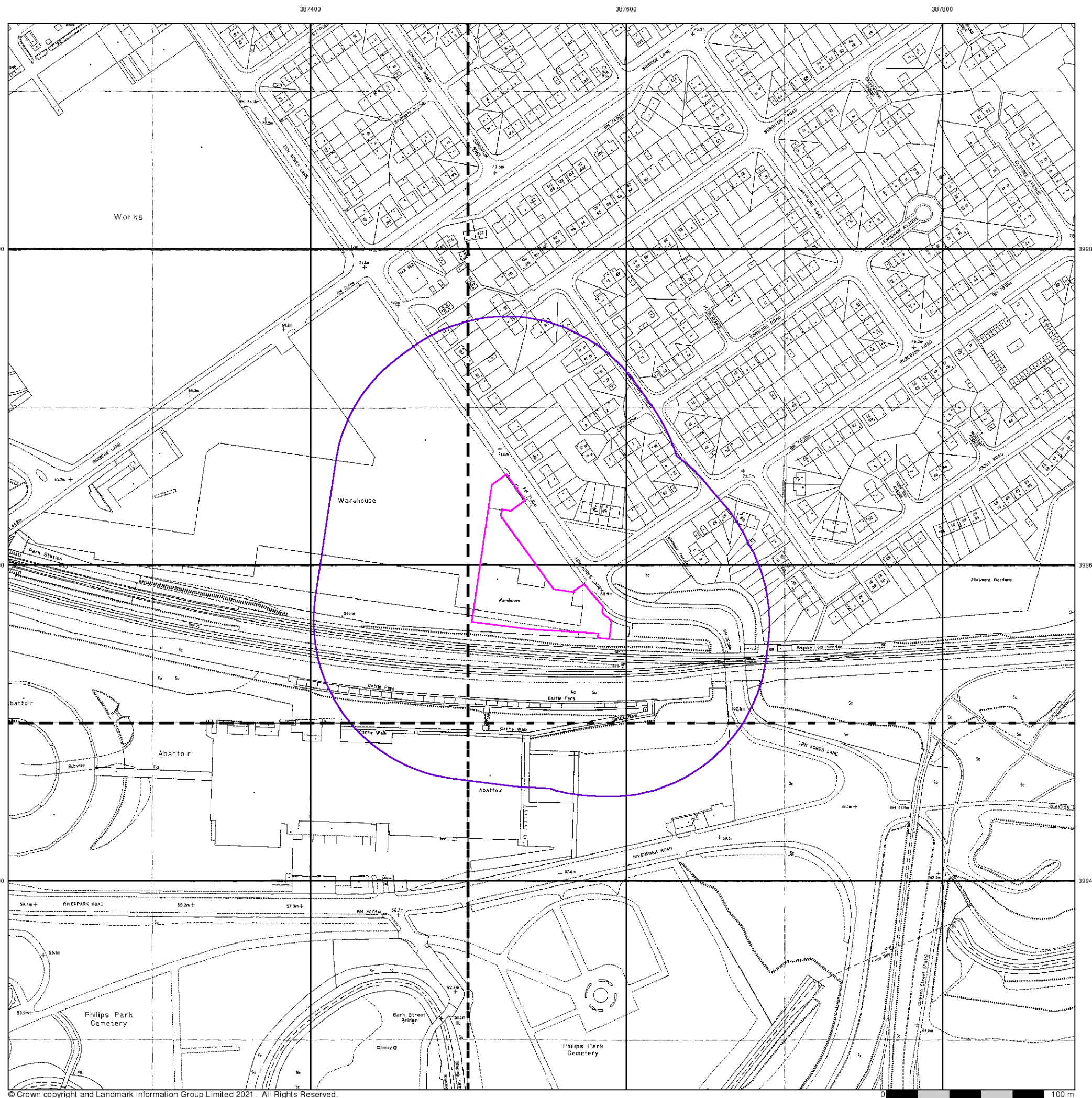


Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

Whispering Smith Ltd, 245 Briscoe Lane, MANCHESTER, M40 2ST



GROUP

Large-Scale National Grid Data

Published 1992

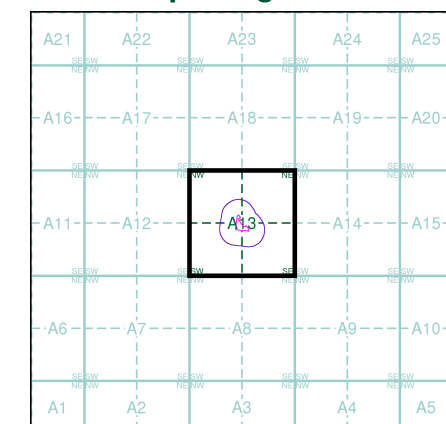
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SJ8799NW 1992 1:1,250	SJ8799NE 1992 1:1,250
SJ8799SW 1992 1:1,250	SJ8799SE 1992 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

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0 100 m



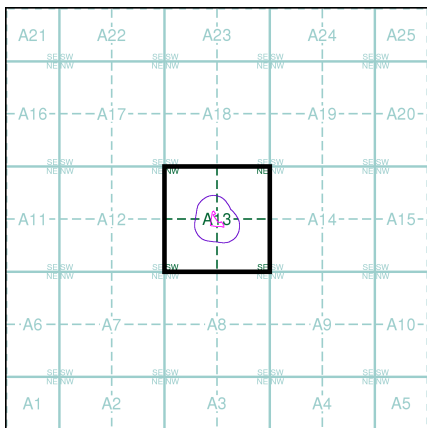
GROUP

Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 100

Site Details

Whispering Smith Ltd, 245 Briscoe Lane, MANCHESTER, M40 2ST



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Fax: 0844 844 9951
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

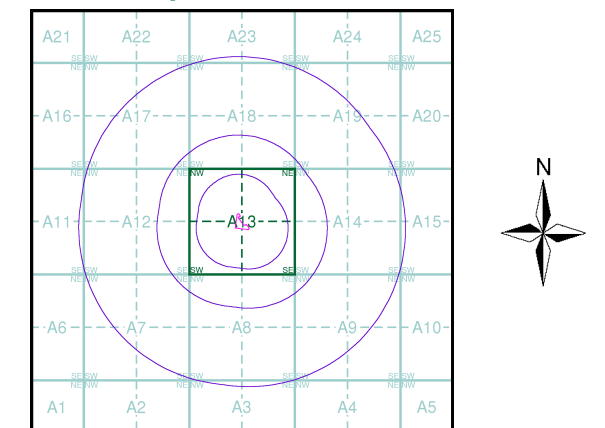


GROUP

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1909	7
Cheshire	1:10,560	1911	8
Lancashire And Furness	1:10,560	1923	9
Lancashire And Furness	1:10,560	1932 - 1933	10
Lancashire And Furness	1:10,560	1938	11
Cheshire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1956	13
Ordnance Survey Plan	1:10,000	1966 - 1968	14
Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1978	16
Ordnance Survey Plan	1:10,000	1981 - 1982	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	1999	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2021	22

Historical Map - Slice A



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

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

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

Power Station, drawn to scale Hydroelectric Power Station

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

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

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Small Bridge Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

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

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

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

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

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

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

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

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

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

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

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

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

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

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

Well Water Reservoir or Rain Water Pit Spring Isobath with value

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

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

SD80_Manchester

No.	Description
233	Factory (Textiles)

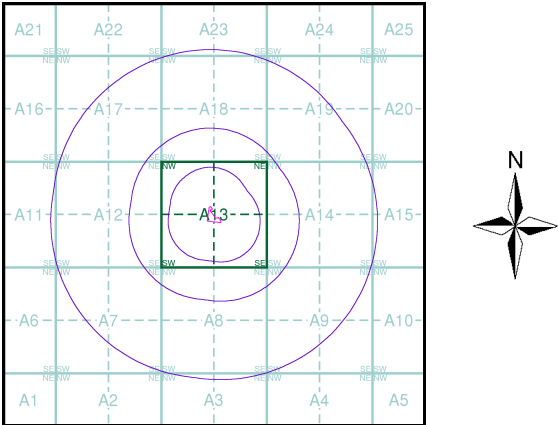
SJ89_Manchester

No.	Description
61	Factory (Gas)
83	Factory (Machinery)
252	Power Station (Electric)

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1848	3
Cheshire	1:10,560	1882	4
Lancashire And Furness	1:10,560	1894	5
Cheshire	1:10,560	1899	6
Lancashire And Furness	1:10,560	1909	7
Cheshire	1:10,560	1911	8
Lancashire And Furness	1:10,560	1923	9
Lancashire And Furness	1:10,560	1932 - 1933	10
Lancashire And Furness	1:10,560	1938	11
Cheshire	1:10,560	1938	12
Ordnance Survey Plan	1:10,000	1956	13
Ordnance Survey Plan	1:10,000	1966 - 1968	14
Manchester	1:25,000	1975	15
Ordnance Survey Plan	1:10,000	1978	16
Ordnance Survey Plan	1:10,000	1981 - 1982	17
Ordnance Survey Plan	1:10,000	1987	18
Ordnance Survey Plan	1:10,000	1990 - 1993	19
10K Raster Mapping	1:10,000	1999	20
10K Raster Mapping	1:10,000	2006	21
VectorMap Local	1:10,000	2021	22

Russian Map - Slice A

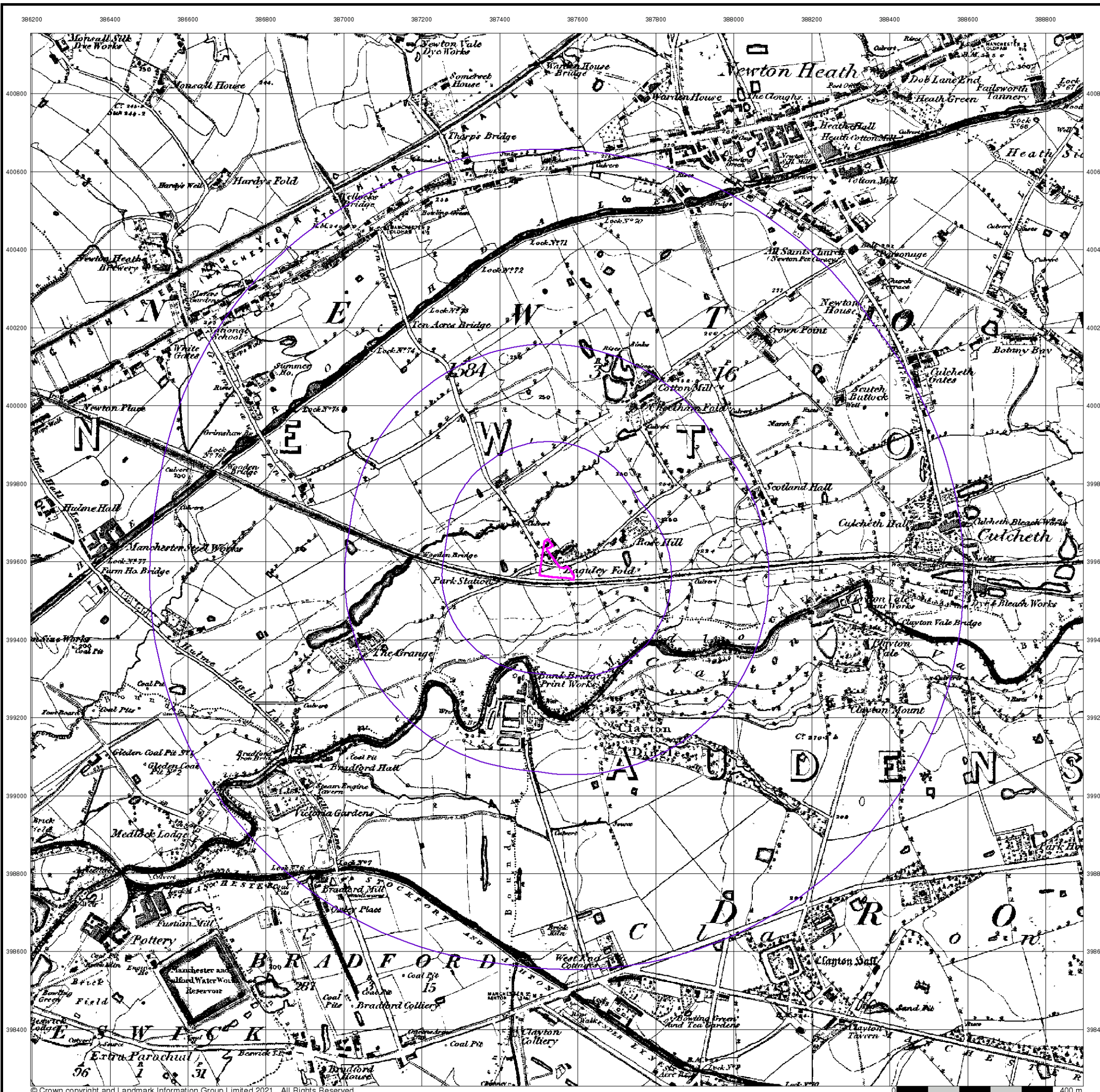


Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

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LK GROUP

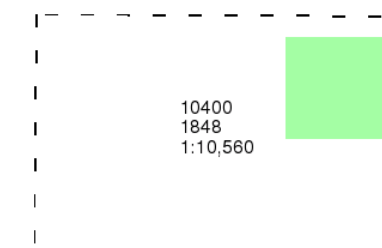
Lancashire And Furness

Published 1848

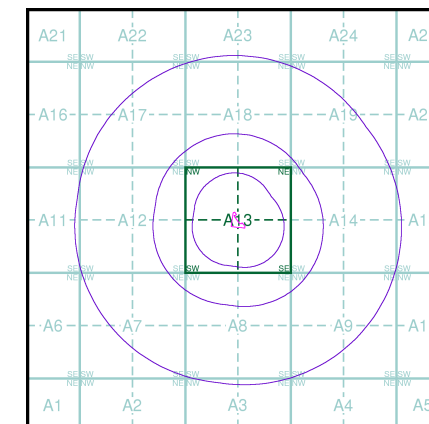
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

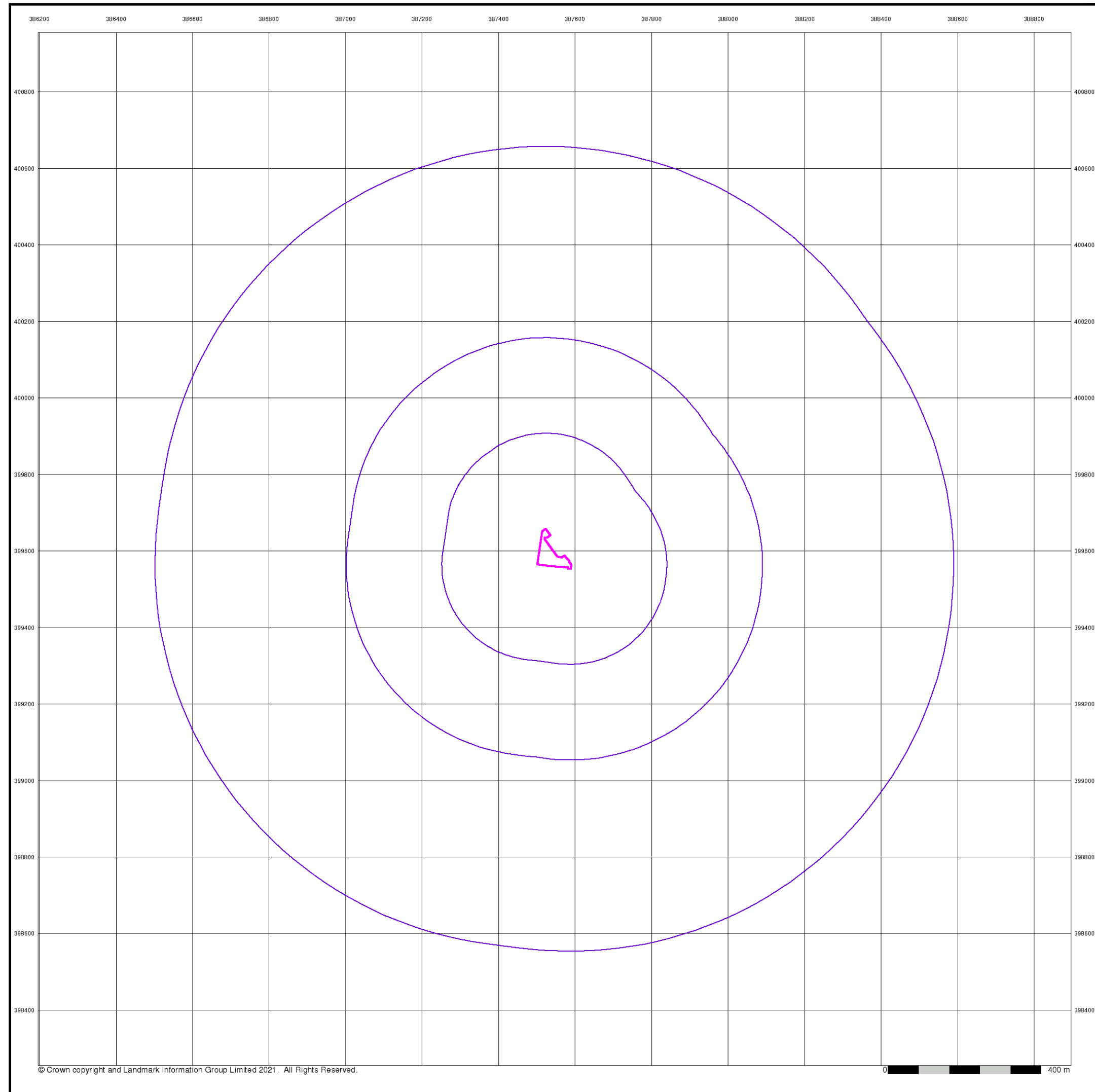
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National Grid Reference: 387540, 399600
Slice: A
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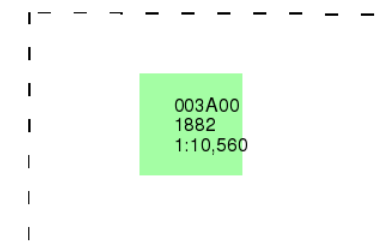


Published 1882

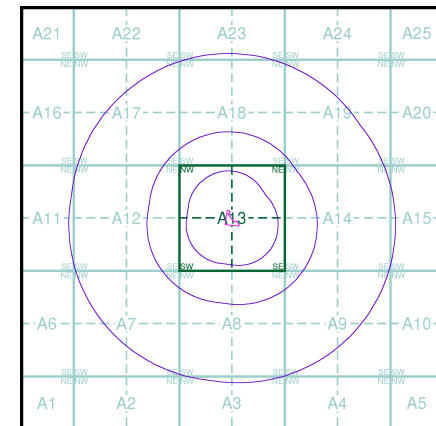
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

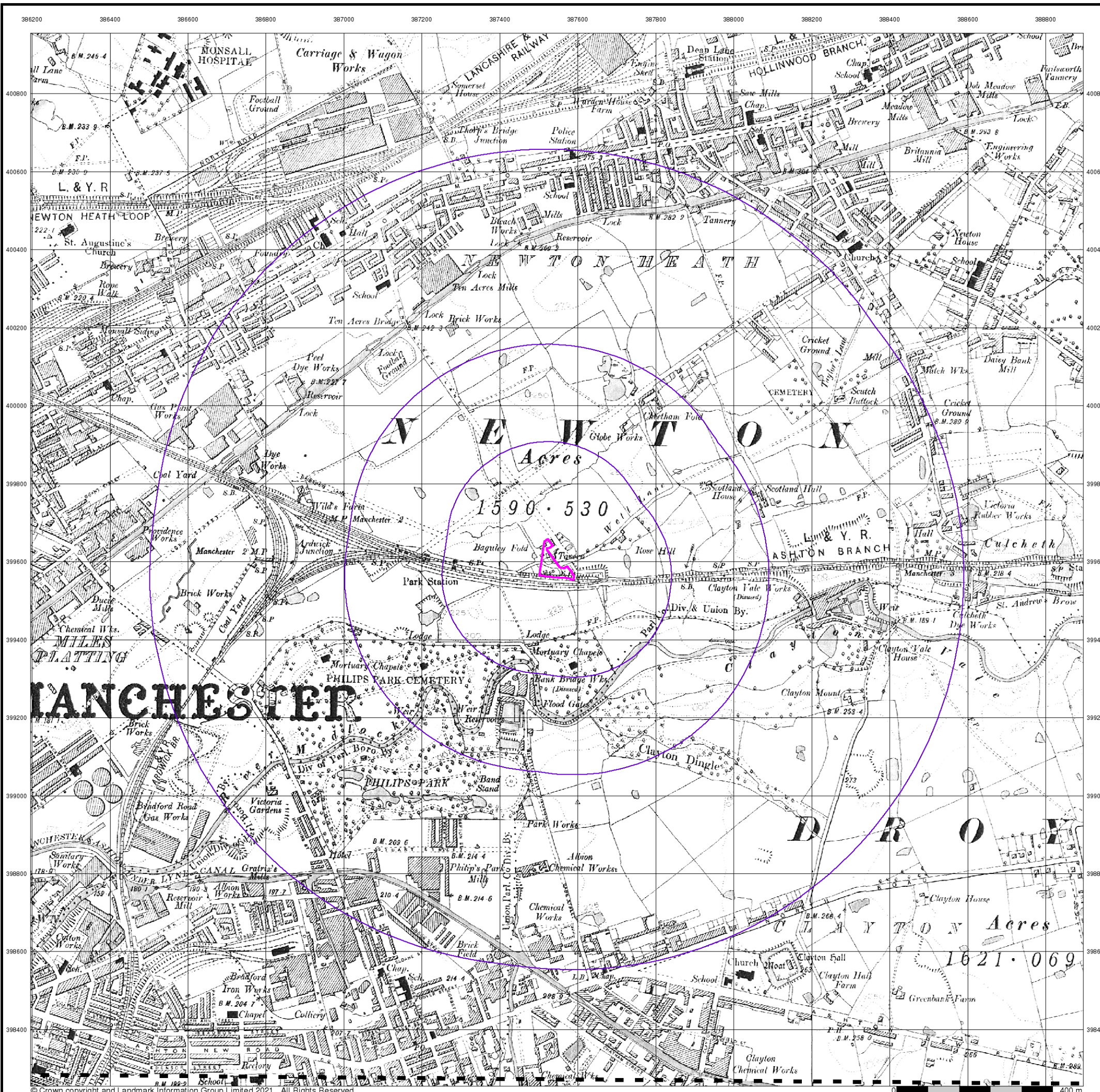


Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
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Site Details

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LK GROUP

Lancashire And Furness

Published 1894

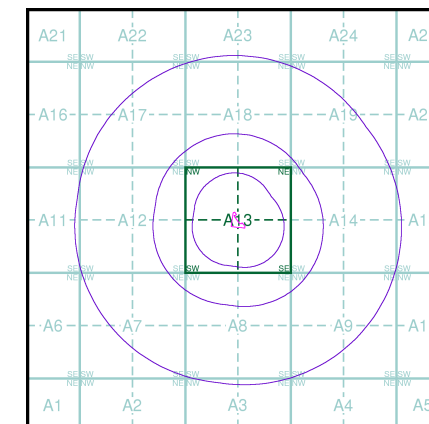
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

104NE
1894
1:10,560
104SE
1894
1:10,560

Historical Map - Slice A



Order Details

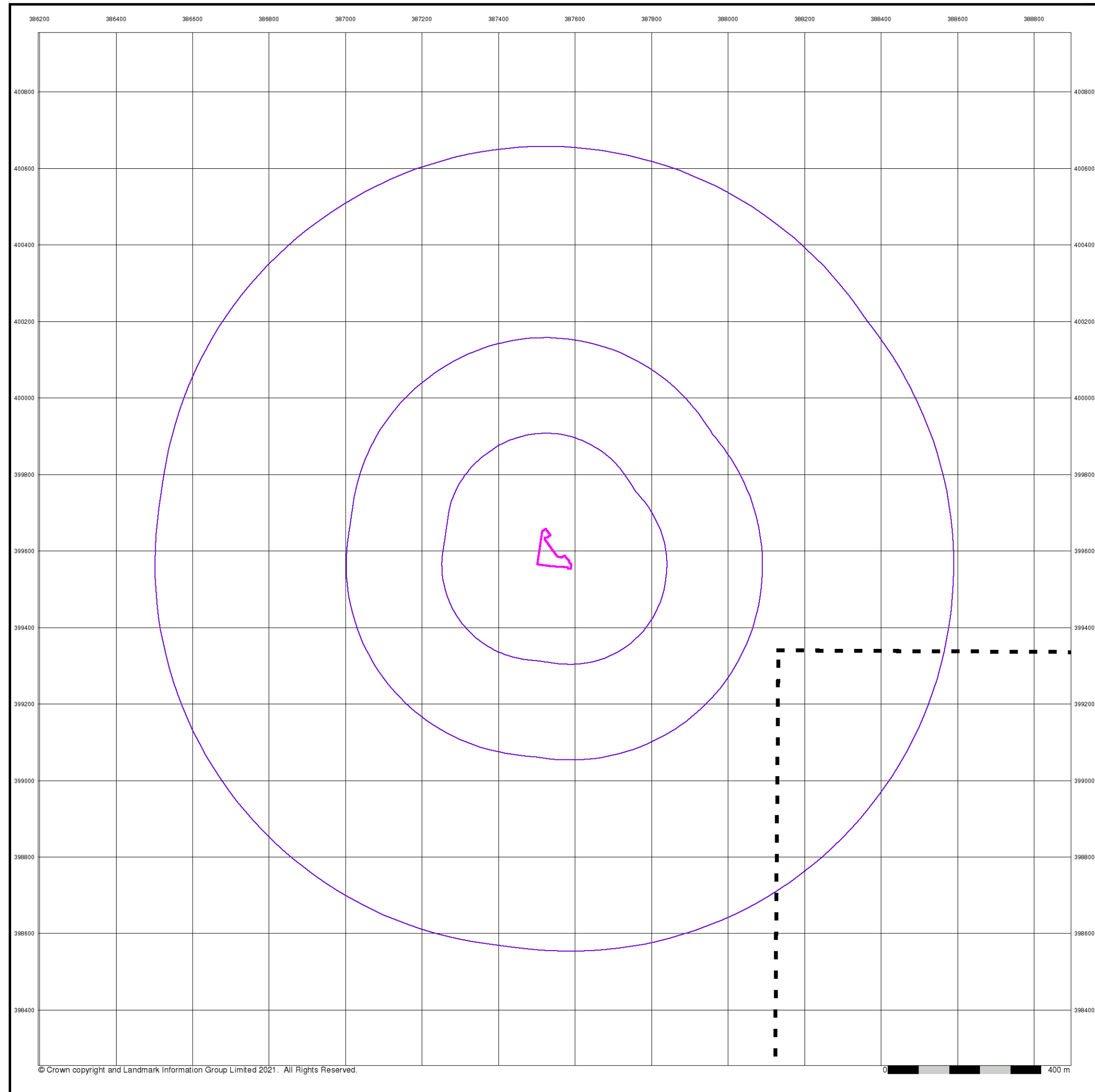
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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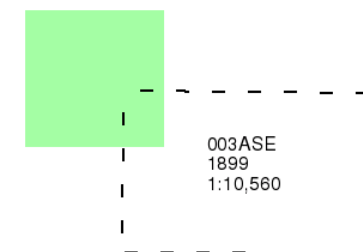
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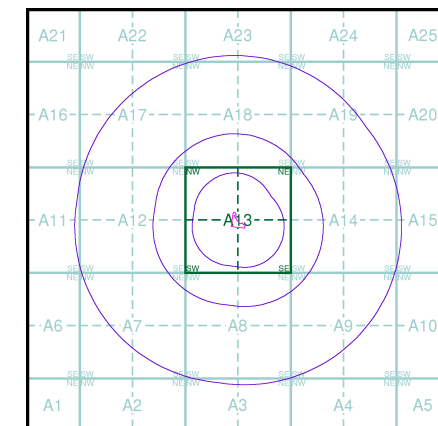
Published 1899
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

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GROUP

Lancashire And Furness

Published 1909

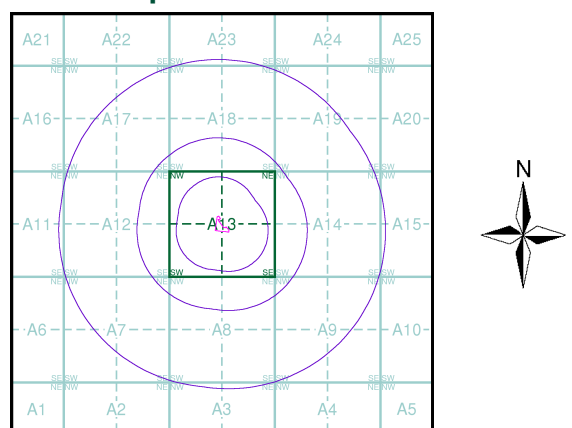
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

104NE
1909
1:10,560
104SE
1909
1:10,560

Historical Map - Slice A



Order Details

Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

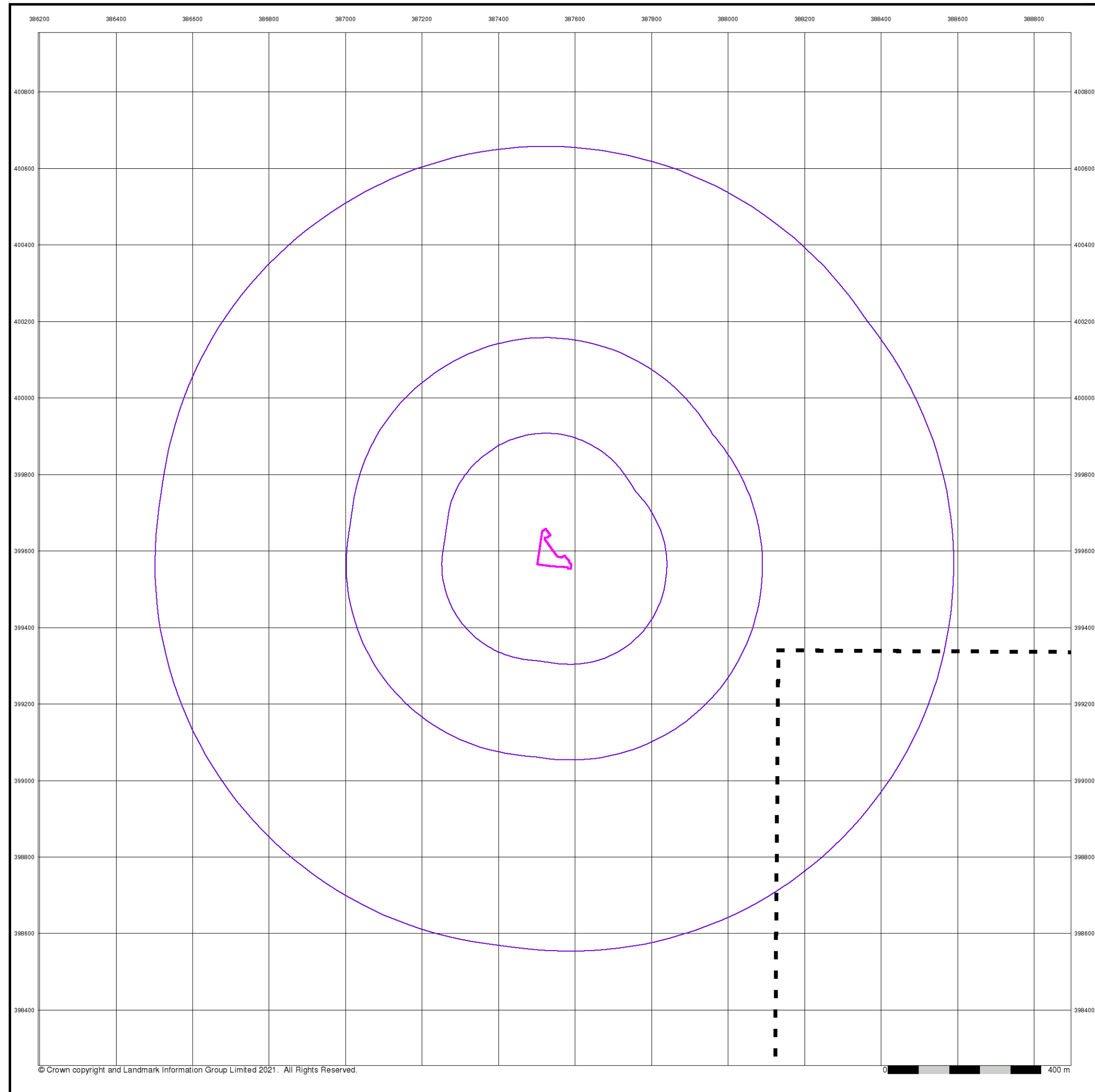
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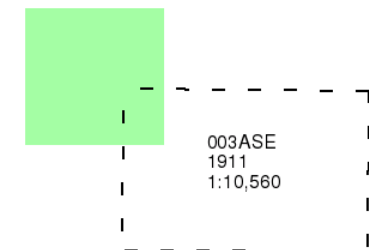


Published 1911

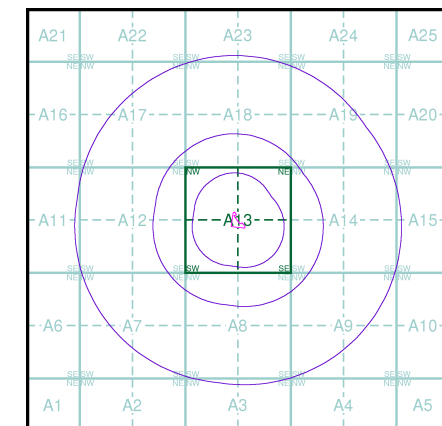
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
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Search Buffer (m): 1000

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LK GROUP

Lancashire And Furness

Published 1923

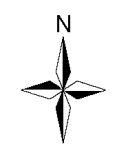
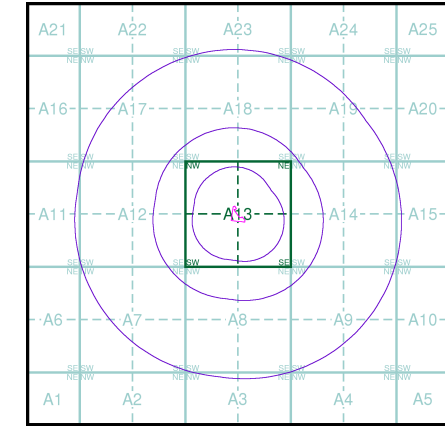
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

104NE
1923
1:10,560
104SE
1923
1:10,560

Historical Map - Slice A



Order Details

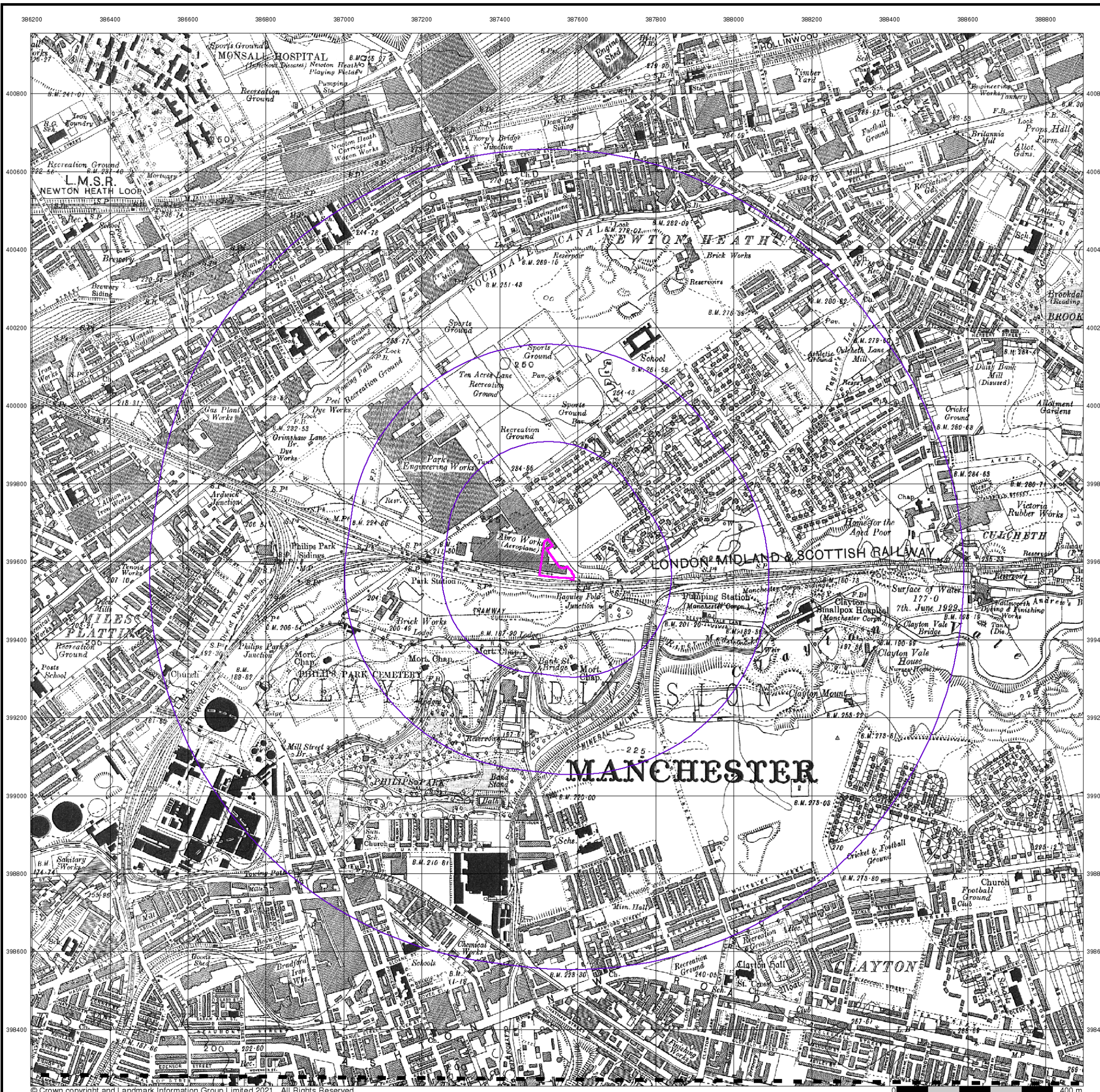
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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GROUP

