



# Homes & Communities Agency

## Plot 2, Newton Heath, Manchester

### Geo-Environmental Desk Study and Ground Investigation Report

## January 2014


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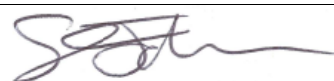
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### 1.0 EXECUTIVE SUMMARY

Site Status	The site comprises an area of land owned by the HCA in the north-eastern part of Plot 2, Weir Pumps in the Newton Heath area of Manchester, and comprises a vacant development plot of approximately 2.1 ha. The site is surrounded by mainly commercial/industrial properties or derelict plots with a bakery and railway to the south and residential properties to the east.
Desk Study	<p>The following environmental setting of the site was established based on the desk study information:</p> <ul style="list-style-type: none"> <li>Environmental Processes – Former landfill ~ 160m northeast.</li> <li>History - The site was formerly occupied by ponds/clay pits followed by development as an engineering works including tanks and a sub-station. The site has remained derelict since about 2007, but excavated soils and imported capping materials were deposited on the site in conjunction with the development of the bakery immediately south of the site sometime between 2009 and 2011.</li> <li>Geology – Made Ground over Glacial Till with Sherwood Sandstone at depth.</li> <li>Hydrogeology - The bedrock is classified as a Principal Aquifer overlain by Unproductive Strata (Glacial Till). The site is not located in a Groundwater Source Protection Zone (SPZ).</li> <li>Hydrology - The nearest surface water feature is the Rochdale Canal, located approximately 200m to the northwest of the site.</li> </ul>
Peer Review & Gap Analysis	<p>Previous reports provided by HCA were reviewed in relation to the HCA owned land. These comprised three previous ground investigation phases undertaken by Parkman Environment on the former Weir Pumps site in 2003, 2004 and 2006. These reports also reviewed previous investigations undertaken in 1962, 1993, 1995, 1999 and 2002. In addition, a letter report by SGE dated 2009 and a retrospective Materials Management Plan, dated 2011 were reviewed. Pertinent findings were:</p> <ul style="list-style-type: none"> <li>Previous investigations reviewed in the 2003 report identified potential hydrocarbon contamination at the site.</li> <li>Investigations by Parkman in 2002/2003 identified potentially elevated metals (plant risk), hydrocarbons and PCBs (7 congeners).</li> <li>Gas monitoring was indicated to be Characteristic Situation (CS) 1 as defined by CIRIA C149, updated to CS2 in 2006 due to limited monitoring data.</li> <li>A Quantitative Risk Assessment for groundwater was undertaken. The results indicated no significant risk to controlled waters.</li> <li>Suggested remedial options were the provision of hardstanding across the site, or redevelopment for commercial/industrial purposes with business units and landscaping.</li> <li>Soil (Made Ground) was excavated as part of the bakery development immediately to the south and deposited to create a plateau across the site, which was covered by a capping of imported shale.</li> </ul> <p>Gaps in the previous information were identified as:</p> <ul style="list-style-type: none"> <li>Assessment of previous chemical data was undertaken using screening values not adhering to current best practice/guidance; however, re-assessment of the data is unlikely to alter those exceedances highlighted.</li> <li>Chemical analysis and screening was not undertaken for hexavalent chromium, fully speciated PAHs and speciated TPH CWG.</li> <li>The reports associated with the previous SGE investigation have not been provided for review. It is presumed that these works were associated with the re-use and movement of soils in Plot 2.</li> <li>Only 2 no. monitoring wells are present from previous investigations. Further ground gas monitoring data is likely to be required to refine the ground gas regime.</li> <li>PCB testing to date has been based on the 7 non-dioxin-like congeners rather than the dioxin-like congeners which may pose a greater risk to human health.</li> <li>Assessment of the site following creation of the plateau has not been undertaken in relation to the potential risk to future site users on site or in relation to soil contamination and ground gases.</li> <li>Soil re-used at the site was only validated in terms of risk to human health off site, and not in respect of risk to controlled waters, specifically the soil originally separated for windrow treatment which was associated with a former infilled reservoir.</li> </ul> <p>Based on the desk study information and the review of the previous site investigation reports, intrusive investigation was designed to assess the chemical composition of the plateau soils in relation to the proposed commercial end-use with analysis for PCBs and hexavalent chromium, further installation of</p>

# Geo-Environmental Desk Study & Ground Investigation Report

## Plot 2, Newton Heath



	monitoring wells and ground gas monitoring and trial pit/trenching associated with in-ground obstruction delineation, with subsequent reassessment for land contamination and geotechnical issues.
Preliminary Risk Assessment	Based on the desk study and previous reports reviewed, the site was considered to pose a moderate risk in relation to land contamination. A site investigation was designed to address potential gaps or refine the risks identified.
WYG Ground Investigation	<p>WYG undertook a site investigation of the HCA owned land of Plot 2 on 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> August 2013, followed by 6 gas monitoring visits. The investigation comprised:</p> <ul style="list-style-type: none"> <li>• 1 No. hand dug pit (WS202) to 0.9m bgl, terminated prior to window sampling due to an obstruction.</li> <li>• 5 No. window sample holes (WS201, WS201A, WS202A, WS203 &amp; WS204) to depths between 3m and 5mbgl.</li> <li>• 9 No. machine excavated trial pits/trenches (TP200, TP201, TP202, TP203, TP203A, TP204, TT200, TT201 &amp; TT202) to depths between 0.6m and 4.6m bgl.</li> <li>• Full-time supervision by a WYG consultant, to record the ground conditions and obtain soil samples.</li> <li>• In-situ Standard Penetration Tests (SPTs).</li> <li>• Installation of monitoring wells in WS201A, WS202A, WS203 &amp; WS204.</li> <li>• Chemical and Geotechnical laboratory testing.</li> <li>• 6 No. visits to site to monitor for ground gas and groundwater levels (27/08/13 to 26/09/13).</li> </ul>
Ground Conditions	<p>Ground conditions encountered generally comprise a cover of gravel (0.05-0.5m thick) underlain by cohesive Made Ground with gravel and cobbles of brick, clinker, concrete, coal, mudstone, ash, wood and occasional wood, ceramic, plastic, glass, reinforcement bar and rubber in some locations. Where absent, in two locations, granular Made Ground was encountered and this stratum was also encountered beneath the cohesive Made Ground in two other locations. The Made Ground was underlain by a natural deposit of firm and stiff gravelly sandy Clay (Glacial Till), encountered from 1.3m to 4.5m bgl.</p> <p>Groundwater was observed during the main site investigation at varying depths from near surface in some locations and subsequent monitoring indicated shallow groundwater in the Made Ground between 0.3 and 3.3m bgl.</p> <p>Significant visual and olfactory observations of potential hydrocarbon contamination were noted in two exploratory locations; however, elevated VOCs using a PID were not noted during the works.</p> <p>Significant in-ground obstructions were encountered from shallow to 4m depth comprising cobbles and boulders but also sandstone flags, concrete slabs, brick walls and metal.</p>
Laboratory Testing and Land Gas Monitoring Results	<p>A total of 10 no. soil samples were submitted for chemical analysis for a general suite of potential contaminants including hexavalent chromium with 8 no. subject to asbestos screening, 6 no. for speciated TPH CWG, 6 no. for PCB (WHO 12 congeners) and 2 no. for FOC analysis (limited analysis due to the presence of asbestos).</p> <p>Laboratory analysis, when compared to published Tier 1 screening values for a commercial end-use did not identified significantly elevated concentrations. Based on professional judgement, elevated EPH (C8-C40) concentrations were present (max. 4175mg/kg) and asbestos (chrysotile and amosite) was identified in the majority of Made Ground samples analysed. Concentrations of PCBs were not reported above the detection limit (&lt;60ug/kg sum 12).</p> <p>Ground gas monitoring did not report elevated methane or carbon dioxide concentrations but some elevated VOCs (max. 18ppm); however, no significant flow was recorded. Based on CIRIA C665, the Characteristic Situation (CS) was derived as CS1.</p>
Tier 1 Contaminated Land Risk Assessment	Overall, the site poses a low to moderate risk. The higher risks relate to future human health associated with potential heavy end hydrocarbons and asbestos. The risk to construction workers, controlled waters and flora and fauna is considered to be low.
Geotechnical Assessment	<p>The potential instability of the near surface Made Ground may require the use of shoring during the excavations of trenches and the like.</p> <p>Groundwater has been encountered at shallow depth and groundwater control measures may be</p>



	<p>required during construction.</p> <p>Locally, the natural firm and stiff clay deposits are present at relatively shallow depth and conventional shallow spread foundations would be feasible for standard low rise structures in such areas. However, more typically, the thickness of Made Ground is such that this type of foundation could not be employed unless the stiffness of the Made Ground is first improved e.g. using vibro stone or concrete columns taken into the underlying natural clay. The alternative to ground improvement (and a likely requirement for taller or heavier structures) will be to provide piled foundations. The Made Ground is considered to be generally too thick to make trench fill foundations a feasible solution.</p> <p>There is a risk that obstructions within the Made Ground may impede the formation of stone/concrete columns, the penetration of piles and the digging of service trenches. Based on the results of the current investigation, most of the significant obstructions may be in the upper 2.5m or thereabouts. It may be necessary, as part of any works preparatory to new development, to turn over the Made Ground within this zone and break out any buried structures encountered, such as foundation walls and slabs (including air raid shelters if proven).</p> <p>In accordance with BRE Special Digest 1:2005 <i>Concrete in aggressive ground</i>, based on chemical analysis of soils, the site is classified as Design Sulphate Class DS1 and ACEC Class AC1.</p> <p>The stability of the site is not considered to be at risk from the historical mining of coal.</p>
Conclusions and Recommendations	<p>Overall, the site poses a <b>low to moderate</b> risk and may require further investigation and/or suitable mitigation to refine the risk posed to a new development, dependant on the proposed end-use, building design and subject to Local Authority Development Control approval. Mitigation comprising hardstanding cover, cover to landscaped area, suitable new pipeline materials and gas protection measures in relation to potential hydrocarbon inhalation would lower the risk given above.</p>
This sheet is intended as a summary of the assessment of the site. It does not provide a definitive analysis.	



## 2.0 INTRODUCTION

### 2.1 Instruction

WYG Environment Planning Transport Limited (WYG) was commissioned by the Homes & Communities Agency (HCA) to undertake a desk study and a preliminary geo-environmental investigation and assessment of a parcel of land owned by HCA within Plot 2, Newton Heath, Manchester (see Figures 1 and 2). The site boundary covered by this report comprises the HCA owned land within the northern part of Plot 2 (edged green on Figure 3). This parcel of land is referred to as the 'site' for the purpose of this report.

The land was formerly part of the Weir Pumps factory complex.

### 2.2 Aims and Objectives

The principal aim of the commissioned work is to provide a preliminary land contamination and geotechnical assessment of the site to support marketing of the land to potential developers.

### 2.3 Proposed Development

It is understood that there are currently no firm development proposals for the site, but that likely developments would be of a commercial nature providing employment opportunities.

### 2.4 Scope of Services

In order to achieve the above stated aims and objectives, the following scope of works was determined:

- Desk top study and site walkover inspection.
- Review of third party reports.
- Preliminary ground investigation.
- Reporting of factual information gathered.
- Interpretation of results, including a Tier 1 human health and controlled waters assessment,



confirmation of a conceptual site model and risk assessment, preliminary geotechnical assessment and identification of potential constraints on developments of the type outlined above, to the extent allowed by the preliminary investigations carried out.

## **2.5 Report Conditions**

Attention is drawn to the report conditions included in Appendix A and our tender ref: A083215/Newton Heath/Tender/HCA Newton Heath Tender July 2013.



### 3.0 SITE DESCRIPTION

Plot 2 is located on the south-west side of Ten Acres Lane, north-west of Briscoe Lane in the Newton Heath area of Manchester. A Site Location Plan and Site Plan are provided as Figure 1 and Figure 2 respectively. The area of interest is the principal part of that portion of the overall plot that lies to the northeast of the existing bakery comprising land owned by the HCA.

A site visit was undertaken on 1<sup>st</sup> July 2013. A summary of the findings based on the walkover inspection and OS mapping is provided in Table 3.1 below.

**Table 3.1 – Summary of Site Details**

<b>Site Address</b>	Ten Acres Lane, Newton Heath, Manchester, M40 2SQ.
<b>Grid Reference</b>	387231, 399834.
<b>Area</b>	2.1 ha (HCA owned land) (9.99 ha. Overall Plot 2),
<b>Site Description</b>	Open Made Ground plateau with shale fragment surface cover
<b>Site Access</b>	Pedestrian and vehicle access off Ten Acres Lane
<b>Topography</b>	The site is elevated approximately 1m to 2m above surrounding ground levels
<b>Surrounding Land Uses</b>	North-west: Vacant land, depot and sports ground.
	South-west: Bakery, warehouse, Grimshaw Lane, vacant land (Plot 1) and railway.
	North-east: Residential and recreation ground.