Lancashire And Furness

Published 1932 - 1933

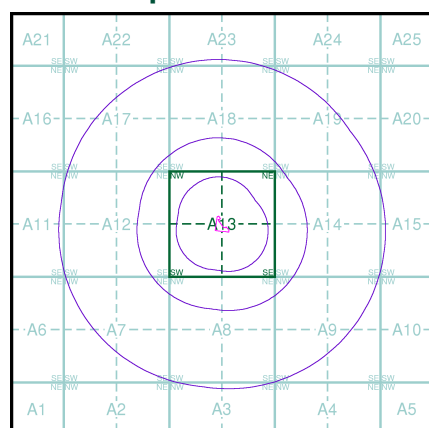
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)

104NE	1932	1:10,560
104SE	1933	1:10,560

Historical Map - Slice A



Order Details

Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

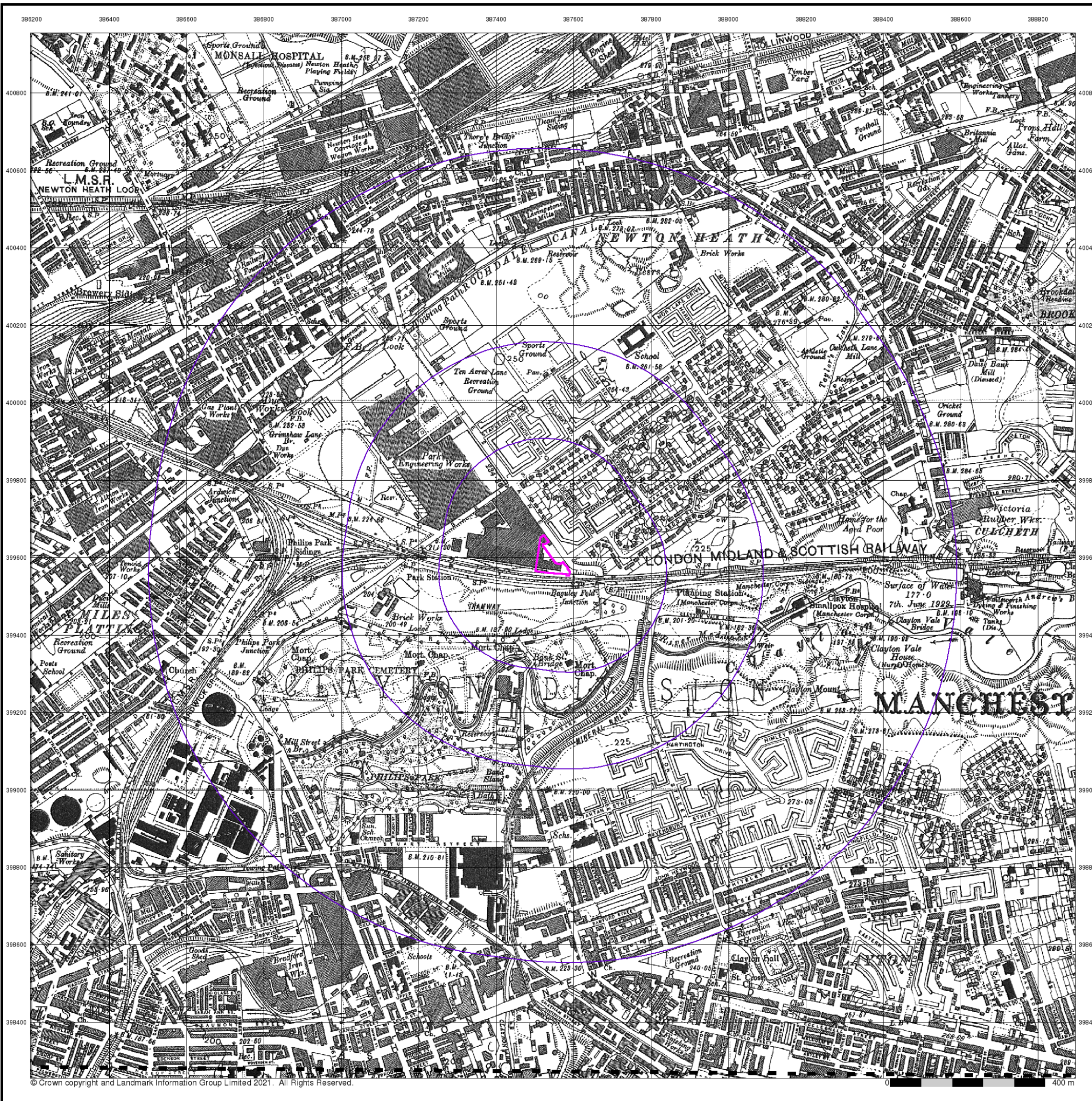
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LK

GROUP

Lancashire And Furness

Published 1938

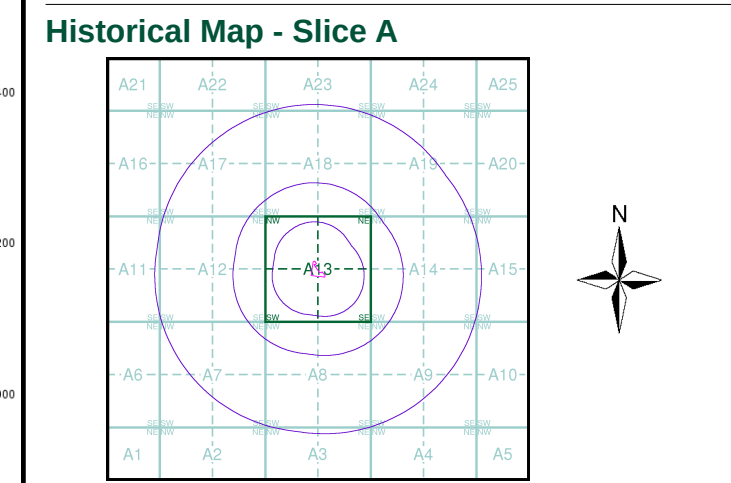
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Map Name(s) and Date(s)

104NE
1938
1:10,560

104SE
1938
1:10,560



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

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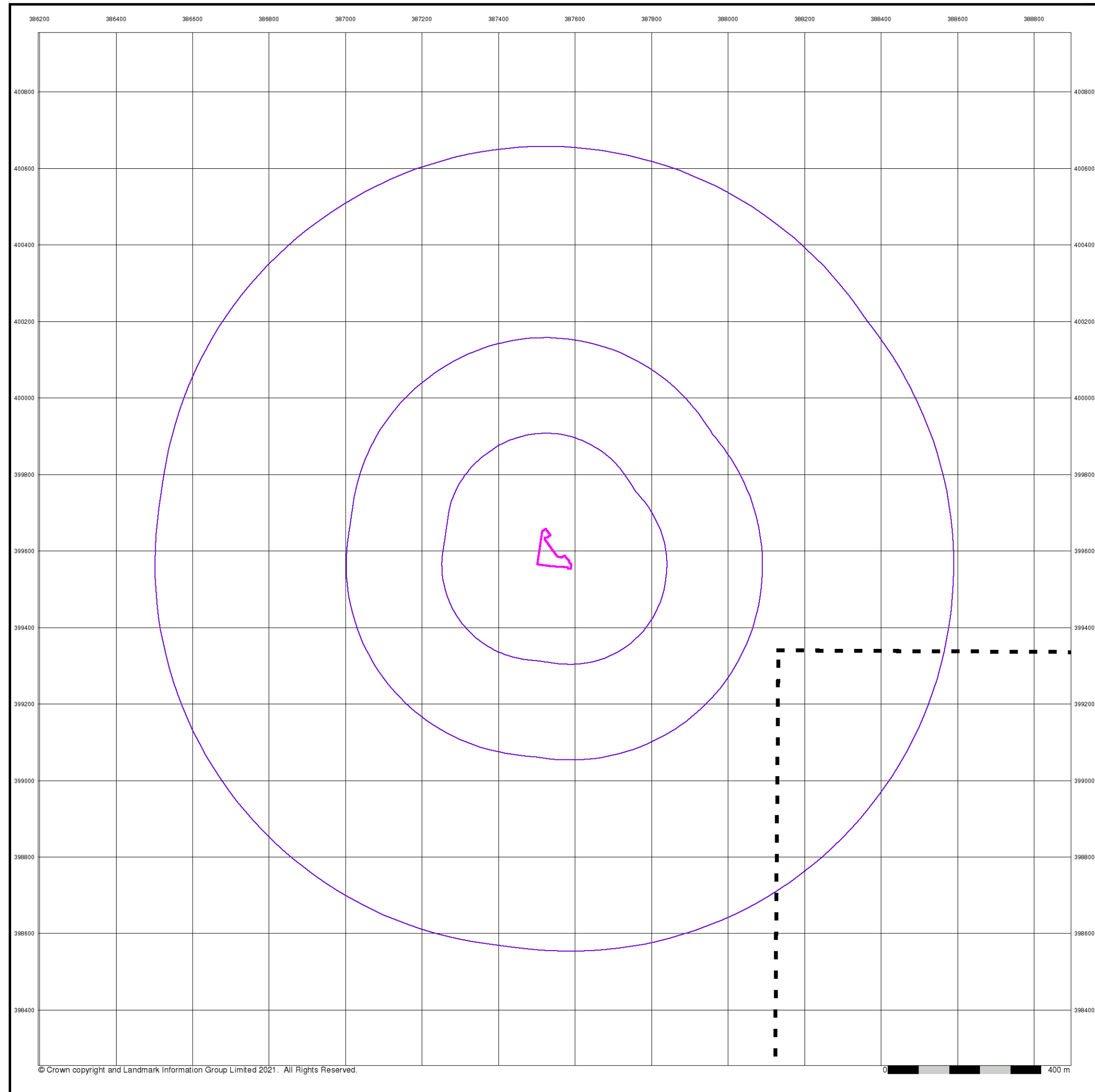
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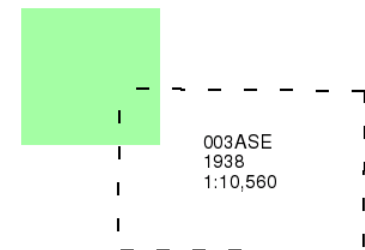


Published 1938

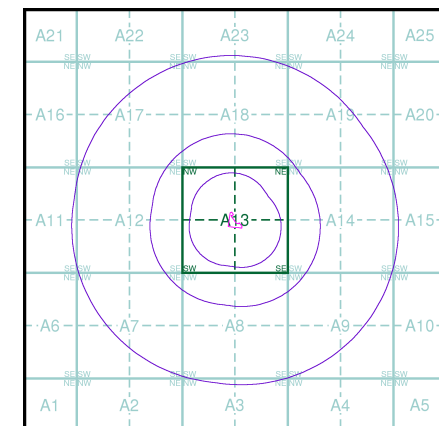
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

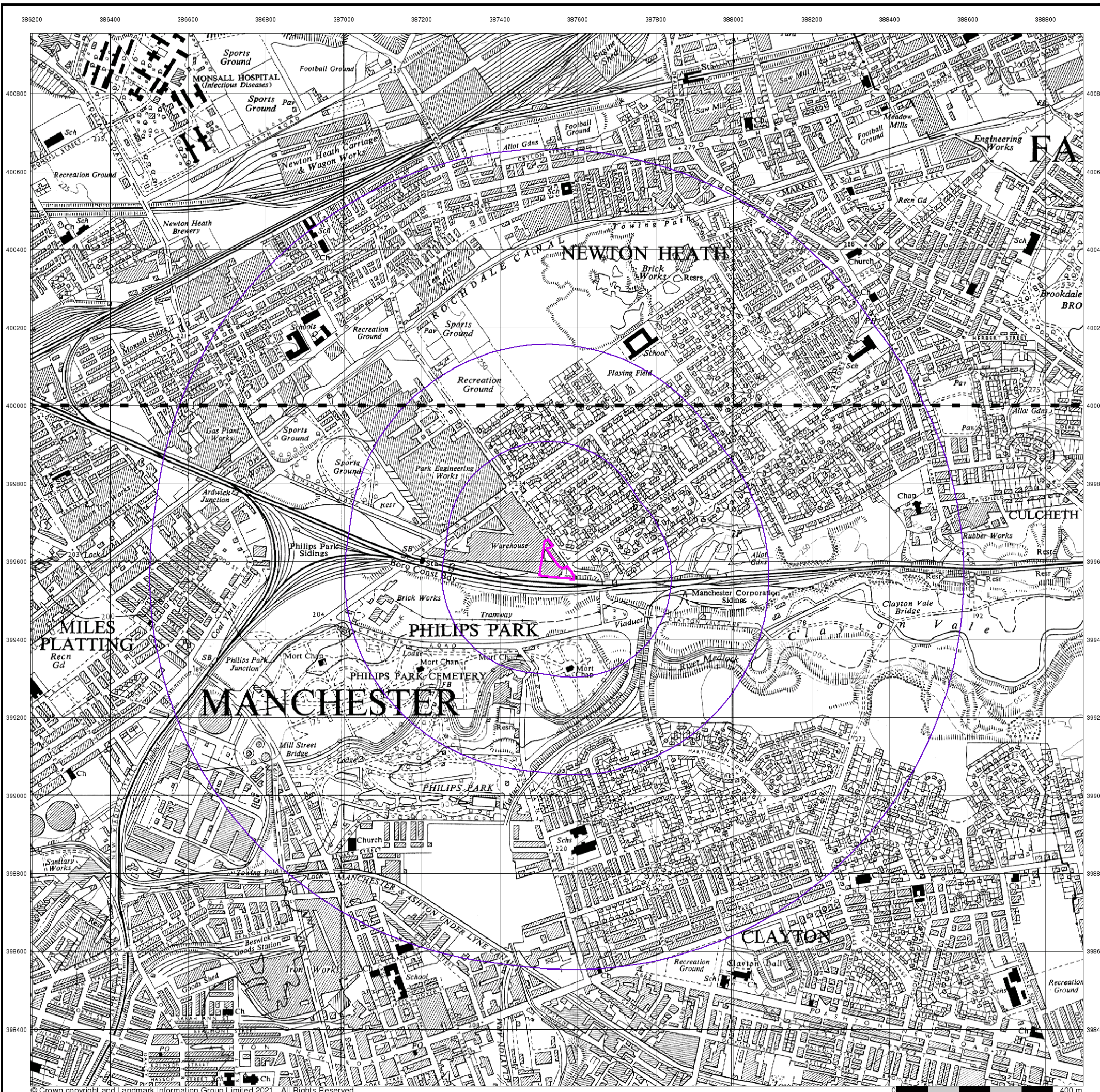


Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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ORDNANCE SURVEY PLAN

Published 1956

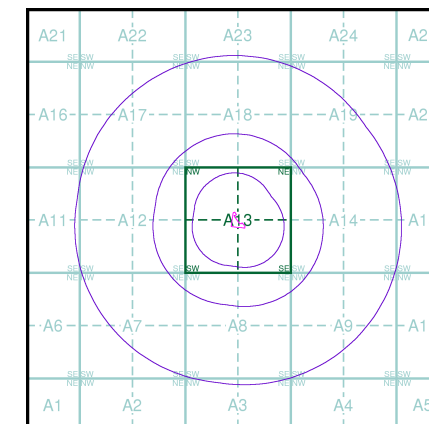
Source map scale - 1:10,000

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Map Name(s) and Date(s)

SD80SE	1956
1:10,560	
SJ89NE	1956
1:10,560	

Historical Map - Slice A



Order Details

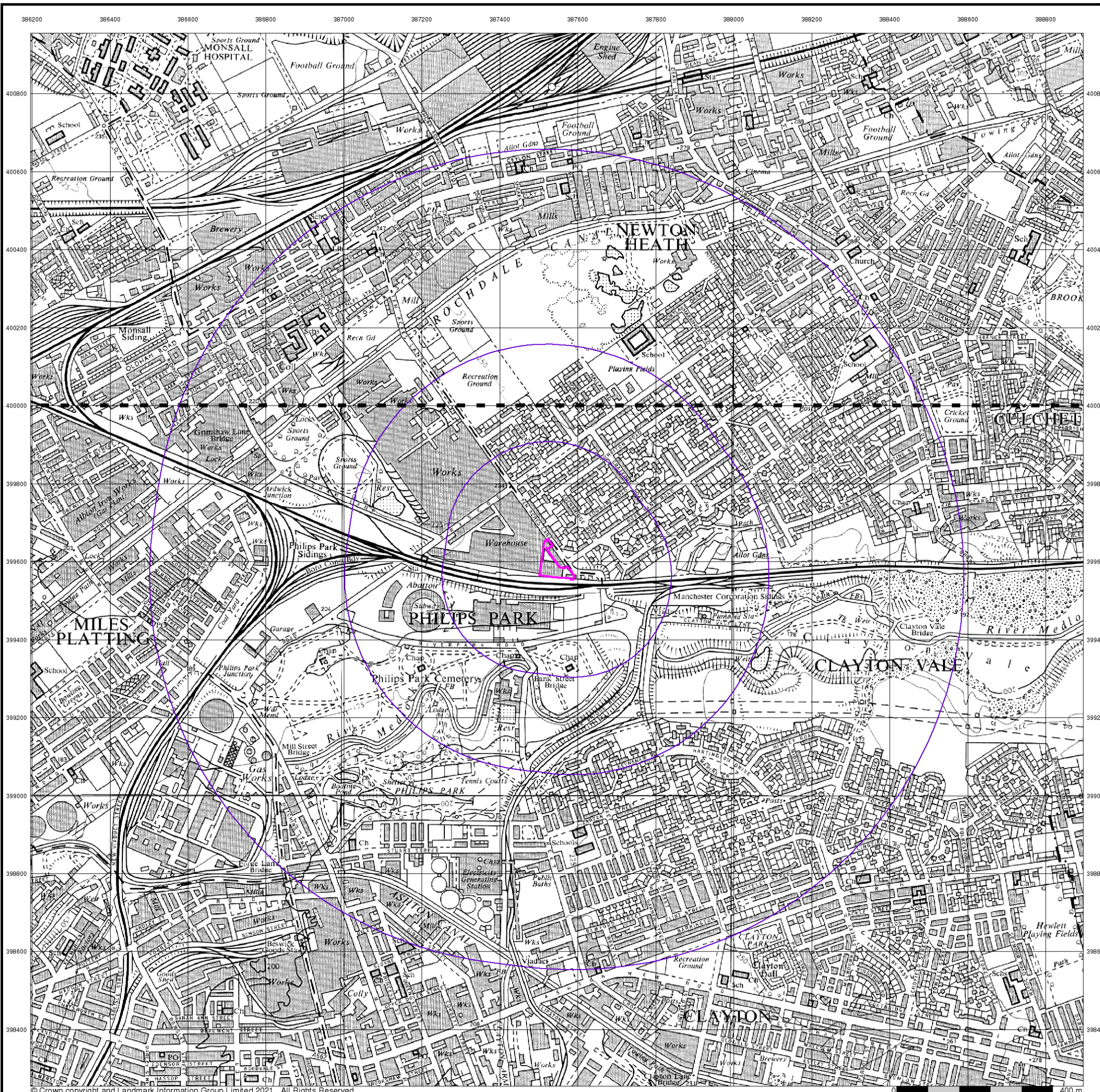
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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GROUP

Ordnance Survey Plan

Published 1966 - 1968

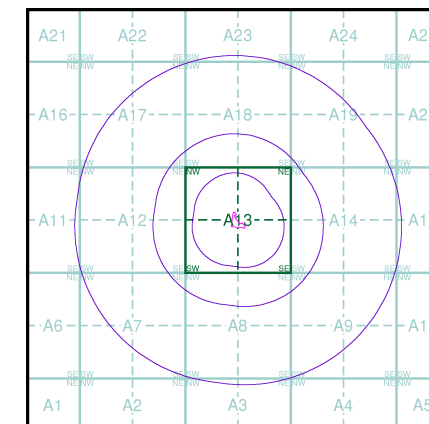
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD80SE	1966
1:10,560	
SJ89NE	1968
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

Whispering Smith Ltd, 245 Briscoe Lane, MANCHESTER, M40 2ST



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Fax: 0844 844 9951
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LK
GROUP
Manchester

Published 1975

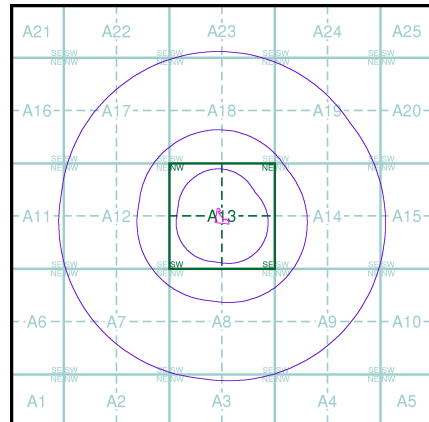
Source map scale - 1:25,000

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

Map Name(s) and Date(s)

SD80	1975	1:25,000
SJ89	1975	1:25,000

Russian Map - Slice A



Order Details

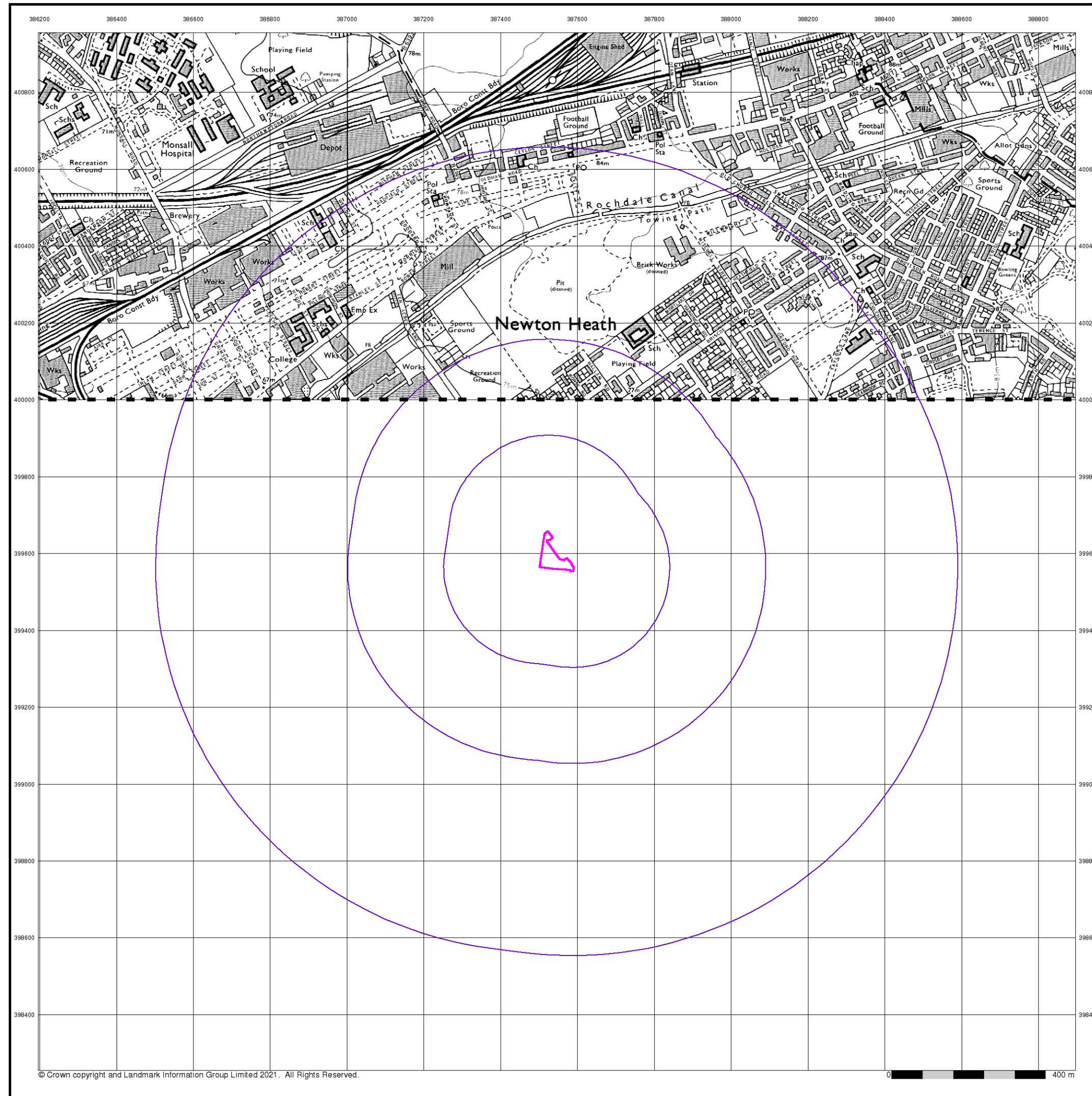
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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Landmark
INFORMATION GROUP

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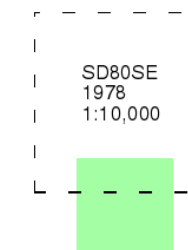
ORDNANCE SURVEY PLAN

Published 1978

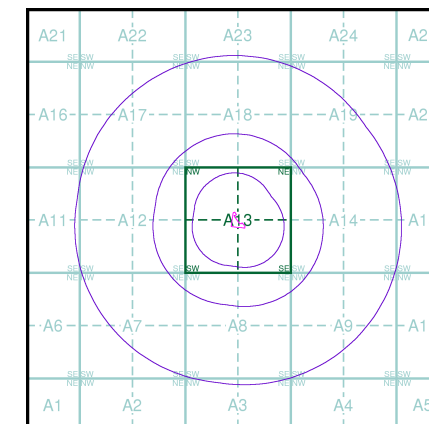
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

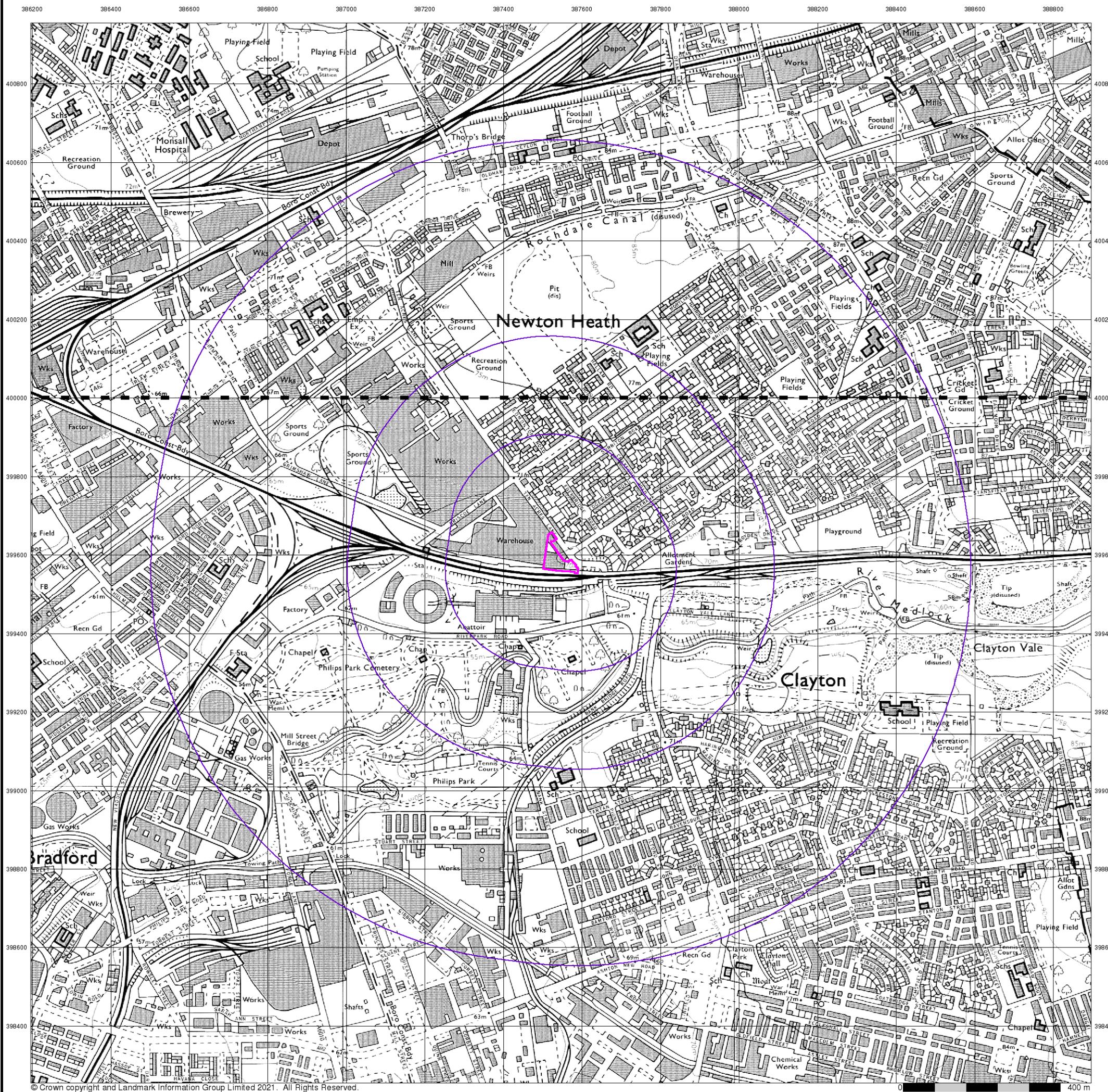
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National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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Ordnance Survey Plan

Published 1981 - 1982

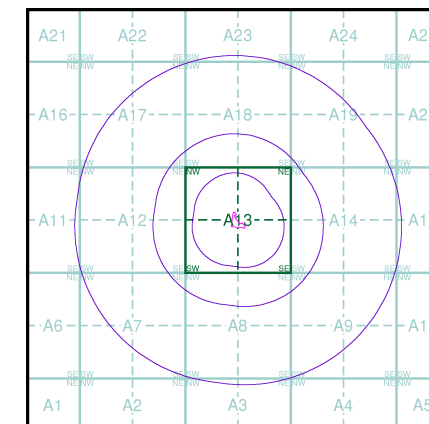
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD80SE	1982	1:10,000
SJ89NE	1981	1:10,000

Historical Map - Slice A



Order Details

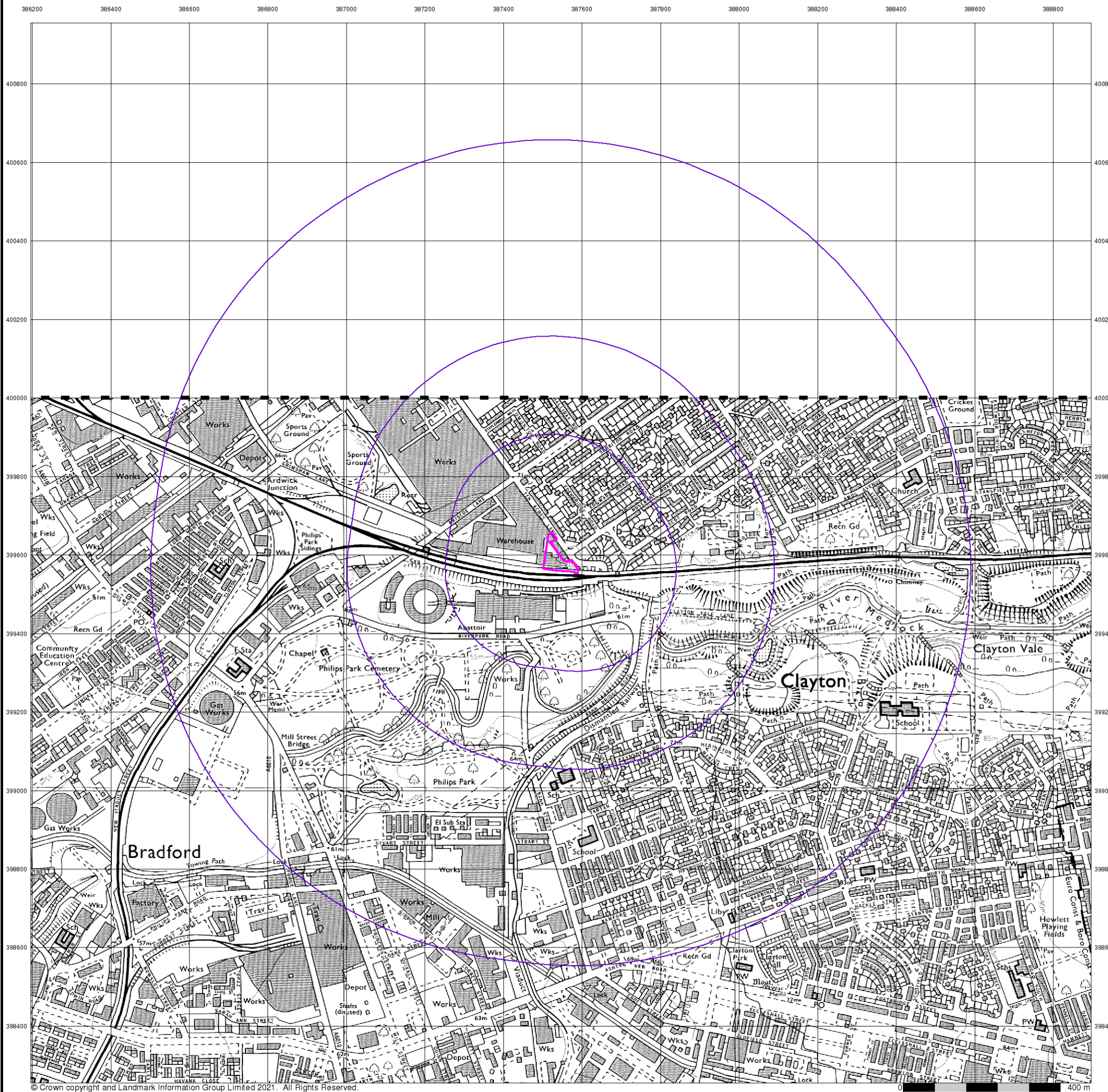
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
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LK GROUP

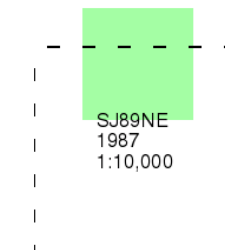
Ordnance Survey Plan

Published 1987

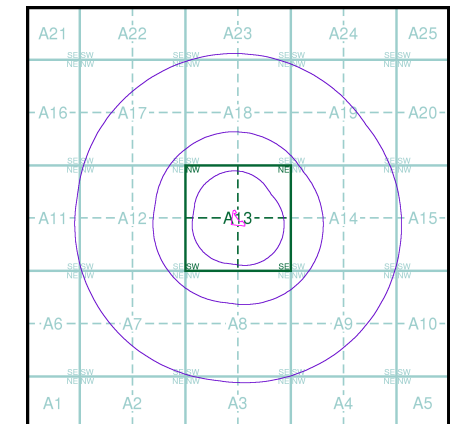
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