## 4.0 DESK STUDY

### 4.1 Environmental Setting

Regulatory authority information relevant to the site and its surroundings has been obtained from the following sources:

- Environmental database;
- Government website [www.magic.gov.uk](http://www.magic.gov.uk); and,
- Environment Agency (EA) website, *What's in your Backyard?*

Relevant information is summarised below. A copy of the environmental database is included in Appendix B. Distances stated are approximate and are taken from the nearest boundary of the site to the database recorded entries.

#### 4.1.1 Waste

There are no active BGS recorded landfill sites, active registered landfill sites or local authority recorded landfill sites at the site or within a 250m radius.

An historical registered landfill site is recorded approximately 160m northeast of the site associated with waste infilling circa 1973-1984 of inert, industrial, commercial and household waste on land adjacent to Mitchell Street.

There are 2 no. Licensed Waste Management Facilities within 250m of the site; these are located approximately 200m northwest of the site associated with waste treatment including packaging and recycling drums.

#### 4.1.2 Industrial Processes

There are no contaminated land register entries and notices, enforcement and prohibition notices, active Local Authority Pollution Prevention and Control (LAPPC) authorisations, Local Authority Integrated Pollution Prevention and Control (LAIPPC) or prosecutions relating to authorised processes at the site or within a 250m radius.



There are 3 no. IPPC within a 250m radius of the site, the nearest associated with a foundry approximately 125m north west of the site. The others pertain to another foundry and a soft drinks manufacture.

The environmental database lists 17 no. active Contemporary Trade Directory Entries within 250m of the site. The nearest entry is a tyre dealer, approximately 50m east of the site. Other entries include vehicle repairers, PVC products, garage, barrels/kegs, door manufacturer, meat wholesale, printer, pallet business, soft drinks manufacture, insulation, cleaning and optical manufacturers.

There are no recorded active petrol filling stations within 250m of the site.

#### **4.1.3 Health and Safety**

There are no registered Control of Major Accident Hazard (COMAH) sites, explosive sites, Notifications of Installations Handling Hazardous Substances (NIHHS) sites, planning hazardous substances consents / enforcements or registered radioactive substances permits relating to the site or within a 250m radius of the site.

#### **4.1.4 Environmentally Sensitive Sites**

The environmental database indicates that there are no Special Protection Areas (SPAs) or Sites of Special Scientific Interest (SSSI) within 250m of the site.



## 4.2 SITE HISTORY

Available extracts of historical Ordnance Survey (OS) maps provided by the environmental database were used to research the history of the site (comprising the area of land owned by the HCA within Plot 2) and the surrounding area. The on-site and off-site history and a summary of potentially contaminative uses are detailed below.

Copies of all historical Ordnance Survey maps reviewed are included in Appendix C.

### 4.2.1 On Site

The earliest available map (1848) indicates the site to comprise agricultural land with a lane in the northern part connecting Grimshaw Lane with Ten Acres Lane. By 1893 there is a small pit or pond in the northern part of the site. By 1908 the Park Engineering Works occupies the southern part of the site and the pit or pond has been enlarged. By 1932, the engineering works had expanded again into the site including the construction of a number of tanks and a pump house at the northern end of the site. Further relatively minor development of the works took place after WW2 before it was demolished sometime between 1993 and 2006. Since then the site has remained derelict.

### 4.2.2 Site Surroundings

The earliest available map (1848) indicates the site was surrounded by agricultural land. By 1893, significant urban development has taken place to the north, south and west of the site and the local road network had been improved, with Ten Acres Lane now passing along the northern boundary of the site and Grimshaw Lane to the south of it. During this time, the railway junction was located approximately 200m south of the site and dye works were located approximately 300m to 400m west, with a gas plant works approximately 500m to the west and a brick works approximately 200m north. A brook located approximately 100m south east (flowing west) is also present during this time, but by 1922 it had been covered over by industrial and residential developments. By 1908 a mineral railway and clay pits are present immediately south of the site associated with the development of the Park Engineering Works. One of the pits is annotated as a reservoir on the 1932 map. Between 1908 and 1922 the Engineering Works expanded significantly to the north and south of the site and the pit or pond was filled in.



By 1922 the Avro aeroplane works is located on the south side of Briscoe Lane just to the south east of the site. Circa 1922, residential development had taken place approximately 100m to the east of the site including various sports grounds. Additional sports ground are annotated to the east c. 1949 and the northwest of the site c. 1956; these areas were later developed as housing. By 1949, the Avro works was identified as a warehouse. Since then, the site's surroundings have remained predominantly unaltered except for the demolition of the Park Engineering Works sometime between 1993 and 2006 and the recent addition of a bakery immediately south of the site now occupying part of the overall Plot 2.

#### **4.2.3 Historical Potentially Contaminative Uses**

Based on the site history, the following potentially contaminative uses at and within 250m of the site have been identified:

- On site – In-filled clay pits or ponds. Engineering works including tanks and a pump house.
- North – Various works.
- South– Engineering works, clay pits, railway land.
- South east - aeroplane works, later a warehouse.
- West – Dye works, gas plant.



## 4.3 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

### 4.3.1 Geology

Details of the geology underlying the site have been obtained from the following sources:

- BGS Sheet No. 85 (Manchester) Solid Edition, 1:50,000 scale;
- BGS Sheet No. 85 (Manchester) Drift Edition, 1:63,360 scale;
- The Coal Authority Coal Mining Report; and
- Environmental database search.

#### Made Ground

The geological map does not show Made Ground deposits to be present at the site. However, based on the topography and previous use of the site, it is likely that Made Ground is present.

#### Superficial Geology

The geological map indicates that the site is underlain by Glacial Till.

Referring to Urban Soil and Soil Chemistry data provided by the British Geological Survey (BGS), the environmental database indicates concentrations of a range of metals similar to the surrounding conditions associated with cadmium, cadmium, chromium, lead, with slightly higher concentrations of arsenic, chromium, nickel possibly associated with the Made Ground.

#### Solid Geology

The site is indicated to be underlain by Sherwood Sandstone (Chester Pebble Beds).

The Bradford Fault is present approximately 100m east of the site, aligned northwest to southeast.

#### Radon

The environmental database indicates that the site not in a radon affected area, as less than 1% of





homes are above the Action Level. The environmental database does not recommend that radon protection measures are required in the construction of new dwellings or extensions on any part of the site.

### Mining

The environmental database indicates that the site is located within an area that may be affected by coal mining activity. However, it should be noted that the site is underlain by Sherwood Sandstone with the Coal Measures at depth beneath this.

A Coal Mining Report has been obtained from The Coal Authority for the area which includes the HCA owned land (the site) within Plot 2. A copy of the report is included in Appendix D.

In summary, the coal mining report states that:

- The site is in the likely zone of influence from workings in three seams of coal at 130m to 600m depth, last worked in 1964.
- Any ground movement from these workings should have stopped by now.
- The property is in an area where the Coal Authority believes there is coal at or close to the surface. This coal may have been worked at some time in the past.
- There are no known coal mine entries within, or within 20m of the site boundary.

There are 2 no. former BGS recorded mineral sites located approximately 175m north of the site associated with opencast extraction of the Manchester Marls and also approximately 220m south of the site associated with opencast Glacial Till extraction at Philips Park Brick Works.

### Ground Stability

Table 4.1 indicates the potential ground stability issues associated with the site, according to the environmental database.



**Table 4.1: Ground Stability Hazards**

Ground Stability Hazard	Risk
Collapsible Ground	Very Low
Compressible Ground	No Hazard
Ground Dissolution	No Hazard
Landslide	Very Low
Running Sand	Very Low
Shrinking or Swelling Clay	Very Low

#### 4.4 Hydrogeology

Details of the hydrogeology of the site and its environs have been obtained from the following:

- Environment Agency (EA) website '*What's in your Backyard?*'
- Environmental database.

##### Groundwater Classification

Sources indicate that the site is located on:

- a Principal Aquifer associated with the Chester Pebble Beds (Bedrock) - these are layers of rock that have high inter-granular and/or fracture permeability, meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale.

The Aquifer is overlain by Unproductive Strata (Superficial Glacial Till). These are drift deposits with low permeability that have negligible significance for water supply or river base flow. The impermeable nature of the Glacial Till may offer some protection to the underlying aquifer.

The environmental database indicates these strata are overlain by soils of a potential high leaching. However, soil information in this urban area is based on fewer observations than elsewhere, therefore a worst case scenario is assumed.

The site is not located in an existing nitrate vulnerable zone.



#### Groundwater Abstraction

The site is not located within a Source Protection Zone (SPZ) for a potable groundwater supply.

The environmental database indicates that there is 1 no. current licensed groundwater abstraction within 1km of the site, located approximately 340m west of the site associated with general construction use for Hanson Quarry Products.

### **4.5 Hydrology**

Details of the hydrology of the area within a 250m radius have been obtained from the following sources:

- Environmental database;
- Ordnance Survey 1:25,000 scale map, 109 Manchester; and,
- Environment Agency website, '*What's in your Backyard?*'

#### Watercourses

The nearest surface water feature is the Rochdale Canal, located approximately 200m to the north west of the site. The canal has good current ecological status but does not require chemical quality assessment.

#### Surface Water Abstractions

There are no active surface water abstractions within 250m of the site.

#### Discharge Consents

There are no active consents to discharge to surface waters within 250m of the site.

#### Pollution Incidents

The environmental database indicates that there have been no Pollution Incidents to Controlled Waters within 250m of the site within the last 10 years.





#### Flood Potential

The environmental database indicates that the site is not located within an area considered to be at risk from flooding.



## 5.0 PREVIOUS SITE INVESTIGATIONS

The following reports have been provided by the HCA (Some reports formerly commissioned by English Partnerships and New East Manchester Ltd):

1. Weir Pumps Site, Oldham Road, Manchester Environmental Interpretative Report, Parkman Environment (ref: 1001328/R/3A which superseded revision 1B), August 2003.
2. Weir Pumps Site, Oldham Road, Manchester Environmental Interpretative Report, Parkman Environment (ref: 1001328/R/4A), September 2006 (including a letter in the Appendix, dated February 2005).
3. Additional Assessment of PCB contamination at the Proposed Bakery Development, Weir Pumps, Grimshaw Lane, Newton Heath, Shepherd Gilmour Environment (SGE) (Letter Report ref: R0308 CM (ME983.2), 26<sup>th</sup> August 2009.
4. Materials Management Plan & Verification Report, Weir Pumps Phase II Site, Newton Heath, Manchester, Vertase F.L.I on behalf of SGE (ref: 1214SGE), November 2011 (including a letter from SGE in the Appendix, dated 2011).

The two previous Parkman Environmental Interpretative Reports included Plot 2 (referred to as Area 1, which includes the HCA owned land detailed in this report).

A summary of the reports detailed above is given below.

### 1. Parkman Environment Report August 2003

The report details a geo-environmental ground investigation undertaken in two phases (November 2002 and February/March 2003; the second phase did not include the site in the physical works but did include further monitoring). The report also reviews previous investigations undertaken in 1962, 1993, 1995, 1999 and 2002. Pertinent information is summarised below:

#### Previous Third Party Report Summaries

- The 1962 report notes that earlier clay pits were backfilled with clay or part filled with black



slurry/ash/soil or refuse and capped with clay.

- The 1993 investigation reports concrete air raid shelters within the northeastern part of the site. Hydrocarbon and tar contamination were also noted in this area. The exact locations are not known.
- The 1995 audit noted numerous underground and above ground storage tanks at the site and reported free phase hydrocarbons/heavy phase tar associated with the fire test area associated with land drains and pipework.
- A number of trial pits were undertaken for the 1999 investigation. Contamination identified comprised heavy metals, phenol, PAHs, petroleum hydrocarbons and potential leachable metals; however, the test data were compared with now superseded screening values.
- The 2002 desk study, which included a review of the aforementioned reports, summarises the potential contamination associated with the former plating and bituminous coating plant in Area 1 (which includes the site) and also lists potential contaminants associated with past usage such as diesel oils, phenols and metals.

#### Parkman 2003 Investigation Interpretation

The investigation of Area 1 undertaken in November 2002 comprised 3 no. boreholes with installed monitoring wells and 29 no. trial pits (approximately 2 no. boreholes and 7 no. trial pits were excavated on the site of current interest). Further monitoring was undertaken in 2003 as part of the second phase of investigation. The general findings pertaining to the site are:

- Made Ground was encountered from ground level across the site in either a thin layer or up to approximately 1.4m thick, and up to 3m thick in the northern part where the ground level is higher than the adjacent land. The Made Ground comprised gravelly Sand/sandy Gravel with cobbles/boulders of brick and concrete with gravel of brick, ash, clinker, slag, concrete and some metal, glass and timber. Made Ground of re-worked natural clay with gravel of man-made materials was encountered beneath the granular Made Ground. Natural Glacial Till Clay comprising firm to very stiff sandy gravelly clay with some sand pockets was encountered beneath the Made Ground across the site.



- Groundwater was encountered during the investigation at between 68.2m and 71.7m AOD. Monitored groundwater levels were between 67.4m and 71.3m AOD.
- Gas monitoring indicated the site to be Characteristic Situation (CS) 2 as defined by CIRIA C149 (now superseded by CIRIA C665); the maximum methane concentration was 0.9%, carbon dioxide 3.6% and flow rate 0.7l/h.
- For the whole of Area 1, a total of 17 no. soil samples of granular Made Ground and 22 no. samples of cohesive Made Ground were submitted for chemical testing. Elevated DRO and PCBs were reported (when using professional judgment) in addition to elevated boron, copper and zinc associated with risk to plants (comparison to ICRCL, now withdrawn).
- For the whole of Area 1, a total of 2 no. groundwater samples taken from the boreholes were analysed. Elevated concentrations of cyanide, phenols, DRO, TPH, PAHs and PCBs were reported (when compared to UK DWS and EQS values, now superseded by the Water Framework Directive).
- Leachate testing of 9 no. soil samples from Area 1 identified elevated DRO.
- Surface water samples taken from the Rochdale Canal upstream and downstream of Area 1 identified potentially elevated PAHs, phenol, cyanide, PRO and TPH (when compared to EQS values, now superseded by the Water Framework Directive).

A qualitative risk assessment was undertaken for a potential commercial development. This identified potential contaminative sources as DRO and PCBs associated with risk to human health and copper and zinc as risks to potential landscaping.

Due to a number of exceedances against generic screening values (EQS and UK DWS) for TPH and PAHs in groundwater, a Quantitative Risk Assessment was undertaken for controlled waters (using P20) for Areas 1 to 3 combined. It was concluded that further assessment in relation to TPH may be required (due to limited speciated concentrations) but overall, it was not considered that the site presented a significant risk to controlled waters.

Suggested remedial options in the report were given as the provision of hardstanding across the site, or redevelopment for commercial/industrial purposes with business units and landscaping. It was



noted that there were potentially elevated PCBs (max. 8.493mg/kg) in the northwestern part of the site and treatment of Japanese Knotweed was likely to be required.

## **2. Parkman Environment Report September 2006**

This report was produced by Parkman Environment in September 2006. The aim was to update the aforementioned 2003 report in accordance with (at the time) current legislation and to update the remediation cost estimates. In addition, 3 no. additional trial pits were undertaken in November 2004 (third phase of investigation) in the vicinity of the TPH exceedances in Area 1. Further trial pits and trenches were also undertaken but these were out-with the current site boundary.

Pertinent findings of the report were given as:

- The ground gas Characteristic Situation was updated and lowered to CS1 in line with recommendations of the Wilson and Card paper but subsequently raised to CS2 due to less than the recommended number of monitoring visits. Gas mitigation measures were provided for a commercial end-use.
- PCBs were identified in TPA, B and C from the third phase of investigation between <1 and 809ug/kg (Total 7 PCBs) which were lower than previously identified (max. 8493ug/kg).
- Some screening values were changed in relation to phenol and PAHs. Overall, significantly elevated contaminants were not identified apart from those previously listed (DRO, PCBs and phytotoxic copper and zinc).
- In addition to the recommendations made in the 2003 report, due to the time period of the gas monitoring it was recommended that venting measures should be provided for new buildings and also that a cover layer or removal from site of impacted soil should be implemented to deal with PCB contamination during redevelopment.
- It was noted a boundary wall had been completed since the previous report.
- It was also noted that treatment of Japanese Knotweed was being undertaken by Baldwin Landscapes.



### **3. SGE Letter Report August 2009**

The Shepherd Gilmour Environment (SGE) letter report was written for the HCA and addressed additional testing for PCBs in soil for the proposed bakery development, located to the south of the current site. The electricity sub station was located in the northwest of the current assessment site.

A total of 5 no. trial pits were excavated, 2 no. of which were located on the current assessment site boundary (TP106 & TP107) in which elevated concentrations of PCBs (7 congeners) were reported when assessed against RIVM (Dutch) values (max. 154.8ug/kg).

Overall, the risk to the bakery development was considered to be low.

### **4. Vertase Materials Management Plan 2011**

Vertase were commissioned by SGE to prepare a retrospective materials management plan with respect to soils that had been excavated as part of the bakery development. The report was prepared to demonstrate that the re-used and imported soils were suitable for use for the Client, New East Manchester Ltd.

Approximately 85,000m<sup>3</sup> of soil were excavated on HCA owned land to the south of the site prior to development of the bakery and used to form a sound attenuation mound and raised plateau on the overall Plot 2 area. The re-used soil was considered to be elevated in concentrations of heavy metals and PAHs with some chrysotile asbestos noted. The soil was not considered to pose a risk to controlled waters. Mitigation of the risk to human health associated with the re-used material was proposed by use of a suitable thickness of cover (300mm to 400mm). 9,150m<sup>3</sup> of material were imported to form a cover layer over the reused soil (400mm thickness of manufactured topsoil on the mound and 300mm of crushed shale/mudstone on the plateau). The mound was formed to a height of 7-8m, with a length and width of approximately 100m and 30m, respectively. The mound is located immediately southeast of the site and the plateau is present across the current HCA owned land within the overall Plot 2 boundary.

The cover was validated by SGE in 2011. During the works, approximately 4,250m<sup>3</sup> of soil excavated from a former reservoir were segregated due to visual evidence of potential contamination and laid in windrows, but the risk assessment established that this soil would be suitable for re-use without



treatment.

A letter report (dated June 2011) to the Council from SGE addresses verification of the mound and plateau. This reported the findings of trial pitting to confirm the cover and to obtain samples of the re-used soil for analysis and composition. The test data were screened against residential without plant uptake values based on 6% SOM. Some elevated TPH (aromatic C21-C35) and PAHs were identified. However, the risk to adjacent residential properties from these potential contaminants was considered to be low.

The verification works confirmed the capping had been installed to the agreed thickness and soil analysis did not identify significant risk to adjacent site users.

## 5.1 Gap Analysis

The following gaps in data have been identified from a review of the previous reports:

- Chemical analysis and screening were not undertaken for hexavalent chromium, fully speciated PAHs and speciated TPH CWG. Concentrations of cyanide may pose a risk as they would exceed an acute dose of 36mg/kg (Parkman screening value 250mg/kg). Assessment of previous chemical data has been undertaken using screening values not adhering to current best practice/guidance but re-assessment of the data is unlikely to alter those exceedances highlighted. In addition, this soil has been covered by a plateau since this assessment was undertaken, which may limit the potential risk associated with the potential contaminants identified.
- SGE Drawing ME983.2-02, dated August 2009 (Report ref. 3 above) provides exploratory hole locations undertaken by SGE. The reports associated with these investigations have not been provided for review. It is presumed that these works were associated with risk assessments carried out prior to the re-use and movement of soils in Plot 2 during or preceding development of the bakery.
- Further ground gas monitoring data are likely to be required to refine the ground gas regime.
- PCB testing to date has been based on the 7 non-dioxin-like congeners rather than the dioxin-like congeners which may pose a greater risk to human health.



- Assessment of the site, post creation of the plateau has not been undertaken in relation to the potential risk to on site receptors in relation to soil contamination and ground gases.
- Soil re-used at the site was possibly not fully assessed in relation to the risk to controlled waters, specifically in relation to the soil originally separated for windrow treatment; however, due to the presence of Glacial Till and sensitivity to the canal, the risk is not considered to be significant.

Based on the desk study undertaken and the review of the previous site investigation reports, the rationale for the recent WYG ground investigation was:

- Data available from previous intrusive investigations undertaken do not assess the risk associated with current site soils – post plateau, further investigation required.
- Elevated hydrocarbons and PCBs detected which require further investigation and assessment.
- Further analysis of cyanide and hexavalent chromium concentrations required.
- WYG exploratory holes positioned to fill obvious data gaps, delineate previous contamination and/or obstructions.
- A mix of window sample boreholes, dynamic probing and trial pitting to allow monitoring wells to be installed, chemical and geotechnical samples to be obtained, geotechnical parameters to be derived, and visual inspection of near-surface ground conditions to be made.
- Trial pitting/trenching to allow characterisation and inspection of any in-ground obstructions.
- Monitoring wells to be installed for an up-to-date ground gas assessment.





## 6.0 SUMMARY OF PRELIMINARY CONCEPTUAL SITE MODEL

The site has been considered in line with the current UK guidelines, namely the Contaminated Land (England) Regulations 2000 and Part II A of the Environmental Protection Act 1990, in accordance with current guidance.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- A source, i.e. a substance that is capable of causing pollution or harm;
- A receptor (or target), i.e. something which could be adversely affected by the contaminant; and
- A pathway, i.e. a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

Potential sources, pathways and receptors have been identified and the risks associated with possible pollutant linkages outlined. The site assessment is undertaken based on the likely end use of the site as a commercial development.

**Table 6.1 –Preliminary Conceptual Site Model (CSM)**

<b>On Site Sources</b>	Made Ground, reworked ground and historical use as Engineering works with tanks and electricity sub-station (ground gases and potential contamination) Potential contaminants identified by previous investigations include: metals, phenol, PAHs, TPH and PCBs.
<b>Off Site Sources</b>	Possible inorganic and organic contamination in the immediate area surrounding the site associated with former industrial uses and infilled pits.
<b>Pathways</b>	Ingestion, inhalation and dermal contact with soil/dust. Leaching and groundwater migration. Migration of ground gases.
<b>Receptors</b>	Human health, controlled waters, structures, landscaping.
<b>Preliminary Risk Assessment</b>	Overall, the site is considered to pose a moderate risk to future site users, specifically pertaining to future human health. It is recommended that a ground investigation is undertaken to help refine this preliminary risk assessment.



## 7.0 WYG INVESTIGATIONS

### 7.1 Fieldworks Undertaken

The intrusive investigation works were undertaken on 21<sup>st</sup>, 22<sup>nd</sup> and 23<sup>rd</sup> August 2013, with follow-up monitoring of borehole installations between 27<sup>th</sup> August and 26<sup>th</sup> September 2013.

The works were undertaken in general accordance with BS 10175: Code of Practice for Site Investigations of Potentially Contaminative Sites, BS5930 (+A2), BS EN1997-2, BS EN ISO 14688 and 14689, and BS8576:2013.

The works undertaken comprised the following:

- 1 No. hand dug pit (WS202) to 0.9m bgl, terminated prior to window sampling due to an obstruction.
- 5 No. window sample holes (WS201, WS201A, WS202A, WS203 & WS204) to depths between 3m and 5mbgl.
- 9 No. machine excavated trial pits/trenches (TP200, TP201, TP202, TP203, TP203A, TP204, TT200, TT201 & TT202) to depths between 0.6m and 4.6m bgl.
- Full-time supervision by a WYG consultant, to record the ground conditions and obtain soil samples.
- In-situ Standard Penetration Tests (SPTs).
- Installation of monitoring wells in WS201A, WS202A, WS203 & WS204.
- Chemical and Geotechnical laboratory testing.
- 6 No. visits to site to monitor for ground gas and groundwater levels (27/08/13 to 26/09/13).

An exploratory hole location plan is presented as Figure 3. The exploratory holes were positioned to provide overall site coverage, fill identified gaps and overcome in-ground obstructions identified during the first day's investigation.

Detailed engineering logs and trial pit photograph plates are presented as Appendix E and a summary of the encountered ground conditions is provided in Section 8.



## 7.2 Laboratory Analysis

### 7.2.1 Soils Chemical Testing

Soil samples underwent testing at Jones Forensic Environmental Laboratory, an MCERTS/UKAS accredited laboratory in Deeside, Flintshire, as follows:

- 10 No. site specific soils suites, which included the following determinands: arsenic, water soluble boron, cadmium, total chromium, hexavalent chromium, copper, free cyanide, lead, mercury, nickel, selenium, zinc, pH, water soluble sulphate, phenol, speciated 16 Polycyclic Aromatic Hydrocarbons (PAHs) and Extractable Petroleum Hydrocarbons (EPH C8-C40).
- 6 No. Total Petroleum hydrocarbons (TPH CWG).
- 8 No. asbestos screens.
- 2 No. Fraction Organic Carbon (FOC) (limited number able to be analysed due to presence of asbestos).
- 6 No. for speciated WHO 12 Poly-chlorinated biphenyls (PCBs).