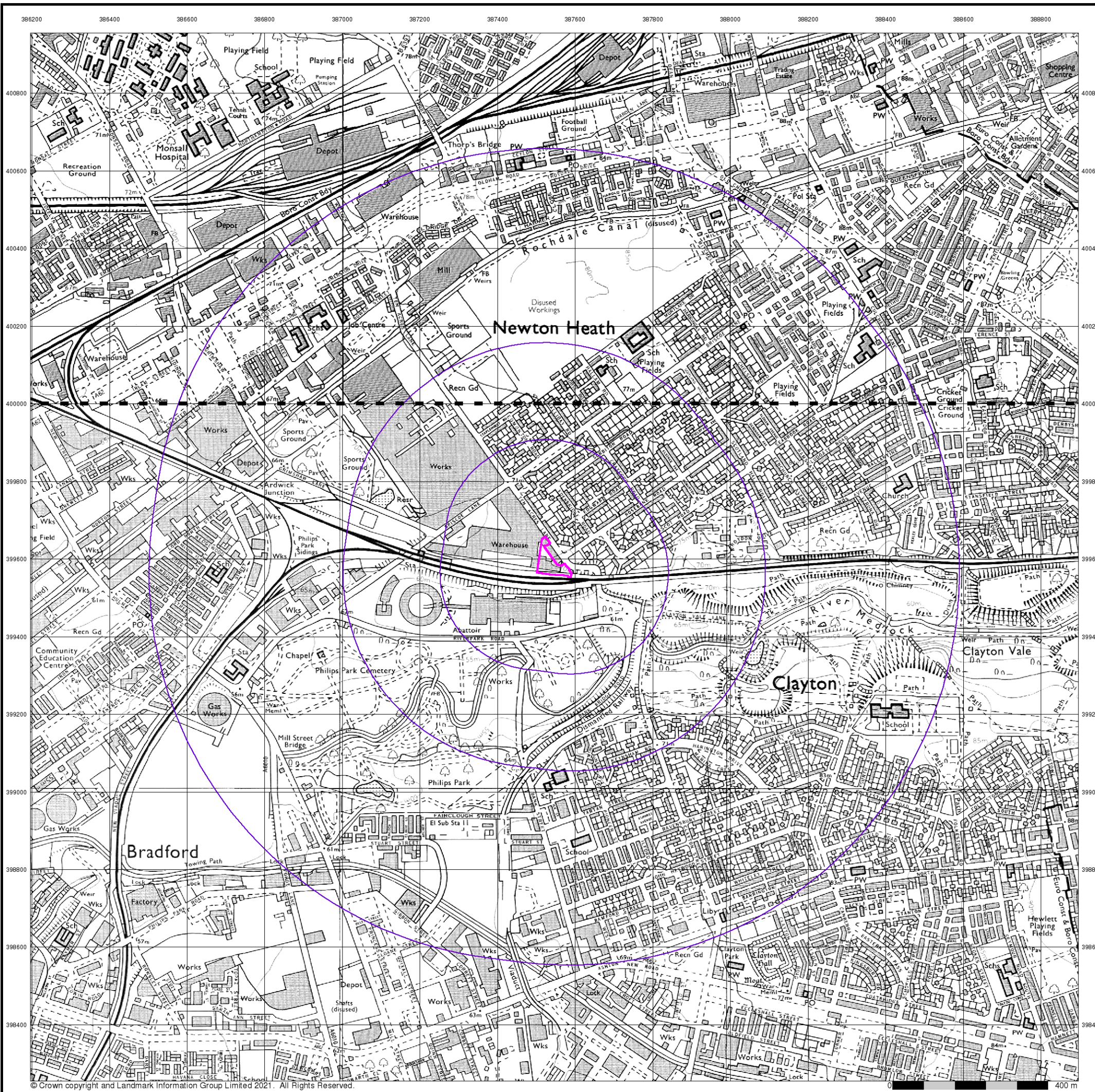
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Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

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Landmark
INFORMATION GROUP

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ORDNANCE SURVEY PLAN

Published 1990 - 1993

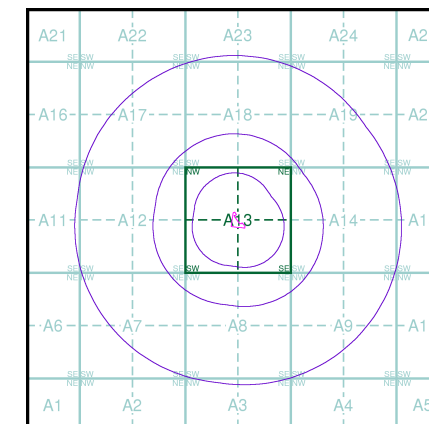
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SD80SE	1990
SJ89NE	1993

Historical Map - Slice A



Order Details

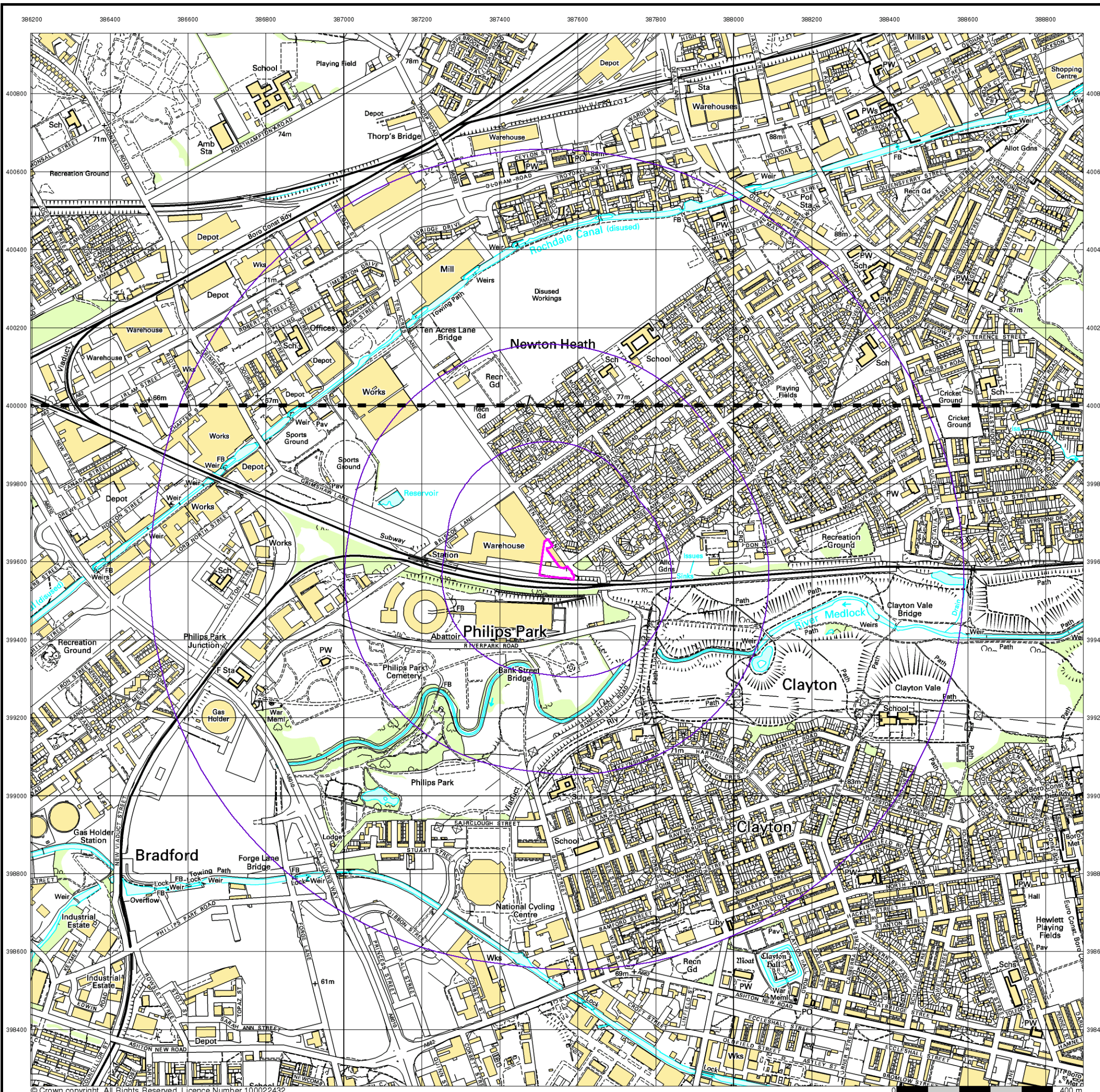
Order Number: 286314646_1_1
Customer Ref: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details

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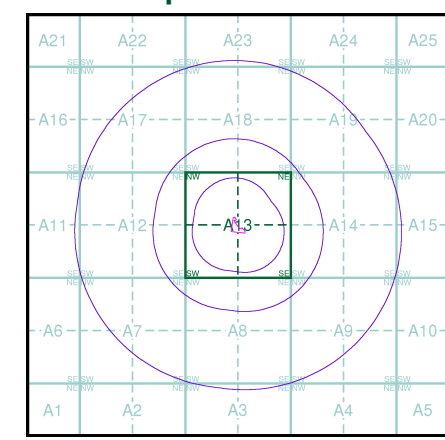
LK
GROUP
10k Raster Mapping
Published 1999
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

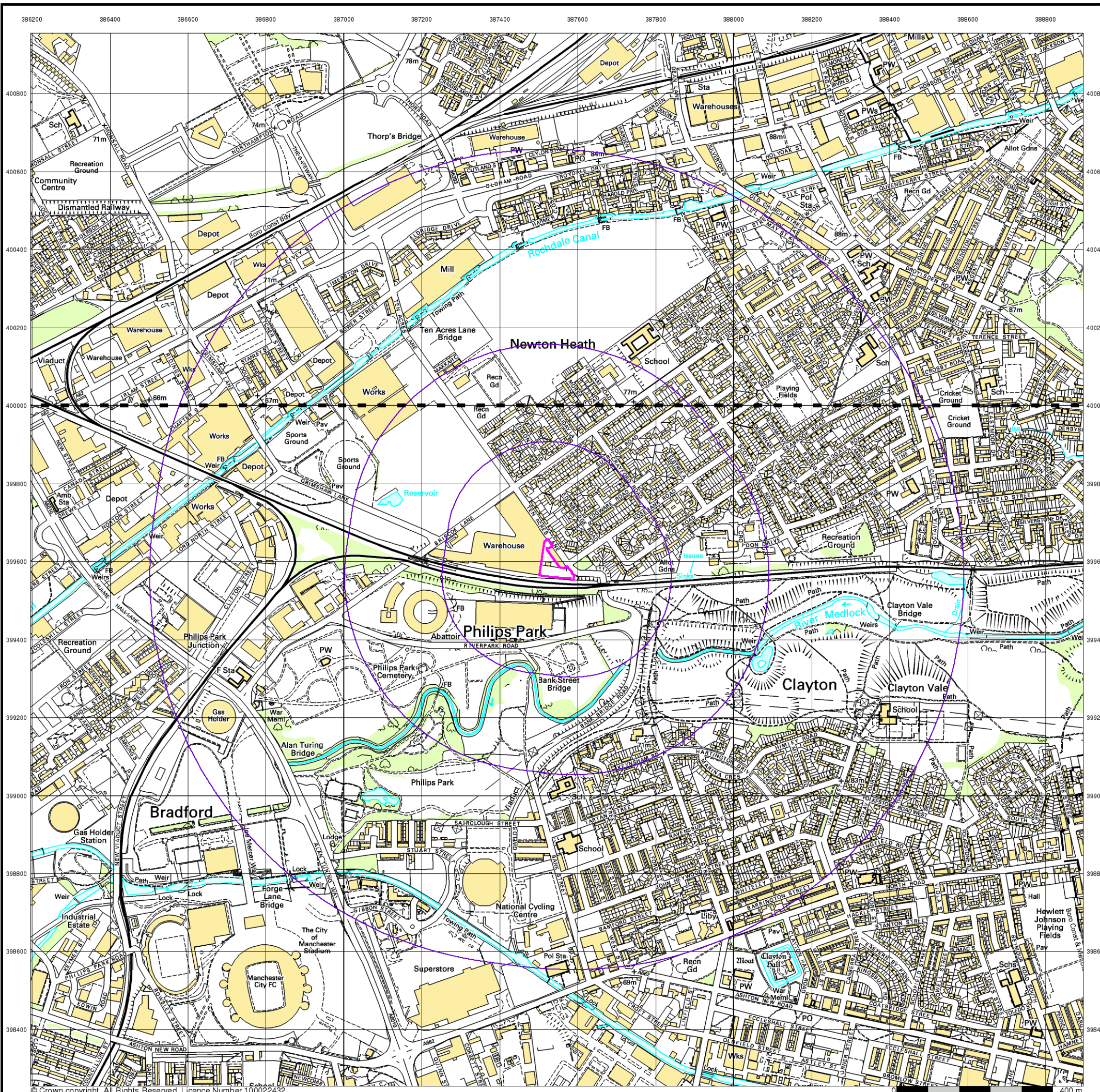
SD80SE	1999	1:10,000
SJ89NE	1999	1:10,000

Historical Map - Slice A



Order Details	
Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

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LK GROUP

10k Raster Mapping

Published 2006

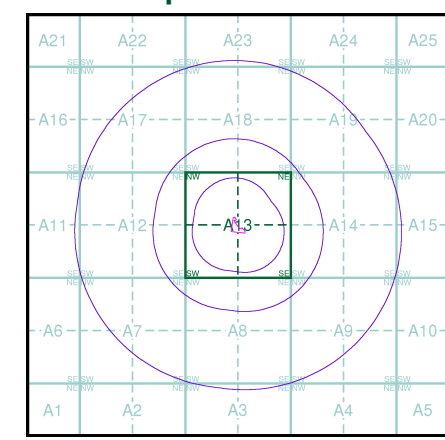
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

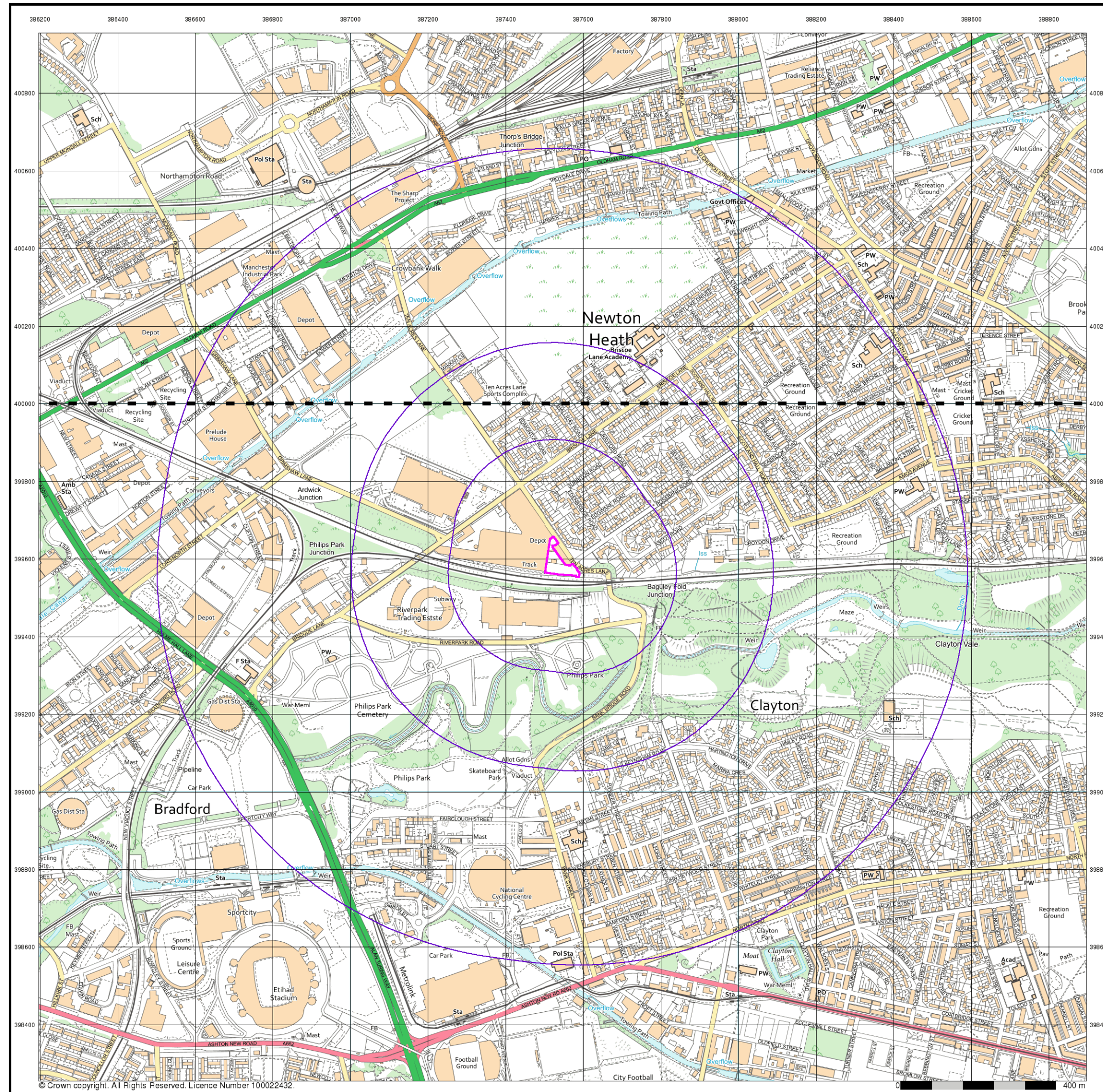
SD80SE	2006	1:10,000
SJ89NE	2006	1:10,000

Historical Map - Slice A



Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

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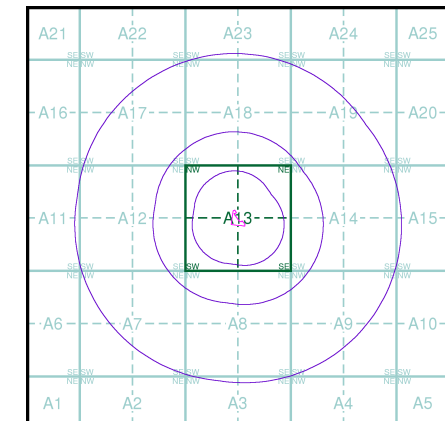


VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap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

Map Name(s) and Date(s)

SD80SE	2021	Variable
SJ89NE	2021	Variable

Historical Map - Slice A



Order Details

Order Number:	286314646_1_1
Customer Ref:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

Site Details

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Appendix B

Envirocheck Report

General

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

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

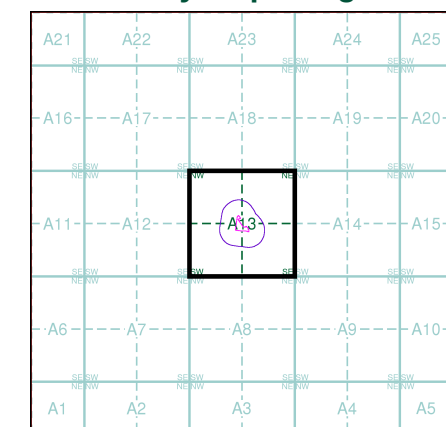
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

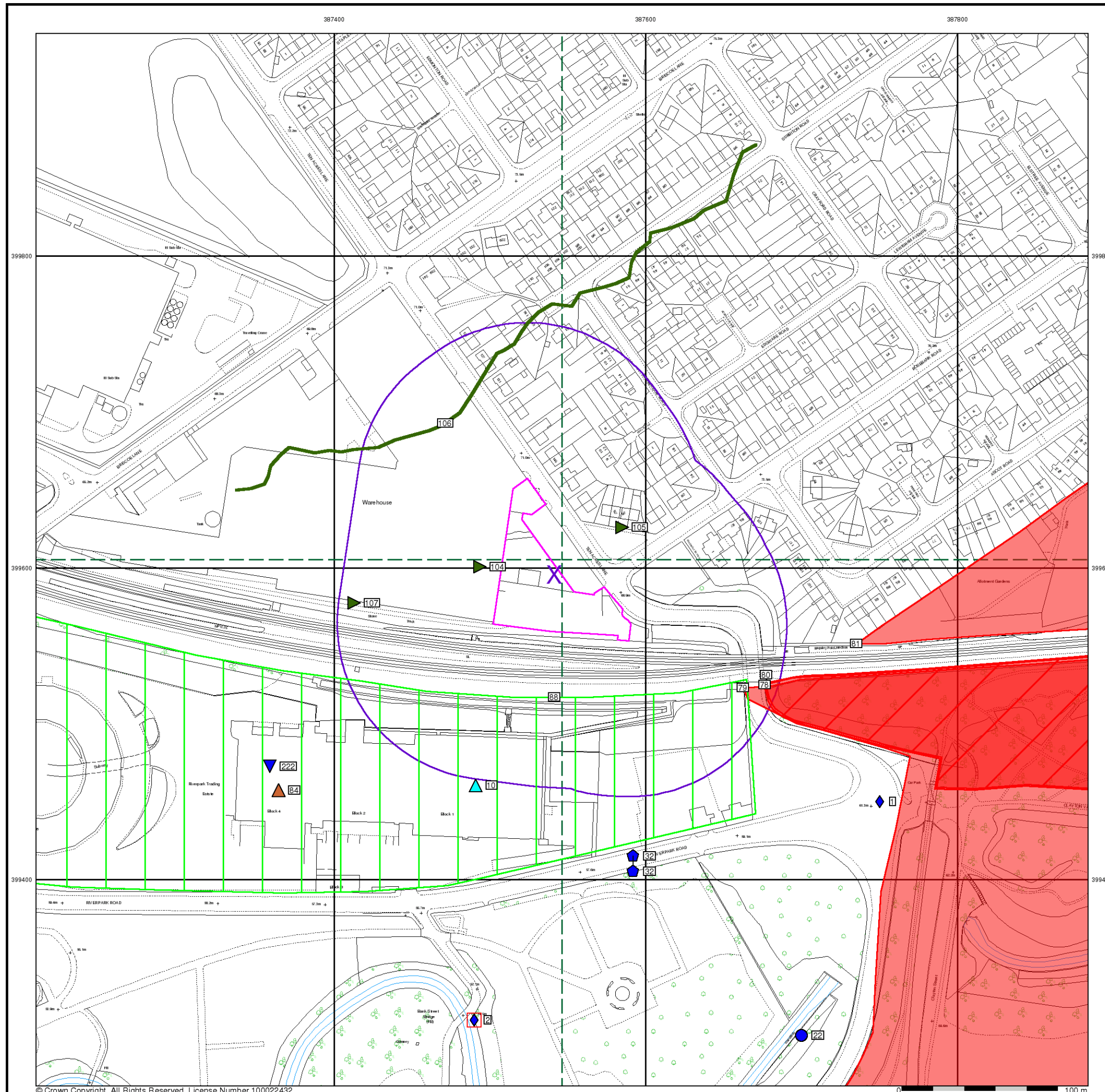


Order Details

Order Number: 286314646_1_1
 Customer Ref: LKC 21 1606
 National Grid Reference: 387540, 399600
 Slice: A
 Site Area (Ha): 0.38
 Plot Buffer (m): 100

Site Details

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	GFSDD	Glaciofluvial Sheet Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	MM	Manchester Marls Formation	Mudstone	Not Supplied - GUADALUPIAN
	CS	Collyhurst Sandstone Formation	Sandstone	Not Supplied - Cisuralian
	HTS	Holt Town Sandstone Bed	Sandstone	Not Supplied - Westphalian
	HA	Halesowen Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	GML	Great Mine Limestone	Limestone	Not Supplied - Westphalian
	PUCM	Pennine Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	NHSS	Newton Heath Sandstone	Sandstone	Not Supplied - Westphalian
	OPS	Openshaw Sandstone	Sandstone	Not Supplied - Westphalian
	WDR	Worsley Delf Rock	Sandstone	Not Supplied - Westphalian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	ETM	Etruria Formation	Sandstone and Mudstone	Not Supplied - Westphalian
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

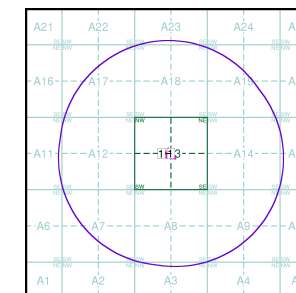
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	085
Map Name:	Manchester
Map Date:	2010
Bedrock Geology:	Available
Superficial Geology:	Not Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

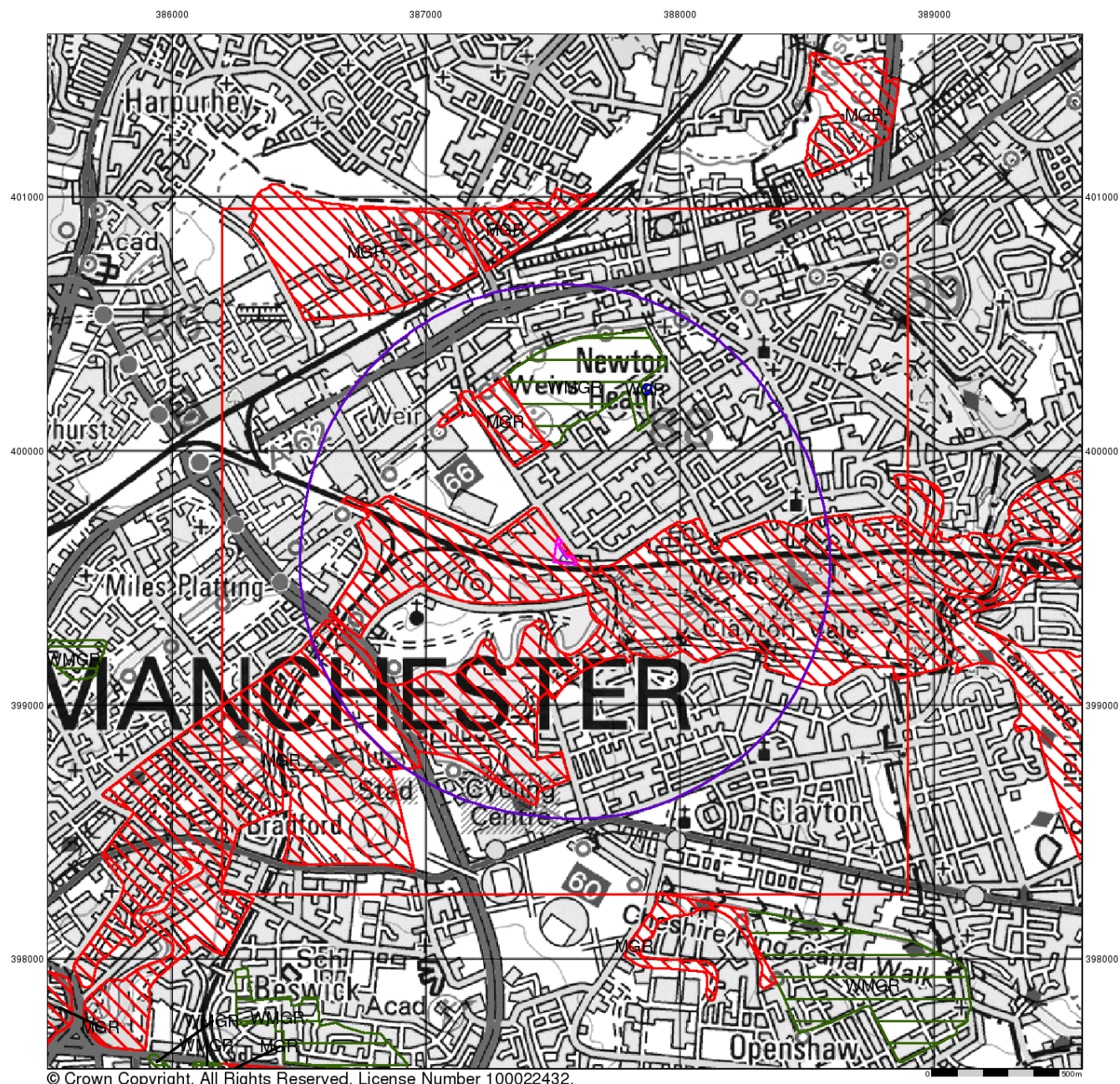


Order Details:

Order Number:	286314646_1_1
Customer Reference:	LKC 21 1606
National Grid Reference:	387540, 399600
Slice:	A
Site Area (Ha):	0.38
Search Buffer (m):	1000

Site Details:

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Artificial Ground and Landslip

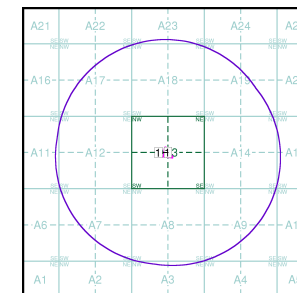
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

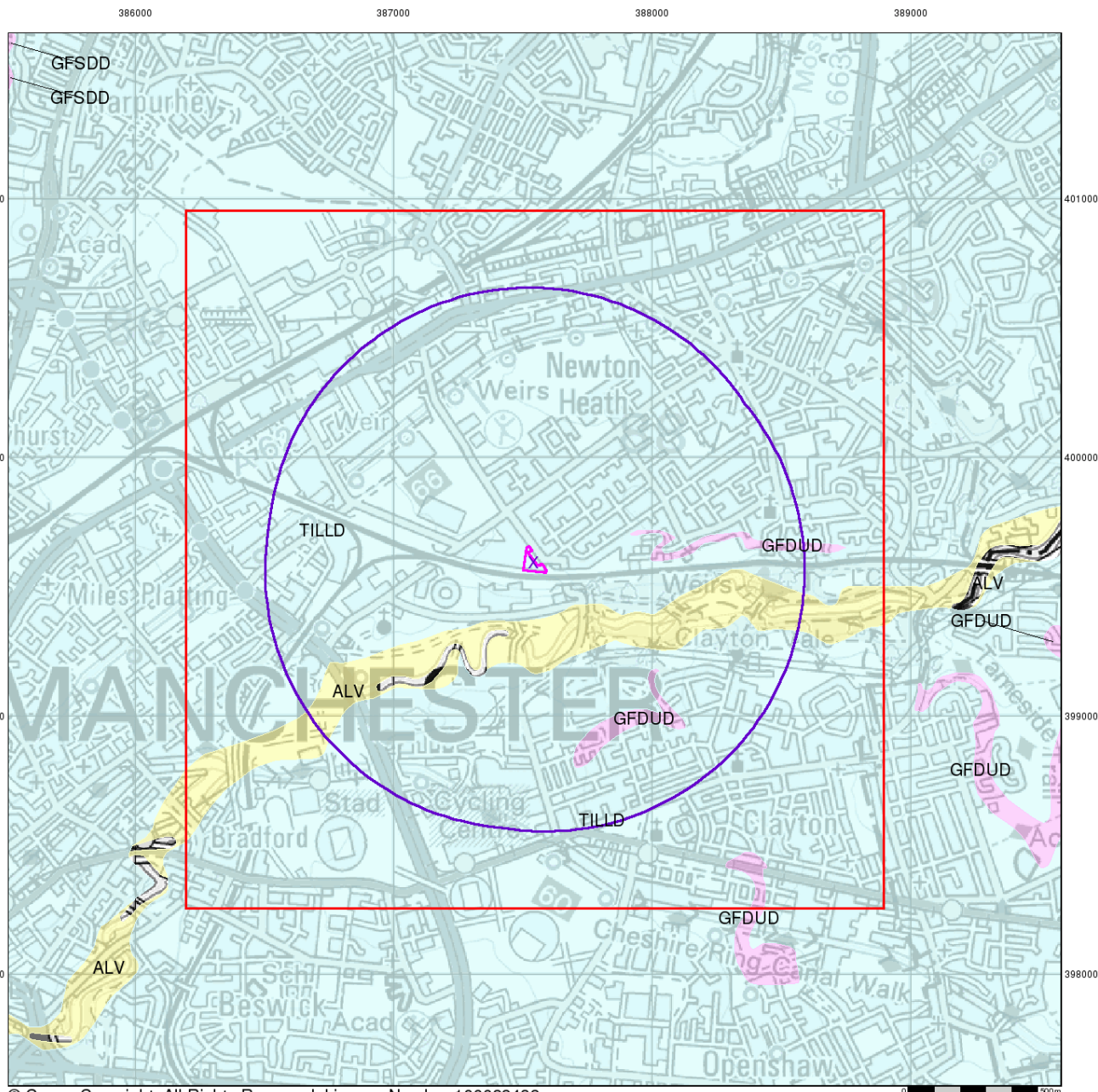
Order Number: 286314646_1_1
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 National Grid Reference: 387540, 399600
 Slice: A
 Site Area (Ha): 0.38
 Search Buffer (m): 1000

Site Details:

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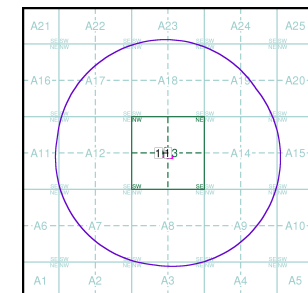
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

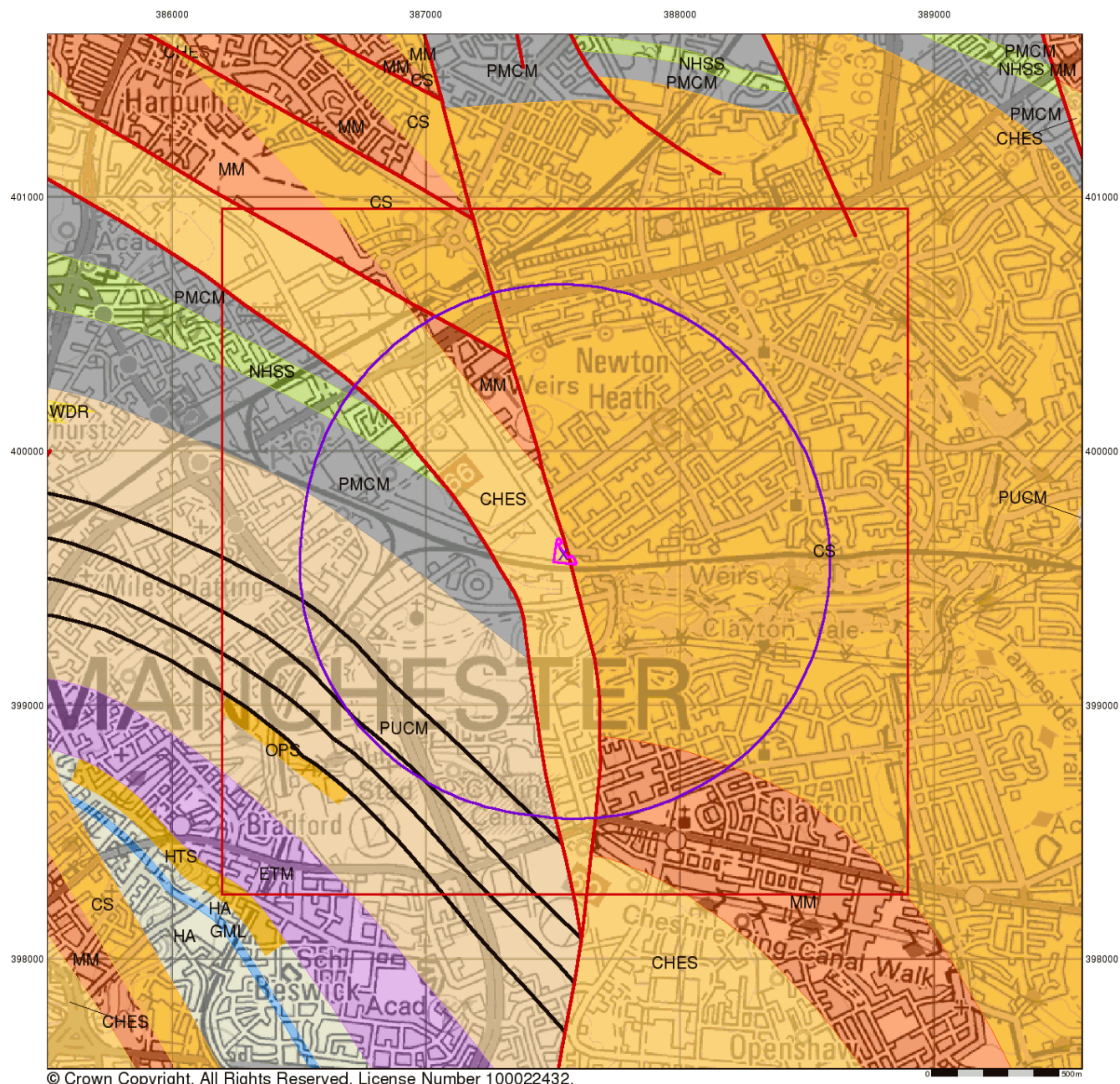
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Bedrock and Faults

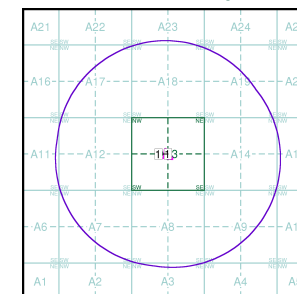
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

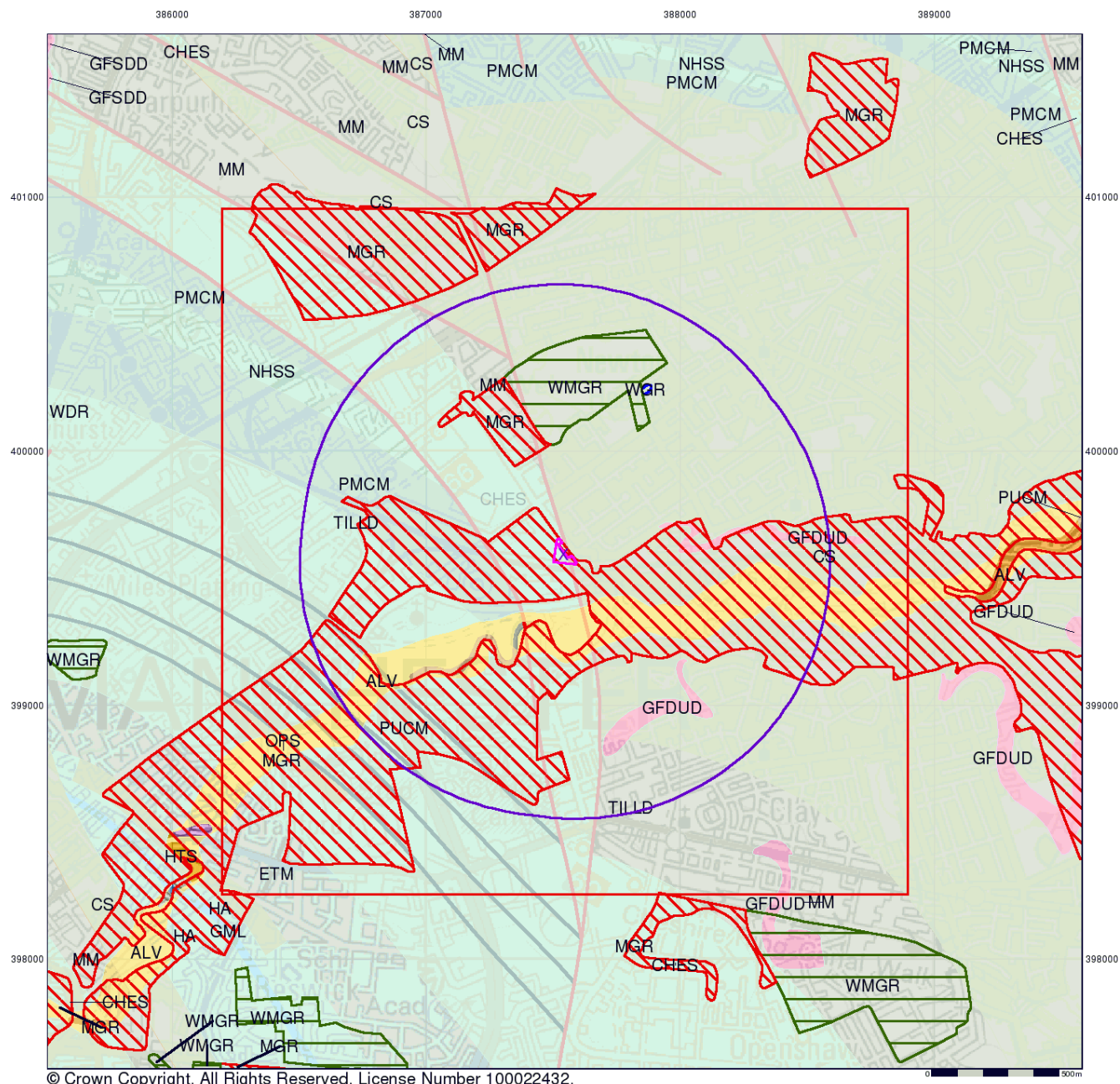
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Customer Reference: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
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Combined Surface Geology

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

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

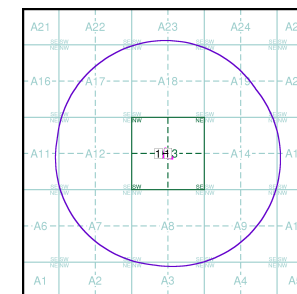
Additional Information

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

Contact

British Geological Survey
Kingsley Dunham Centre
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NG12 5GG
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Combined Geology Map - Slice A



Order Details:

Order Number: 286314646_1_1
Customer Reference: LKC 21 1606
National Grid Reference: 387540, 399600
Slice: A
Site Area (Ha): 0.38
Search Buffer (m): 1000

Site Details:

Whispering Smith Ltd, 245 Briscoe Lane, MANCHESTER, M40 2ST



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v15.0 14-Oct-2021

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

286314646_1_1

Customer Reference:

LKC 21 1606

National Grid Reference:

387540, 399600

Slice:

A

Site Area (Ha):

0.38

Search Buffer (m):

1000

Site Details:

Whispering Smith Ltd
245 Briscoe Lane
MANCHESTER
M40 2ST

Client Details:

L Consult
LK Consult Ltd
Unit 29 Eton Business Park
Eton Hill Road
Radcliffe
Greater Manchester
M26 2ZS

Report Section	Page Number
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		6	4	12
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 7				2
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 7		1		12
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9			2	12
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 12			1	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 12		1	1	
Water Abstractions	pg 12				6 (*34)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 22	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 23	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 23		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 23		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 23		2	4	34

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 29		1		
Historical Landfill Sites	pg 29		3	1	1
Integrated Pollution Control Registered Waste Sites	pg 30		1		
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 30			1	3
Local Authority Landfill Coverage	pg 31	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 31		1	4	11
Potentially Infilled Land (Water)	pg 32		11	31	66
Registered Landfill Sites	pg 37			2	2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 39				3
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 41				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 41				1
Planning Hazardous Substance Consents	pg 41				2
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 42	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 42	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 47		1		6
BGS Urban Soil Chemistry	pg 48		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 50	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 50	Yes	n/a	n/a	n/a
Mining Instability	pg 50	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 50	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 50	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 51	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 51	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 51	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 52		18	9	62
Fuel Station Entries	pg 59				2
Points of Interest - Commercial Services	pg 59		1	2	14
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 61				62
Points of Interest - Public Infrastructure	pg 66		1	2	31
Points of Interest - Recreational and Environmental	pg 69			1	10
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Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 71		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 71		1		
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 71				1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	387541 399596
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	166	1	387350 399500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	203	1	387300 399550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (W)	253	1	387250 399596
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	302	1	387450 399950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	305	1	387350 399300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	343	1	387541 400000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	351	1	387450 400000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	368	1	387450 399200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	369	1	387150 399700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (W)	379	1	387150 399750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	385	1	387350 400000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	403	1	387250 399250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	412	1	387400 400050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	418	1	387450 399150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	427	1	387400 399150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	442	1	387350 399150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	461	1	387300 399150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	467	1	387450 399100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (W)	476	1	387050 399750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	485	1	387250 399150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: United Utilities Water Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: River Park Road, Sso, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0118 Permit Version: 1 Effective Date: 15th September 1993 Issued Date: Not Supplied Revocation Date: 15th September 1993 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	192	2	387750 399450
2	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Briscoe Lane Cso Briscoe Lane / Riverpark Rd Jnct, ., Manchester, Greater Manchester, M40 2nl Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982735 Permit Version: 2 Effective Date: 31st August 1999 Issued Date: Not Supplied Revocation Date: 3rd December 2019 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13SW (S)	227	2	387470 399340
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Briscoe Lane Cso Briscoe Lane / Riverpark Rd Jnct, ., Manchester, Greater Manchester, M40 2nl Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982735 Permit Version: 3 Effective Date: 4th December 2019 Issued Date: 4th December 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13SW (S)	229	2	387470 399338
2	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Riverpark Road, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0337 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A13SW (S)	238	2	387460 399330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Riverpark Road, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982735 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 30th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Manually corrected supplier location	A13SW (S)	238	2	387460 399330
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Clayton Sso Bank Street, Urmston, Trafford, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016940385 Permit Version: 1 Effective Date: 23rd November 1982 Issued Date: Not Supplied Revocation Date: 31st March 1998 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m	A13SW (S)	245	2	387480 399320
2	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: River Park Road/Bank St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0119 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A13SW (S)	254	2	387490 399310
2	Discharge Consents Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: River Park Road/Bank St, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0119 Permit Version: 1 Effective Date: 1st April 1991 Issued Date: Not Supplied Revocation Date: 31st December 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Not Supplied Environment: Receiving Water: Not Supplied Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A13SW (S)	254	2	387490 399310

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bank Street Cso, Clayton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982847 Permit Version: 2 Effective Date: 15th September 1996 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8NW (S)	333	2	387490 399230
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Bank Street Cso, Clayton, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982847 Permit Version: 1 Effective Date: 3rd January 1995 Issued Date: Not Supplied Revocation Date: 14th September 1996 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NW (S)	333	2	387490 399230
4	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Mill St At Park Inn, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0100 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 18th July 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	819	2	386850 399070
4	Discharge Consents Operator: United Utilities Water Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Mill St/Forge Lane, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0099 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 26th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	829	2	386830 399080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Culceth Lane Cso 285m Sw Of 224 Culceth Road, Or 280m N Of Vale St/Himley Rd, Manchester, Greater Manchester, M40 1wb Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0313 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A14SE (E)	821	2	388400 399430
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Culceth Lane Cso 285m Sw Of 224 Culceth Road, Or 280m N Of Vale St/Himley Rd, Manchester, Greater Manchester, M40 1wb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982731 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 30th August 1999 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Authorisation revoked Positional Accuracy: Manually corrected supplier location	A14SE (E)	821	2	388400 399430
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Culceth Lane Cso 285m Sw Of 224 Culceth Road, Or 280m N Of Vale St/Himley Rd, Manchester, Greater Manchester, M40 1wb Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982731 Permit Version: 2 Effective Date: 31st August 1999 Issued Date: Not Supplied Revocation Date: 1st October 2019 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A14SE (E)	822	2	388400 399425
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Culceth Lane Cso 285m Sw Of 224 Culceth Road, Or 280m N Of Vale St/Himley Rd, Manchester, Greater Manchester, M40 1wb Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016982731 Permit Version: 3 Effective Date: 2nd October 2019 Issued Date: 2nd October 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14SE (E)	827	2	388406 399430

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Lord North Street/Clifton St Cso Lord North Street/Clifton St Jnc, ., Manchester, Greater Manchester, M40 2hj Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 5 Effective Date: 20th November 2019 Issued Date: 20th November 2019 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NW (W)	886	2	386622 399658
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Lord North Street/Clifton St Cso Lord North Street/Clifton St Jnc, ., Manchester, Greater Manchester, M40 2hj Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 4 Effective Date: 5th February 2016 Issued Date: 5th February 2016 Revocation Date: 19th November 2019 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NW (W)	888	2	386620 399660
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Lord North Street/Clifton St Cso Lord North Street/Clifton St Jnc, ., Manchester, Greater Manchester, M40 2hj Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 3 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 4th February 2016 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12NW (W)	888	2	386620 399660
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Lord North Street/Clifton St Cso Lord North Street/Clifton St Jnc, ., Manchester, Greater Manchester, M40 2hj Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01man0069 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A12NW (W)	888	2	386620 399660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Lord North Street/Clifton St Cso Lord North Street/Clifton St Jnc, ., Manchester, Greater Manchester, M40 2hj Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0069 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A12NW (W)	888	2	386620 399660
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hulme Hall Lane Opp Falmo, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0260 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A11SE (W)	993	2	386520 399420
8	Integrated Pollution Prevention And Control Name: Princes Ltd Location: Manchester Drinks Manufacturer, Lord North Street,, Newton Heath,, Manchester, M40 2HJ Authority: Environment Agency, North West Region Permit Reference: Tp3832pn Original Permit Ref: Tp3832pn Effective Date: 13th October 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A12NW (W)	771	2	386767 399835
9	Integrated Pollution Prevention And Control Name: Princes Ltd Location: Manchester Soft Drinks - Epr/Tp3832pn, Lord North Street, Newton Heath,, Manchester, M40 2HJ Authority: Environment Agency, North West Region Permit Reference: CP3138CX Original Permit Ref: Tp3832pn Effective Date: 11th July 2012 Status: Effective Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 6.8 A(1) (D) (II) Activity Description: Animal, Vegetable & Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day Primary Activity: Y	A12NW (W)	856	2	386660 399724
10	Local Authority Pollution Prevention and Controls Name: Grm Insulation Solutions Location: Block 1, Riverpark Road, Eastlands, Manchester, M40 2xp Authority: Manchester City Council, Environmental Health Department Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/32 Adhesive coating Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13SW (S)	106	3	387491 399459

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Local Authority Pollution Prevention and Controls Name: Weir Pumps Location: Park Works, Newton Heath, Manchester, Lancashire, M40 2ba Authority: Manchester City Council, Environmental Health Department Permit Reference: 37/93 Dated: 10th February 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	585	3	387122 400084
12	Local Authority Pollution Prevention and Controls Name: Weir Pumps Location: Park Works, Newton Heath, MANCHESTER, Lancashire, M40 2BA Authority: Manchester City Council, Environmental Health Department Permit Reference: 37/93 Dated: 10th February 1993 Process Type: Local Authority Air Pollution Control Description: PG2/3 Electrical and rotary furnaces Status: Authorised Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	604	3	387069 400057
13	Local Authority Pollution Prevention and Controls Name: Mathers Foundry Ltd Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M40 2BA Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/26/05/AW Dated: 15th December 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG2/4 Iron, steel and non-ferrous metal foundry processes Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	652	3	386996 400044
13	Local Authority Pollution Prevention and Controls Name: Mathers Foundry Ltd Location: Park Works, Ten Acres Lane/Briscoe Lane, Newton Heath, M10 6ba Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/26/05/AW Dated: 15th December 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG2/3 Electrical and rotary furnaces Status: Permitted Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	652	3	386996 400044
14	Local Authority Pollution Prevention and Controls Name: Northern Butchers Hide Markets Ltd Location: 228 Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2XG Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/52/93 Dated: 1st March 1995 Process Type: Local Authority Air Pollution Control Description: PG6/21 Hide and skin processes Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A12SW (W)	678	3	386831 399468
15	Local Authority Pollution Prevention and Controls Name: Drummer Boy Trading Company Location: Bower Street, Newton Heath, Manchester, M12 6BL Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/96/97 Dated: 17th October 1997 Process Type: Local Authority Air Pollution Control Description: PG6/15 Coating in drum manufacturing and reconditioning processes Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	732	3	386887 400025
16	Local Authority Pollution Prevention and Controls Name: North Manchester Commercials Location: Briscoe Lane, Newton Heath, MANCHESTER, Lancashire, M40 2NL Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/78/95/03 Dated: 1st November 1995 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location	A12SW (W)	752	3	386776 399369

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Local Authority Pollution Prevention and Controls Name: Briscoe Lane Service Station Location: 86-90 Briscoe Lane, Newton Heath, MANCHESTER, M40 2TH Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/PFS/RM/049/06 Dated: 28th December 2001 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	754	3	388016 400228
18	Local Authority Pollution Prevention and Controls Name: Trafford Rubber Products Location: North Manchester Sites, 55 Clifton Street, Miles Platting, Manchester, Greater Manchester, M10 8hf Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/63/93 Dated: 12th September 1994 Process Type: Local Authority Air Pollution Control Description: PG6/28 Rubber processes Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	767	3	386737 399605
19	Local Authority Pollution Prevention and Controls Name: Pst Concrete Fence Ltd Location: Bank Street, Clayton, Manchester, Greater Manchester, M11 4by Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/101/00 Dated: 1st December 1995 Process Type: Local Authority Air Pollution Control Description: PG3/10 China and ball clay Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (S)	822	3	387499 398736
20	Local Authority Pollution Prevention and Controls Name: E3g Limited Location: Bank Street, Clayton, MANCHESTER, Lancashire, M11 4AS Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/29/05/AW Dated: 29th December 1993 Process Type: Local Authority Air Pollution Control Description: PG6/28 Rubber processes Status: Authorised Positional Accuracy: Manually positioned to the address or location	A8SE (S)	925	3	387579 398629
21	Local Authority Pollution Prevention and Controls Name: Hanson Aggregates Location: Norton Street, Miles Platting, MANCHESTER, Lancashire, M40 8HD Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/04/05/AW Dated: 5th August 1992 Process Type: Local Authority Air Pollution Control Description: PG3/1 Blending, packing, loading and use of bulk cement Status: Authorised Positional Accuracy: Manually positioned to the address or location	A12NW (W)	935	3	386591 399792
	Nearest Surface Water Feature	A13SW (S)	231	-	387461 399338
22	Pollution Incidents to Controlled Waters Property Type: Manufacturing: Metal Fabrication Location: Nall St, Levenshulme, MANCHESTER, Greater Manchester Authority: Environment Agency, North West Region Pollutant: Organic Chemicals : Oils: Mixed / Unidentified / Waste Note: Not Supplied Incident Date: 10th May 1999 Incident Reference: 28748 Catchment Area: River Mersey (Etherow) Receiving Water: River Stretch (Freshwater) Cause of Incident: Un-Consented Works Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	277	2	387700 399300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Agriculture: Manure Compound Location: M C R Abatoir, Riverpark Road Authority: Environment Agency, North West Region Pollutant: General Biodegradable : Solid Manure Note: Not Supplied Incident Date: 6th January 1999 Incident Reference: 362 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	344	2	387200 399400
24	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: River Medlock Incident Date: 1st September 1995 Incident Reference: 95632224 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	534	2	388100 399400
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: River Mersey; No Pollution Found Incident Date: 24th February 1994 Incident Reference: 94640356 Catchment Area: Mersey - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	690	2	388000 399000
26	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: River Medlock Incident Date: 17th June 1991 Incident Reference: 91630948 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	755	2	388300 399300
27	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Not Supplied Incident Date: 13th November 1995 Incident Reference: 95632794 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	826	2	388400 399400
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Pollution Found Incident Date: 23rd July 1996 Incident Reference: 96631643 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	827	2	388400 399395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: River Medlock; Trash Incident Date: 13th November 1996 Incident Reference: 96632253 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: CSO Normal Operation Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	830	2	388405 399405
27	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: River Medlock; Sewage Trash Incident Date: 25th October 1996 Incident Reference: 96632296 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	831	2	388405 399400
27	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: River Medlock; Sewage Trash Incident Date: 4th November 1996 Incident Reference: 96632288 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	832	2	388405 399395
28	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 21st April 1993 Incident Reference: 93630820 Catchment Area: Rochdale Canal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18NE (N)	861	2	387700 400500
29	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Crude Sewage Note: Tributary Moston Brk Incident Date: 15th September 1995 Incident Reference: 95612350 Catchment Area: Irk Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	888	2	388300 400100
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Fire water / Foam Note: None Pollution Found Incident Date: 17th April 1996 Incident Reference: 96610796 Catchment Area: Medlock Receiving Water: Not Given Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	927	2	386700 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: Rochdale Canal; None Pollution Found Incident Date: 23rd May 1995 Incident Reference: 95611216 Catchment Area: Rochdale Canal Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (N)	997	2	387200 400600
	River Quality Name: Medlock GQA Grade: River Quality E Reach: Lords Bk To Irwell Estimated Distance (km): 9.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A8NW (S)	362	2	387459 399205
	River Quality Name: Rochdale Canal GQA Grade: River Quality B Reach: Qsl At Summit To Empress Processing Estimated Distance (km): 27.6 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A17SE (NW)	610	2	387202 400175
	River Quality Name: Ashton Canal GQA Grade: River Quality C Reach: Robertsons To Rochdale Canal Estimated Distance (km): 6.4 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A7SE (S)	908	2	387198 398708
32	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 25th December 2003 Incident Reference: 208157 Water Impact: Category 3 - Minor Incident Air Impact: Category 2 - Significant Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Smoke Pollutant: Contaminated Water: Firefighting Run-Off	A13SE (S)	139	2	387592 399415
33	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, South Area Incident Date: 19th March 2005 Incident Reference: 299985 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A8NW (S)	339	2	387500 399223
34	Water Abstractions Operator: Cochrane & Gibbs Ltd Licence Number: 2569006022 Permit Version: Not Supplied Location: Rochdale Canal, Bower Street, Newton Heath, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Boiler Feed & Manufacturing Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 773 Yearly Rate (m3): 168202 Details: Additional Purpose: Boiler feed; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	707	2	386901 400001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Water Abstractions Operator: V H E Construction Limited Licence Number: 2569006040 Permit Version: Not Supplied Location: The River, Medlock, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Dust Suppression Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 20 Yearly Rate (m3): 2000 Details: Licence Status: Lapsed Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	842	2	386800 399100
36	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	973	2	386900 398800
36	Water Abstractions Operator: British Waterways Board Licence Number: 2569006992 Permit Version: Not Supplied Location: Ashton Canal, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Drinking; Cooking; Sanitary; Washing For Industrial Premises Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 1136500 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	977	2	386900 398795
37	Water Abstractions Operator: Hanson Quarry Products Europe Limited Licence Number: 2569005061 Permit Version: 3 Location: Borehole At Norton Street, Miles Platting, Manchester Authority: Environment Agency, North West Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Norton Street, Miles Platting Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th August 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	975	2	386550 399790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	Water Abstractions Operator: Hanson Quarry Products Europe Ltd Licence Number: 2569005061 Permit Version: 2 Location: Borehole At Norton Street, Miles Platting, Manchester Authority: Environment Agency, North West Region Abstraction: Construction: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Norton Street, Miles Platting Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12NW (W)	975	2	386550 399790
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1154	2	387600 398400
	Water Abstractions Operator: British Waterways Licence Number: 2569006996 Permit Version: 100 Location: Ashton Canal, Manchester [Vitacom] Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 227300 Details: (British Vita Ltd) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1159	2	387600 398395
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1173	2	387800 398400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Canal And River Trust Licence Number: 2569006997 Permit Version: 100 Location: Ashton Canal Manchester Clayton Analine Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 3500420 Details: Land At Ciba Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3NE (S)	1178	2	387800 398395
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006037 Permit Version: 100 Location: Boreholes X 2 On Premises At Croft Street Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 655 Yearly Rate (m3): 111832 Details: Premises Croft St, Clayton, M/Cr Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (S)	1195	2	387900 398400
	Water Abstractions Operator: Victor Wolf Ltd Licence Number: 2569007020 Permit Version: Not Supplied Location: Two Boreholes, Croft Street, Clayton, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2182 Yearly Rate (m3): 372772 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (S)	1200	2	387900 398395
	Water Abstractions Operator: Evonik Chemicals Ltd Licence Number: 2569006037 Permit Version: 104 Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1206	2	387860 398379

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Evonik Chemicals Limited Licence Number: 2569006037 Permit Version: 103 Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 9th March 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1206	2	387860 398379
	Water Abstractions Operator: Air Products (Chemicals) Limited Licence Number: 2569006037 Permit Version: 102 Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 17th January 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1206	2	387860 398379
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006037 Permit Version: 101 Location: Borehole 1 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1206	2	387860 398379
	Water Abstractions Operator: Evonik Chemicals Ltd Licence Number: 2569006037 Permit Version: 104 Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1209	2	387859 398375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Evonik Chemicals Limited Licence Number: 2569006037 Permit Version: 103 Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 9th March 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1209	2	387859 398375
	Water Abstractions Operator: Air Products (Chemicals) Limited Licence Number: 2569006037 Permit Version: 102 Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 17th January 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1209	2	387859 398375
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006037 Permit Version: 101 Location: Borehole 2 On Premises At Croft Street, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Croft Street, Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1209	2	387859 398375
	Water Abstractions Operator: Watney Mann (North) Ltd Licence Number: 2569005004 Permit Version: Not Supplied Location: Two Boreholes, NEWTON HEATH Authority: Environment Agency, North West Region Abstraction: Cooling & Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 1364 Yearly Rate (m3): 478435 Details: Additional Purpose: Cooling; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (NW)	1303	2	386900 400800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Evonik Chemicals Ltd Licence Number: 2569006036 Permit Version: 104 Location: Borehole On Premises At Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton, Manchester Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 19th April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (S)	1350	2	388027 398277
	Water Abstractions Operator: Evonik Chemicals Limited Licence Number: 2569006036 Permit Version: 103 Location: Borehole On Premises At Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th March 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (S)	1350	2	388027 398277
	Water Abstractions Operator: Air Products (Chemicals) Limited Licence Number: 2569006036 Permit Version: 102 Location: Borehole On Premises At Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th January 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (S)	1350	2	388027 398277
	Water Abstractions Operator: Air Products (Chemicals) Plc Licence Number: 2569006036 Permit Version: 101 Location: Borehole On Premises At Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th September 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (S)	1350	2	388027 398277

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (SE)	1354	2	388100 398300
	Water Abstractions Operator: Canal And River Trust Licence Number: 2569006995 Permit Version: 100 Location: Ashton Canal, Manchester Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 68190 Details: Land At Air Products Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NW (SE)	1359	2	388100 398295
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006036 Permit Version: 100 Location: Borehole On Premises At Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3600 Yearly Rate (m3): 372772 Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SW (S)	1415	2	388000 398200
	Water Abstractions Operator: Air Products Chemicals Ltd Licence Number: 2569006036 Permit Version: 100 Location: Borehole On Premises At Clayton Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st July 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4SW (S)	1415	2	388000 398200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Ciba Specialty Chemicals Plc Licence Number: 2569006026 Permit Version: 101 Location: Borehole At Premises, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2837 Yearly Rate (m3): 633949 Details: Premises At Clayton Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A3SE (S)	1458	2	387700 398100
	Water Abstractions Operator: Ciba Specialty Chemicals Plc Licence Number: 2569006026 Permit Version: 101 Location: Borehole At Premises, Clayton, Manchester Authority: Environment Agency, North West Region Abstraction: Chemicals: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Clayton Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1458	2	387700 398100
	Water Abstractions Operator: Manchester Abattoir Licence Number: 2569006021 Permit Version: 100 Location: Borehole At Clayton Mill Bridge, Manchester Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 909 Yearly Rate (m3): 250030 Details: Land At Phillips Park, Manchester Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd May 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SE (E)	1512	2	389100 399500
	Water Abstractions Operator: Manchester City Football Club Limited Licence Number: Nw/069/0006/005/R01 Permit Version: 1 Location: Borehole At Openshaw, West Ashton Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1525	2	387681 398032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Manchester City Football Club Limited Licence Number: Nw/069/0006/005/R01 Permit Version: 1 Location: Borehole At Openshaw, West Ashton Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1525	2	387681 398032
	Water Abstractions Operator: Manchester City Football Club Limited Licence Number: Nw/069/0006/005 Permit Version: 1 Location: Borehole At Openshaw, West Ashton Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1525	2	387681 398032
	Water Abstractions Operator: Manchester City Football Club Limited Licence Number: Nw/069/0006/005 Permit Version: 1 Location: Borehole At Openshaw, West Ashton Authority: Environment Agency, North West Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1525	2	387681 398032
	Water Abstractions Operator: Manchester City Football Club Limited Licence Number: Nw/069/0006/005 Permit Version: 1 Location: Borehole At Openshaw, West Ashton Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 14th November 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1525	2	387681 398032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Manchester City Council Licence Number: 2569006006 Permit Version: Not Supplied Location: Borehole, Openshaw, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2273 Yearly Rate (m3): 2273 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1766	2	387800 397800
	Water Abstractions Operator: British Waterways Board Licence Number: 2569006030 Permit Version: Not Supplied Location: Manchester, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Canal Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Ashton Canal Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1776	2	385900 398800
	Water Abstractions Operator: British Waterways Licence Number: 2569006990 Permit Version: 100 Location: Ashton Canal, Manchester [Distillers, Ancoats] Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 750090 Details: (Lancashire Tar Distillers Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1969 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	1778	2	385900 398795
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial: >90% Patchiness: >10m Superficial Thickness: >10m Superficial Recharge: Low	A13SW (W)	0	4	387541 399596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: >10m Superficial Recharge: Low	A13SW (S)	0	4	387541 399563
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13SW (W)	0	4	387541 399596
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (S)	0	4	387541 399563
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (W)	0	4	387541 399596
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	220	2	387485 399345
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (S)	224	2	387490 399340
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 934.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A13SW (S)	233	5	387462 399335
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A13SE (SE)	247	5	387743 399361
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A13SW (S)	251	5	387482 399314

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 380.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A13SW (S)	254	5	387483 399310
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 845.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A13SE (SE)	282	5	387805 399373
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SW (E)	299	5	387889 399570
44	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 354.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A17SE (NW)	652	5	387104 400156
45	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 65.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 2	A17SE (NW)	657	5	387179 400216
46	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 52.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A17SE (NW)	657	5	387179 400216
47	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 110.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18SW (NW)	665	5	387220 400248
48	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 69.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 2	A18NW (N)	693	5	387308 400315
49	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 55.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NW (N)	693	5	387308 400315

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
50	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 66.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 2	A17SE (NW)	705	5	386901 399998
51	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 56.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A17SE (NW)	705	5	386901 399998
52	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 92.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NW (N)	714	5	387351 400350
53	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 164.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A17SW (NW)	729	5	386857 399964
54	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 25.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A18NW (N)	747	5	387429 400398
55	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 56.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NW (N)	747	5	387429 400398
56	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 41.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 2	A18NW (N)	766	5	387442 400418
57	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 167.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NW (N)	767	5	387480 400422
58	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 61.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 2	A12NW (W)	816	5	386727 399863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A12NW (W)	816	5	386727 399863
60	OS Water Network Lines Watercourse Form: Lock or flight of locks Watercourse Length: 25.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A12NW (W)	822	5	386720 399857
61	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 67.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 2	A18NE (N)	823	5	387639 400472
62	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 59.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NE (N)	823	5	387639 400472
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A7NW (SW)	832	5	386829 399076
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 519.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A7NW (SW)	833	5	386828 399075
65	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 16.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A12NW (W)	837	5	386700 399841
66	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 310.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A18NE (N)	842	5	387698 400481
67	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 368.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rochdale Canal Catchment Name: Mersey Primacy: 1	A12NW (W)	848	5	386687 399831

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 542.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ashton Canal Catchment Name: Mersey Primacy: 1	A7SE (SW)	870	5	387159 398765
69	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 63.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ashton Canal Catchment Name: Mersey Primacy: 1	A7SE (SW)	959	5	386930 398795
70	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 29.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A7SE (SW)	959	5	386930 398795
71	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 45.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	960	5	388550 399556
72	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ashton Canal Catchment Name: Mersey Primacy: 1	A8SW (S)	967	5	387415 398600
73	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 220.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ashton Canal Catchment Name: Mersey Primacy: 1	A8SW (S)	970	5	387420 398597
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 855.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: River Medlock Catchment Name: Mersey Primacy: 1	A14SE (E)	980	5	388558 399411
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A14SE (E)	980	5	388558 399411
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A15SW (E)	992	5	388574 399439

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Mersey Primacy: 1	A15SW (E)	993	5	388575 399442

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	BGS Recorded Landfill Sites Site Name: Clayton Vale Location: Clayton, MANCHESTER, Gt Manchester, M11 Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13SE (SE)	92	-	387676 399525
79	Historical Landfill Sites Licence Holder: Central Electricity Generating Board Location: Bank Bridge Road, Manchester Name: Clayton Vale Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16480 First Input Date: 31st December 1965 Last Input Date: 31st December 1968 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9729 BGS Ref: Not Supplied Other Ref: RD/LIC/045/76,GDO F001	A13SE (SE)	80	2	387663 399523
80	Historical Landfill Sites Licence Holder: Not Supplied Location: Clayton, Manchester, Greater Manchester Name: Clayton Vale Operator Location: Stuart Street Power Station Boundary Accuracy: As Supplied Provider Reference: EAHLD32041 First Input Date: 31st December 1901 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2777 Other Ref: Not Supplied	A13SE (SE)	93	2	387677 399526
81	Historical Landfill Sites Licence Holder: Central Electricity Generating Board Location: Bank Bridge Road, Manchester Name: Clayton Vale Power Station Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16476 First Input Date: 31st December 1901 Last Input Date: 31st December 1980 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9178 BGS Ref: Not Supplied Other Ref: GDO F001,RD/LIC/045/76	A13SE (E)	146	2	387735 399551
82	Historical Landfill Sites Licence Holder: Messrs H Evers Location: Mitchell Street, Newton Heath, Manchester, Greater Manchester Name: Land adjacent to Mitchell Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16455 First Input Date: 1st May 1973 Last Input Date: 31st December 1984 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial and Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9171 BGS Ref: Not Supplied Other Ref: F008, RD/LIC/013/76	A18SW (N)	348	2	387497 400004

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Historical Landfill Sites Licence Holder: North West Gas Location: Bradeley Hall Road, Haslington, Crewe, Cheshire Name: Bradford Road Works Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16491 First Input Date: 7th December 1979 Last Input Date: 1st December 1983 Specified Waste: Deposited Waste included Inert, Industrial and Special Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4200/9286 BGS Ref: Not Supplied Other Ref: RD/LIC/180/79, GDO F058, 0381	A7NW (SW)	810	2	386820 399128
84	Integrated Pollution Control Registered Waste Sites Name: Evans Universal Ltd Location: The Abattoir, Riverpark Road, MANCHESTER, M10 2XP Authority: Environment Agency, North West Region Permit Reference: AW8467 Dated: 15th October 1996 Process Type: IPC new application Description: 5.1 A (C) Incineration within the Waste Disposal Industry Status: Application has met the requirements for authorisation (but not yet authorised) Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	2	387365 399456
85	Licensed Waste Management Facilities (Locations) Licence Number: 102576 Location: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, M40 2XG Operator Name: D M R Recycling (MCr) Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCI Waste TS + treatment Licence Status: Revoked Issued: 8th September 2011 Last Modified: 18th March 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: 3rd July 2015 Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (W)	465	2	387038 399593
86	Licensed Waste Management Facilities (Locations) Licence Number: 53488 Location: Bower Street, Newton Heath, Manchester, M40 2AF Operator Name: Mauser - M D L Limited Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities Licence Status: Modified Issued: 12th August 1998 Last Modified: 9th July 2020 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	787	2	386847 400066
86	Licensed Waste Management Facilities (Locations) Licence Number: 53559 Location: Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Operator Name: Recon Packaging Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities Licence Status: Modified Issued: 12th March 1997 Last Modified: 23rd October 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	789	2	386831 400043

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	Licensed Waste Management Facilities (Locations) Licence Number: 53467 Location: Bank Street, Clayton, Manchester, M11 4BT Operator Name: Recon Packaging Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities Licence Status: Modified Issued: 4th December 1998 Last Modified: 24th August 2016 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	974	2	387620 398580
	Local Authority Landfill Coverage Name: Manchester City Council - Had landfill data but passed it to the relevant environment agency		0	6	387541 399596
88	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SW (S)	36	-	387541 399517
89	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (SE)	256	-	387815 399434
90	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A13SE (SE)	283	-	387803 399368
91	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SW (NW)	485	-	387257 400061
92	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A18SE (N)	491	-	387621 400138
93	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SE (W)	506	-	386999 399513
94	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NW (E)	539	-	388118 399671
95	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SE (NW)	597	-	387003 399957
96	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A7NE (SW)	683	-	387007 399094
97	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A14NW (NE)	694	-	388175 399939
98	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9SW (SE)	773	-	387969 398881
99	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12SW (W)	790	-	386714 399514

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A7NW (SW)	825	-	386836 399077
101	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A9NE (SE)	841	-	388301 399107
102	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A12NW (W)	867	-	386646 399700
103	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1993	A8SW (S)	928	-	387314 398656
104	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13SW (W)	15	-	387492 399601
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NE (NE)	40	-	387584 399626
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NW (NW)	60	-	387472 399693
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13SW (W)	92	-	387412 399577
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13SE (SE)	102	-	387671 399493
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NW (N)	139	-	387476 399787
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13SE (E)	145	-	387732 399591
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NE (NE)	174	-	387689 399723
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13NW (W)	178	-	387336 399656
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NW (NW)	218	-	387331 399767
114	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SE (SE)	245	-	387751 399370
115	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NE (NE)	262	-	387671 399874
116	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NW (NW)	273	-	387255 399731
117	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SW (E)	302	-	387891 399544
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A13NW (NW)	315	-	387321 399898
119	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NE (NE)	317	-	387795 399822

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12NE (W)	321	-	387204 399727
121	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14NW (E)	323	-	387907 399626
122	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (W)	332	-	387174 399607
123	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A13NE (NE)	335	-	387721 399927
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (S)	345	-	387445 399224
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8NE (S)	351	-	387627 399205
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18SW (N)	360	-	387467 400012
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8NW (S)	362	-	387464 399204
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NE (W)	365	-	387162 399739
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A13NE (NE)	369	-	387860 399819
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8NW (SW)	371	-	387382 399213
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A18SW (NW)	373	-	387298 399954
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18SE (N)	374	-	387681 399997
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14NW (NE)	401	-	387928 399782
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8NW (S)	440	-	387450 399127
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12NE (W)	447	-	387088 399782
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	448	-	387700 400069
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A12NE (NW)	454	-	387084 399793
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18SE (N)	458	-	387680 400088
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A18SW (N)	463	-	387405 400105
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A12SE (W)	463	-	387040 399547

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A8NE (S)	470	-	387685 399094
142	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18SE (N)	487	-	387629 400132
143	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (W)	491	-	387017 399635
144	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A19SW (NE)	493	-	387899 399978
145	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SE (W)	500	-	387023 399424
146	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A8NE (SE)	507	-	387847 399117
147	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8NE (S)	528	-	387645 399029
148	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14NW (E)	547	-	388110 399734
149	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NE (NW)	568	-	387014 399919
150	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SE (NW)	569	-	387154 400090
151	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8NE (S)	573	-	387749 399004
152	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (S)	596	-	387369 398984
153	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8NW (S)	603	-	387390 398972
154	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12NE (NW)	608	-	386954 399883
155	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14NW (E)	612	-	388176 399740
156	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18SW (N)	615	-	387521 400272
157	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8NW (S)	617	-	387289 398986
158	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (SW)	631	-	387228 398996
159	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8NW (S)	639	-	387351 398944
160	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14SW (E)	654	-	388220 399383
161	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A12SW (W)	661	-	386848 399472

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A8NW (SW)	661	-	387252 398952
163	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7NE (SW)	667	-	387170 398987
164	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SE (E)	669	-	388253 399473
165	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14NE (E)	675	-	388238 399750
166	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A8NW (SW)	677	-	387224 398948
167	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8SW (S)	682	-	387363 398897
168	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SW (W)	688	-	386814 399565
169	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A9NW (SE)	706	-	388172 399155
170	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	707	-	388296 399517
171	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7NE (SW)	710	-	387014 399050
172	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A17SE (NW)	721	-	386892 400013
173	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12NW (W)	725	-	386829 399884
174	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14NE (E)	725	-	388282 399779
175	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12SW (W)	733	-	386786 399408
176	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A18NW (N)	751	-	387515 400407
177	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A14SE (E)	761	-	388341 399438
178	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8SW (S)	788	-	387450 398777
179	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A7NW (SW)	804	-	386858 399083
180	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A19SW (NE)	806	-	388214 400077
181	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SW (S)	809	-	387449 398756
182	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A14NE (E)	810	-	388386 399711

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17NE (NW)	817	-	387007 400290
184	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17NE (NW)	829	-	387037 400327
185	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SW (NW)	835	-	386855 400162
186	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A9SW (SE)	843	-	388049 398848
187	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14SE (E)	860	-	388430 399375
188	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A19SE (NE)	862	-	388348 399973
189	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A12NW (W)	864	-	386658 399762
190	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SE (S)	867	-	387611 398687
191	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8SE (S)	870	-	387655 398686
192	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SW (NW)	880	-	386722 400032
193	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A19SE (NE)	884	-	388318 400069
194	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SW (W)	887	-	386616 399602
195	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SW (S)	889	-	387425 398678
196	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18NE (N)	897	-	387726 400530
197	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A19SE (NE)	901	-	388393 399972
198	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A9SW (SE)	907	-	387993 398742
199	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1923	A19SE (NE)	917	-	388344 400089
200	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NW (W)	917	-	386616 399831
201	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A14NE (E)	933	-	388482 399836
202	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A17SW (NW)	940	-	386782 400238
203	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12NW (W)	942	-	386603 399884