Full copies of the chemical laboratory testing results and the accreditation details for each determinand analysed are included in Appendix F.

### 7.2.2 Geotechnical Laboratory Testing

Geotechnical samples underwent the following testing at Professional Soils Laboratory (PSL), a UKAS accredited laboratory in Doncaster, as follows:

- 3 No. moisture content.
- 3 No. Atterberg Limits.
- 3 No. water soluble sulphate (2:1 water:soil extract) and pH value.
- 1 No. organic content.

Full copies of the geotechnical laboratory testing results are included in Appendix G.



## 8.0 ENCOUNTERED GROUND CONDITIONS

A summary of the encountered geological conditions is presented below, with detailed information presented on the exploratory hole logs, trial pit photograph plates and a trial trench sketch (TT200) are included in Appendix E.

### 8.1 Made Ground

A surface layer of a shale/mudstone gravel was encountered in the majority of exploratory locations at ground level up to a thickness between 0.05 and 0.5m, apart from in the following locations:

- In TP200, this layer was absent and the Made Ground comprised gravelly Sand with wood and boulders of brick and concrete from ground level to 1.8m where the hole was terminated due to a concrete obstruction.
- In TP204, surface cover 0.2m thick comprised gravelly Sand with some cobbles of brick. Gravel comprised brick, sandstone and plastic.

Overall, the capping layer of imported shale was not uniformly 300mm as originally specified, however, the variations recorded in the current investigation may be due to the exploratory hole positions being on or just beyond the edge of the plateau.

Cohesive Made Ground beneath the surface cover was observed between 0.4m and greater than 4.4m thick and typically comprised soft and firm grey brown slightly sandy gravelly Clay with cobbles of brick and concrete, often with rootlets. The gravel comprised brick, clinker, concrete, coal, mudstone, ash, wood and occasional wood, ceramic, plastic, glass, reinforcement bar and rubber in some locations.

Cohesive Made Ground was not encountered in:

- TP204 - where granular Made Ground was encountered to 1.3m bgl comprising gravelly Sand with cobbles of brick and the gravel comprised ash, brick, sandstone, concrete and wood.
- TT202 – where granular Made Ground was encountered to greater than 4m depth comprising gravel of mudstone, brick, slate and cobbles of brick with obstructions of sandstone flags, concrete boulders and metal girder noted.



Due to the composition of the original Made Ground and that from the adjacent bakery site used to create the plateau, the boundary between these was difficult to determine but ground conditions encountered on site broadly were similar to that of the Made Ground described in the previous reports.

This investigation has encountered Made Ground varying from 1.3m thick (TP204) to in excess of 4.6m thick (TP203A). The thicker deposits may represent the back-filling of former pits or, possibly, sub-structures associated with the former Park Engineering Works.

## 8.2 Superficial Deposits

The natural superficial soil deposits encountered beneath the Made Ground comprised typically firm or stiff but in places very stiff mottled grey brown sandy, gravelly Clay (Glacial Till). The base of this stratum was not proven.

## 8.3 Solid Deposits

Bedrock was not encountered during the investigation.

**Table 8.1 Summary of Encountered Ground Conditions**

Stratum	Depth Encountered (m bgl)	Depth to Base (m bgl)	Thickness (m)	SPT Range (N)
Made Ground – Shale/Mudstone	Ground level	0.05-0.5	0.05-0.5	N/A
Made Ground – Granular (TP200, TP204 & TT202)	Ground level to 0.2	1.3->4*	1.1-3.8	N/A
Made Ground - Cohesive	0.05-0.5	0.5 - >4.6*	0.5->4.4*	2-18
Made Ground – Granular (WS201A & WS202A)	0.5-3.9	1.3->4*	>0.1-0.8	N/A
Superficial - Clay	1.3-4.5	>3*->5*	>0.5*->2.2*	20-25

Note: \*Not fully penetrated. N/A – Not Applicable.

## 8.4 Groundwater

Groundwater was observed in some locations (WS201, WS201A, WS202A, TP203A & TP204) between 0.2m and 2m bgl during the main investigation.



Gas monitoring wells were installed in the Made Ground in three exploratory holes (WS201A, WS202A, WS203 & WS204). Subsequently, groundwater levels have been monitored on six occasions (between 27/08/13 and 26/09/13).

Table 8.2 below summarises the groundwater encountered and the range of levels monitored to date. Full results are included in Appendix H.

**Table 8.2 Groundwater Levels Monitored (based on 6 no. visits)**

Location	Water strike during drilling (m bgl) in Stratum	Response Zone (m bgl) in Stratum	Monitored Water Level Range (m bgl)
WS201A	0.2 MG	1-4 MG	<b>DRY-3.8</b>
WS202A	0.2 MG	0.3-1.3 MG	<b>DRY-1.0</b>
WS203	N/A	1-4.5 MG	<b>0.3-2.7</b>
WS204	N/A	1-4 MG	<b>2.1-3.3</b>

Note: WAB – Wet at base. MG – Made Ground. N/A – Not Applicable.

## 8.5 Observed Contamination

Made Ground was encountered in all exploratory locations. Significant visual and olfactory observations of contamination noted during the investigation works are summarised below:

- WS201A at 3.9m bgl – moderate tarry odour.
- WS204 at 0.05-2.4m bgl – faint hydrocarbon odour (PID <0.1ppm).

Semi-quantitative screening for VOCs using a PID did not report any significantly elevated concentrations (>0.1ppm) in the Made Ground where undertaken.

## 8.6 Observed Obstructions

A number of exploratory holes terminated above their target depths on buried concrete obstructions. Cobbles and boulders of brick and concrete were encountered within the Made Ground at most exploratory locations.

Where significant obstructions were encountered in the window sample holes or trial pits, the window sample holes were re-drilled adjacent or a trial pit/trench was undertaken. The following significant obstructions were noted:



- Reinforcement bar in WS201 at 3.9m bgl and TP203A at 0.2-4.6m bgl.
- Concrete obstruction in WS202 at 0.9m bgl and in TP200 at 0.35m and 1.8m bgl.
- Obstruction in TP203 at 0.6m bgl.
- Brick walls and concrete within TT200 (see Trial Trench 200 Sketch).
- Obstructions in TT201 at 0.7m (boulders of sandstone), 1.5m (concrete), 2.1m (railway sleeper) and 2.5m bgl (boulders of concrete and granite).
- Obstructions in TT202 at 1m (boulders of sandstone and concrete) and 2m bgl (metal and concrete).

Although a possible underground structure was encountered in TT200, the investigation has been inconclusive in proving whether or not the air raid shelters referred to in the 1993 investigation are present on the current site.



## 9.0 GROUND GAS RESULTS AND ASSESSMENT

### 9.1 Ground Gas Results

Six ground gas and groundwater level monitoring visits have been undertaken, on 27/08/13, 03/09/13, 10/09/13, 17/09/13, 23/09/13 and 26/09/13. Visits were conducted across a range of barometric conditions. The gas monitoring was undertaken in accordance with BS 8576:2013. Table 9.1 below summarises the ground gas results and the results are presented in Appendix H.

Elevated methane or carbon dioxide was not detected in any exploratory hole. Depleted oxygen levels were not generally recorded in all boreholes (min. 19.2%). No significant concentrations hydrogen sulphide (<1ppm) or carbon monoxide (max. 6ppm) were recorded.

Significant flow rates were not recorded during the monitoring period (above 0.1l/h).

Semi-quantitative analysis of concentrations of VOCs was obtained using a hand-held photo-ionisation detector (PID). Slightly elevated concentrations were reported between <0.1ppm and 18ppm (WS203). The maximum concentrations were generally recorded during one monitoring visit (03/09/13) with 18ppm in WS203 and 17.2ppm in WS204 recorded.

**Table 9.1: Summary of Ground Gas Results (based on 6 no. visits)**

Location	Response Zone (m bgl) & Strata	Max. Methane Conc. %	Max. Carbon Dioxide Conc. %	Min. Oxygen conc. %	Max. Flow Rate (l/hr)	Water Level Range (m bgl)
WS201A	1-4 MG	<0.1*	<0.1*	20.2	0	<b>DRY-3.8</b>
WS202A	0.3-1.3 MG	<0.1*	<0.1*	20.0	0	<b>DRY-1.0</b>
WS203	1-4.5 MG	<0.1*	<0.1*	19.2	0	<b>0.3-2.7</b>
WS204	1-4 MG	<0.1*	<0.1*	20.2	0	<b>2.1-3.3</b>

Note: MG – Made Ground, Brackets indicates steady state. \* - Peak and steady the same.

### 9.2 Ground Gas Assessment

Ground gas results have been assessed using the methodology described in CIRIA C665. The methodology uses volume flow rates to assess the risk from ground gas.





In accordance with the CIRIA methodology, a conservative Gas Screening Value (GSV) is calculated using a worst case scenario (i.e. highest gas concentration combined with highest flow rate). Where readings are not recorded above the instrument detection limit, the value of the instrument detection limit is used to calculate the GSV. The calculation of the GSV is as follows:

$$\begin{aligned}0.1\% \text{ CH}_4 \times 0.1 \text{ l/hr} &= 0.0001 \text{ l/hr CH}_4 \\0.1\% \text{ CO}_2 \times 0.1 \text{ l/hr} &= 0.0001 \text{ l/hr CO}_2\end{aligned}$$

Based on the worse case peak and steady gas concentrations and flow rates, the site is Characteristic Situation (CS) 1 (very low risk), in accordance with CIRIA C665. This is typical of natural soil with a low organic content and 'typical' Made Ground. These conditions are considered similar to those observed on site.

Based on these values, gas mitigation measures as prescribed in BS 8485:2007 (Table 2) for the end use (commercial) are not considered to be required.

Although elevated VOCs were detected, these were not elevated for the whole of the monitoring period, and unlikely to pose a significant risk to the proposed development; however, hydrocarbons in soils have been identified at the site (see below) and further investigation/assessment and/or mitigation may be required.

Ultimately, the proposals for gas protection measures will be subject to Local Authority Planning and Building Control approval.



## 10.0 GROUND CONTAMINATION ASSESSMENT

### 10.1 Soils Contamination Assessment Methodology

In order to assess the Tier 1 environmental risk posed by potential contaminants within the underlying soils WYG undertook an initial screen of the laboratory results using Tier 1 Screening Values (TSVs) for a commercial end use as representative of the most likely development option for the site. The TSVs are based on published screening values. A conservative 1% Soil Organic Matter (SOM) has been used for the purpose of this initial screening assessment. The following published sources have been used:

- Environment Agency published screening values (April, May and July 2009).
- The LQM/CIEH Generic Assessment Criteria (GAC) for Human Health Risk Assessment (2nd Edition), 2009 published screening values.
- The EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment, January 2010 published values.
- WYG derived TSV for lead using CLEA Model V1.06, based on pH 7 and 1% SOM, as further detailed below.
- A published acute effect for an infant from one dose (ingestion) of 3g soil, for freely available cyanide.
- Professional judgement in relation of total EPH (>1000mg/kg, individual carbon bands based on LQM) and PCB concentrations (limit of detection).

At present there is currently no published SGV for lead. A previous SGV published for lead has been withdrawn by the EA as it was derived using a version of the CLEA model that has now been superseded and withdrawn from use. Interim guidance given on the EA CLEA website has indicated that the EA will consider setting the Health Criteria Value (HCV) as an intake dose, and not a blood lead level as it was for the previously published SGV. WYG has derived a SGV/HCV for lead for the site based on use of the current CLEA model and input criteria provided by the CLEA team.

Where EPH values are reported in the absence of speciated TPH, professional judgement has been used in relation to whether these pose a risk to human health.



The chemical results are provided in Appendix F and a summary of the screening values used and those concentrations which exceed them, are given in the section below.

Contaminant concentrations below the TSVs are considered not to warrant further risk assessment. Concentrations of potential contaminants above the TSVs require further consideration of the potential pollutant linkages. It should be noted that exceedance of the TSVs does not necessarily mean that the site requires remediation.

It is considered that at depths greater than 1m, the probability of human exposure via the direct contact pathways is significantly reduced, leaving inhalation of volatile compounds as the dominant pathway with regard to human health risks. Typically, volatile compounds only significantly affect the indoor inhalation pathway.

## **10.2 Controlled Waters Contamination Assessment Methodology**

Previous qualitative and quantitative risk assessment has been undertaken in respect to controlled waters and it is not considered that the site is located in a significantly sensitive area with respect to controlled waters; therefore further controlled waters contamination assessment through analysis has not been undertaken as part of this commission.

## **10.3 Site Contamination Assessment**

An assessment of the chemical results has been undertaken in accordance with the methodology described above.

For the determinands analysed, there were generally no elevated concentrations in the Made Ground which exceeded the applicable screening values for a commercial end-use.

Concentrations of PCBs (Speciated WHO 12 congeners) did not report any concentration over the limit of detection (sum of 12 <60ug/kg).

Based on professional judgement (screening value of 1000mg/kg), elevated total EPH (C8-C40) were reported in 6 no. locations (between 1183mg/kg and 4175mg/kg). Carbon banded EPH and TPH speciated analysis did not indicate any significant exceedances; however, speciated testing was not undertaken on every sample where EPH was elevated.



Asbestos fibres were detected the majority of samples of the Made Ground that were screened comprising mainly chrysotile but also amosite in one sample.

A summary of the exceedances is provided in Table 10.1 below.

**Table 10.1 Summary of Tier 1 Soil Screening Exceedances for Commercial End-Use**

Determinand	TSV (mg/kg)	Total no. of tests	Conc. Range (mg/kg)	No. elevated above TSV	Location of exceedance
Asbestos	Presence	8		7	TP201 at 0.4m bgl (C) TP202 at 0.5m bgl (C) TP204 at 0.3m bgl (C & A) WS201A at 0.5m bgl (C) WS201A at 1.4m bgl (C) WS203 at 0.6m bgl (C) WS204 at 0.9m bgl (C)
EPH C8-C40	1000*	10	<30-4175	6	TP202 at 0.5m bgl (1607mg/kg) TP204 at 0.3m bgl (4175mg/kg) WS201A at 1.4m bgl (1055mg/kg) WS203 at 0.6m bgl (1183mg/kg) WS203 at 1.4m bgl (2060mg/kg) WS204 at 0.9m bgl (3973mg/kg)

Note: C – Chrysotile, A – Amosite. \* - professional judgement.



## 11.0 CONTAMINATION RISK ASSESSMENT

The site is being considered for future development and has been assessed on the basis of its suitability for the proposed end use, in line with current UK guidance including the National Planning Policy Framework (NPPF), March 2012.

For a risk of pollution or environmental harm to occur as a result of ground contamination, all of the following elements must be present:

- A source, i.e. a substance that is capable of causing pollution or harm;
- A receptor (or target), i.e. something which could be adversely affected by the contaminant; and
- A pathway, i.e. a route by which the contaminant can reach the receptor.

If one of these elements is absent there can be no significant risk. If all are present then the magnitude of the risk is a function of the magnitude and mobility of the source, the sensitivity of the receptor and the nature of the migration pathway.

Potential sources, pathways and receptors have been identified and the risks associated with possible pollutant linkages outlined. At this stage and in accordance with current guidance the following significant sources, pathways and receptors have been defined for the proposed future commercial end-use.

### 11.1 Potential Hazard Sources

#### 11.1.1 On-site Sources

Based on the findings and the chemical test results at the site, it is considered there are a number of potential on-site contamination sources. Those identified are:

- Elevated total EPH (C8-C40) and asbestos in the Made Ground,
- Elevated heavy end hydrocarbons (DRO) in original Made Ground (pre plateau creation),



- Elevated metals, PAHs and asbestos in soils re-used in plateau,
- Elevated PCBs (7 congeners) identified by previous investigations,
- Elevated ground gases (including VOCs).

#### **11.1.2 Off-Site Sources**

Based on surrounding historical industrial land uses identified during the desk study, it is considered that there are potential off-site hazard sources present, although these are similar to the historical use of the site.

### **11.2 Contamination Pathways**

Potential contamination pathways, listed below, have been considered, although the end-use of the site is currently unknown:

- Dermal contact;
- Inhalation of vapours or dusts;
- Ingestion of dusts;
- Leaching to surface run-off/drainage;
- Leaching to groundwater;
- Lateral and vertical migration of groundwater;
- Migration along/into service conduits and pipe work; and,
- Ground gas and vapour migration and accumulation.

### **11.3 Contamination Receptors**

Receptors that may be affected by potential contamination are:

- Future site users;
- Development workers;
- Underlying groundwater (Principal Aquifer);



- Surface waters (surface water off-site, canal);
- Adjacent properties and land users (predominantly commercial and residential buildings);
- Future buildings and installations; and,
- Flora (landscaping).

By considering the sources, pathways and receptors, a preliminary assessment of the environmental risk is made with reference to the significance and degree of the risk. This assessment is based on consideration of whether the source contamination can reach a receptor and hence whether it is of major or minor significance.

The risk assessment has been carried out by assessing the severity of the potential consequence, the sensitivity of the target and the likelihood of occurrence, based on the categories given below (Tables 11.1 to 11.3).

**Table 11.1: Potential Hazard Severity Definition**

Category	Definition
Severe	Acute risks to human health, catastrophic damage to buildings/property, major pollution of controlled waters
Medium	Chronic risk to human health, pollution of sensitive controlled waters, significant effects on sensitive ecosystems or species.
Mild	Pollution of non sensitive waters, significant damage to buildings or structures
Minor	Requirement for protective equipment during site works to mitigate health effects, damage to non sensitive ecosystems or species, minor damage to buildings or structures

The likelihood of an event (probability) takes into account both the presence of the hazard and target and the integrity of the pathway and has been assessed based on the categories given below.

**Table 11.2: Probability of Risk Definition**

Category	Definition
High likelihood	Pollutant linkage may be present, and risk is almost certain to occur in long term, or there is evidence of harm to the receptor
Likely	Pollutant linkage may be present, and it is probable that the risk will occur over the long term
Low likelihood	Pollutant linkage may be present, and there is a possibility of the risk occurring, although there is no certainty that it will do so
Unlikely	Pollutant linkage may be present, but the circumstances under which harm would occur are improbable



The potential severity of the risk and the probability of the risk occurring have been combined in accordance with the following matrix in order to give a level of risk for each potential hazard.

**Table 11.3: Level of Risk for Potential Hazard Definition**

		Potential Severity			
		Severe	Medium	Mild	Minor
Probability of Risk	High Likelihood	High	High	Moderate	Low/Moderate
	Likely	High	Moderate	Low/Moderate	Low
	Low Likelihood	Moderate	Low/Moderate	Low	Low
	Unlikely	Low/Moderate	Low	Low	Low

## 11.4 Ground Contamination Risk Assessment

The preliminary risk assessment based on the desk top study and previous reports has been refined using the ground investigation data obtained.

Based on the likely nature of future development, the contamination risk posed to future site users is considered to be **low to moderate**, predominantly associated with the heavy end hydrocarbons and asbestos identified in the Made Ground. Although previous investigations reported elevated metals and PAHs, these deposits have been covered by the plateau; therefore, they are unlikely to now pose a significant risk to future site users. A low risk has been derived in relation to controlled waters, landscaping and adjacent users. The risk to human health may be lowered dependant on the end-use sensitivity and the predominance of hardstanding cover. The elevated total EPH concentrations in the Made Ground may require further investigation and/or remediation to reduce the risk to future end users to low. The risk posed from the presence of asbestos should be quantified by laboratory analysis or lowered by the provision of cover.

The risk to future potable water supplies is considered to be **low to moderate** and may require suitable mitigation when specifying materials and construction details for water supply pipes associated with the potential presence of hydrocarbons.





The risk to the site from ground gas is considered to be **low to moderate**. However, this risk is not considered to be unacceptable and ground gas mitigation measures are not likely to be required in relation to ground gases (methane and carbon dioxide) but mitigation associated with the presence of hydrocarbons may be required, dependant on building design and subject to Local Authority Development Control approval.



**Table 11.4 Revised Contamination Risk Assessment (post site investigation)**

On Site						
Source	Pathway	Receptor	Severity	Probability	Risk	Justification
Presence of asbestos in Made Ground	Inhalation of soil and dust	Human Health – Future site users	Medium	Low	Low to Moderate	As the site is likely to be redeveloped for a commercial end-use with building footprints surrounded by hardstanding, thus limiting potential exposure. Quantification of the percentage of fibres present should be undertaken to refine risk.  The risk to development workers should be low based on the use of Personal Protective Equipment (PPE) and appropriate working procedures.
Elevated Heavy End Hydrocarbons (EPH & DRO) and PCBs in Made Ground	Dermal contact, Ingestion and/or inhalation	Human Health – Future site users	Medium	Low	Low to Moderate	Elevated heavy range hydrocarbons and PCBs (7 congeners) have been identified during previous site investigations. Recent soil analysis did not record any significant concentrations of dioxin-like PCBs.  As the site is likely to be redeveloped for a commercial end-use with building footprint and hardstanding, thus limiting potential exposure, although a pathway may be present associated with inhalation.
		Human Health – Construction Workers	Minor	Low	Low	The risk rating is based on the use of Personal Protective Equipment (PPE) and appropriate working procedures.
	Direct contact/plant root uptake	Flora and fauna (gardens & landscaping)	Minor	Low	Low	There may be a requirement to import a suitable growing medium if landscaping is required.

# Geo-Environmental Desk Study & Ground Investigation Report

## Plot 2, Newton Heath



On Site						
Source	Pathway	Receptor	Severity	Probability	Risk	Justification
Elevated Heavy end Hydrocarbons (EPH & DRO) and PCBs in Made Ground	Leaching, and lateral and vertical migration of groundwater	Controlled Waters – Principal Aquifer	Medium	Unlikely	Low	The Made Ground at the site is likely to be covered by future hardstanding or building footprint, limiting percolation with limited shallow groundwater observed during the investigations.  The aquifer is afforded some protection by the relatively impermeable overlying Glacial Till clay. Previous assessment has identified a limited risk to controlled waters, although this did not take into account the cover of re-used soil.
		Controlled Waters – Surface Waters	Medium	Unlikely	Low	The risk is low based on the location of the site and the nearby canal. However, it is not known whether a significant pathway between these is present but unlikely due to distance and groundwater levels.
		Future potable water pipelines	Medium	Low	Low to Moderate	The presence of potential hydrocarbons may require mitigation for future potable water pipelines.
		Adjacent Properties and Land Uses	Minor	Unlikely	Low	The risk is based upon the sensitivity of the receptors relative to the site's topography.
Ground gas generation and accumulation / migration.	Generation and migration / accumulation of ground gases	Human Health – Future site users	Medium	Low	Low to Moderate	Ground gas monitoring has led to the site being classed as Characteristic Situation 1, which would not require mitigation measures, subject to Local Authority Regulatory control.
		Future Buildings, Installations and Adjacent Properties	Mild	Low	Low	
		Human Health – Construction workers	Minor	Low	Low	The risk rating is based on the use of Personal Protective Equipment (PPE) and appropriate working procedures.



## 12.0 GEOTECHNICAL ASSESSMENT

It is understood that there are currently no firm development proposals for the site; as such only a general assessment can be made at this stage.

In summary, the ground conditions comprise (with increasing depth):

- A thin surface cover of shale/mudstone gravel;
- Typically cohesive Made Ground;
- Granular Made Ground at some locations;
- Firm and stiff, in places very stiff, Clay (Glacial Till).

The variation in Made Ground thickness (from 1.3m proven, to in excess of 4.6m) suggests that former excavations or engineering works sub-structures have been filled in before the site was covered more generally with additional Made Ground to form a raised plateau. Sub-structures may not have been completely broken out before being filled in.

The following geotechnical characteristics will need to be taken into account when designing and constructing future developments on this site.

- The potential instability of the near surface Made Ground may require the use of shoring during the excavations of trenches and the like.
- Groundwater has been encountered at shallow depth and groundwater control measures may be required during construction.
- Locally, the natural firm and stiff clay deposits are present at relatively shallow depth and conventional shallow spread foundations would be feasible for standard low rise structures in such areas. However, more typically, the thickness of Made Ground is such that this type of foundation could not be employed unless the stiffness of the Made Ground is first improved e.g. using vibro stone or concrete columns taken into the underlying natural clay. The alternative to ground improvement (and a likely requirement for taller or heavier structures)



will be to provide piled foundations. The Made Ground is considered to be generally too thick to make trench fill foundations a feasible solution.