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A14SE (E)	942	-	388531 399539
205	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A18NE (N)	947	-	387637 400597
206	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A7SE (SW)	949	-	386971 398778
207	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A8SE (S)	957	-	387677 398601
208	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A9NE (SE)	957	-	388410 399064
209	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1848	A12SW (W)	972	-	386576 399272
210	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A7SE (SW)	977	-	386917 398783
211	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A3NW (S)	987	-	387438 398578
212	Registered Landfill Sites Licence Holder: H Evers (Messrs) Licence Reference: 00013 Site Location: Mitchell Street, Newton Heath, Manchester, Greater Manchester Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Taylor Road, Urmston, TRAFFORD, Greater Manchester, M31 3JL Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 13th July 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Construction And Demolition Wastes Foundry Sand Ind. Non-Haz. Waste Slag, Boiler/Flue Cleanings Prohibited Waste: Liquid Wastes Sludge Wastes	A18SW (N)	369	2	387463 400021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Registered Landfill Sites Licence Holder: C.E.G.B. Licence Reference: 00045/76 Site Location: Clayton Vale Power Station, Bank Bridge Road, Manchester, Greater Manchester Licence Easting: 388000 Licence Northing: 399500 Operator Location: Europa House, Stockport, Cheshire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 12th March 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Mine And Quarry Wastes - Mill Rejects Pulverised Fuel Ash Prohibited Waste: Liquid/Sludge Wastes	A14SW (E)	415	2	388000 399500
214	Registered Landfill Sites Licence Holder: North West Gas Licence Reference: 00381/84/M1 Site Location: Bradford Road, Gasworks Site, Manchester, Greater Manchester Licence Easting: 386700 Licence Northing: 399100 Operator Location: Welman House, Altrincham, Cheshire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 10th October 1985 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Constr'N/Demol. Inert/Non-Haz/Non-Tox Non Leachate Forming Waste Soil,Clay,Sand Stone,Brick,Concrete,Slate Prohibited Waste: Carcasses And Flesh Chemical Wastes Food Waste Liquid Wastes Metal Scrap Paper/Cardboard Waste Plasterboard/Plaster Plastic/Polythene (Including Sacks) Sawdust/Bark Sludge Wastes Textiles, Rag,Wool,Cloth,Hessian Etc Vegetable/Processing Waste Waste Forming Polluting Leachate Wood Waste/Timber	A7NW (SW)	927	2	386700 399100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	Registered Landfill Sites Licence Holder: North West Gas Licence Reference: 00180 Site Location: Bradford Road Gas Works, Manchester, Greater Manchester Licence Easting: 386700 Licence Northing: 399000 Operator Location: Welman House, Altrincham, Cheshire Authority: Environment Agency - North West Region, South Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 22nd September 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Asbestos Construction And Demolition Wastes Prohibited Waste: Liquid/Slurry/Sludge Wastes Notifiable Wastes N.O.S	A7NW (SW)	981	2	386700 399000
216	Registered Waste Treatment or Disposal Sites Licence Holder: Drummer Boy Trading Co Ltd Licence Reference: 00782 Site Location: Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Recycling Drums Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 12th August 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Empty Used Ibcs With < 2 Litre Liq Or 10 Litre Solid Residues Which May Include Empty Used Packagescontainers With < 1%Vol Residues Which May Include Maximum Waste In Working Plan Maximum Waste Permitted By Licence Packagescontainers/Ibcs With < 10%Vol Non-Haz. Residues Which May Include Special Waste (As In Epa 1990:S62 Of 1996 Regs) Starch Based Polymers Surfactants Water Based Adhesive Wastes Prohibited Waste: Drums With Residues Of Subs In Prescribed Subs/Processes Regs 1989) Drums/Cont'Rs With Residues Of List I Subs In Eec Directive 80/68/Eec Material With Haz.Code H 1 - Explosive Material With Haz.Code H 2 - Oxidising Material With Haz.Code H 3a - Highly Flammable Material With Haz.Code H 6 - Toxic Material With Haz.Code H 7 - Carcinogenic Material With Haz.Code H 9 - Infectious Material With Haz.Code H10 - Teratogenic Material With Haz.Code H11 - Mutagenic Material With Haz.Code H12 - Can Release Toxic Gases Material With Haz.Code H14 - Ecotoxic Other Waste/Waste Not Otherwise Specified	A17SE (NW)	778	2	386880 400100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	Registered Waste Treatment or Disposal Sites Licence Holder: Recon Packaging Ltd Licence Reference: 00840 Site Location: Navigation Trading Estate, Bower Street, Newton Heath, MANCHESTER, Greater Manchester, M10 6BX Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Recycling Drums Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st March 1997 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Cont'Rs With < 1% Of Permitted Residue Cont'Rs With Waste Cosmetics Cont'Rs With Waste Latex Cont'Rs With Waste Soap/Detergent Max.Waste Permitted By Licence Max.Waste Permitted By Licence Plus Pre-Cleaned Empty Drums Prohibited Waste: Drums Cont. Uk Red List Subs Drums Cont.Subs In Eec Dir. 76/464 Drums Cont.Subs In Eec Dir. 80/68 Highly Malodorous Wastes Pressurised Waste Residues Of Haz.Chemicals Residues Of Spec.Waste (Epa'90:S62) Sub'S Control. Radioactive Subs Act'60 Subs React Violently With Water Waste N.O.S.	A17SW (NW)	796	2	386801 400001
218	Registered Waste Treatment or Disposal Sites Licence Holder: Recon Packaging Ltd Licence Reference: 00951 Site Location: Bank Street, Clayton, MANCHESTER, Greater Manchester, M11 4EP Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Recycling Drums Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st December 1998 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Empty Used Ibcs Empty Used Steel/Plastic Drums < 230 L Max.Waste Permitted By Licence Packages,Cont'Rs,Ibcs With Residues Prohibited Waste: Any With Res.List I Subs In 80/68/Eec Any With Res.Presc.List Subs(Eppsp'91) Hazardous Waste Residues Waste N.O.S.	A8SE (S)	914	2	387600 398640

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	Control of Major Accident Hazards Sites (COMAH) Name: Transco Plc Location: Bradford Road Holder, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Reference: 1029780 Type: Upper Tier Status: Active Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	901	7	386676 399205
220	Notification of Installations Handling Hazardous Substances (NIHHS) Name: British Gas (North West) PLC Location: Bradford Road Holder Station, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Status: Not Active Positional Accuracy: Unknown	A7NW (SW)	914	7	386672 399183
221	Planning Hazardous Substance Consents Name: Bg Transco Plc Location: Alan Turing Way, New Viaduct Street, MANCHESTER, Greater Manchester, M40 7 Authority: Manchester City Council, Planning Department Application Ref: 059226/Hsc/North2/00 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 0 Application date: 11th May 2000 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	898	6	386680 399203
221	Planning Hazardous Substance Consents Name: British Gas Location: Bradford Road Holder Station, Miles Platting, Manchester, Greater Manchester, M10 7bl Authority: Manchester City Council, Planning Department Application Ref: 000001/HSC/NORTH2/92 Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not) Maximum Quantity: 453.2 Application date: 24th September 1992 Decision: Deemed Consent Granted Positional Accuracy: Manually positioned to the address or location	A7NW (SW)	917	6	386666 399189

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13SE (E)	0	1	387567 399602
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (W)	0	1	387541 399596
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (W)	0	1	387541 399596
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	0	1	387547 399563
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (N)	49	1	387513 399705
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	166	1	387615 399390
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	192	1	387345 399455

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13NE (NE)	215	1	387736 399729
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (N)	267	1	387456 399915
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8NE (S)	314	1	387669 399250
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A18SW (N)	326	1	387541 399983
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A18SW (N)	343	1	387541 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	349	1	387463 400000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	353	1	387608 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A18SW (N)	373	1	387379 400000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (SW)	385	1	387331 399220
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	418	1	387125 399801
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SE (W)	503	1	387000 399596
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	565	1	388022 399191

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NE (NW)	565	1	387000 399883
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	641	1	386865 399500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	690	1	388000 399000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	696	1	387963 398967
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NW (SE)	703	1	388000 398984
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	796	1	387931 398835

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	841	1	387684 398718
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	841	1	388000 398820
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SW (NW)	853	1	386829 400157
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A14SE (E)	912	1	388500 399500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9NE (E)	962	1	388500 399247
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A9SW (SE)	993	1	388000 398650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
222	BGS Recorded Mineral Sites Site Name: Philips Park Brick Works Location: Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95126 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	170	1	387359 399474
223	BGS Recorded Mineral Sites Site Name: Philips Park Brick Works Location: Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95125 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (W)	576	1	386930 399504
224	BGS Recorded Mineral Sites Site Name: Newton Brick Works Location: Newton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95120 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Permian Geology: Manchester Marls Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	591	1	387280 400195
225	BGS Recorded Mineral Sites Site Name: Cheetham Fold Clay Pit Location: Cheetham Fold, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95124 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	696	1	388174 399945
226	BGS Recorded Mineral Sites Site Name: Mitchell Street Brickworks Location: Newton Heath, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 15091 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NE (N)	751	1	387725 400380
227	BGS Recorded Mineral Sites Site Name: Miles Platting Brick Works Location: Miles Platting, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95121 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SW (W)	912	1	386605 399404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
228	BGS Recorded Mineral Sites Site Name: West End Brick Field Location: Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 243078 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary, Devensian Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8SW (S)	942	1	387518 398614
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387740, 399600 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 54.70 mg/kg Concentration: Cadmium Measured 1.90 mg/kg Concentration: Chromium Measured 93.40 mg/kg Concentration: Lead Measured 465.00 mg/kg Concentration: Nickel Measured 48.40 mg/kg Concentration:	A13SE (E)	154	1	387740 399600
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387720, 399180 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 79.50 mg/kg Concentration: Cadmium Measured 1.00 mg/kg Concentration: Chromium Measured 87.30 mg/kg Concentration: Lead Measured 425.80 mg/kg Concentration: Nickel Measured 56.60 mg/kg Concentration:	A8NE (SE)	396	1	387720 399180
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387220, 399210 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 40.50 mg/kg Concentration: Cadmium Measured 1.00 mg/kg Concentration: Chromium Measured 71.10 mg/kg Concentration: Lead Measured 412.40 mg/kg Concentration: Nickel Measured 31.50 mg/kg Concentration:	A8NW (SW)	453	1	387220 399210
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387070, 399770 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 47.60 mg/kg Concentration: Cadmium Measured 1.40 mg/kg Concentration: Chromium Measured 204.80 mg/kg Concentration: Lead Measured 302.00 mg/kg Concentration: Nickel Measured 51.30 mg/kg Concentration:	A12NE (W)	461	1	387070 399770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 388260, 399690 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 22.60 mg/kg Concentration: Cadmium Measured 3.60 mg/kg Concentration: Chromium Measured 92.40 mg/kg Concentration: Lead Measured 126.40 mg/kg Concentration: Nickel Measured 37.20 mg/kg Concentration:	A14NE (E)	682	1	388260 399690
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 388180, 399200 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 139.10 mg/kg Concentration: Cadmium Measured 2.70 mg/kg Concentration: Chromium Measured 152.20 mg/kg Concentration: Lead Measured 950.00 mg/kg Concentration: Nickel Measured 94.80 mg/kg Concentration:	A9NW (SE)	689	1	388180 399200
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386860, 399870 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 41.70 mg/kg Concentration: Cadmium Measured 1.80 mg/kg Concentration: Chromium Measured 96.40 mg/kg Concentration: Lead Measured 283.20 mg/kg Concentration: Nickel Measured 42.80 mg/kg Concentration:	A12NW (W)	691	1	386860 399870
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 386750, 399310 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 20.20 mg/kg Concentration: Cadmium Measured 1.10 mg/kg Concentration: Chromium Measured 68.10 mg/kg Concentration: Lead Measured 282.00 mg/kg Concentration: Nickel Measured 24.40 mg/kg Concentration:	A12SW (W)	794	1	386750 399310
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 387330, 398700 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 25.70 mg/kg Concentration: Cadmium Measured 1.20 mg/kg Concentration: Chromium Measured 80.20 mg/kg Concentration: Lead Measured 179.10 mg/kg Concentration: Nickel Measured 33.50 mg/kg Concentration:	A8SW (S)	882	1	387330 398700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: Manchester Count Id: 300 Arsenic Minimum Concentration: 3.00 mg/kg Arsenic Average Concentration: 28.00 mg/kg Arsenic Maximum Concentration: 1008.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 1.40 mg/kg Cadmium Maximum Concentration: 80.30 mg/kg Chromium Minimum Concentration: 29.00 mg/kg Chromium Average Concentration: 92.00 mg/kg Chromium Maximum Concentration: 1252.00 mg/kg Lead Minimum Concentration: 20.00 mg/kg Lead Average Concentration: 270.00 mg/kg Lead Maximum Concentration: 2687.00 mg/kg Nickel Minimum Concentration: 5.00 mg/kg Nickel Average Concentration: 32.00 mg/kg Nickel Maximum Concentration: 137.00 mg/kg	A13SW (W)	0	1	387541 399596
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (W)	0	8	387541 399596
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (W)	0	-	387541 399596
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	161	1	387607 399387
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	1	1	387561 399611
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	164	1	387607 399387
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	243	1	387436 399331
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	210	1	387450 399360

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	164	1	387607 399387
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	242	1	387445 399329
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	387541 399596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
229	Contemporary Trade Directory Entries Name: David Audley Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	387440 399471
229	Contemporary Trade Directory Entries Name: Robert Edward Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	387440 399471
229	Contemporary Trade Directory Entries Name: 151 Products Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	387440 399471
229	Contemporary Trade Directory Entries Name: Kennoh Cleaning & Care Support Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	387440 399471
229	Contemporary Trade Directory Entries Name: Kosmo Services Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	113	-	387440 399471
230	Contemporary Trade Directory Entries Name: T A S Tyres & Exhausts Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	138	-	387468 399782
230	Contemporary Trade Directory Entries Name: Decorative Designs Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	138	-	387468 399782
230	Contemporary Trade Directory Entries Name: James Lucas Ltd Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Bacon & Ham Curers & Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	138	-	387468 399782
231	Contemporary Trade Directory Entries Name: Choice Game Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: Samuel Howarth Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: Choice Game Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: Kurpas Meats Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
231	Contemporary Trade Directory Entries Name: T Ritchie C & E Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: United Cattle Products Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: Hanson Business Support Uk Ltd Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	175	-	387365 399456
231	Contemporary Trade Directory Entries Name: Harvey Ashworth (Manchester) Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XR Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	176	-	387364 399456
231	Contemporary Trade Directory Entries Name: Pennine Meats Location: Manchester Abattoir, Riverpark Ind Est, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	219	-	387318 399446
232	Contemporary Trade Directory Entries Name: Asaka Computer Systems Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SW (SW)	235	-	387352 399384
233	Contemporary Trade Directory Entries Name: River Park Press Ltd Location: Market Hall Unit 3, Riverpark Trading Estate, Riverpark Road, Manchester, M40 2XP Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	284	-	387240 399454
233	Contemporary Trade Directory Entries Name: S I G Technical Insulation Location: Block 1, River Park, Manchester, Greater Manchester, M40 2XP Classification: Insulation Materials Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A13SW (SW)	291	-	387238 399442
233	Contemporary Trade Directory Entries Name: A Burns Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Meat - Wholesale Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	292	-	387238 399442
234	Contemporary Trade Directory Entries Name: Scrap Cars In Manchester Location: 5, LEWISHAM AVENUE, MANCHESTER, M40 2UR Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	302	-	387765 399838
235	Contemporary Trade Directory Entries Name: Mrs Mops Location: 17, Elstree Avenue, Manchester, M40 2UL Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	362	-	387819 399865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
236	Contemporary Trade Directory Entries Name: Kennoh Cleaning & Care Support Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	378	-	387128 399517
237	Contemporary Trade Directory Entries Name: Hbs Uk Cleaning Services Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	390	-	387128 399455
237	Contemporary Trade Directory Entries Name: Northern Optical Manchester Co Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Optical Goods - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	390	-	387128 399455
238	Contemporary Trade Directory Entries Name: Medic Bath Co Ltd Location: Ashfield Works, Briscoe Lane, Manchester, M40 2XG Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	446	-	387057 399555
239	Contemporary Trade Directory Entries Name: Roanza Location: Briscoe Lane, Manchester, Greater Manchester, M40 2NL Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SE (W)	552	-	386956 399488
239	Contemporary Trade Directory Entries Name: North Manchester Commercials Location: Briscoe Lane, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	552	-	386956 399488
239	Contemporary Trade Directory Entries Name: N N C Contracts Hire Ltd Location: Briscoe La, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	557	-	386958 399448
239	Contemporary Trade Directory Entries Name: Its All In The Image Location: 230 Briscoe Lane, Manchester, Greater Manchester, M40 2XG Classification: Kitchen Furniture Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	593	-	386914 399495
240	Contemporary Trade Directory Entries Name: Prescotts Transport Location: Briscoe Lane, Manchester, M40 2TX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A18SE (NE)	576	-	387879 400111
241	Contemporary Trade Directory Entries Name: Mont Blanc Location: Arkady, Unit2 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SE (W)	589	-	386928 399433
242	Contemporary Trade Directory Entries Name: Philips Park Cemetery Location: Hulme Hall La, Manchester, Lancashire, M40 8HE Classification: Cemeteries & Crematoria Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	593	-	386951 399346
243	Contemporary Trade Directory Entries Name: Mathers Foundry Ltd Location: Park Works, Grimshaw Lane, Manchester, M40 2BA Classification: Die-Casting Equipment & Services Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	651	-	386996 400044

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
244	Contemporary Trade Directory Entries Name: Anglo European Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Steel Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	678	-	386831 399468
244	Contemporary Trade Directory Entries Name: Northern Butchers Hide Markets Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Leather Merchants & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	678	-	386831 399468
244	Contemporary Trade Directory Entries Name: Anglo European Location: 228 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Steel Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12SW (W)	679	-	386831 399467
245	Contemporary Trade Directory Entries Name: Maid It Sparkle Location: Chelsea Rd, Manchester, Lancashire, M40 2TR Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	687	-	388051 400097
246	Contemporary Trade Directory Entries Name: Doug Priestley Transport Location: Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	705	-	386826 399366
247	Contemporary Trade Directory Entries Name: Welding Engineers Location: Unit 1-4, Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Classification: Roller Shutter Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	729	-	386977 400142
248	Contemporary Trade Directory Entries Name: Roanza Mercedes Benz Truck & Van Location: Enza Mercedes Benz, Briscoe Lane, Manchester, M40 2NL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	745	-	386784 399369
248	Contemporary Trade Directory Entries Name: Roanza Location: Briscoe Lane, Manchester, Greater Manchester, M40 2NL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	768	-	386753 399396
249	Contemporary Trade Directory Entries Name: Briscoe Lane Petrol Services Location: 86-90, Briscoe Lane, Manchester, M40 2TH Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	754	-	388016 400228
249	Contemporary Trade Directory Entries Name: Briscoe Lane Service Station Location: 86-90, Briscoe Lane, MANCHESTER, M40 2TH Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	754	-	388000 400241
249	Contemporary Trade Directory Entries Name: Buy Cars On The Cheap Location: 86-90, BRISCOE LANE, MANCHESTER, M40 2TH Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	755	-	388017 400229

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
250	Contemporary Trade Directory Entries Name: Alloy Bodies Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN Classification: Commercial Vehicle Bodybuilders & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	759	-	386754 399692
251	Contemporary Trade Directory Entries Name: Nuglaze Panel Location: Bower St, Manchester, Lancashire, M40 2BH Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SE (NW)	760	-	386893 400087
251	Contemporary Trade Directory Entries Name: Recon Packaging Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	772	-	386869 400073
251	Contemporary Trade Directory Entries Name: M C G M D L Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	790	-	386839 400060
252	Contemporary Trade Directory Entries Name: Discount Tyres Location: Orford Road, Manchester, M40 1JY Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A19SW (NE)	769	-	388107 400157
252	Contemporary Trade Directory Entries Name: Motor Mechanic Location: Orford Road, Manchester, M40 1JY Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A19SW (NE)	769	-	388107 400157
252	Contemporary Trade Directory Entries Name: Orford Road Motor Mechanics Location: Unit 3, Orford Road, Manchester, M40 1JY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	775	-	388130 400140
253	Contemporary Trade Directory Entries Name: Manchester Drums Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A17SE (NW)	795	-	386884 400133
254	Contemporary Trade Directory Entries Name: E3g Ltd Location: Bank Street, Clayton, Manchester, Greater Manchester, M11 4AS Classification: Rubber & Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	803	-	387566 398751
255	Contemporary Trade Directory Entries Name: S B Motorbodies Ltd Location: 2a, Bower Street, Newton Heath, Manchester, M40 2AF Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	816	-	386778 400001
256	Contemporary Trade Directory Entries Name: Uk Basements Ltd Location: 24, Kerswell Walk, Manchester, Lancashire, M40 2AH Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	849	-	387437 400501
257	Contemporary Trade Directory Entries Name: Clynder Cables Ltd Location: 3, Lord North Street, MANCHESTER, M40 8AD Classification: Cable & Wire Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	852	-	386668 399739

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
257	Contemporary Trade Directory Entries Name: Princes Soft Drinks Division Location: Lord North Street, Manchester, M40 2HJ Classification: Soft Drinks - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	857	-	386660 399724
258	Contemporary Trade Directory Entries Name: Searchlight Electric Ltd Location: 900, Oldham Road, MANCHESTER, M40 2BS Classification: Lighting Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	870	-	386873 400238
259	Contemporary Trade Directory Entries Name: Budget Greeting Cards Ltd Location: Prelude House, Chapter Street, Manchester, M40 2AY Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	875	-	386684 399924
259	Contemporary Trade Directory Entries Name: Budget Greeting Cards Location: Prelude House, Chapter Street, Manchester, M40 2AY Classification: Greeting Card Publishers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	880	-	386690 399955
260	Contemporary Trade Directory Entries Name: J Baines & Sons Location: 31, Bamford Street, Manchester, M11 4FE Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	879	-	387672 398679
260	Contemporary Trade Directory Entries Name: M P M Consumer Products Location: 13, West Street, Manchester, M11 4EF Classification: Chemical Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	919	-	387669 398638
260	Contemporary Trade Directory Entries Name: Dr Johnson Products Location: 13 West st, Manchester, Lancashire, M11 4EF Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	920	-	387672 398638
261	Contemporary Trade Directory Entries Name: Eastland Compounding Location: Bank Street, Manchester, M11 4AS Classification: Rubber & Plastic Products - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	888	-	387580 398666
262	Contemporary Trade Directory Entries Name: I B C O Ltd Location: Lord North Street, Manchester, M40 8AD Classification: Frozen Food Processors & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A12SW (W)	897	-	386614 399439
263	Contemporary Trade Directory Entries Name: K M H Printers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	901	-	386695 400024
264	Contemporary Trade Directory Entries Name: Ensign Location: Ensign Garage, Robert Street, Manchester, M40 2DX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	934	-	386792 400242
265	Contemporary Trade Directory Entries Name: Julie'S Homebrew Location: 881-883, Oldham Road, Manchester, M40 2EE Classification: Brewery Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	940	-	387320 400575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
266	Contemporary Trade Directory Entries Name: Enterprise Cleaning Location: 20, Scotland Street, Manchester, M40 1LJ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	945	-	388151 400363
267	Contemporary Trade Directory Entries Name: Specialised Transmission Services Location: Unit 1 Worrall St, Newton Heath, Manchester, M40 2ED Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A18NW (N)	953	-	387416 400604
268	Contemporary Trade Directory Entries Name: Plant & Automation Ltd Location: Lord North Street, Miles Platting, Manchester, M40 8HT Classification: Tube Bending Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	954	-	386558 399699
269	Contemporary Trade Directory Entries Name: New Century Blinds Location: 29, William Lister Close, Manchester, M40 1PU Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (E)	955	-	388538 399676
269	Contemporary Trade Directory Entries Name: Drain Services N W Ltd Location: 211, Culcheth Lane, Manchester, M40 1WB Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A15NW (E)	982	-	388568 399655
270	Contemporary Trade Directory Entries Name: Azura Location: Chapter St, Manchester, M40 2AY Classification: Soft Furnishings - Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17SW (NW)	957	-	386619 399985
271	Contemporary Trade Directory Entries Name: Vale Hardware Location: 13, Vale Street, Manchester, M11 4NR Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SE (SE)	976	-	388222 398810
272	Contemporary Trade Directory Entries Name: Bradford Road Car Sales Location: 256, Bradford Road, Manchester, M40 7BT Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (W)	978	-	386577 399249
272	Contemporary Trade Directory Entries Name: D C D Co Ltd Location: 256, Bradford Road, Manchester, M40 7BT Classification: Meat - Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (W)	978	-	386577 399249
273	Contemporary Trade Directory Entries Name: Sunde Technologies Ltd Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17NE (NW)	979	-	387140 400557
274	Contemporary Trade Directory Entries Name: Grace Motor Engineers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	980	-	386573 399919
275	Contemporary Trade Directory Entries Name: Tyco Control Systems Ltd Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Automation Systems & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	984	-	386679 400168

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
275	Contemporary Trade Directory Entries Name: Wormald Fire Systems Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	984	-	386679 400168
275	Contemporary Trade Directory Entries Name: Jonson Controls Location: Tyco Park, Grimshaw Lane, Manchester, Greater Manchester, M40 2WL Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	986	-	386677 400170
275	Contemporary Trade Directory Entries Name: Johnson Controls Location: Grimshaw Lane, Manchester, M40 2AX Classification: Door Manufacturers - Industrial Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	986	-	386677 400170
275	Contemporary Trade Directory Entries Name: Johnson Control Location: Grimshaw Lane, Manchester, Greater Manchester, M40 2WL Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A17SW (NW)	986	-	386677 400170
276	Contemporary Trade Directory Entries Name: United Aluminium Ltd Location: Holt St, Manchester, M40 5AX Classification: Aluminium Fabricators Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A17NW (NW)	995	-	386746 400282
277	Contemporary Trade Directory Entries Name: Clynder Cables Ltd Location: 3, Lord North Street, MANCHESTER, M40 8AD Classification: Ropes & Hawsers Status: Active Positional Accuracy: Automatically positioned to the address	A11SE (W)	997	-	386506 399589
277	Contemporary Trade Directory Entries Name: J C S Pallets Location: Lord North Street, Manchester, M40 8AD Classification: Pallets, Crates & Packing Cases Status: Active Positional Accuracy: Automatically positioned to the address	A11SE (W)	997	-	386506 399589
278	Fuel Station Entries Name: Briscoe Lane Service Station Location: 86, Briscoe Lane Mitchell Street, Newton Heath , Manchester, Greater Manchester, M40 2TH Brand: Pace Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	760	-	388008 400242
279	Fuel Station Entries Name: Asda Eastlands Location: Alan Turing Way , Bradford , Manchester, Greater Manchester, M11 4BD Brand: Asda Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A7SE (S)	997	-	387148 398633
280	Points of Interest - Commercial Services Name: Mont Blanc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	175	9	387365 399456
281	Points of Interest - Commercial Services Name: Scrap Cars in Manchester Location: 5 Lewisham Avenue, Manchester, M40 2UR Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A13NE (NE)	302	9	387765 399838

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
282	Points of Interest - Commercial Services Name: Mont Blanc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SE (W)	390	9	387128 399455
283	Points of Interest - Commercial Services Name: Roanza Mercedes Benz Truck & Van Location: Enza Mercedes Benz, Briscoe Lane, Manchester, M40 2NL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	746	9	386783 399369
283	Points of Interest - Commercial Services Name: Nw Transporting Services Location: Fire Station, Briscoe Lane, Manchester, M40 2XG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	802	9	386745 399300
284	Points of Interest - Commercial Services Name: Klee International Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12NW (W)	759	9	386754 399692
285	Points of Interest - Commercial Services Name: Roanza Truck & Van Location: Briscoe Lane, Manchester, M40 2NL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12SW (W)	769	9	386752 399395
286	Points of Interest - Commercial Services Name: Orford Road Motor Mechanics Location: Orford Road, Manchester, M40 1JY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	770	9	388125 400138
286	Points of Interest - Commercial Services Name: Orford Road Motor Mechanics Location: Unit 3, Orford Road, Manchester, M40 1JY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	775	9	388129 400140
287	Points of Interest - Commercial Services Name: S & B Motor Bodies Ltd Location: 2a Bower Street, Newton Heath, Manchester, M40 2AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	814	9	386784 400006
288	Points of Interest - Commercial Services Name: S B Motorbodies Ltd Location: 2a Bower Street, Newton Heath, Manchester, M40 2AF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	816	9	386778 400001
288	Points of Interest - Commercial Services Name: Chapter House Garage Location: Chapter Street, Manchester, M40 2AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SW (NW)	902	9	386695 400024
289	Points of Interest - Commercial Services Name: Jada Tyres Tyre Centre Location: Unit 1, Bamford Street, Manchester, M11 4FE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	917	9	387624 398638
290	Points of Interest - Commercial Services Name: Vintage Wings & Radiators Ltd Location: Lord North Street, Miles Platting, Manchester, M40 8HT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	954	9	386558 399699

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
291	Points of Interest - Commercial Services Name: Grace Motor Engineers Location: Chapter Street, Manchester, M40 2AY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A12NW (W)	980	9	386573 399919
292	Points of Interest - Commercial Services Name: Asda Eastlands Location: Alan Turing Way, Bradford, Manchester, M11 4BD Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7SE (SW)	984	9	387132 398653
292	Points of Interest - Commercial Services Name: Car Wash Location: Alan Turing Way, Bradford, Manchester, Lancashire, M11 4BD Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7SE (SW)	984	9	387132 398653
293	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A17SE (NW)	572	9	387090 400033
293	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	581	9	387080 400035
294	Points of Interest - Manufacturing and Production Name: Factory Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A12SE (W)	592	9	386915 399494
294	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	595	9	386910 399510
295	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	600	9	387491 398961
295	Points of Interest - Manufacturing and Production Name: Works Location: M11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	602	9	387487 398960
296	Points of Interest - Manufacturing and Production Name: Tanks Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	627	9	386990 399993
296	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SE (NW)	631	9	386990 400000
296	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	642	9	386991 400021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
296	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	645	9	386987 400020
296	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	695	9	386992 400107
297	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	674	9	386840 399440
297	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	674	9	386840 399440
298	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	686	9	387008 400112
299	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	693	9	386810 399568
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	714	9	386791 399624
299	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	714	9	386791 399625
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	723	9	386780 399550
299	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	723	9	386780 399549
299	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	765	9	386738 399587
299	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	766	9	386737 399587

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	710	9	386801 399676
300	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	715	9	386797 399677
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	730	9	386786 399707
300	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	730	9	386786 399707
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	743	9	386775 399722
300	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	743	9	386775 399722
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	750	9	386761 399673
300	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	753	9	386757 399672
300	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	779	9	386741 399737
300	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	783	9	386737 399736
300	Points of Interest - Manufacturing and Production Name: Tanks Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	811	9	386713 399768
300	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NW (W)	816	9	386708 399772

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
300	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A12NW (W)	821	9	386704 399775
301	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A17SW (NW)	735	9	386870 400002
301	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	740	9	386860 399994
301	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	741	9	386859 399994
301	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SW (NW)	754	9	386842 399989
301	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A17SW (NW)	756	9	386841 399993
301	Points of Interest - Manufacturing and Production Name: Tanks Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	760	9	386832 399984
302	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	821	9	386730 399891
302	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	877	9	386677 399908
303	Points of Interest - Manufacturing and Production Name: Works Location: M11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	854	9	387774 398720
303	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	855	9	387778 398720
304	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	871	9	386649 399744

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
304	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	920	9	386591 399685
304	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	924	9	386586 399684
305	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	900	9	387549 398655
305	Points of Interest - Manufacturing and Production Name: Works Location: M11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	901	9	387544 398654
305	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	925	9	387492 398634
305	Points of Interest - Manufacturing and Production Name: Works Location: M11 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	925	9	387492 398634
306	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	902	9	386688 400010
306	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	905	9	386684 400009
307	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	922	9	386604 399790
307	Points of Interest - Manufacturing and Production Name: Ready-Mixed Concrete Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	958	9	386566 399780
308	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	953	9	386944 400413
309	Points of Interest - Manufacturing and Production Name: Manchester Industrial Park Location: M40 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A17NW (NW)	988	9	386778 400308

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
310	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A15NW (E)	989	9	388559 399759
311	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	992	9	387340 398586
312	Points of Interest - Manufacturing and Production Name: Works Location: M40 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	994	9	386510 399614
312	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A11NE (W)	994	9	386510 399614
313	Points of Interest - Manufacturing and Production Name: Tank Location: M40 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	996	9	387108 400562
314	Points of Interest - Public Infrastructure Name: Baguley Fold Junction Location: M40 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	133	9	387722 399548
315	Points of Interest - Public Infrastructure Name: Philips Park Cemetery Location: M11 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13SE (S)	263	9	387573 399291
316	Points of Interest - Public Infrastructure Name: Philips Park Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	340	9	387273 399313
317	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	502	9	388058 399375
317	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	503	9	388060 399378
318	Points of Interest - Public Infrastructure Name: Philips Park Cemetery Location: Hulme Hall La, Manchester, Lancashire, M40 8HE Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A12SE (SW)	593	9	386951 399346
318	Points of Interest - Public Infrastructure Name: Philips Park Cemetery Location: M40 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	633	9	386945 399264

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
319	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	655	9	387062 400123
320	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	656	9	387181 400216
321	Points of Interest - Public Infrastructure Name: Weirs Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	702	9	387327 400331
322	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	730	9	386858 399969
323	Points of Interest - Public Infrastructure Name: Briscoe Lane Service Station Location: 86-90 Briscoe Lane, Manchester, M40 2TH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	754	9	388016 400228
323	Points of Interest - Public Infrastructure Name: Briscoe Lane Service Station Location: 86-90 Briscoe Lane, Manchester, M40 2TH Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	760	9	388008 400242
324	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	755	9	388341 399484
324	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	755	9	388341 399488
324	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	784	9	388366 399452
324	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	787	9	388369 399452
325	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	757	9	387455 400411
326	Points of Interest - Public Infrastructure Name: Philips Park Fire Station Location: Fire Station, Briscoe Lane, Manchester, M40 2XG Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A12SW (W)	799	9	386747 399305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
326	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Briscoe Lane, Manchester, M40 2XG Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A12SW (W)	802	9	386745 399300
326	Points of Interest - Public Infrastructure Name: Greater Manchester County Fire Service Location: Fire Station, Briscoe Lane, Manchester, M40 2XG Category: Central and Local Government Class Code: Fire Brigade Stations Positional Accuracy: Positioned to address or location	A12SW (W)	802	9	386745 399300
326	Points of Interest - Public Infrastructure Name: Philips Park Junction Location: M40 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	820	9	386711 399350
327	Points of Interest - Public Infrastructure Name: Ardwick Junction Location: M40 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	804	9	386719 399759
327	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	833	9	386704 399837
328	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	825	9	387651 400472
329	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	880	9	386647 399793
329	Points of Interest - Public Infrastructure Name: Weir Location: M40 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	934	9	386585 399745
330	Points of Interest - Public Infrastructure Name: Overflow Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	893	9	387033 398805
331	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	971	9	386916 398790
331	Points of Interest - Public Infrastructure Name: Weir Location: M11 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	976	9	386912 398787
332	Points of Interest - Public Infrastructure Name: David's Drains Ltd Location: 211 Culcheth Lane, Manchester, M40 1WB Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A15NW (E)	982	9	388568 399655

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
333	Points of Interest - Public Infrastructure Name: Asda Petrol Location: Corbett Street, Manchester, M11 4BD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7SE (S)	995	9	387151 398634
333	Points of Interest - Public Infrastructure Name: Eastlands Supercentre Location: Corbett Street, Manchester, M11 4BD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7SE (S)	995	9	387151 398634
333	Points of Interest - Public Infrastructure Name: Asda Eastlands Location: Alan Turing Way, Bradford, Manchester, M11 4BD Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A7SE (S)	997	9	387148 398633
334	Points of Interest - Recreational and Environmental Name: Play Area Location: M11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	424	9	387692 399143
335	Points of Interest - Recreational and Environmental Name: Skatepark Location: M11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	556	9	387416 399015
336	Points of Interest - Recreational and Environmental Name: Play Area Location: M11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	560	9	387243 399068
337	Points of Interest - Recreational and Environmental Name: Play Area Location: M40 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	590	9	388177 399623
338	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	712	9	388290 399694
338	Points of Interest - Recreational and Environmental Name: Playground Location: Amos Avenue, M40 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	721	9	388299 399695
339	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Willdale Close, M11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7NE (SW)	779	9	387019 398954
339	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	801	9	387017 398927
339	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Willdale Close, M11 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7SE (SW)	808	9	387010 398924

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
340	Points of Interest - Recreational and Environmental Name: Play Area Location: M40 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	783	9	387482 400439
341	Points of Interest - Recreational and Environmental Name: Playground Location: Grimshaw Lane, M40 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	879	9	386732 400049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
342	Areas of Adopted Green Belt Authority: Manchester City Council Plan Name: Proposals Map Status: Adopted Plan Date: 11th July 2012	A13SE (E)	217	10	387806 399545
343	Local Nature Reserves Name: Clayton Vale Multiple Area: N Area (m2): 525664.49 Source: Natural England Designation Date: 26th July 2006	A13SE (E)	210	13	387792 399499
344	Nitrate Vulnerable Zones Name: River Irk (Moston Brook To River Irwell) Nvz Description: Surface Water Source: Environment Agency, Head Office	A18NE (N)	844	4	387550 400500