- There is a risk that obstructions within the Made Ground may impede the formation of stone/concrete columns, the penetration of piles and the digging of service trenches. Based on the results of the current investigation, most of the significant obstructions may be in the upper 2.5m or thereabouts. It may be necessary, as part of any works preparatory to new development, to turn over the Made Ground within this zone and break out any buried structures encountered, such as foundation walls and slabs (including air raid shelters if proven).
- In accordance with BRE Special Digest 1:2005 *Concrete in aggressive ground*, based on chemical analysis of soils, the site is classified as Design Sulphate Class DS1 and ACEC Class AC1.
- The stability of the site is not considered to be at risk from the historical mining of coal.



## 13.0 CONCLUSIONS & RECOMMENDATIONS

### 13.1 Conclusions

Ground conditions encountered generally comprise a cover of gravel (0.05-0.5m thick) underlain by cohesive Made Ground with gravel and cobbles of brick, clinker, concrete, coal, mudstone, ash, wood and occasional wood, ceramic, plastic, glass, reinforcement bar and rubber in some locations. Where absent, granular Made Ground was encountered; this strata is also present beneath the cohesive Made Ground in some locations. The Made Ground across the site is underlain by a natural deposit of firm and stiff gravelly sandy Clay (Glacial Till), encountered from 1.3m to 4.5m bgl. Groundwater was observed during the main site investigation, in some locations near ground level (0.2m bgl) and subsequent monitoring indicated shallow groundwater in the Made Ground between 0.3m and 3.3m bgl.

The recent investigation has indicated the presence of asbestos (chrysotile and amosite) and elevated concentrations of total EPH in the Made Ground. Previous investigations have identified potentially elevated PCBs (7 congeners).

Elevated ground gas concentrations, specifically methane and carbon dioxide were not detected; however, elevated VOCs were recorded during the monitoring which may be associated with the potential presence of hydrocarbons (although likely to be heavy end and least volatile). The site has been classified as CS1 and would require mitigation measures based on BS8485:2007. Ultimately, the proposals for gas protection measures will be subject to Local Authority Development control.

Overall, the site poses a **low to moderate** risk. The contamination risk posed to future site users is considered to be low to moderate based on the presence of elevated EPH and presence of asbestos identified but the likelihood of separation from the Made Ground by building footprint or hardstanding may reduce the risk to low. The risk to construction workers, controlled waters and flora and fauna is considered to be low. The risk to future potable water supplies is considered to be low to moderate and may require suitable mitigation to refine the risk posed.



Based on the site investigation information obtained and risk assessment undertaken, it is considered that the site may be classified as Category 4: Human Health in line with Part IIA Statutory Guidance, April 2012; therefore, the site is unlikely to be classified as 'contaminated land'.

In relation to the National Planning Policy Framework, March 2012 – Paragraphs 120 and 121, it is not considered that there would be unacceptable risks from pollution or land stability. It is considered that the following remedial/mitigation measures may be required, but ultimately, these will depend on the form of development and regulatory requirements.

The investigation encountered numerous in-ground obstructions but has been inconclusive in the identification of the locations of potential air raid shelters.

Locally, the natural firm and stiff clay deposits are present at relatively shallow depth and conventional shallow spread foundations would be feasible for standard low rise structures in such areas. However, more typically, the thickness of Made Ground is such that this type of foundation could not be employed unless the stiffness of the Made Ground is first improved e.g. using vibro stone or concrete columns taken into the underlying natural clay. The alternative to ground improvement (and a likely requirement for taller or heavier structures) will be to provide piled foundations. The Made Ground is considered to be generally too thick to make trench fill foundations a feasible solution.

## 13.2 Recommendations

The following is recommended in relation to any proposed development of the site:

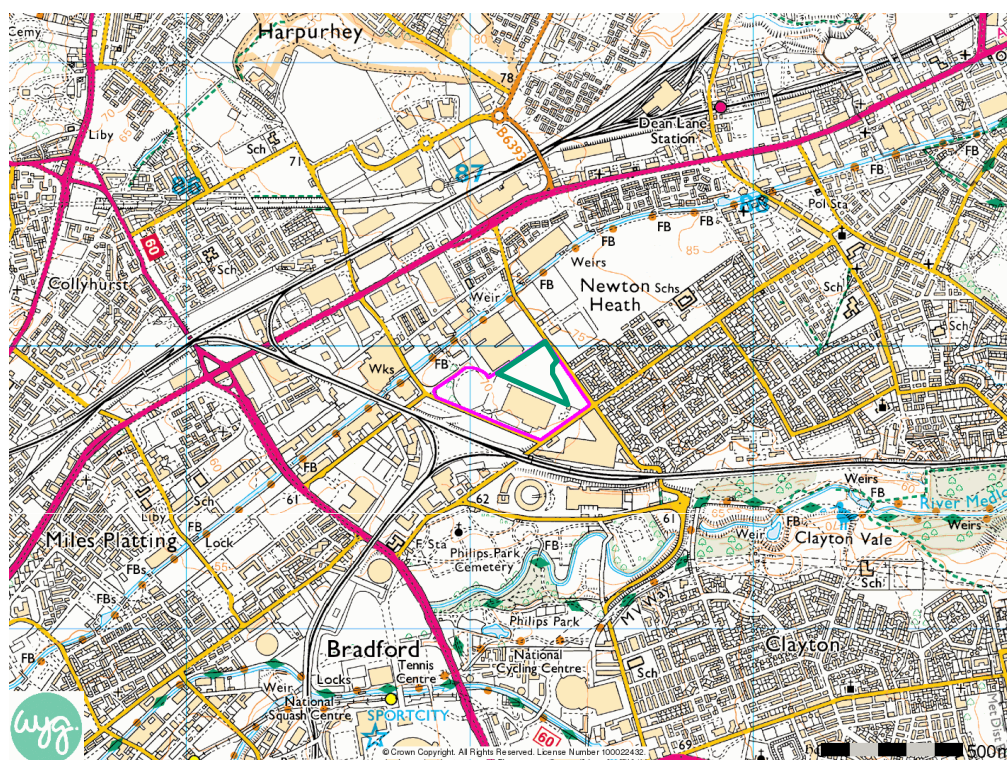
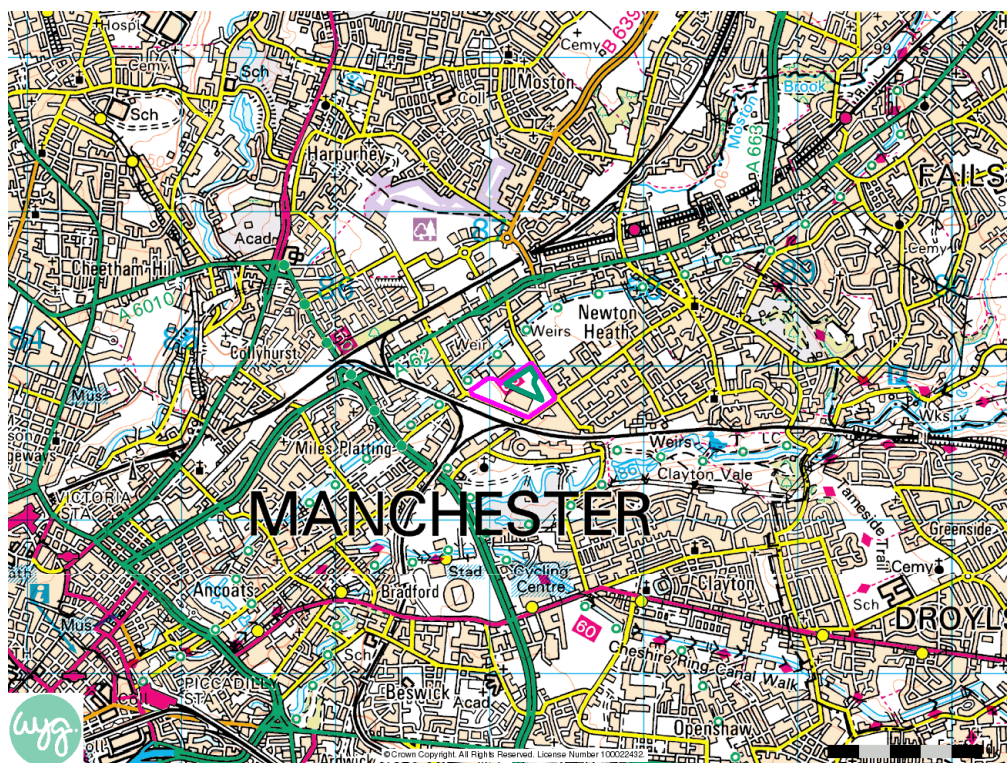
- Further investigation and assessment of elevated hydrocarbons (heavy end).
- Quantification of the presence of asbestos and further assessment in relation to the risk posed to human health.
- Incorporation of suitable hydrocarbon resistant water supply pipes.

Subject to consideration of development type and regulatory approvals, it may be necessary to provide a suitably protective cover layer of hardstanding, and/or a suitable thickness of clean cover for any landscaped areas. Any excavated Made Ground will need to be removed by a suitably licenced contractor, subject to further analysis. During redevelopment, construction workers will require appropriate PPE for contact with the Made Ground.



## Figures





 - Site Location

**Quay West at MediaCity UK**  
**Trafford Wharf Road**  
**Salford Quays**  
**Manchester M17 1HH**

**Tel: 0161 872 3223**  
**Fax: 0161 872 3192**  
**E-mail enquiries @wyg.com**

**Environmental Consultancy**  
**Ground Technologies & Investigation**



**Project : Plot 2, Newton Heath, Manchester**

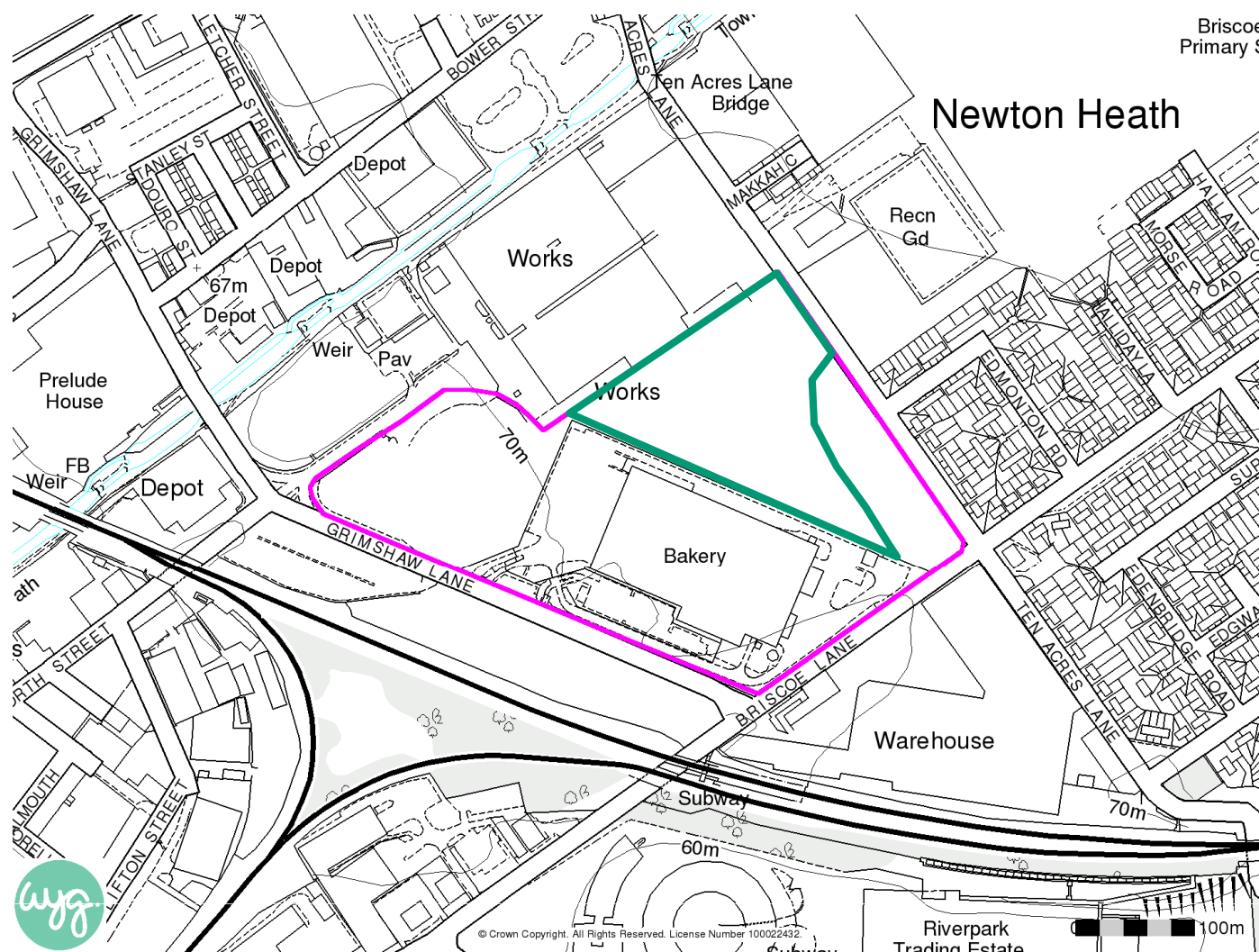
**Client : Homes & Communities Agency**

**Figure 1 – Site Location Plan**

**Project No.: A083215**

**Date: August 2013**





 - Site Boundary

**Quay West at MediaCity UK**  
**Trafford Wharf Road**  
**Salford Quays**  
**Manchester M17 1HH**

**Tel: 0161 872 3223**  
**Fax: 0161 872 3192**  
**E-mail enquiries @wyg.com**

**Environmental Consultancy**  
**Ground Technologies & Investigation**



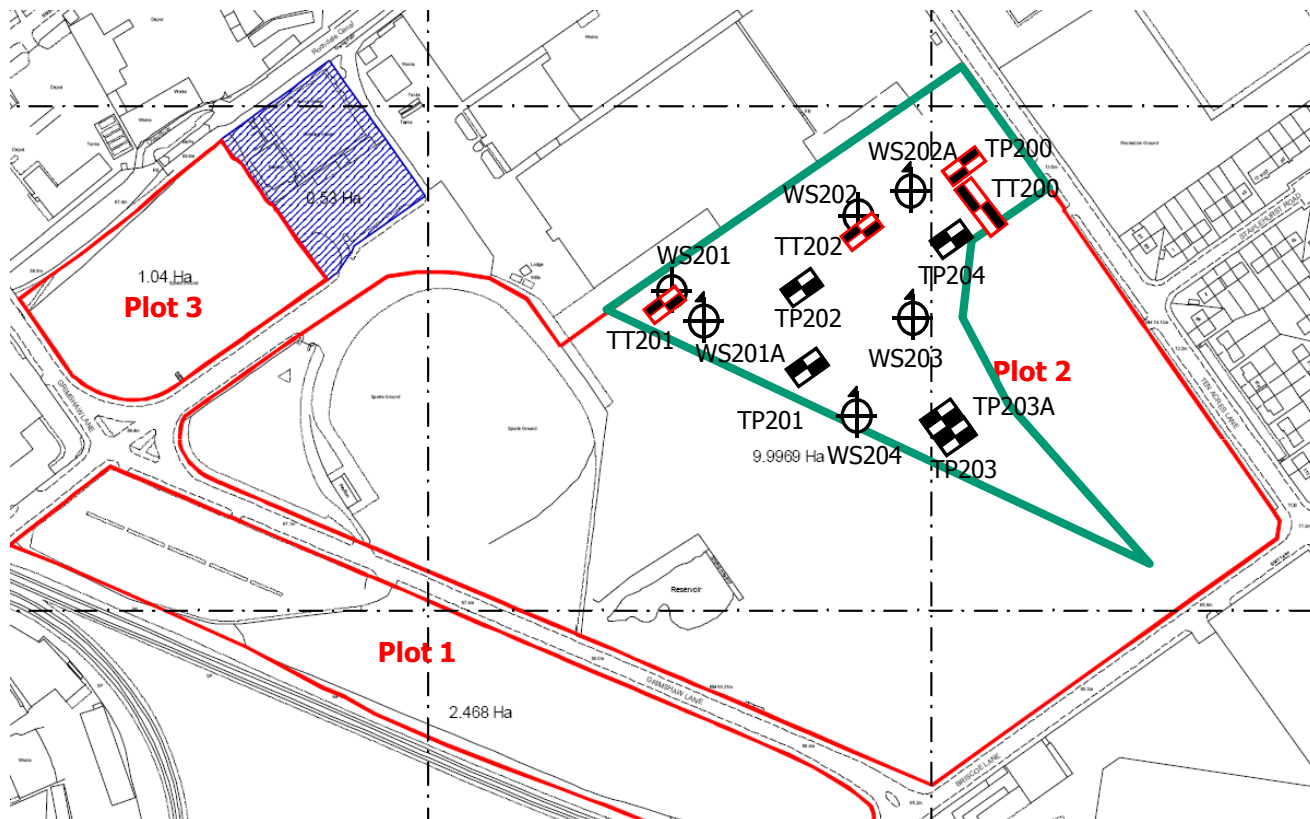
Project : Plot 2, Newton Heath, Manchester

Client : Homes & Communities Agency

Figure 2 – Site Plan

Project No.: A083215

Date: August 2013



### **Key:**



Site area owned by HCA



Plot Boundary



Window Sample Hole with Monitoring Well (WS)



Trial Pit (TP)



Trial Trench (TT)

### **Notes:**

1. Plan indicative, not drawn to scale.

### **Site Location:**

Plot 2  
Ten Acres Lane  
Newton Heath  
Manchester  
M40 2SQ

Approximate Grid Ref: 387231, 399834

Approximate Site Area: 9.99 Ha (Whole Plot 2)

**Quay West at MediaCity UK**  
**Trafford Wharf Road**  
**Salford Quays**  
**Manchester M17 1HH**

**Tel: 0161 872 3223**  
**Fax: 0161 872 3192**  
**E-mail enquiries @wyg.com**



**Environmental Consultancy**  
**Ground Technologies & Investigation**

Project : Plot 2, Newton Heath, Manchester

Client : Homes & Communities Agency

Figure 3 – Exploratory Hole Plan

Project No.: A083215

Date: September 2013



## Appendices



## **Appendix A – Report Conditions**



## **APPENDIX A - REPORT CONDITIONS**

### **GROUND INVESTIGATION**

This report is produced solely for the benefit of the Homes & Communities Agency and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a visual site inspection, reference to accessible referenced historical records, information supplied by those parties referenced in the text and preliminary discussions with local and Statutory Authorities. Some of the opinions are based on unconfirmed data and information and are presented as the best that can be obtained without further extensive research. Where ground contamination is suspected but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample. The possibility of the presence of contaminants, perhaps in higher concentrations, elsewhere on the site cannot be discounted.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, being subject to risk analysis, we are unable to give categoric assurances that they will be accepted by Authorities or Funds etc. without question as such bodies often have unpublished, more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to WYGE. In time improved practices or amended legislation may necessitate a re-assessment.

The assessment of ground conditions within this report is based upon the findings of the study undertaken. We have interpreted the ground conditions in between locations on the assumption that conditions do not vary significantly. However, no investigation can inspect each and every part of the site and therefore changes or variances in the physical and chemical site conditions as described in this report cannot be discounted.

The report is limited to those aspects of land contamination specifically reported on and is necessarily restricted and no liability is accepted for any other aspect especially concerning gradual or sudden pollution incidents. The opinions expressed cannot be absolute due to the limitations of time and resources imposed by the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites. If migrating pollution or contamination (past or present) exists further extensive research will be required before the effects can be better determined.



## **Appendix B – Environmental Database Report**



# Envirocheck<sup>®</sup> Report:

## Datasheet

### Order Details:

**Order Number:**

48456586\_1\_1

**Customer Reference:**

A083215 Plot 2

**National Grid Reference:**

387160, 399840

**Slice:**

A

**Site Area (Ha):**

9.96

**Search Buffer (m):**

1000

### Site Details:

Plot 2

Grimshaw Lane

Newton Heath

Manchester

### Client Details:

Ms K Ellis

WYG Environment Planning Transport Ltd

Quay West

Trafford Park Road

Salford Quays

Manchester

M17 1HH





Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	24
Hazardous Substances	36
Geological	37
Industrial Land Use	53
Sensitive Land Use	69
Data Currency	70
Data Suppliers	76
Useful Contacts	77

## 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 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 the attached 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 v47.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			12	7
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 5				2
Integrated Pollution Prevention And Control	pg 6		2		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6		5	9	5
Local Authority Pollution Prevention and Control Enforcements	pg 9				1
Nearest Surface Water Feature	pg 9		Yes		
Pollution Incidents to Controlled Waters	pg 9			1	8
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 10		1	1	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 12				2
Substantiated Pollution Incident Register	pg 13			2	1
Water Abstractions	pg 14		1	2	4 (*27)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 22	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 22	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				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
<b>Waste</b>					
BGS Recorded Landfill Sites	pg 24			1	
Historical Landfill Sites	pg 24		1	3	4
Integrated Pollution Control Registered Waste Sites	pg 25		1		
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 26		3	2	3
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 28		1		3
Registered Waste Transfer Sites	pg 30			1	4
Registered Waste Treatment or Disposal Sites	pg 32		2	1	2



## Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 36				3
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 36				1
Planning Hazardous Substance Consents	pg 36				2
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 37	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 37	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 47		2	2	2
BGS Urban Soil Chemistry	pg 48	Yes	Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 50	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 51	Yes	n/a	n/a	n/a
Mining Instability	pg 51	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 51	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 51	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 51	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 51	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 52	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 53		33	47	96
Fuel Station Entries	pg 68			1	1



## Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Sensitive Land Use</b>					
Areas of Adopted Green Belt	pg 69			1	
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 69			1	
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 69				2
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester 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: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Shooters Brook <b>Status: Varied under EPR 2010</b> Positional Accuracy: Located by supplier to within 10m	A10SW (W)	309	1	386620 399660
1	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester 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 <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 10m	A10SW (W)	309	1	386620 399660
1	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lord North/Clifton St, Manchester, Greater Manchester 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 <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 100m	A10SW (W)	309	1	386620 399660
2	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Briscoe Lane Cso, Philips Park, Manchester, Greater Manchester 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: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 100m	A7NW (SE)	394	1	387470 399340



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal 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 <b>Status: Consent revoked or revised: New Consent issued (Section 37(1))</b> Positional Accuracy: Located by supplier to within 100m	A7NW (SE)	397	1	387460 399330
2	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal 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 <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Manually corrected supplier location	A7NW (SE)	397	1	387460 399330
2	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - 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 <b>Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 &amp; 6)</b> Positional Accuracy: Located by supplier to within 100m	A7NW (SE)	417	1	387480 399320
2	<b>Discharge Consents</b> 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 <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	430	1	387490 399310



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	<b>Discharge Consents</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	430	1	387490 399310
3	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Pumping Station - 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	471	1	387750 399450
4	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 100m	A7NE (SE)	499	1	387490 399230
4	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	499	1	387490 399230



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - 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 <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 100m	A6NW (SW)	541	1	386520 399420
6	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal 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 <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	703	1	386830 399080
6	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Mill St @ -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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 100m	A6SE (S)	705	1	386850 399070
7	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016982626 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 2nd October 1998 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock <b>Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 &amp; 6)</b> Positional Accuracy: Manually corrected supplier location	A6SW (SW)	931	1	386670 398900





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewage Disposal Works - Water Company Location: Bradford Rd Gas Works Opposite Elm Street, Bradford, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0299 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 30th September 1994 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: River Medlock <b>Status: Revoked (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 100m	A6SW (SW)	931	1	386670 398900
8	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Lightbourne Rd, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01man0083 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 25th October 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Moston Brook <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 100m	A19SW (N)	943	1	387180 400960
9	<b>Discharge Consents</b> Operator: United Utilities Water Plc Property Type: Sewerage Network - Sewers - Water Company Location: Work 6/Work 5 Sewer Const, Manchester, Greater Manchester Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01MAN0321 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: River Irk <b>Status: Post National Rivers Authority Legislation where issue date &gt; 31/08/1989</b> Positional Accuracy: Located by supplier to within 100m	A9NW (W)	966	1	385910 399890
10	<b>Integrated Pollution Controls</b> Name: Degussa Ltd Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa Authority: Environment Agency, North West Region Permit Reference: BC9682 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Manually positioned to the address or location	A5NE (SW)	842	1	386176 399365
10	<b>Integrated Pollution Controls</b> Name: Degussa Ltd Location: Manox House, Coleshill Street, Manchester, Greater Manchester, M40 7aa Authority: Environment Agency, North West Region Permit Reference: AO1292 Dated: 31st January 1995 Process Type: IPC new application Description: 4.5 A (A) Inorganic Chemical processes within the Chemical Industry <b>Status: Authorisation superseded by a substantial or non substantial variationSuperseded</b> Positional Accuracy: Manually positioned to the address or location	A5NE (SW)	842	1	386176 399365