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Manchester City Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environment Team (Land & Water) Tameside Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Bury Metropolitan Borough Council - Environmental Health Department	June 2020 October 2017 October 2017 October 2017 October 2017 October 2017 October 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annually Annual Rolling Update
Discharge Consents Environment Agency - North West Region	July 2021	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	July 2021	Quarterly
Local Authority Integrated Pollution Prevention And Control Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Manchester City Council - Environmental Health Department	February 2015 July 2014 June 2015 March 2015 March 2015 October 2014 September 2014	Variable Variable Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Manchester City Council - Environmental Health Department	February 2015 July 2014 June 2015 March 2015 March 2015 October 2014 September 2014	Not Applicable Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Manchester City Council - Environmental Health Department	February 2015 July 2014 June 2015 March 2015 March 2015 October 2014 September 2014	Variable Variable Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	March 2021	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	
Registered Radioactive Substances Environment Agency - North West Region	June 2016	Annually
River Quality Environment Agency - Head Office	November 2001	Not Applicable

Agency & Hydrological	Version	Update Cycle
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - South Area	July 2021	Quarterly
Water Abstractions Environment Agency - North West Region	July 2021	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	May 2021	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2021	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	March 2021	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	March 2021	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	March 2021	Quarterly
Flood Defences Environment Agency - Head Office	March 2021	Quarterly
OS Water Network Lines Ordnance Survey	July 2021	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	May 2021	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	July 2021	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	July 2021	Quarterly
Local Authority Landfill Coverage Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Tameside Metropolitan Borough Council	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Tameside Metropolitan Borough Council	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - South Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Tameside Metropolitan Borough Council - Planning and Building Control Salford City Council	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 June 2016	Variable Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Bury Metropolitan Borough Council Manchester City Council - Planning Department Oldham Metropolitan Borough Council Rochdale Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Tameside Metropolitan Borough Council - Planning and Building Control Salford City Council	February 2016 February 2016 February 2016 February 2016 February 2016 February 2016 June 2016	Variable Variable Variable Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2021	Bi-Annually
BGS Urban Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	Annually
BGS Urban Soil Chemistry Averages British Geological Survey - National Geoscience Information Service	December 2015	Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

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

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

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Manchester City Council - Environmental Health Department PO Box 463, Town Hall Extension, Albert Square, Manchester, Greater Manchester, M60 3NY	Telephone: 0161 234 4884 / 234 4873. Fax: 0161 234 4508 Website: www.manchester.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Manchester City Council - Planning Department Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
7	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Manchester City Council Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
11	Tameside Metropolitan Borough Council Wellington Road, Ashton-under-Lyne, Lancashire, OL6 6DL	Telephone: 0161 342 8355 Fax: 0161 342 3070 Website: www.tameside.gov.uk
12	Oldham Metropolitan Borough Council Civic Centre, P O Box 55, West Street, Oldham, Lancashire, OL1 1XN	Telephone: 0161 911 3000 Fax: 0161 678 4550 Website: www.oldham.gov.uk
13	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Appendix C

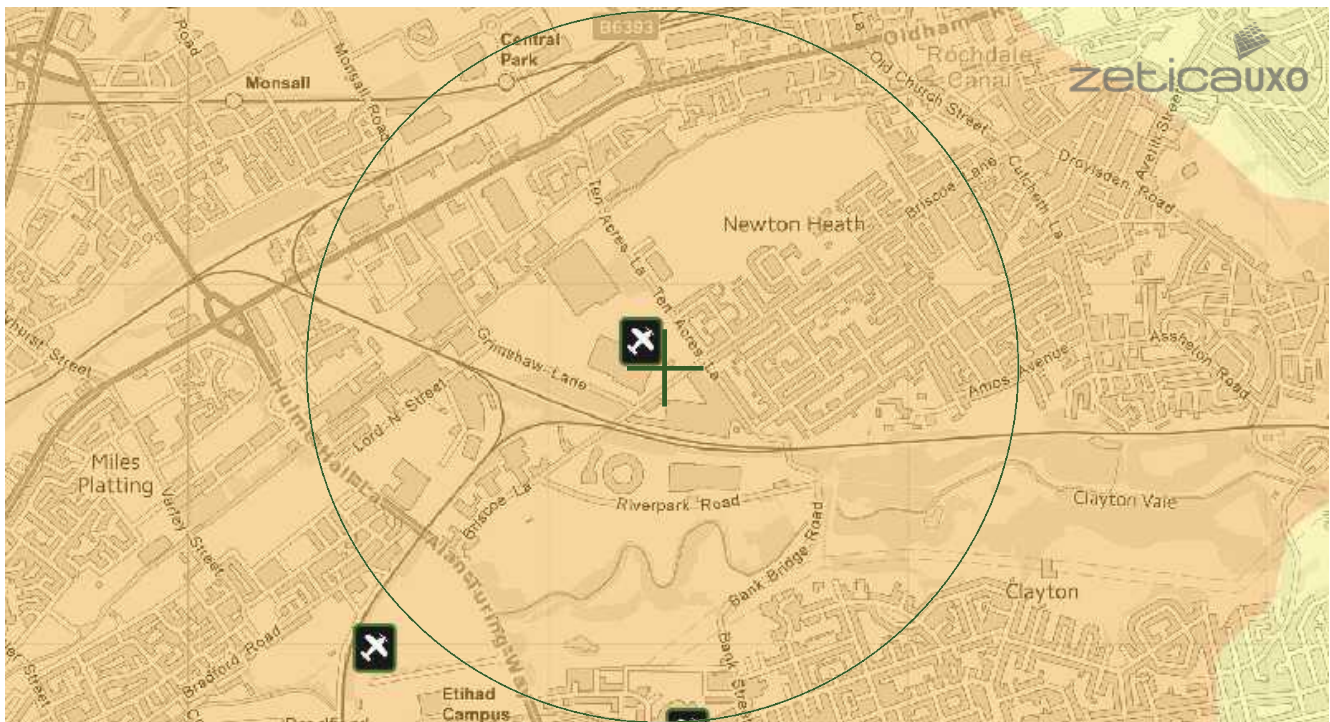
Zetica UXO Bomb Risk Map and Pre-Desk Study Assessment

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 387331,399771



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/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

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'.



Pre-Desk Study Assessment

Site:	245 Briscoe Lane, Newton Heath, Greater Manchester
Client:	The LK Group
Contact:	Emma Khadun
Date:	3 rd November 2021
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	During WWI, the Site was encompassed by the Newton Heath Avro works, which manufactured Avian, Cadet, Tudor and Anson type parts for the Royal Flying Corps (RFC), as well as munitions. During WWI, 1No. Anti-Aircraft (AA) gun was located at Newton Heath, approximately 0.1km southeast of the Site.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including aircraft and munitions manufacturing, engineering and metal works. ■ Military barracks, camps and training areas. ■ AA guns.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	The Newton Heath Avro works continued to manufacture aircraft parts.
WWII Military Activity on or Affecting the Site	During WWII, the Newton Heath Avro works manufactured Lancaster Bomber parts for the Royal Air Force (RAF).
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including aircraft and munitions manufacturing, engineering and metal works. ■ Military barracks, camps and training areas. ■ AA and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	None identified.
WWII Bombing	During WWII the Site was located in the County Borough (CB) of Manchester, which officially recorded 737No. High Explosive (HE) bombs with a bombing density of 27.0 bombs per 405 hectares (ha). The Manchester area was heavily bombed between the 22nd and 24th December 1940 (the 'Manchester Blitz'). Over 400No. HE bombs and more than 30,000 Incendiary Bombs (IBs) fell across the region. No readily available records have been found to indicate that the Site was bombed.

Appendix D

Risk Evaluation

Risk Evaluation

The method for risk evaluation is a qualitative method of interpreting the output from the risk estimation stage of the assessment, based on CIRIA 552¹⁸. It involves the classification of the:

- Magnitude of the potential consequence (severity) of the risk occurring (Table A).
- Magnitude of the probability (likelihood) of the risk occurring (Table B).

Consequence (Severity)		
Classification	Definition	Example
Severe	- Short term (acute) risk to human health likely to result in 'significant harm' as defined by the Environment Protection Act 1990, Part IIA. - Short term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. - Catastrophic damage to buildings/properties. - A short term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definition of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	- High concentrations of cyanide on the surface of an informal recreation area. - Major spillage of contaminants from site into controlled waters. - Explosion, causing building collapse (can also equate to short term human health risk if buildings are occupied).
Medium	- Chronic damage to Human Health ('significant harm' as defined in DETR, 2000). - Pollution of sensitive water resources (note Water Resources Act contains no scope for considering significance of pollution). - A significant change in a particular ecosystem, or organism forming part of such ecosystem.	- Concentrations of a contaminant from site exceed generic, or site specific assessment criteria. - Leaching of contaminants from a site to a major or minor aquifer (Principal and Secondary). - Death of a species within a designated nature reserve.
Mild	- Pollution of non-sensitive water resources. - Significant damage to crops, buildings, structures and services ('significant harm' as defined in DETR, 2000). - Damage to sensitive buildings / structures / services or the environment.	- Pollution of non-classified groundwater. - Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	- Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. - Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). - Easily repairable damage to buildings, structures and services.	- The presence of contaminants at such concentrations that protective equipment is required during site works. - The loss of plants in a landscaping scheme. - Discoloration of concrete.

Table A: Classification of consequence.

Probability (Likelihood)	
Classification	Definition
High likelihood	- There is a pollutant 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 likelihood	- There is a pollutant linkage and circumstances are possible under which an event could occur. - However it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	- There is a pollutant linkage but circumstances are such that it is improbable that an event would occur in the very long term.

Table B: Classification of probability.

¹⁸ CIRIA (2001). "Contaminated Land Risk Assessment: A Guide to Good Practice". C552.

These classifications are then compared to indicate the risk presented by each pollutant linkage (Table C). It is important that this classification is only applied where there is a possibility (which can range from high likelihood to unlikely) of a pollutant linkage existing.

		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

Table C: Comparison of consequence against probability.

Once the risk has been determined the corresponding action can be assessed (Table D).

Risk	Action Required
Very High Risk	- 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. - Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	- Harm is likely to arise to a designated receptor from an identified hazard. - Realisation of the risk is likely to present a substantial liability. - 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.
Moderate Risk	- It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. - 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.
Low Risk	- 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 Risk	- 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.

Table D: Description of the classification and likely action required.

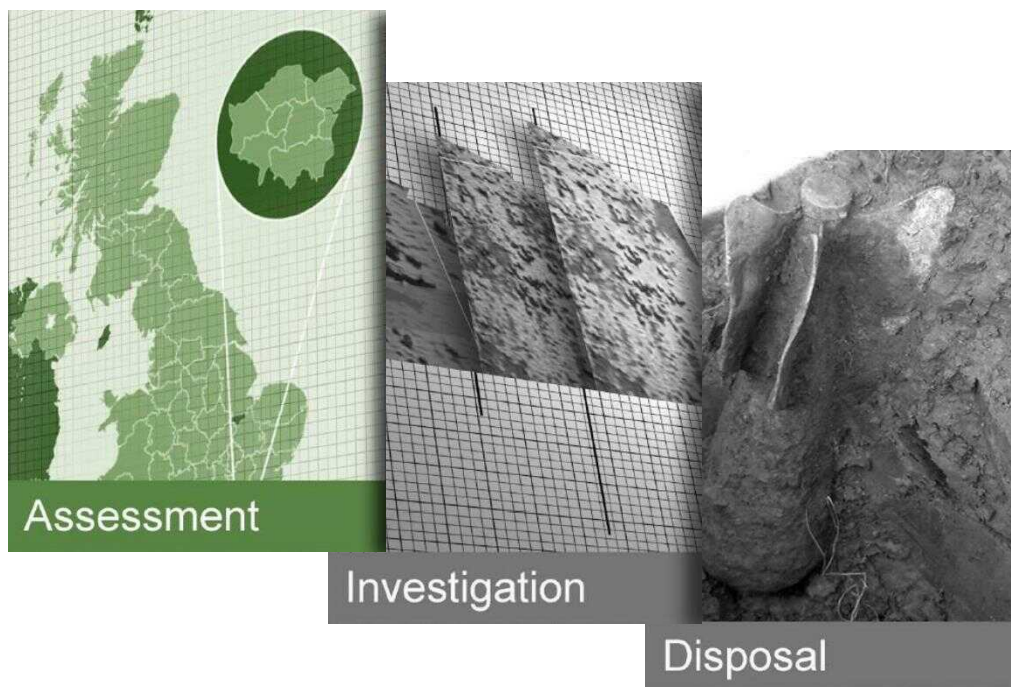
Where LKC identified a low to very low risk either limited intrusive investigation work, a watching brief (during construction work) or no investigation work will be recommended. This will be dependent on the nature of the site and the proposed development.

Where the risk falls into the moderate/low risk, LKC will undertake an assessment to establish what category the pollutant linkage will fall into (i.e. moderate or low risk will be chosen).

Where LKC identifies a moderate or higher risk intrusive work or precautionary remedial measures will be recommended.

Appendix E

Zetica UXO Desk Study & Risk Assessment



245 Briscoe Lane, Manchester - UXO Desk Study & Risk Assessment

Drafted by Ross Sykes
Checked by Abi Newton
Authorised by Stefan Lang

Document Title UXO Desk Study & Risk Assessment
Document Ref. P11282-21-R1
Revision A
Project Location 245 Briscoe Lane, Manchester
Client The LK Group
Date 18th November 2021

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UXO DESK STUDY & RISK ASSESSMENT

EXECUTIVE SUMMARY

Key findings: No significant sources of Unexploded Ordnance (UXO) hazard have been identified.

Key actions: Proceed with works.

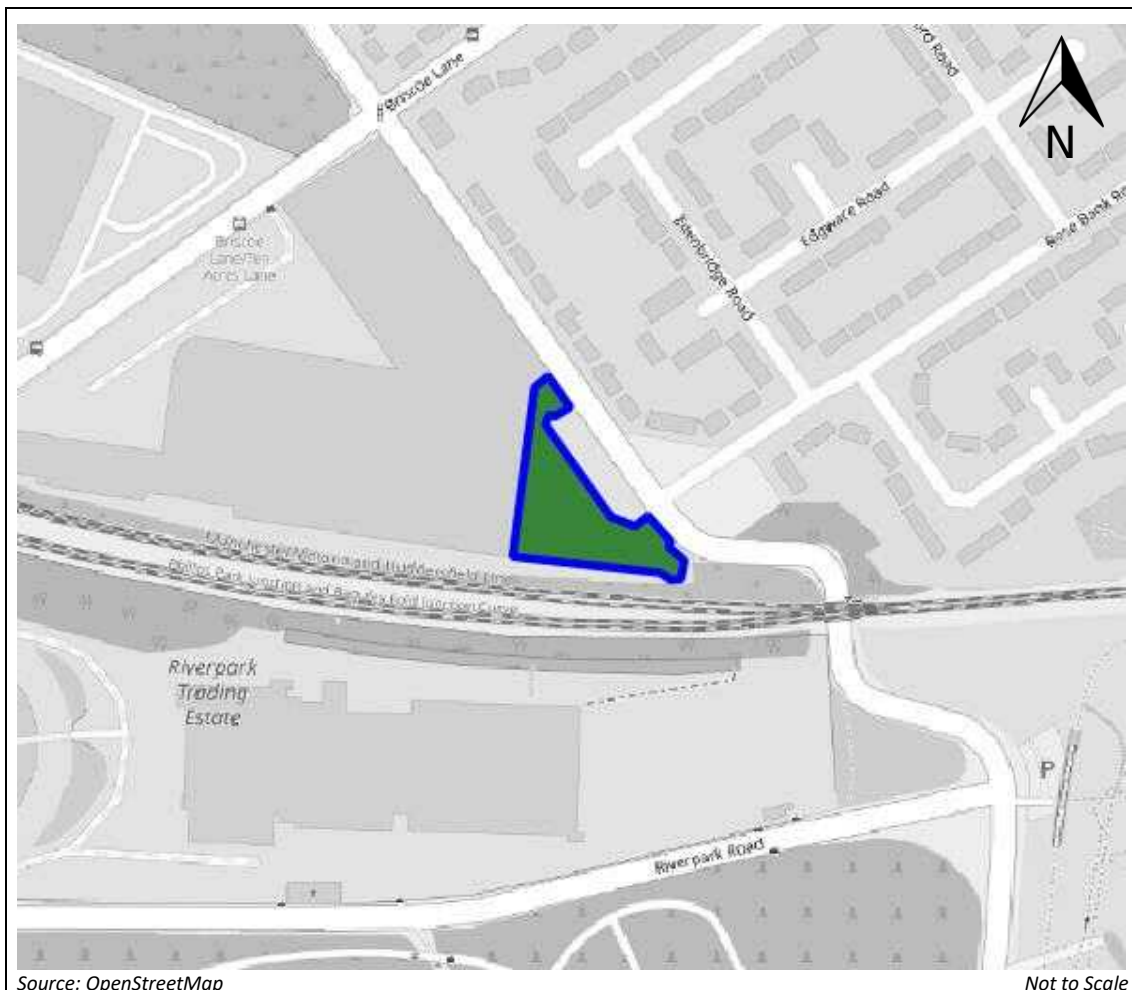
UXO Hazard Assessment

No records have been found indicating that the Site was bombed and no other significant sources of UXO hazard have been identified on the Site.

Given this, it is considered that the Site has a low UXO hazard level, as shown in the following Figure, reproduced as Figure 4 in the main report.

The UXO hazard zone plan of the Site is also given in the accompanying P11282-21-R1-MAP01-A.

UXO hazard zone plan of the Site



Legend	Very Low		Low		Moderate	
	High		Very High		Site boundary	

The main findings of the report are summarised below.

- No records of bombing or military activity on the Site during World War One (WWI) have been found.
- In 1919 A V Roe and Company (Avro) established an aircraft manufacturing factory on land encompassing the Site. The factory produced a range of aircraft including Avro biplanes and Bristol bombers.
- During World War Two (WWII) the main strategic targets in the vicinity of the Site included aircraft manufacturing, major transport infrastructure and public utilities, chemical, engineering and metal works.
- No records have been found indicating that the Site was bombed during WWII. Records indicate that the nearest High Explosive (HE) bomb fell approximately 0.4km east of the Site on the 12th October 1941.
- The Avro Factory continued to produce aircraft and aircraft components until 1947 when the factory was closed. The factory was then converted into storage buildings.

Data Confidence Level

The findings of this report were based on good corroborative evidence of the military activity and bombing on the Site.

Proposed Works

It is understood that the Site will be developed as a warehouse extension.

For the purpose of this risk assessment, it is assumed that works on the Site may include intrusive ground investigations, excavations and piling.

Risk Assessment

The Table below, reproduced as Table 3 in the main report, provides a UXO risk assessment for the proposed works on the Site.

Further details on the methodology for the risk assessment are provided in Section 7.2 of the main report.

UXO risk assessment for the Site

Potential UXO Hazard	Anticipated Works	PE	PD	P = PE x PD	Likelihood	Severity	Risk Rating	UXO Risk
UXB	Shallow Excavations	1	1	1	1	5	5	Low
	Deep Excavations	1	1	1	1	5	5	Low
	Boreholes/Piling	1	1	1	1	4	4	Low
Other UXO	Shallow Excavations	1	1	1	1	4	4	Low
	Deep Excavations	1	1	1	1	4	4	Low
	Boreholes/Piling	1	1	1	1	3	3	Low
PE (Probability of Encounter), PD (Probability of Detonation), P (Overall Probability)								
Shallow Excavations defined as <1.0m below ground level (bgl.)								

Risk Mitigation Plan

The Table below, reproduced as Table 4 in the main report, summarises the UXO risk for proposed works on the Site and recommended actions.

Summary of UXO risk and mitigation recommendations

Proposed Works	UXO Risk	Recommended Mitigation
Excavations		Proceed with works – if additional comfort is required to address the residual UXO hazard, a formal UXO awareness briefing can be provided.
Boreholes/Piling		Proceed with works

In summary, no additional measures are considered essential to reduce the UXO risk on the Site to As Low As is Reasonably Practicable (ALARP).

What Do I Do Next?

If you have any comments or require further assistance, contact us via phone (01993 886682) or email (uxo@zetica.com) and we can help.

If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If proposed works on the Site change, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.

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Accompanying GIS Data

P11282-21-R1-MAP01-A (UXO Desk Study)

ABBREVIATIONS

AA	Anti-Aircraft
ALARP	As Low As Reasonably Practicable
ARP	Air Raid Precaution
AXO	Abandoned Explosive Ordnance
BD	Bomb Disposal
BDO	Bomb Disposal Officer
BDU	Bomb Disposal Unit
CMD	Conventional Munitions Disposal
DCLG	Department of Communities and Local Government
EO	Explosive Ordnance
EOC	Explosive Ordnance Clearance
EOR	Explosive Ordnance Reconnaissance
ERW	Explosive Remnants of War
ESA	Explosive Substances and Articles
FFE	Free From Explosives
HAA	Heavy Anti-Aircraft
HE	High Explosive
HSE	Health and Safety Executive
IB	Incendiary Bomb
IED	Improvised Explosive Device
IEDD	Improvised Explosive Device Disposal
JSEODOC	Joint Services EOD Operations Centre
LAA	Light Anti-Aircraft
MoD	Ministry of Defence
OB	Oil Bomb
PM	Parachute Mine
PUCA	Pick Up and Carry Away
RAF	Royal Air Force
TEP	Time Expired Pyrotechnics
UXAA	Unexploded Anti-Aircraft
UXB	Unexploded Bomb
UXO	Unexploded Ordnance
WWI	World War One
WWII	World War Two

UXO DESK STUDY & RISK ASSESSMENT

Please read: Zetica has colour coded each paragraph. Paragraphs with black text on a white background are paragraphs that provide site-specific information or information specifically researched as part of this project.

Boxed paragraphs in a dark green text with a green background are paragraphs providing general information and, where appropriate, links to online resources giving further detail. These are all available at www.zeticauxo.com. If you cannot gain access to these resources, Zetica can forward them on request.

1 INTRODUCTION

1.1 Project Outline

Zetica Ltd was commissioned by The LK Group to carry out a detailed Unexploded Ordnance (UXO) Desk Study and Risk Assessment for an area of approximately 1.7 hectares (ha) off Briscoe Lane in Manchester (the 'Site').

The aim of this report is to gain a fair and representative view of the UXO hazard for the Site and its immediate surrounding area in accordance with the Construction Industry Research and Information Association (CIRIA) C681 'Unexploded Ordnance (UXO), a Guide for the Construction Industry'.

Where appropriate, this hazard assessment includes:

- Likelihood of ordnance being present.
- Type of ordnance (size, filling, fuze mechanisms).
- Quantity of ordnance.
- Potential for live ordnance.
- Probable location.
- Ordnance condition.

It should be noted that some military activity providing a source of UXO hazard may not be recorded and therefore there cannot be any guarantee that all UXO hazards affecting the Site have been identified in this report.

1.2 Sources of Information

Zetica Ltd researched the military history of the Site and its surrounding area using a range of information sources. The main sources of information are detailed in the following sections and referenced at the end of this report.

1.2.1 Zetica Ltd Defence Related Site Records

Zetica Ltd's in-house records were consulted, including reference books and archived materials from past work in the region. Relevant documents have been cited within the bibliography of this report.

1.2.2 Zetica Ltd Bombing Density Records and Maps

Reference has been made to the Zetica Ltd bomb risk maps located on Zetica's website (<http://zeticauxo.com/downloads-and-resources/risk-maps/>)

1.2.3 Ministry of Defence and Government Records

Government departments and units within the Ministry of Defence (MoD) were approached for information of past and present military activity in the area. These included the Department of Communities and Local Government (DCLG) records of abandoned bombs.

1.2.4 Other Historical Records, Maps and Drawings

Numerous reference documents including historical maps, aerial photographs and drawings have been consulted from sources such as the National Archives, the US National Archives & Records Administration (NARA), the Imperial War Museum (IWM), Historic England and the Defence of Britain Project.

The British Geological Survey (BGS) was consulted for borehole information.

1.2.5 Local Authority Records

Information was obtained from Manchester City Council.

1.2.6 Local Record Offices and Libraries

The Greater Manchester County Record Office, Manchester Central Library Archive and Manchester University were consulted for records.

1.2.7 Local Historical and Other Groups

Local history groups and archaeological bodies were consulted, including the Greater Manchester Historic Environment Record (HER).

1.3 Data Confidence Level

In general, there is a high level of confidence in the researched information sources used for this report.

It should be noted that due to Covid-19 restrictions, access to the Historic England aerial photography has been limited during the writing of this report. As such, Zetica has relied on detailed aerial photography gathered from previous projects in the area and readily available aerial photography where available.

2 THE SITE

2.1 Site Location

The Site is centred on Ordnance Survey National Grid Reference (OSNGR) SJ 875995. It is located approximately 3.8km northeast of Manchester City Centre.

The Site comprises hardstanding and 1No. warehouse. It is bounded to the north by Briscoe Lane and 1No. warehouse, to the east by Briscoe Lane and 1No. warehouse, to the south by a mainline railway and to the west by warehouses.

Figure 1 is a Site location map and Plate 1 is a recent aerial photograph of the Site.

Figure 1 Site location map

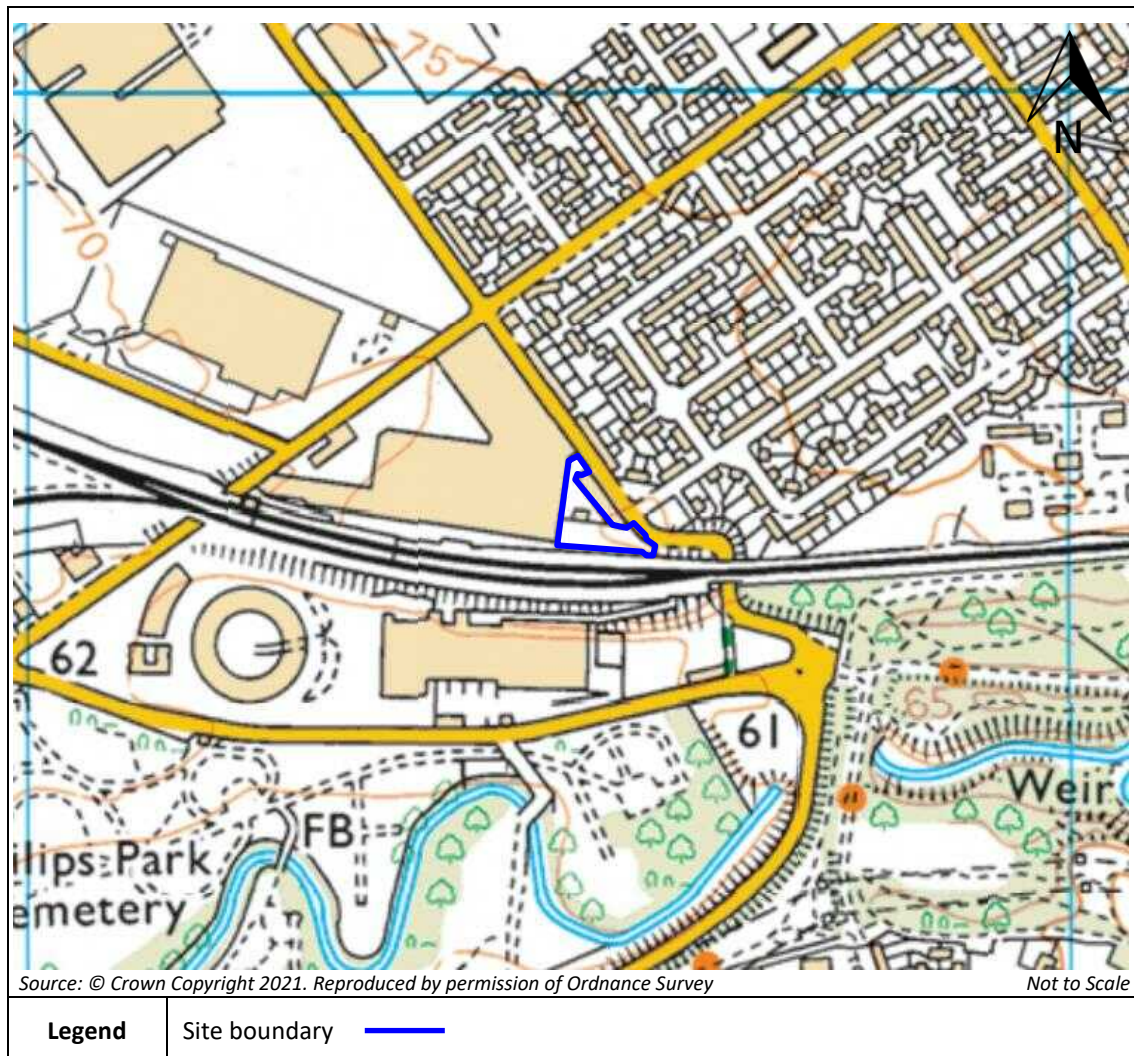
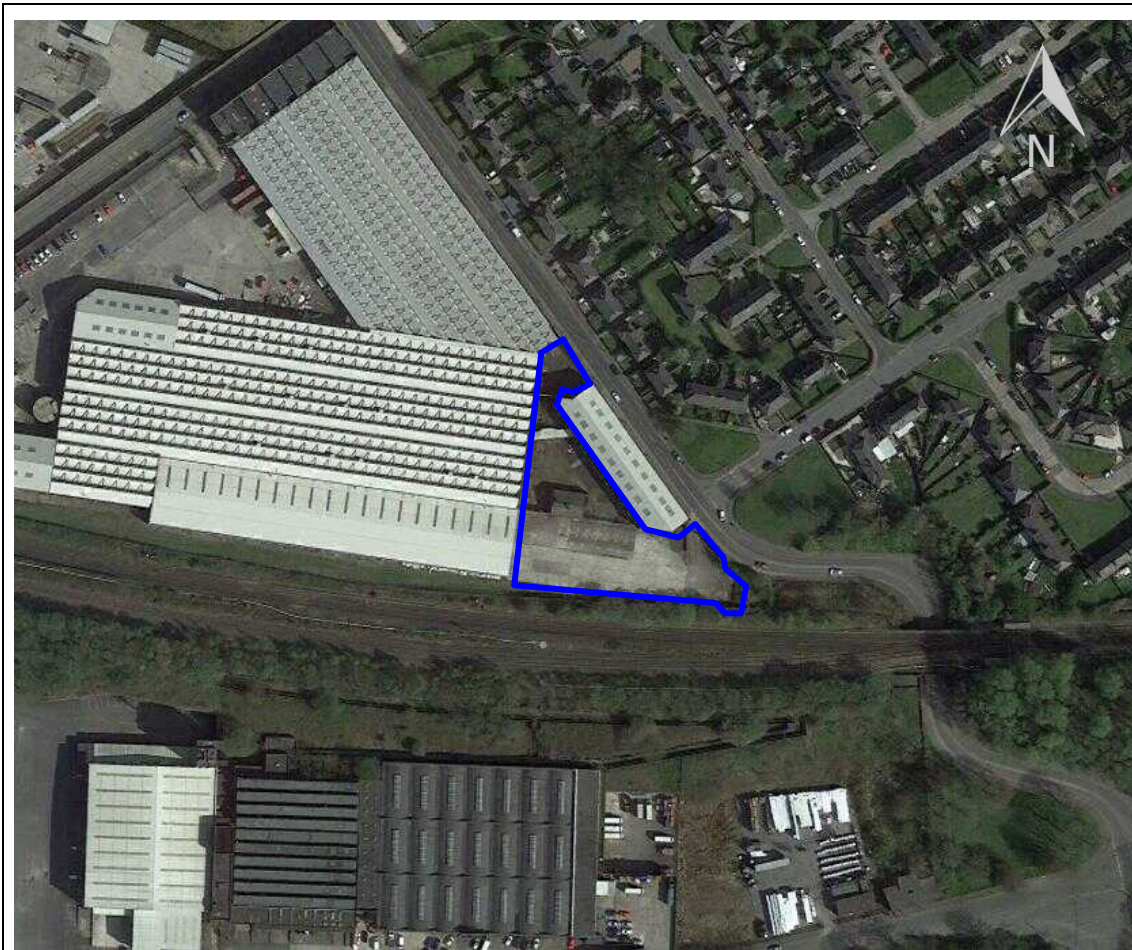


Plate 1 Recent aerial photograph of the Site



Source: Google Earth

Not to Scale

Legend

Site boundary —

3 MILITARY ACTIVITY

The following sections outline the recorded military activity in the vicinity of the Site. The potential UXO hazard from World War One (WWI) and World War Two (WWII) bombing is detailed in Section 4.

Each sub-section provides hyperlinks to further information on potential sources of UXO hazard. These are also available at www.zeticauxo.com. If you cannot gain access to these resources, Zetica can forward them on request.

3.1 Defences

For further information on military defences, and the potential UXO hazards associated with them, follow the links below:

- [Anti-Aircraft Guns](#)
- [Anti-Invasion Defences](#)
- [Barrage Balloons](#)
- [Bombing Decoys](#)
- [Home Guard](#)
- [Mined Locations](#)
- [Mortar & Gun Emplacements](#)
- [Pillboxes](#)

No military defences have been identified on the Site. The nearest are described below.

3.1.1 Anti-Aircraft Guns

Records indicate that during WWI there were 9No. Anti-Aircraft (AA) batteries within 10km of the Site. The nearest was located at Newton Heath (SJ 877996), approximately 0.1km southeast of the Site. It was armed with 1No. 18-pounder (-pdr) gun.

Records indicate that during WWII there were 29No. Heavy AA (HAA) and ZAA batteries within 10km of the Site. The nearest was located near Medlock Vale, Failsworth (SD 899000), approximately 2.4km east-northeast of the Site. Its armament is unknown.

The nearest recorded WWII AA shell incidents to the Site are described below.

22nd December 1940

1No. AA shell fell at Ravensbury School, off Ravensbury Road, approximately 0.7km south of the Site.

14th March 1941

1No. AA shell fell on 83 Droylsden Road, approximately 1.1km northeast of the Site.

1No. AA shell fell on 96 Church Street, approximately 1km northeast of the Site.

Potential UXO Hazard

Given the number of HAA gun batteries in the surrounding area during WWII, the potential for an Unexploded AA (UXAA) shell to have fallen on the Site unnoticed, whilst unlikely, cannot be totally discounted.

3.1.2 Bombing Decoys

The nearest recorded bombing decoy was located at Reddish (SJ 912939), approximately 6.7km southeast of the Site.

Bombing decoys are not considered to provide a source of UXO hazard to the Site.

3.1.3 Home Guard

The 48th Lancashire (Manchester) Home Guard Battalion was deployed in the area during WWII, tasked with patrolling local industrial works and transport infrastructure.

The Home Guard are known to have trained on Clayton Vale during WWII, approximately 0.2km southeast of the Site.

Home Guard activity is not considered to provide a source of UXO hazard to the Site.

3.2 Military Airfields

For further information on military airfields, and the potential UXO hazards associated with them, follow the link below:

- [Military Airfields](#)

No records of any military airfields on or in close proximity to the Site have been found.

During WWI, the nearest recorded airfield was Alexandra Park (SJ 834932), approximately 7.5km southwest of the Site.

Alexandra Park was used from May 1918 until November 1918 to test fly and deliver aircraft for the Royal Air Force (RAF). The airfield was handed over to civilian use for passenger flights in May 1919. The airfield was closed in August 1924 and the land is now used as playing fields.

The nearest operational airfield during WWII was RAF Barton (SJ 742972), approximately 13.5km west of the Site.

Originally a municipal airport, on 1st October 1937, No. 17 Elementary & Reserve Flying Training School began training pilots for the RAF at Barton. On the outbreak of WWII, the airfield was requisitioned and repaired aircraft for the RAF and Fleet Air Arm (FAA). It reverted to civilian use after WWII.

Military airfields are not considered to provide a source of UXO hazard to the Site.

3.3 Aircraft Crashes

For further information on military aircraft crashes, and the potential UXO hazards associated with them, follow the link below:

- [Aircraft Crashes](#)

No records of any aircraft crashes on or in close proximity to the Site have been found.

3.4 Explosives Factories, Munitions Depots and Disposal Areas

For further information on explosives factories, munitions depots and disposal areas, and the potential UXO hazards associated with them, follow the links below:

- [Explosives Factories](#)
- [Munitions Depots](#)
- [Munitions Disposal Areas](#)

No records of any explosives factories, munitions depots or munitions disposal areas on the Site have been found. The nearest is described below.

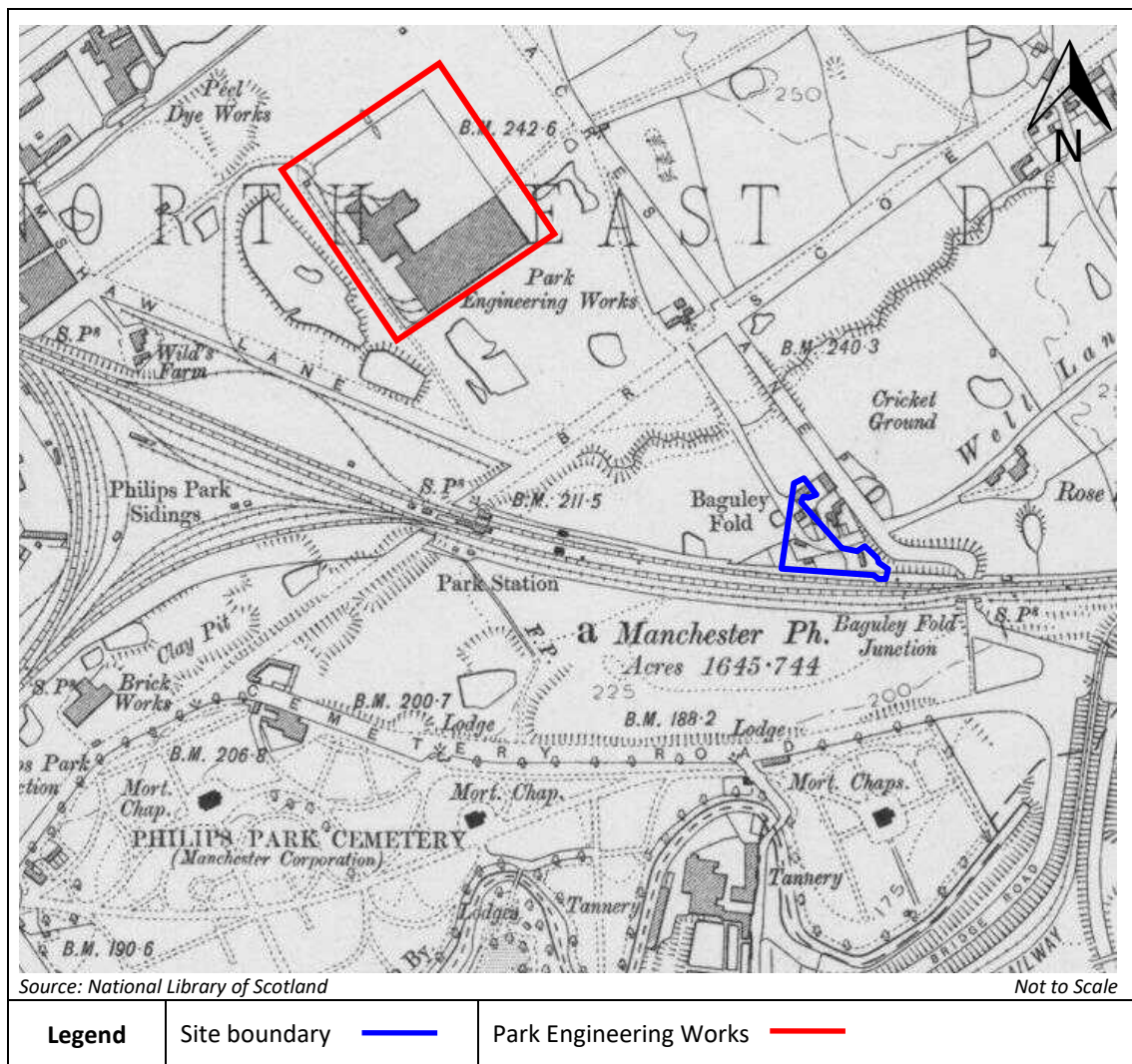
3.4.1 Park Engineering Works

In 1900 Park Engineering Works was established at Newton Heath by Mather and Platt Ltd (SJ 871999), approximately 0.3km north of the Site.

Figure 2 is a map dating from 1913. It shows the extent of the Newton Heath Park Engineering Works.

At this time the Site comprised several residential buildings off open ground at Baguley Fold.

Figure 2 Historical map, 1913



During WWI Park Engineering Works contained a howitzer re-lining department. It also manufactured shell casings, fuzes, submarine propelling motors, tank gear boxes and hull plates searchlight generators among other munitions. At the end of the war the Park Engineering Works premises returned to civilian use.

Aircraft manufacturers Avro were also granted permission to use the Park Engineering Works to cope with the wartime demand for Avro 504 biplanes. Plate 2 is a photograph of the Park Engineering Works dating from 1918. It shows Avro 504 aircraft awaiting delivery.

Plate 2 Luftwaffe target photograph of Avro 504 aircraft at Park Engineering Works, 1918



Source: Avro Heritage Museum

Not to Scale

Following WWI aircraft production continued at a separate factory operated by Avro, on the Site. Park Engineering later took control of this factory when Avro left the factory in 1938 (see Section 3.6).

During WWII the Park Engineering Works was turned over to wartime production. This included the production of guns, capstans for boom defence vessels, gun mountings, Bofors predictors and rocket projectors, cordite rolling mills, and machines for proofing the fabric of barrage balloons. This comprised the production of the casings and engineering components of these munitions, and did not involve the handling of live explosives.

Following WWII Park Engineering Works returned to civilian engineering production. It was closed in July 2013.

The Park Engineering Works is not considered to provide a source of UXO hazard to the Site.

3.5 Firing Ranges and Military Training Areas

For further information on firing ranges and military training areas, and the potential UXO hazards associated with them, follow the links below:

- [Artillery Ranges](#)
- [Bombing Ranges](#)
- [Military Training Areas](#)
- [Small Arms Ranges](#)

No records of any firing ranges or military training areas on or in close proximity to the Site have been found.

3.6 Other Military Establishments

In 1919 the Newton Heath Avro Factory was constructed on the Site. It is described below.

3.6.1 Newton Heath Avro Factory

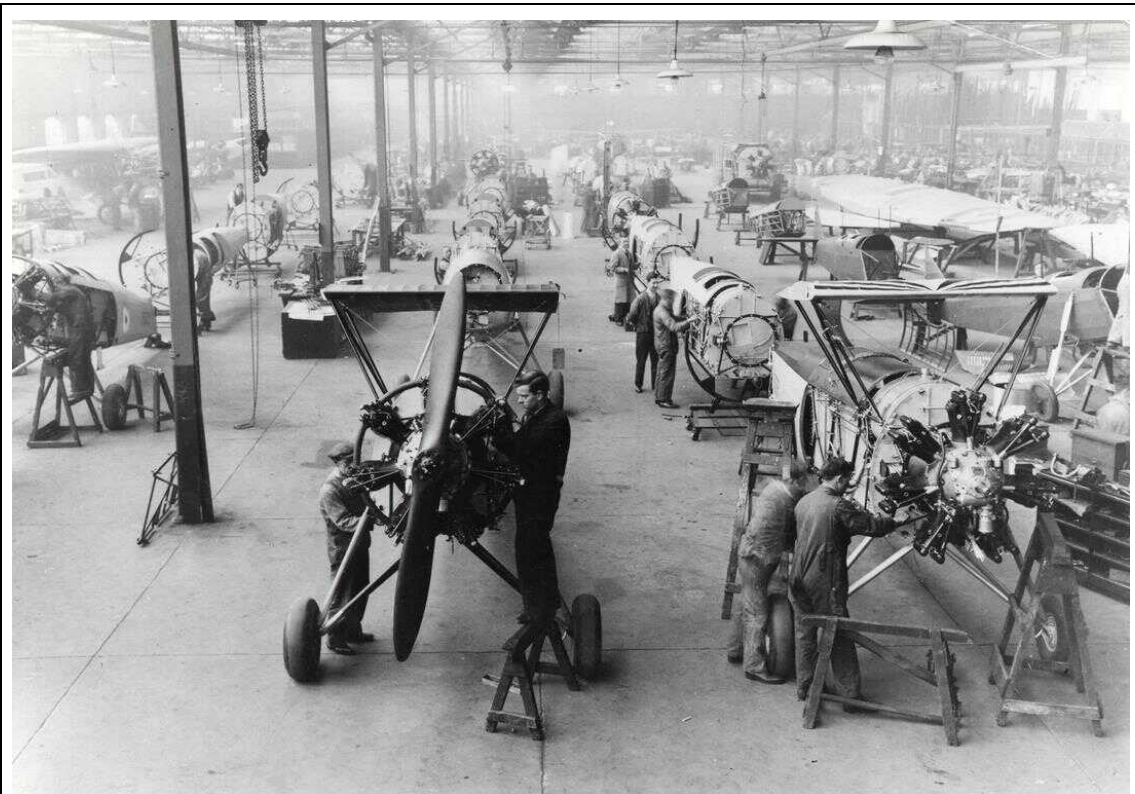
In 1919 an Avro factory was established at Newton Heath on land encompassing the Site. It was purpose-built for producing aircraft components and bodies, though it also expanded into automobiles following the end of WWI.

Throughout the 1920s and 1930s Avro manufactured a variety of aircraft, including the Avro 504 biplane, the Avro 643 cadet biplane trainer, the Avro Type 261 Tutor biplane trainer, and the Avro Anson multi-role aircraft.

In 1932 the Newton Heath factory became Avro's headquarters.

Plate 3 is a photograph dating from 1932 of the Newton Heath Avro Factory. It shows the production lines of Avro Tutors, Avro Avians, and Avro Tens.

Plate 3 Luftwaffe target photograph of Newton Heath Avro Factory, 1932



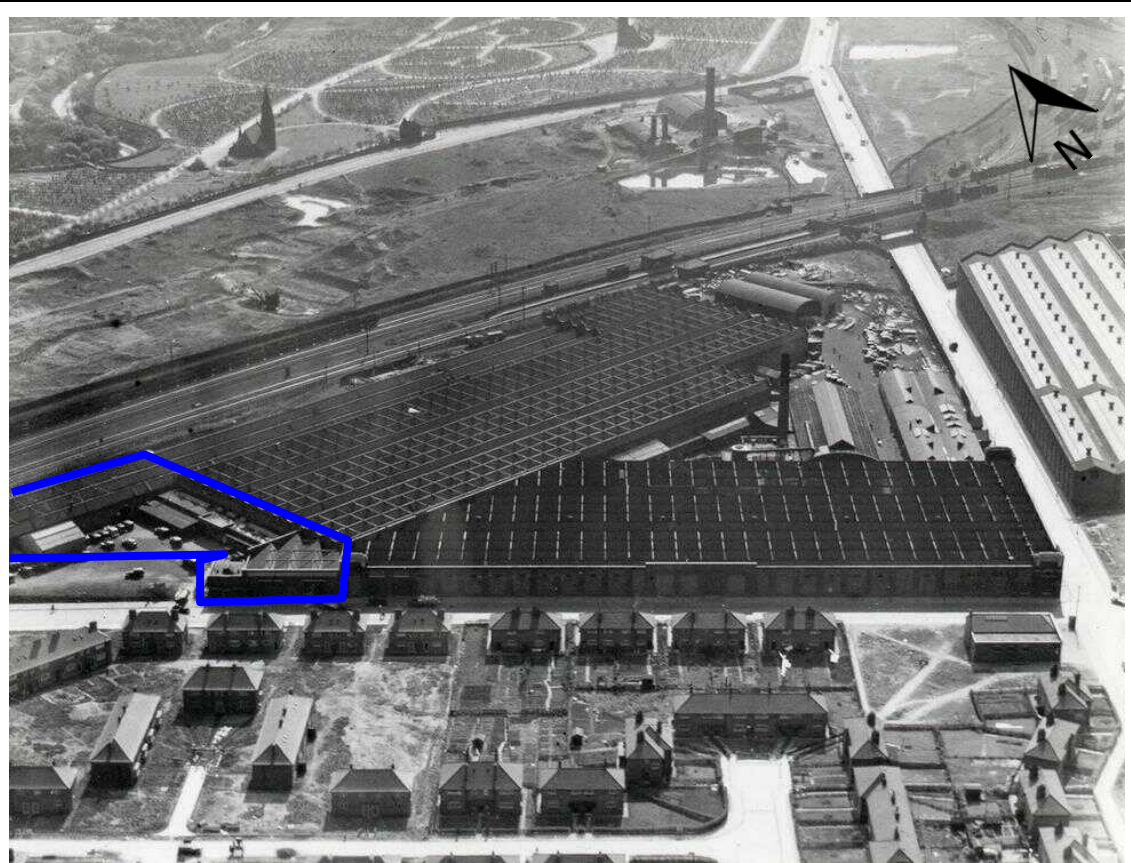
Source: Avro Heritage Museum

Not to Scale

In 1938 Avro received the licence to build Bristol Blenheim light bomber aircraft. This involved the production of aircraft bodies and frames, and the factory was not equipped to arm the aircraft produced at the factory.

Also in 1938, Avro left the factory, moving their headquarters to Chadderton in 1939. The factory was taken over by the Park Engineering Works and remained in use for aircraft production.

Plate 4 is an aerial photograph of the Avro Works at Newton Heath, dating from 1938.

Plate 4 Aerial photograph of the Avro Works at Newton Heath, 1938

Source: NCAP

Not to Scale

Legend

Site boundary



In WWII the Park Engineering Works reprised wartime production at the Avro site, producing Bristol Blenheim light bomber aircraft, Avro Anson multi-role aircraft and Avro Lancaster heavy bomber aircraft components.

Following the end of WWII, production was scaled down at the former Newton Heath Avro Factory. The factory closed on the 8th April 1947.

The factory was taken over by the Co-operative Wholesale Society (CWS) and converted into storage buildings.

The Newton Heath Avro Factory is not considered to provide a source of UXO hazard to the Site.

4 BOMBING

4.1 WWI Bombing

For further information on WWI bombing in the UK, and the potential UXO hazard associated with it, see Appendix 2.1. Alternatively, use the following link.

- [WWI Bombing](#)

No records have been found indicating that the Site was bombed during WWI.

4.2 WWII Bombing

For further information on WWII bombing in the UK, and the potential UXO hazard associated with it, see Appendix 2.2. Alternatively, use the following link.

- [WWII Bombing](#)

No records have been found indicating that the Site was bombed during WWII. Details of WWII bombing in the vicinity of the Site are provided in the following sections.

4.2.1 Bombing in Manchester

Manchester's industrial conurbations and port made it a principal target for enemy bombers. The Luftwaffe possessed detailed target photographs of many industrial complexes from as early as 1937.

Air raids on Manchester began in August 1940 and continued until 1945. The heaviest raids on the city occurred between the 22nd and 24th December 1940, the 'Manchester Blitz', during which more than 400No. High Explosive (HE) bombs and thousands of Incendiary Bombs (IBs) were dropped.

More than 1,710No. HE bombs and 115No. Parachute Mines (PMs) fell across the Manchester region during WWII. Bombing was concentrated on the city centre and in west Manchester, where the Salford Docks and major industrial works at Trafford Park attracted heavy raids.

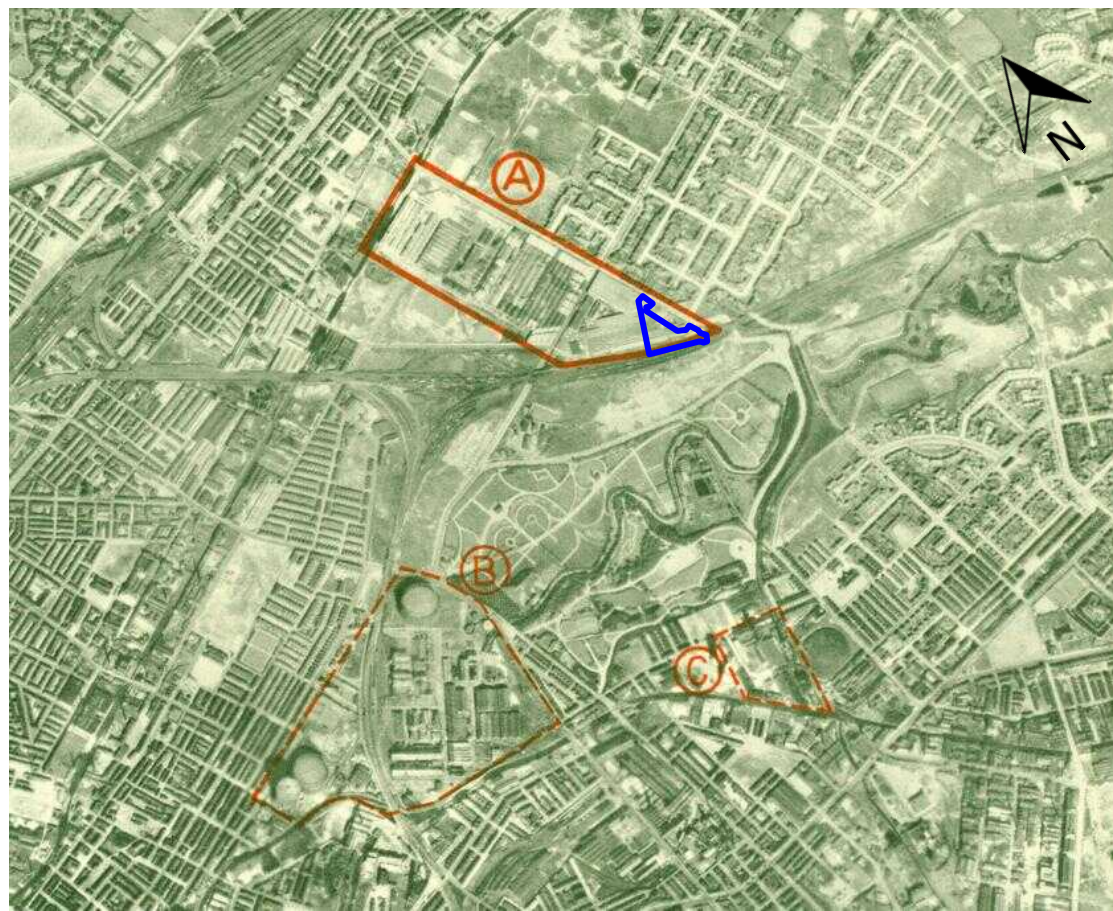
Bombing densities generally decreased away from the city centre and far less damage was sustained by properties in these areas.

4.2.2 Strategic Targets

During WWII the Site was encompassed by the Newton Heath Avro Factory (see Section 3.6). This was identified as a strategic target by the Luftwaffe (see Plate 4).

The Site was located in an area which contained numerous other potential strategic targets, including aircraft manufacturing, major transport infrastructure and public utilities, chemical, engineering and metal works.

Plate 5 is a Luftwaffe target photograph of Newton Heath dating from October 1940. This shows the Newton Heath Avro Factory (Target A), Manchester Gasworks at Philips Park (Target B) and Manchester Power Station in Stuart Street (Target C).

Plate 5 Luftwaffe target photograph of Newton Heath, October 1940

Source: NARA

Not to Scale

Legend

Site boundary

**4.2.3 Bombing Densities and Incidents**

Table 1 gives details of the overall bombing statistics recorded for the Local Authority Districts of the Site (highlighted by bold text) and surrounding districts. These were categorised as Rural Districts (RD), Urban Districts (UD), Municipal or Metropolitan Boroughs (MB) and County Boroughs (CB). WWII bomb density levels are defined below:

<5 bombs per 405ha is a Very Low regional bombing density.

5-15 bombs per 405ha is Low.

15-50 bombs per 405ha is Moderate.

50-250 bombs per 405ha is High.

>250 bombs per 405ha is Very High.

Table 1 Bombing statistics

Area	Bombs Recorded				
	High Explosive	Parachute Mines	Other	Total	Bombs per 405ha (1000 acres)
Manchester CB	712	18	7	737	27.0
Stretford MB	456	64	0	520	147.3
Salford CB	406	29	16	451	86.7
Middleton MB	37	0	0	37	7.2
Chadderton UD	11	1	0	12	4.0
Failsworth UD	1	2	0	4	3.7

Note that Table 1 excludes the figures for Incendiary Bombs (IBs). Discrepancies between this list and other records, such as bomb clearance records, demonstrate that this data is likely to under-represent actual bombing.

Details of the nearest recorded bombing incidents to the Site are given in the following section.

1st October 1940

Several IBs fell on Irlam Street, approximately 1.1km northwest of the Site.

2nd October 1940

1No. HE bomb fell on the junction of Grimshaw Lane and Sun Street, approximately 0.9km northwest of the Site.

1No. HE bomb fell opposite Albert Chemical Works, Ardwick Junction, approximately 0.9km west of the Site.

Several IBs fell on the London Midland & Scottish Railway (LMSR) line near Hulme Hall Lane, approximately 0.9km southwest of the Site.

1No. HE bomb fell on the Gas Plant Works off Chapter Street, approximately 0.9km northwest of the Site.

22nd-24th December 1940

Manchester and Salford were heavily bombed (the 'Manchester Blitz'). In total 171No. bomber aircraft attacked Manchester and dropped over 400No. HE bombs and more than 30,000No. IBs.

The weights of the HE bombs dropped during the raid ranged from 50kg to 1,800kg. The nearest recorded incidents to the Site during these raids are described below.

1No. HE bomb fell on Hulme Hall Lane, approximately 0.9km west-southwest of the Site.

Several IBs fell between on the Electricity Generating Station off Stuart Street and the Manchester and Ashton-under-Lyne Canal, approximately 0.9km south of the Site.

1No. Parachute Mine (PM) fell on Sandall Street, approximately 1km southwest of the Site.

1No. HE bomb fell on the Railway Foundry off Holt Street, approximately 1km north-northwest of the Site.

1st June 1941

Approximately 110No. aircraft raided Manchester, dropping 42No. HE bombs and numerous IBs.

3No. HE bombs fell in a line from Ceylon Street to Vine Street, within approximately 1km north of the Site.

12th October 1941

1No. HE bomb fell on the junction of Ascot Road and Homerton Road, approximately 0.4km east of the Site.

1No. HE bomb fell on Bank Street, approximately 0.5km south of the Site.

1No. HE bomb fell on the corner of Ravensbury Street and Stockholm Street, approximately 0.7km south of the Site.

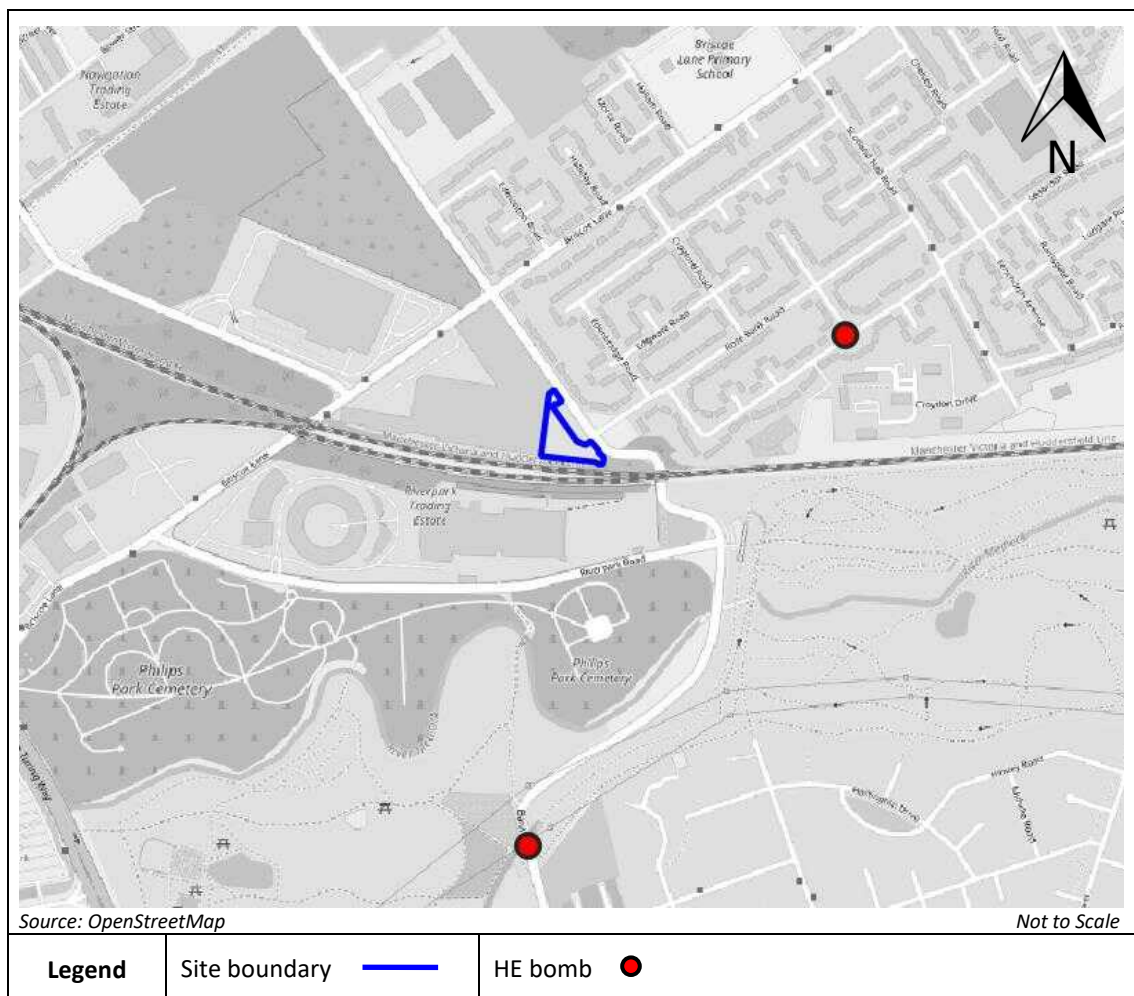
It should be noted that during WWII, many Unexploded Bombs (UXB) were mapped and subsequently removed as and when conditions and demands on Bomb Disposal teams allowed. Their removal was not always accurately recorded and sometimes records were later destroyed. In practice, most UXB were probably removed and only a much smaller number were actually registered as officially abandoned bombs.

Figure 3 is a map showing the approximate location of recorded bomb impacts in the immediate vicinity of the Site.

The map has been compiled from a number of different sources, including air raid incident reports, historical aerial photographs and bomb census maps.

The bomb map is also given in the accompanying P11282-21-R1-MAP01-A.

Figure 3 Compiled bomb impact map for the vicinity of the Site



Potential UXO Hazard

No records have been found indicating that the Site was bombed and the bombing density in the vicinity of the Site was low.

No post-war aerial photography was available for the Site due to limited access to Historic England see note in Section 1.3). Given the above, it is considered that aerial photography will only confirm the low bombing density identified.

WWII bombing is not considered to provide a source of UXO hazard to the Site.

4.2.4 Geology and Bomb Penetration Depths

It is important to consider the geological materials present at the time that a bomb was dropped in order to establish its maximum penetration depth.

At the time of writing, no Site-specific ground investigation data was available.

British Geological Survey (BGS) 1:50,000 Sheet 85 Manchester (Solid & Drift) and BGS borehole records from nearby investigations have been consulted to get an indicative overview of the Site geology.

The geology of the Site is understood to consist of Made Ground, over Devensian Till, overlying Sandstone of the Chester Formation.

Table 2 provides an estimate of average maximum bomb penetration depths for the Site assuming WWII ground conditions of 1.5m of Made Ground (modelled as gravel), over 6m of glacial till (modelled as stiff clay), overlying more than 20m of sandstone.

Table 2 Estimated average maximum bomb penetration depths

Estimated average bomb penetration depths for anticipated geology		
Bomb Weight	50kg	3.5m
	250kg	6.5m
	500kg	9.5m

These calculations can be refined on receipt of Site-specific information.

The estimated bomb penetration depths given in Table 2 are from the WWII ground level and are based on the following assumptions:

- a) High level release of the bomb resulting in an impact velocity of 260m/s (>5,000m altitude).
- b) A strike angle of 10 to 15 degrees to the vertical.
- c) That the bomb is stable, both in flight and on penetration.
- d) That no retarding units are fitted to the bomb.
- e) That the soil type is homogenous.

A high altitude release of a bomb will result in ground entry at between 10° and 15° to the vertical with the bomb travelling on this trajectory until momentum is nearly lost. The bomb will then turn abruptly to the horizontal before coming to rest. The distance between the centre of the entry hole and the centre of the bomb at rest is known as the 'offset'. A marked lateral movement from the original line of entry is common.

Low-level attacks may have an impact angle of 45° or more, which will frequently lead to a much greater amount of offset movement during soil penetration.

The average offset is one third of the penetration depth, i.e. an offset of 2m may be expected for a 50kg bomb in dry silts and clays. If hard standings or Made Ground were present during WWII, bomb penetration depths would have been significantly reduced but offset distances may have been up to four times greater.

5 EXPLOSIVE ORDNANCE CLEARANCE ACTIVITIES

Official UK bombing statistics have been compiled from both British and German sources. There were differences in the way the figures were originally reported and collated which has led to discrepancies in the summary data.

Based on data from 1939 to 1945, War Office statistics indicate that 200,195No. HE bombs exploded within Great Britain. Additionally, 25,195No. HE bombs (representing 11%) were recorded as UXBs. However, records from the Royal Engineers who were responsible for bomb disposal at the time indicate that as of 27th February 1946 upwards of 45,000No. UXBs were disposed of.

On average 8.5% of UXBs later self-exploded. In some cases the bombs had delayed action fuzes or were never intended to explode, their purpose being to cause inconvenience and fear. Given the discrepancy in records and the fact that UXBs are still being found unexpectedly, it is clear that the original figures are understated and provide only an approximation of the number of potential UXBs in the UK.

War Office statistics also show that between October 1940 and May 1941 most of the UXBs (93%) were either 50kg or 250kg. It should be noted that details of the recovery and the size of the UXB were not always accurately reported.

The larger WWII UXBs are often difficult to recover due to both penetration depths and the presence of two or more fuzes, combined with more sensitive fillings of explosive mixtures including Amatol and Trialen.

5.1 Abandoned Bombs

For further information on abandoned bombs, and the potential UXO hazard associated with them, follow the link below:

- [Abandoned Bombs](#)

No records have been found indicating that any officially abandoned bombs are located on the Site.

5.2 EOC Tasks

Zetica holds the following records of post-WWII EOC tasks having taken place in the vicinity of the Site.

2nd October 2020

1No. inert shell was discovered in the Rochdale Canal, off Grimshaw Lane, approximately 0.7km northwest of the Site. It was removed by a Bomb Disposal Unit (BDU).

6 UXO HAZARD ASSESSMENT

6.1 UXO Hazard Level

The definitions for the levels of UXO hazard are provided below.

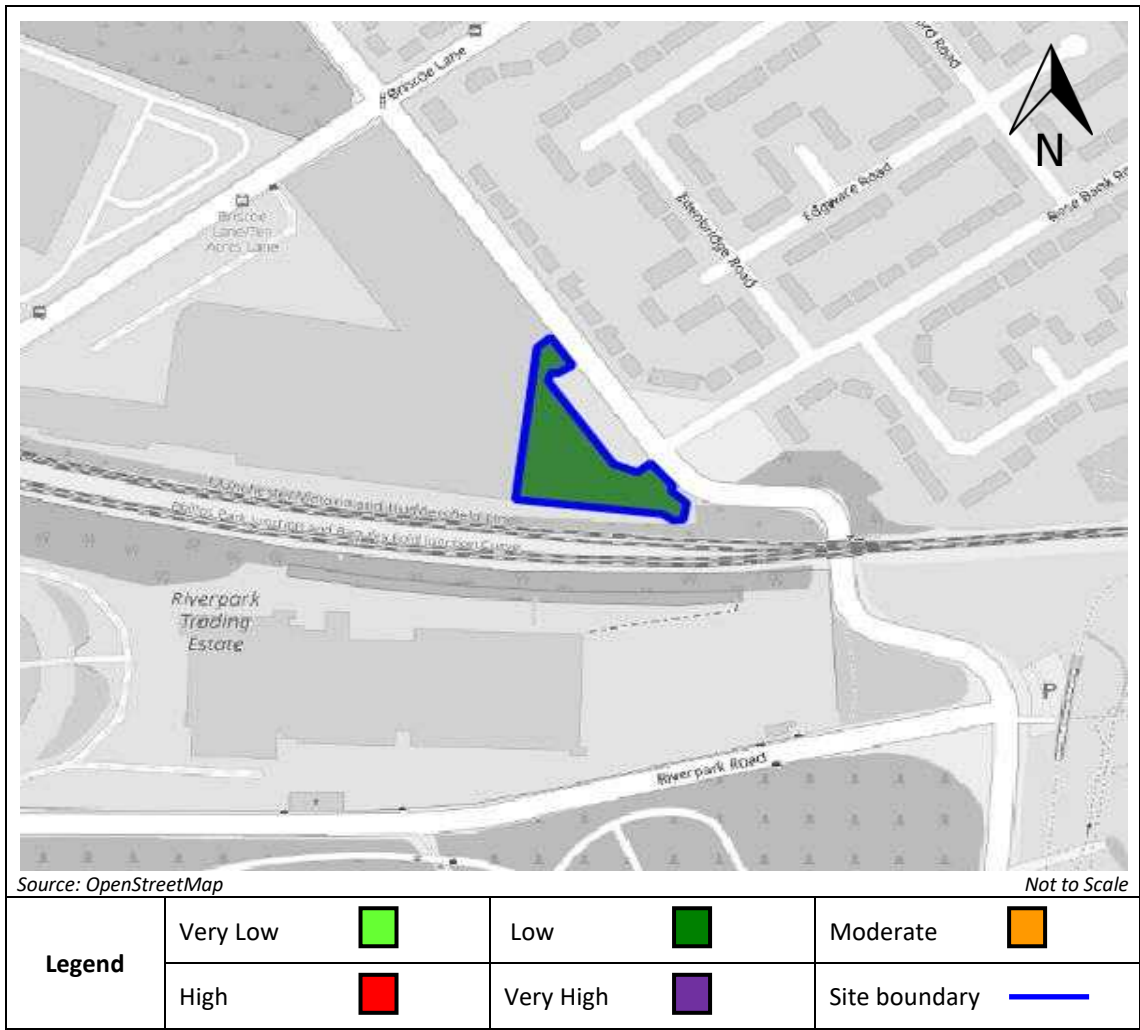
Definitions of UXO Hazard Level for a Site	
Hazard Level	Definition
Very Low	There is positive evidence that UXO is not present, e.g. through physical constraints or removal.
Low	There is no positive evidence that UXO is present, but its occurrence cannot be totally discounted.
Moderate	There is positive evidence that ordnance was present or that other uncharted ordnance may be present as UXO.
High	There is positive evidence that UXO is present.
Very High	As high, but requires immediate or special attention due to the potential hazard.

No records have been found indicating that the Site was bombed and no other significant sources of UXO hazard have been identified on the Site.

Given this, it is considered that the Site has a low UXO hazard level, as shown in Figure 4.

The UXO hazard zone plan of the Site is also given in the accompanying P11282-21-R1-MAP01-A.

Figure 4 UXO hazard zone plan of the Site



7 UXO RISK ASSESSMENT

7.1 Proposed Works

It is understood that the Site will be developed as a warehouse extension.

For the purpose of this risk assessment, it is assumed that works on the Site may include intrusive ground investigations, excavations and piling.

7.2 Risk Assessment Methodology

A UXO risk assessment has been undertaken for the proposed works, taking into consideration the identified UXO hazard.

Firstly, the probability of encountering UXO (PE) has been considered and rated for the different construction techniques, as detailed below.

Probability of Encounter (PE)	Rating
Frequent, highly likely, almost certain.	5
Probable, more likely to happen than not.	4
Occasional, increased chance or probability.	3
Remote, unlikely to happen but could.	2
Improbable, highly unlikely.	1
Impossible	0

Secondly, the probability of detonating a UXO (PD) has been considered and rated for the different construction techniques, as detailed below.

Probability of Detonation (PD)	Rating
Frequent, highly likely, almost certain.	5
Probable, more likely to happen than not.	4
Occasional, increased chance or probability.	3
Remote, unlikely to happen but could.	2
Improbable, highly unlikely.	1
Impossible	0

Next, the probability of encountering and detonating the UXO (PE x PD) have been used to generate an overall likelihood rating (P).

P = PE x PD	LIKELIHOOD of Encounter and Detonation	Rating
21 to 25	Frequent, highly likely, almost certain.	5
16 to 20	Probable, more likely to happen than not.	4
6 to 15	Occasional, increased chance or probability.	3
2 to 5	Remote, unlikely to happen but could.	2
1	Improbable, highly unlikely.	1
0	Impossible	0
P ranges from 25, a certainty of UXO being encountered and detonated on the Site by engineering activity, to 0, a certainty that UXO does not occur on the Site and will not be detonated by engineering activity.		

The likelihood of encountering and detonating UXO during site works is multiplied by the severity of such an event occurring (P x S), in order to provide a risk level using the following matrix.

Severity (S)	Rating
Multiple fatalities	5
Major injury, long term health issues, single fatality.	4
Minor injury, short term health issues, no fatalities.	3
First aid case but no lost time or ill health.	2

Minor injuries, no first aid.	1
No injuries.	0

UXO Risk Matrix							
LIKELIHOOD (P)	SEVERITY (S)						
		5	4	3	2	1	0
	5	25	20	15	10	5	0
	4	20	16	12	8	4	0
	3	15	12	9	6	3	0
	2	10	8	6	4	2	0
	1	5	4	3	2	1	0
	0	0	0	0	0	0	0

7.3 UXO Risk Level

The UXO risk assessment for proposed works on the Site is given in Table 3.

Table 3 UXO risk assessment for the Site

Potential UXO Hazard	Anticipated Works	PE	PD	P = PE x PD	Likelihood	Severity	Risk Rating	UXO Risk
UXB	Shallow Excavations	1	1	1	1	5	5	Low
	Deep Excavations	1	1	1	1	5	5	Low
	Boreholes/Piling	1	1	1	1	4	4	Low
Other UXO	Shallow Excavations	1	1	1	1	4	4	Low
	Deep Excavations	1	1	1	1	4	4	Low
	Boreholes/Piling	1	1	1	1	3	3	Low
PE (Probability of Encounter), PD (Probability of Detonation), P (Overall Probability)								
Shallow Excavations defined as <1.0m below ground level (bgl.)								

8 RISK MITIGATION PLAN

Key findings: No significant sources of UXO hazard have been identified.

Key actions: Proceed with works.

8.1 UXO Risk Summary

Table 4 summarises the UXO risk for proposed works on the Site and recommended actions.

Table 4 Summary of UXO risk and mitigation recommendations

Proposed Works	UXO Risk	Recommended Mitigation
Excavations		Proceed with works – if additional comfort is required to address the residual UXO hazard, a formal UXO awareness briefing can be provided.
Boreholes/Piling		Proceed with works

In summary, no additional measures are considered essential to reduce the UXO risk on the Site to As Low As is Reasonably Practicable (ALARP).

8.2 Risk Mitigation Techniques

Should you wish to provide staff involved in excavations with increased awareness regarding the potential (albeit low) for UXO encounter, this can be done through a formal briefing.

8.2.1 UXO Awareness Briefing

Typically ~1hour in duration, these briefings will be expected to provide site workers with:-

- Background to the potential UXO hazards that could be encountered.
- Awareness of how the UXO hazard could present a risk.
- Knowledge of what to do in the event that a suspect item is encountered.

The briefing is to be provided along with back-up materials such as UXO awareness posters, emergency contact numbers and other background information to assist site workers in becoming familiar with what potential UXO can look like.

The materials can also be used by key staff to pass on the relevant points of the induction to others who visit or work on the Site.

By providing the UXO awareness briefing, it ensures that in the unlikely event that UXO is encountered:-

- All site staff take appropriate action.
- A support mechanism and points of contact are established.
- The likelihood of harm to people or property is reduced.
- Significant delays to site work are prevented.

8.3 What Do I Do Next?

If you have any comments or require further assistance, contact us via phone (01993 886682) or email (uxo@zetica.com) and we can help.

If you have requirements to identify other buried hazards (such as mapping utilities or obstructions) we can provide these surveys.

If proposed works on the Site change, or additional works are planned, contact Zetica for a re-assessment of the UXO risk and the risk mitigation requirements.

APPENDICES

Appendix 1 Anticipated Ordnance Types

The probability of encountering UXO on the Site is considered to be low. As with any similar site in the UK, there is always a background risk of finding ordnance and potential types to be encountered are detailed below. For a more comprehensive set of ordnance data sheets, see <http://zeticauxo.com/downloads-and-resources/ordnance-data-sheets/>.

Information Data Sheet

Category Bomb (Luftwaffe)

Type Sprengbombe-Cylindrisch (SC) 50kg

Variants 8

Body Dimensions 762 x 200mm (30" x 7.9")

Weight 55kg (122lbs)

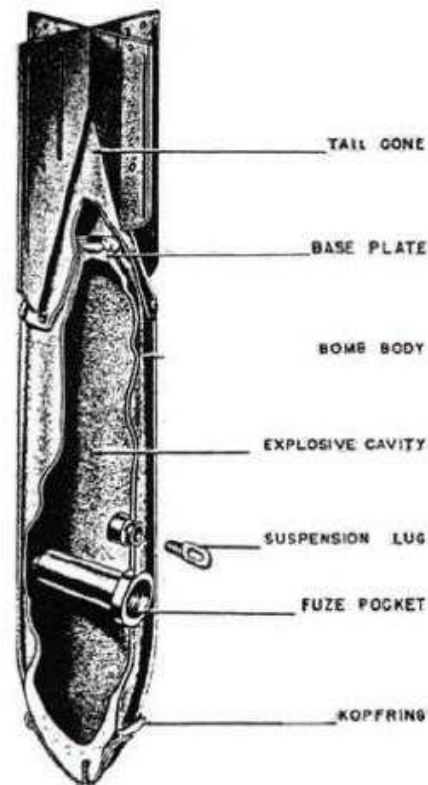
Charge Weight 25kg (54lbs)

Fuze Single electric impact fuze. Some have short time delay

Composition Sheet steel

Description Thick nose welded to a steel body. Nose may be attached to Kopfring (a triangular section steel ring) or spike. Suspension bolt in eye/body and sheet metal tail attached to body with rivets/screws. Originally painted green-grey with a yellow stripe on the tail. Cast TNT, Amatol or Trialen filling.

Function Designed to maximise shock waves through air, water and earth and for general demolition. Used against easily damageable targets, including roads, aircraft hangars, rolling stock and small buildings. Spike bombs/ 'Stabo' (SC 50 with spikes attached to nose) were used against rail lines and country roads, with Kopfring used against naval targets.



Information Data Sheet

Category Bomb

Type Sprengbombe-Cylindrisch (SC) 250kg

Variants 8

Body Dimensions 1194mm x 368mm (47" x 14.5")

Weight 249-264 kg (548-582lbs)

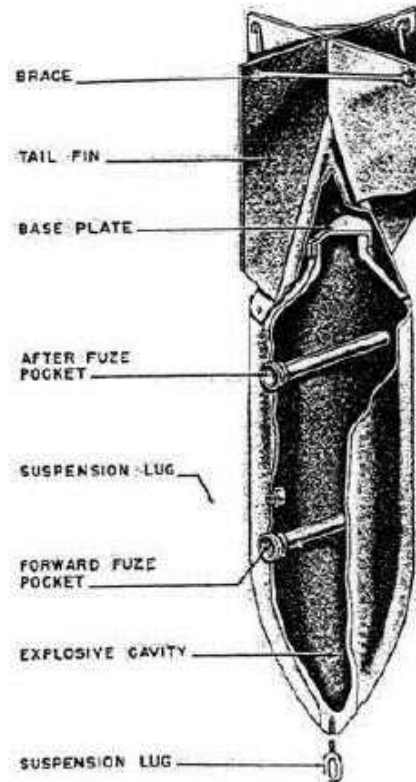
Charge Weight 130-145 kg (287-320lbs)

Fuze Electric impact fuze/electric clockwork time fuse & electric anti-disturbance fuze

Composition Sheet steel with stays

Description Thick nose welded to steel body. Nose may be attached to Kopfring (triangular section steel ring) or spike. Sheet metal tail attached to body with rivets/ screws. Suspension eye bolt in the nose/body. Originally painted green-grey with a yellow stripe on the tail. TNT; amatol; TNT and aluminium powder, naphthalene, ammonium nitrate and wax/ wood meal filling.

Function Designed to maximise shock waves through air, water and earth and general demolition. Used against railway installations, large buildings, ammunition depots and below-ground installations (to 8m). Spike bombs/ 'Stabo' (SC 50 with spikes attached to nose) used against rail lines and country roads.



Information Data Sheet

Category Bomb

Type Sprengbombe-Cylindrisch (SC) 500kg

Variants -

Body Dimensions 1414-1486mm x 470mm (55.7-58.5" x 18.5")

Weight 500kg (1,100lbs)

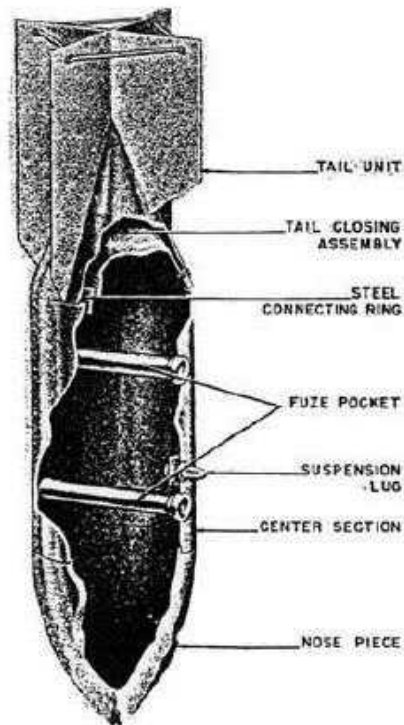
Charge Weight 220kg (484lbs)

Fuze Electric impact fuze/electric clockwork time fuze & electric anti-disturbance fuze.

Composition Sheet steel with stays or drum

Description Thick nose welded to steel body. Nose may be attached to Kopfring (triangular section steel ring). Tail either steel sheet or drum-shaped. Suspension band. Originally painted green-grey/ buff (some later versions sky blue) with yellow stripe on tail. Filled with amatol, TNT or trialen.

Function Designed to maximise shock waves through air, water and earth and for general demolition. Used against railway property, large buildings, shipping and below-ground installations.



Information Data Sheet

Category Bomb

Type Sprengbombe-Cylindrisch (SC) 1,000kg (HERMANN)

Variants 3

Body Dimensions 1742-1905mm x 648-660mm (68.6-75" x 25.5-26")

Weight 1,000-1,088kg (2,204-2,398lbs)

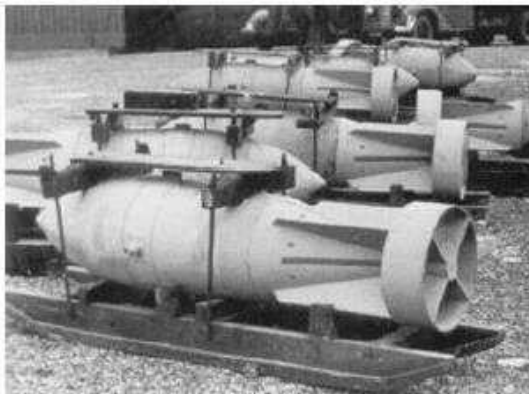
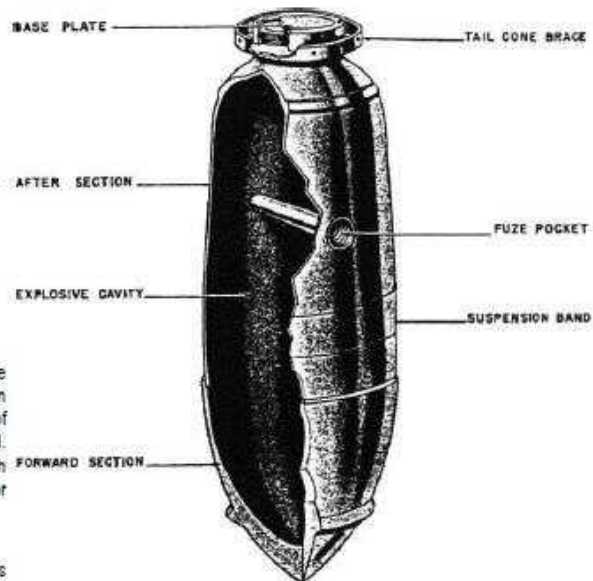
Charge Weight 529-619kg (1,166-1,364lbs)

Fuze Electric impact fuze/ electric clockwork time fuze & electric anti-disturbance fuze

Composition Magnesium alloy with drum

Description Thick nose welded to steel body. Nose attached to Kopfring (triangular section steel ring). Drum-shaped tail made of magnesium alloy. Suspension band. Originally painted sky-blue. Filled with amatol, TNT/aluminium/wood meal or trialen.

Function Designed to maximise shock waves through air, water and earth and for general demolition.



Information Data Sheet

Category Projectile
Type 3.7" Anti-Aircraft Shell

Variants 6

Body Dimensions 94mm x 360mm (3.7 x 14.7")

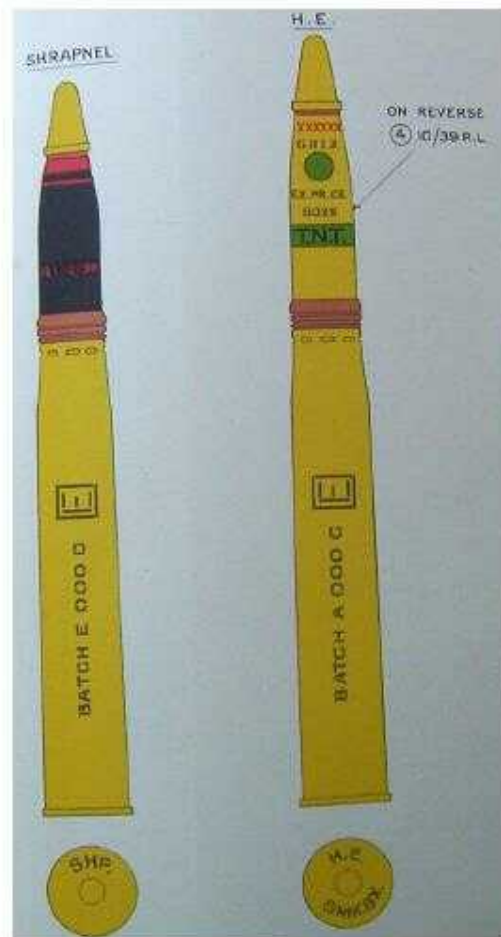
Weight 12.7kg (28lb)

Fuze Mechanical time fuze

Composition Cast steel

Description Brass cartridge case. Square-based shell with tapered nose, filled with Amatol, TNT or RDX/TNT. MK6 had forward centring bands and a wider driving band.

Function Used as a defence against enemy aircraft, fired from fixed batteries and mobile mountings. Could fire approximately 20 rounds per minute with a maximum ceiling of 41,000ft and horizontal range of 20,600 yards.



Information Data Sheet

Category Projectile
Type 4.5" Shell (Mark II – Anti-Aircraft)

Variants -

Body Dimensions 114mm x 566mm (4.5" x 21.9")

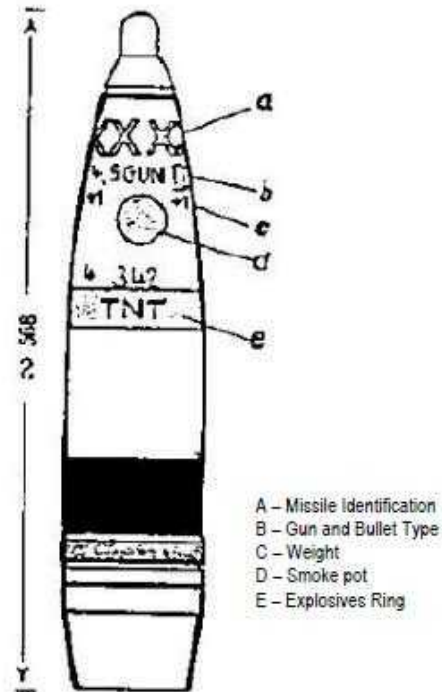
Weight 24.9kg (55lb)

Fuze Mechanical time fuze

Composition Cast steel

Description Square-based, tapered-nosed shell filled with TNT or Amatol. Steel casing, rotating band of either copper or gilding metal located 3.5" in front of the base end with single groove.

Function Used as field artillery and adapted for use in anti-aircraft defence from fixed batteries. Rate of fire of 8 rounds per minute, maximum ceiling of 44,000ft and horizontal range of 22,800 yards.



Appendix 2 Sources of UXO Hazard

The sections below provide background information on the potential sources of UXO hazard (albeit low) affecting the Site. For a more comprehensive set of UXO information sheets, see <http://zeticauxo.com/downloads-and-resources/uxo-information-sheets/>.

Appendix 2.1 WWI Bombing

It is not generally realised that during World War One (WWI) significant bombing took place across some areas of the UK. An estimated 9,000No. German bombs were dropped on Britain during the course of 51No. airship and 52No. aircraft raids. It was the first time that strategic aerial bombardment had been used. More than 1,400No. people were killed during these raids.

Most air raids were carried out on London and Southeast England. Areas along the East Coast were also targeted regularly due to their proximity to the European continent. Bombing raids further inland were rare and West England and Wales were out of reach for German aircraft of the time.

Aerial bombing during WWI initially relied on visual aiming, with bombsights not developed until later in the war. The inaccuracy inherent in this method meant that bombs often fell some way from their intended targets.

The first recorded raid against England occurred on the 21st December 1914 when 2No. high explosive bombs fell near the Admiralty Pier at Dover. Zeppelin raids intensified during 1915 and 1916, with aircraft raids becoming more frequent after 1917. The last raid of WWI took place on the 19th May 1918, when 38 Gotha and 3 Giant aircraft bombed London and surrounding districts, dropping a total of more than 2,500lbs of bombs.



The potential of coming across an Unexploded Bomb (UXB) from WWI is far less likely than a WWII UXB given the lower bombing densities during raids in the Great War.

Some areas which were subjected to sustained bombing raids, such as parts of London and coastal towns, recorded a higher number of UXB. In these areas, where there has been no significant development for the last century, the potential of a UXB remaining from WWI cannot be totally discounted.

Appendix 2.2 WWII Bombing

Bombing raids began in the summer of 1940 and continued until the end of WWII. Bombing densities generally increased towards major cities or strategic targets such as docks, harbours, industrial premises, power stations and airfields. In addition to London, industrial cities and ports, including Birmingham, Coventry, Southampton, Liverpool, Hull and Glasgow, were heavily targeted, as well as seaside towns such as Eastbourne and cathedral cities such as Canterbury.

The German bombing campaign saw the extensive use of both High Explosive (HE) bombs and Incendiary Bombs (IBs). The most common HE bombs were the 50kg and 250kg bombs, although 500kg were also used to a lesser extent. More rarely 1,000kg, 1,400kg and 1,800kg bombs were dropped.

The HE bombs tended to contain about half of their weight in explosives and were fitted with one or sometimes two fuzes. Not all HE bombs were intended to explode on impact. Some contained timing mechanisms where detonation could occur more than 70 hours after impact.

Incendiary devices ranged from small 1kg thermite filled, magnesium bodied Incendiary Bombs (IBs) to a 250kg 'Oil Bomb' (OB) and a 500kg 'C300' IB. In some cases the IBs were fitted with a bursting charge. This exploded after the bomb had been alight for a few minutes causing burning debris to be scattered over a greater area. The C300 bombs were similar in appearance to 500kg HE bombs, although their design was sufficiently different to warrant a specially trained unit of the Royal Engineers to deal with their disposal.



Anti-Personnel (AP) bombs and Parachute Mines (PMs) were also deployed. 2No. types of anti-personnel bombs were in common use, the 2kg and the 12kg bomb. The 2kg bomb could inflict injury across an area up to 150m away from the impact. PMs (which were up to 4m in length) could be detonated either magnetically or by noise/vibration.

Anti-shipping parachute mines were commonly dropped over navigable rivers, dockland areas and coastlines. The Royal Navy was responsible for ensuring that the bombs were made safe. Removal and disposal was still the responsibility of the Bomb Disposal Unit of the Royal Engineers.

In 1944, the Germans introduced new weapons; the V1, a 'flying bomb' and guided missile, and the V2, a ballistic missile rocket that travelled at such speed that no one could see or hear its approach. London was the main target for these attacks.

WWII bomb targeting was inaccurate, especially in the first year of the war. A typical bomb load of 50kg HE bombs mixed with IBs which was aimed at a specific location might not just miss the intended target but fall some considerable distance away.



It is understood that the local Civil Defence authorities in urban areas had a comprehensive system for reporting bomb incidents and dealing with any Unexploded Bombs (UXB) or other UXO. In more rural areas, fewer bombing raids occurred. It is known that Air Raid Precaution (ARP) records under-represent the number and frequency of bombs falling in rural and coastal areas. Bombs were either released over targets or as part of 'tip and run' raids where bomber crews would drop their bombs to avoid anti-aircraft fire or Allied fighter aircraft on the route to and from other strategic targets. Bombs dropped as a result of poor targeting or 'tip and run' raids on rural and coastal areas often went unrecorded or entered as 'fell in open country' or 'fell in the sea'. The Luftwaffe are thought to have dropped approximately 75,000 tons of bombs on Britain throughout the Second World War and an estimated 11% of all bombs dropped during the war failed to detonate.

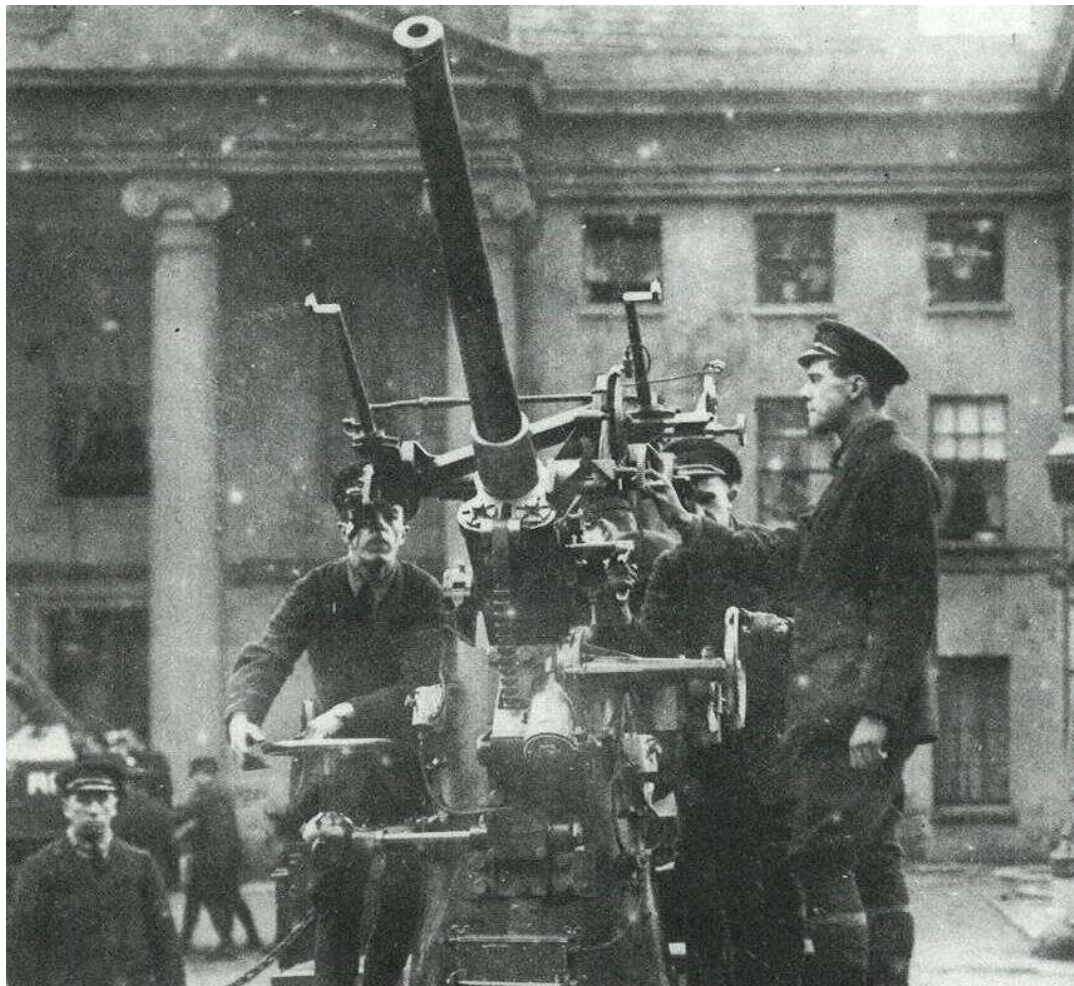
The potential for a UXB hazard to exist on a site depends on a variety of factors. Were there strategic targets in the surrounding area? Was the site bombed? Could a UXB impact have been missed? Even in rural areas, the potential for UXB cannot be totally discounted and therefore it is essential that detailed local bombing records are obtained when assessing the UXB hazard on any site.

Appendix 2.3 Anti-Aircraft Guns

As aerial bombardment first began during WWI, Anti-Aircraft (AA) gun batteries were established and gradually established throughout much of England to counter German bombing raids. By June 1916, there were approximately 271 No. AA guns and 258 No. searchlight installations defending London alone.

Common AA defences during WWI included 3-inch, 75 millimetre, 6-pounder and 1-pounder guns. Many of these guns were mobile, being mounted on lorry chassis. They were driven about following the course of an airship and fired from any area of open land.

During WWI, Unexploded AA (UXAA) shells, could land up to 13km from the firing point, although more typically fell within 10km.



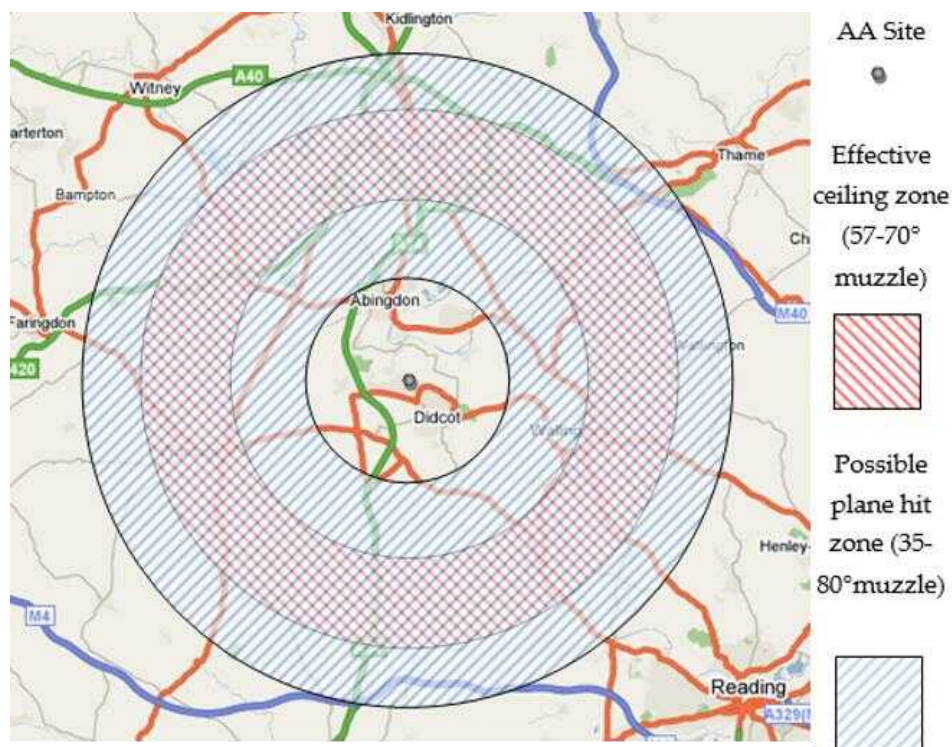
AA gun batteries were used extensively during WWII to counter the threat posed by enemy aircraft. In many instances, AA shells caused damage to Allied territory and in some areas caused significant numbers of civilian fatalities.

During WWII, AA shells could land up to 27km from the firing point, although more typically fell within 15km. These could be distributed over a wide area.

3No. types of AA batteries existed:

- **Heavy Anti-Aircraft (HAA)** batteries of large guns (typically 3.7", 4.5" and 5.25" calibre) designed to engage high flying bomber aircraft. These tended to be relatively permanent gun emplacements.
- **Light Anti-Aircraft (LAA)** weaponry, designed to counter low flying aircraft. These were often mobile and were moved periodically to new locations around strategic targets such as airfields. They typically fired 40mm shells and machine gun ammunition.
- **Rocket batteries (ZAA)** firing 3" or 3.7" AA rockets with a maximum altitude of 5,800m and a ground range of 9km were typically permanent emplacements.

Unexploded AA (UXAA) shells were a common occurrence during WWII. As the figure below demonstrates, shells were unlikely to fall in the immediate vicinity of a gun battery but in the surrounding area. This would be dependent upon the angle of fire and the flight height of the attacking aircraft.



AA batteries were deliberately targeted by the Luftwaffe and therefore areas surrounding a gun battery may have a greater risk of UXB being present.

Munitions stores were also established around AA batteries. These stored the shells for the batteries and small arms ammunition for troops manning the position. Such stores were typically removed at the end of WWII, although some disposal may have occurred in the immediate vicinity of the gun battery.

Appendix 3 Recent UXO Finds

UXO finds in the UK are a regular occurrence, although they almost never result in an accidental detonation.

It is still important to note that explosives rarely lose effectiveness with age. In some instances, mechanisms such as fuzes and gaines can become more sensitive and more prone to detonation, regardless of whether the device has been submersed in water or embedded in silt, clay or similar materials.

The effects of an accidental UXO detonation are usually extremely fast, often catastrophic and invariably traumatic to any personnel involved. Such occurrences are largely restricted to current theatres of war and overseas minefields, with occasional events in mainland Europe.

The sections below provide a brief summary of recent significant UXO finds in the UK. To keep up to date with the latest UXO finds, visit <http://zeticauxo.com/news/>.

On the 11th February 2018, 1No. 500kg UXB was found in King George V Dock in London, resulting in the temporary closure of the adjacent London City Airport. The UXB was freed from a silt bed and towed along the River Thames to Shoeburyness where it was destroyed in a controlled explosion.

On the 20th May 2018, a 1,000kg German sea mine washed ashore at Elmer beach near Bognor Regis, West Sussex. A 1 mile exclusion zone was enforced before an EOD team towed the device out to sea for a controlled explosion.

On the 10th July 2018, a suspected 1,000kg German UXB was found by scuba divers near Teignmouth Pier in Devon. The UXB was towed out into open sea by a RN EOD team for a controlled explosion.

On the 30th August 2018, a 2,000lb German PM was trawled up by a fishing vessel off Mersea in Essex. The PM was moved to an area of open sea where it was destroyed in a controlled explosion by a RN EOD team.

On the 21st January 2019 a suspected 1,000lb torpedo was brought into Brixham Harbour by a fishing trawler. It was towed back out to sea and destroyed by a Naval EOD team.

On the 14th March 2019 an unexploded pipe mine was found at the former RAF Manston airfield near Ramsgate, Kent. It was destroyed in a controlled explosion.

On the 23rd May 2019 a 250kg German UXB was found by workers on a building site at Kingston University in London. The UXB could not be safely removed and was consequently destroyed in situ by an EOD team.

On the 7th June 2019 a 50kg German fragmentation UXB was found at a building site in Kings Hill at the former RAF West Malling airfield. It was destroyed in a controlled explosion by an EOD team the following day. On the 26th September 2019 another 50kg German UXB was found at Kings Hill and was destroyed in a controlled explosion the next day.

On the 20th September 2019 a suspected 250kg German UXB was found on a construction site in Bordon, Hampshire. It was destroyed in a controlled explosion by an EOD team.

On the 3rd February 2020, a 500kg German UXB was found on a building site in Soho, London. It was removed by an EOD team.

On the 22nd and 23rd February 2020, storms uncovered 16No. items of UXO on beaches near Southend-on-Sea in Essex, prompting a race to locate, identify and dispose of each item before they were lost to incoming tides. They were destroyed in-situ by a Royal Navy EOD team.

On the 5th March 2020, several items of historic unexploded ordnance was uncovered at Sandwich Bay in Kent and investigated by a Royal Logistics Corps EOD team. A similar event occurred in the same area in 2016.

On the 18th April 2020, a 500lb British UXB was discovered by a farmer near Drayton in Oxfordshire. The area had been used as an RAF practice bombing range during WWII and after an in-situ disposal was completed the item was found to have contained no explosives.

On the 4th May 2020, a UXB was discovered by builders at Kings Hill on the former RAF West Malling airfield, the fourth found since 2017. It was destroyed in a controlled explosion.

On the 21st July 2020, more than 100No. items of UXO were washed ashore at Eskmeals beach in Cumbria. An army EOD team attended the site and confirmed they had come from the nearby MoD Eskmeals Range. Whilst many items were found to be inert, those which contained explosives were destroyed in-situ.

On the 19th September 2020, 2No. anti-submarine torpedoes were uncovered on Sand Bay near Weston-super-Mare, Somerset. Both items were confirmed to be 'test' devices and destroyed in-situ by a Royal Navy EOD team.

On the 1st December 2020, a research vessel discovered an unexploded marine mine containing 350kg of explosives in Wemyss Bay in the Firth of Clyde. RN divers investigated the item and destroyed it.

On the 25th December 2020, a UXB was found on Eastney Beach, Hampshire. An army EOD team closed the beach and carried out a controlled explosion of the item.

On the 26th February 2021, a 1,000kg German "Hermann" UXB was discovered by builders at Exeter University campus (see plate below). It was investigated and detonated in-situ following the evacuation of nearby properties and University halls of residence.



Appendix 4 Glossary and Definitions

Abandoned Explosive Ordnance (AXO)	Abandoned Explosive Ordnance is explosive ordnance that has not been used during an armed conflict, that has been left behind or disposed of by a party to an armed conflict, and which is no longer under control of that party. Abandoned explosive ordnance may or may not have been primed, fuzed, armed or otherwise prepared for use.
Close Combat Munitions	Items of ordnance thrown, propelled or placed during land warfare, to include grenades, mortars, projectiles, rockets and land mines.
Demil	Derived from the term 'Demilitarisation', it refers to the break down and the recycling or disposal of ordnance components.
Detonation	The high-speed chemical breakdown of an energetic material producing heat, pressure, flame and a shock wave.
Device	This term is used for any component, sub-assembly or completed ordnance, which may or may not have an explosive risk. It can apply to detonators, primers, gaines, fuzes, shells or bombs.
Explosive	The term explosive refers to compounds forming energetic materials that under certain conditions chemically react, rapidly producing gas, heat and pressure. Obviously, these are extremely dangerous and should only be handled by qualified professionals.
Explosive Ordnance (EO)	Explosive Ordnance is all munitions containing explosives, nuclear fission or fusion materials and biological and chemical agents. This includes bombs and warheads, guided and ballistic missiles, artillery, mortar, rocket, small arms ammunition, mines, torpedoes, depth charges, pyrotechnics, cluster bombs & dispensers, cartridge & propellant actuated devices, electro-explosive devices, clandestine & improvised explosive devices, and all similar or related items or components explosive in nature.
Explosive Ordnance Clearance (EOC)	Explosive Ordnance Clearance is a term used to describe the operation of ordnance detection, investigation, identification and removal, with EOD being a separate operation.
Explosive Ordnance Disposal (EOD)	Explosive Ordnance Disposal is the detection, identification, on-site evaluation, rendering safe, recovery and final disposal of unexploded explosive ordnance.
Explosive Ordnance Reconnaissance (EOR)	Explosive Ordnance Reconnaissance is the detection, identification and on-site evaluation of unexploded explosive ordnance before Explosive Ordnance Disposal.
Explosive Remnants of War (ERW)	Explosive Remnants of War are Unexploded Ordnance (UXO) and Abandoned Explosive Ordnance (AXO), excluding landmines.

Explosive Substances and Articles (ESA)	Explosive substances are solid or liquid substances (or a mixture of substances), which are either: • capable by chemical reaction in itself of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. • designed to produce an effect by heat, light, sound, gas or smoke, or a combination of these as a result of a non-detonative, self-sustaining, exothermic reaction. Explosive article is an article containing one or more explosive substances.
Fuze	A fuze is the part of an explosive device that initiates the main explosive charge to function. In common usage, the word fuze is used indiscriminately, but when being specific (and in particular in a military context), fuze is used to mean a more complicated device, such as a device within military ordnance.
Gaine	Small explosive charge that is sometimes placed between the detonator and the main charge to ensure ignition.
Geophysical survey	A geophysical survey is essentially a range of methods that can be used to detect objects or identify ground conditions without the need for intrusive methods (such as excavation or drilling). This is particularly suited to ordnance as disturbance of ordnance items is to be avoided where ever possible.
Gold line	This is the estimated limit of blast damage from an explosive storage magazine. It usually means that development within this zone is restricted.
High Explosive	Secondary explosives (commonly known as High Explosives (HE)) make up the main charge or filling of an ordnance device. They are usually less sensitive than primary explosives. Examples of secondary explosives are: Nitro glycerine (NG), Trinitrotoluene (TNT), AMATOL (Ammonia nitrate + TNT), Gunpowder (GP), and Cyclotrimethylenetrinitramine (RDX).
Munition	Munition is the complete device charged with explosives, propellants, pyrotechnics, initiating composition, or nuclear, biological or chemical material for use in military operations, including demolitions. This includes those munitions that have been suitably modified for use in training, ceremonial or non-operational purposes. These fall into three distinct categories:- • inert - contain no explosives whatsoever. • live - contain explosives and have not been fired. • blind - have fired but failed to function as intended.

Primary Explosive	Primary explosives are usually extremely sensitive to friction, heat, and pressure. These are used to initiate less sensitive explosives. Examples of primary explosives are: Lead Azide, Lead Styphnate, and Mercury Fulminate. Primary explosive are commonly found in detonators.
Propellants	Propellants provide ordnance with the ability to travel in a controlled manner and deliver the ordnance to a predetermined target. Propellants burn rapidly producing gas, pressure and flame. Although usually in solid form they can be produced in liquid form. Examples of propellants are: Ballistite often found in a flake form and Cordite used in small arms ammunition.
Pyrotechnic	A pyrotechnic is an explosive article or substance designed to produce an effect by heat, light, sound, gas or smoke, or a combination of any of these, as a result of non-detonative, self-sustaining, exothermic chemical reactions.
Small Arms Ammunition (SAA)	SAA includes projectiles around 12mm or less in calibre and no longer than approximately 100mm. They are fired from a variety of weapons, including rifles, pistols, shotguns and machine guns.
Unexploded Anti-Aircraft (UXAA) Shell	UXAA shells are army ordnance commonly containing HE, though they can also contain pyrotechnic compounds that produce smoke. Most commonly, these were 3.7" and 4.5" HE shells, although they ranged from 2" to 5.25" calibre.
Unexploded Bomb (UXB)	UXB is a common term for unexploded air-dropped munitions.
Unexploded Ordnance (UXO)	UXO is explosive ordnance that has been either primed, fuzed, armed or prepared for use and has been subsequently fired, dropped, launched, projected or placed in such a manner as to present a hazard to operations, persons or objects and remains unexploded either by malfunction or design.
V1	The Vergeltungswaffe-1, V-1, also designated Fieseler Fi 103/FZG-76, known colloquially in English as the Flying Bomb, Buzz Bomb or Doodlebug, was the first guided missile used in WWII and the forerunner of today's cruise missile.
V2	The Vergeltungswaffe 2 (V-2) ('Reprisal Weapon 2') was the first ballistic missile. It was used by the German Army primarily against Belgian and British targets during the later stages of WWII. The V-2 was the first man-made object launched into space, during test flights that reached an altitude of 189km (117 miles) in 1944.

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