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<b>Integrated Pollution Prevention And Control</b> Name: Princes Ltd Location: Princes Soft Drinks Division (Uk), 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 <b>Status: Superseded By Variation</b> 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	A10SW (W)	228	1	386668 399739
11	<b>Integrated Pollution Prevention And Control</b> Name: Princes Ltd Location: Princes Soft Drinks, 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 <b>Status: Effective</b> 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	A10SW (W)	241	1	386660 399724
12	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Permitted</b> Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	122	2	386996 400044
12	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Permitted</b> Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	122	2	386996 400044
13	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Permitted</b> Positional Accuracy: Manually positioned to the address or location	A10NE (N)	134	2	387122 400084
14	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorised</b> Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	141	2	387069 400057



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	142	2	386887 400025
16	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A10SW (SW)	260	2	386737 399605
17	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Permitted</b> Positional Accuracy: Manually positioned to the address or location	A7NE (SE)	309	2	387491 399459
18	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	345	2	386831 399468
19	<b>Local Authority Pollution Prevention and Controls</b> Name: Manchester Cabins Ltd Location: Harden Works, Oldham Road, MANCHESTER, Lancashire, M40 8AG Authority: Manchester City Council, Environmental Health Department Permit Reference: 64/93 Dated: 14th January 1994 Process Type: Local Authority Air Pollution Control Description: PG6/29 Di-isocyanate processes <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A14SE (NW)	416	2	386819 400302
20	<b>Local Authority Pollution Prevention and Controls</b> 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: PG3/1Blending, packing, loading and use of bulk cement <b>Status: Authorised</b> Positional Accuracy: Manually positioned to the address or location	A9SE (W)	456	2	386419 399814
21	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	457	2	386776 399369



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	<b>Local Authority Pollution Prevention and Controls</b> Name: Olympia Furniture Ltd Location: Holt Street, Off Oldham Road, Newton Heath, Manchester, Lancashire, M10 9ax Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/67/94 Dated: 1st February 1995 Process Type: Local Authority Air Pollution Control Description: PG6/32 Adhesive coating <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	480	2	386780 400355
23	<b>Local Authority Pollution Prevention and Controls</b> Name: Tcs - Monsall Location: 571 Oldham Road, Newton Heath, MANCHESTER, Lancashire, M40 5AF Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/PFS/RM/023/06 Dated: 22nd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station <b>Status: Authorised</b> Positional Accuracy: Automatically positioned to the address	A10NW (NW)	485	2	386495 400145
24	<b>Local Authority Pollution Prevention and Controls</b> Name: Sapphire Garage Ltd Location: Unit 1-3 Quantum Trading Park, Monsall Road, Manchester, M40 8fx Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/01/10/RM Dated: 8th March 2010 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles <b>Status: Permitted</b> Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	489	2	386641 400277
25	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorised</b> Positional Accuracy: Manually positioned to the address or location	A16SW (NE)	734	2	388016 400228
26	<b>Local Authority Pollution Prevention and Controls</b> Name: Duo Plastics Ltd Location: Vickers Street, Manchester, Lancashire, M10 8fa Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/B/21/05/AW Dated: 21st June 1993 Process Type: Local Authority Air Pollution Control Description: PG6/17 Printing of flexible packaging <b>Status: Authorised</b> Positional Accuracy: Located by supplier to within 10m	A9SE (W)	762	2	386171 399545
27	<b>Local Authority Pollution Prevention and Controls</b> Name: Quickmix Concrete Co Ltd Location: Dean Lane, Manchester, Lancashire, M10 0ad Authority: Manchester City Council, Environmental Health Department Permit Reference: PPC/21/92 Dated: 17th July 1992 Process Type: Local Authority Air Pollution Control Description: PG3/10 China and ball clay <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A15NE (NE)	857	2	387701 400759
28	<b>Local Authority Pollution Prevention and Controls</b> 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 <b>Status: Authorisation revokedRevoked</b> Positional Accuracy: Located by supplier to within 10m	A3NE (S)	964	2	387499 398736



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<b>Local Authority Pollution Prevention and Controls</b> Name: Moston Service Station Location: Lightbowne Road, Moston, MANCHESTER, Lancashire, M10 9BU Authority: Manchester City Council, Environmental Health Department Permit Reference: Pfs/9/98 Dated: 22nd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station <b>Status: Authorisation revoked</b> Positional Accuracy: Located by supplier to within 10m	A19SW (N)	970	2	387193 400988
30	<b>Local Authority Pollution Prevention and Control Enforcements</b> Location: Vickers Street, Manchester, Lancashire, M40 8pu Type: Air Pollution Control Enforcement Notice Reference: 42/93 Date Issued: 24th December 1996 Enforcement Date: Not Supplied Details: Empty Containers Often Stored Without Lids Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	764	2	386179 399519
	<b>Nearest Surface Water Feature</b>	A10NE (W)	97	-	386850 399950
31	<b>Pollution Incidents to Controlled Waters</b> 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	A7NW (S)	272	1	387200 399400
32	<b>Pollution Incidents to Controlled Waters</b> Property Type: Manufacturing: Metal Fabrication Location: Nail 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	A7NE (SE)	559	1	387700 399300
33	<b>Pollution Incidents to Controlled Waters</b> 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	A15NW (N)	583	1	387200 400600
34	<b>Pollution Incidents to Controlled Waters</b> 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	A15SE (NE)	646	1	387700 400500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	<b>Pollution Incidents to Controlled Waters</b> 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	A6SW (SW)	734	1	386700 399100
36	<b>Pollution Incidents to Controlled Waters</b> 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	A8NW (SE)	782	1	388100 399400
37	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Greater Manchester Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Affected; None Pollution Found Incident Date: 20th September 1996 Incident Reference: 96612071 Catchment Area: Irk 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 (W)	888	1	386001 400001
38	<b>Pollution Incidents to Controlled Waters</b> 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	A12NE (E)	929	1	388300 400100
39	<b>Pollution Incidents to Controlled Waters</b> 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	A8SW (SE)	977	1	388000 399000
	<b>River Quality</b> 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	A10NE (NW)	54	1	387005 400024



## Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>River Quality</b> 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	A7NW (S)	496	1	387359 399183
	<b>River Quality</b> Name: Moston Bk GQA Grade: River Quality F Reach: Qsl At Hale Lane Failsworth To Irk Estimated Distance (km): 5.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A15NW (N)	825	1	387258 400845
	<b>River Quality</b> 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	A2NE (S)	926	1	387067 398759





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	<b>River Quality Chemistry Sampling Points</b> Name: Rochdale Canal Reach: Empress Processing To Ashton Canal Estimated Distance: 0.30 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: Not Supplied Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A9SE (W)	595	1	386363 399530





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
40	<b>River Quality Chemistry Sampling Points</b> Name: Rochdale Canal Reach: Qsl At Summit To Empress Processing Estimated Distance: 27.60 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade C - Fairly Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A9SE (W)	595	1	386363 399530
41	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - North West Region, South Area Incident Date: 14th May 2004 Incident Reference: 237969 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals : Other Organic Wastes	A10NW (W)	385	1	386517 399982
42	<b>Substantiated Pollution Incident Register</b> 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	A7NE (SE)	403	1	387592 399415



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	<b>Substantiated Pollution Incident Register</b> 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	A7NE (SE)	510	1	387500 399223
44	<b>Water Abstractions</b> 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	A10NE (NW)	115	1	386901 400001
45	<b>Water Abstractions</b> 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	A10SW (W)	329	1	386550 399790
45	<b>Water Abstractions</b> 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	A10SW (W)	329	1	386550 399790
46	<b>Water Abstractions</b> 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	A6SW (SW)	696	1	386800 399100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	<b>Water Abstractions</b> 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	A14NE (N)	861	1	386900 400800
48	<b>Water Abstractions</b> 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	A2NE (S)	935	1	386900 398800
48	<b>Water Abstractions</b> 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	A2NE (S)	940	1	386900 398795
	<b>Water Abstractions</b> 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	A3SE (S)	1315	1	387600 398400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> 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	A3SE (S)	1319	1	387600 398395
	<b>Water Abstractions</b> 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	A3SE (SE)	1381	1	387800 398400
	<b>Water Abstractions</b> 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	A3SE (SE)	1386	1	387800 398395
	<b>Water Abstractions</b> 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	A1NW (SW)	1417	1	385900 398800



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> 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	A1NW (SW)	1421	1	385900 398795
	<b>Water Abstractions</b> 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	A4SW (SE)	1424	1	387900 398400
	<b>Water Abstractions</b> 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	A4SW (SE)	1425	1	387860 398379
	<b>Water Abstractions</b> 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	A4SW (SE)	1429	1	387859 398375



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> 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	A4SW (SE)	1429	1	387900 398395
	<b>Water Abstractions</b> 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	A4SW (SE)	1593	1	388027 398277
	<b>Water Abstractions</b> 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	A4SW (SE)	1610	1	388100 398300
	<b>Water Abstractions</b> 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	A4SW (SE)	1614	1	388100 398295



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> 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	(S)	1631	1	387700 398100
	<b>Water Abstractions</b> 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	(S)	1631	1	387700 398100
	<b>Water Abstractions</b> 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 (SE)	1648	1	388000 398200
	<b>Water Abstractions</b> 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 (SE)	1648	1	388000 398200





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> 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	(S)	1691	1	387681 398032
	<b>Water Abstractions</b> 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	(S)	1691	1	387681 398032
	<b>Water Abstractions</b> 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	(S)	1691	1	387681 398032
	<b>Water Abstractions</b> 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	(E)	1703	1	389100 399500





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: City Of Manchester Licence Number: 2569005038 Permit Version: Not Supplied Location: River Irk, Collyhurst, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 546 Yearly Rate (m3): 93557 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	(W)	1748	1	385300 400600
	<b>Water Abstractions</b> Operator: Packaging Products (Coatings) Ltd Licence Number: 2569005015 Permit Version: 102 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 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: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th February 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1892	1	385000 400100
	<b>Water Abstractions</b> Operator: Packaging Products Ltd Licence Number: 2569005015 Permit Version: 101 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 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: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Premises At Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1892	1	385000 400100
	<b>Water Abstractions</b> Operator: Packaging Products Ltd Licence Number: 2569005015 Permit Version: 100 Location: B/Hole, Little Green Works, Collyhurst Rd, Manchester 10 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: Groundwater Daily Rate (m3): 1637 Yearly Rate (m3): 438689 Details: Premises At Little Green Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st February 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1892	1	385001 400101



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: City Of Manchester Licence Number: 2569005031 Permit Version: Not Supplied Location: Borehole, Collyhurst, MANCHESTER Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 364 Yearly Rate (m3): 124742 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	(NW)	1930	1	385200 400800
	<b>Water Abstractions</b> 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)	1947	1	387800 397800
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A11NW (N)	0	1	387160 400000
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A11SW (NE)	0	1	387160 399839
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A10SE (SW)	0	1	387115 399808
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 17 Derbyshire & North Staffordshire Scale: 1:100,000	A11SW (NE)	0	1	387160 399839
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A11NW (N)	0	1	387160 400000
	<b>Bedrock Aquifer Designations</b> Aquifer Desination: Secondary Aquifer - A	A10SE (SW)	0	3	387119 399810
	<b>Bedrock Aquifer Designations</b> Aquifer Desination: Principal Aquifer	A11SW (NE)	0	3	387160 399839
	<b>Bedrock Aquifer Designations</b> Aquifer Desination: Principal Aquifer	A11NW (N)	0	3	387160 400001



## Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A11NW (N)	0	3	387160 400001
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A11SW (NE)	0	3	387160 399839
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	<b>BGS Recorded Landfill Sites</b> 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	A11SE (SE)	366	3	387676 399525
50	<b>Historical Landfill Sites</b> 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: EAHL16455 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: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9171 BGS Ref: Not Supplied Other Ref: F008, RD/LIC/013/76	A11NW (NE)	176	1	387462 400049
51	<b>Historical Landfill Sites</b> 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: EAHL16480 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: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9729 BGS Ref: Not Supplied Other Ref: RD/LIC/045/76,GDO F001	A11SE (SE)	358	1	387661 399522
52	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Clayton, Manchester, Greater Manchester Name: Clayton Vale Operator Location: Stuart Street Power Station Boundary Accuracy: As Supplied Provider Reference: EAHL32041 First Input Date: 31st December 1901 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 2777 Other Ref: Not Supplied	A11SE (SE)	366	1	387676 399525
53	<b>Historical Landfill Sites</b> 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: EAHL16476 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: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9178 BGS Ref: Not Supplied Other Ref: GDO F001,RD/LIC/045/76	A11SE (SE)	393	1	387734 399550



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<b>Historical Landfill Sites</b> 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: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9286 BGS Ref: Not Supplied Other Ref: RD/LIC/180/79, GDO F058, 0381	A6NW (SW)	598	1	386754 399225
55	<b>Historical Landfill Sites</b> Licence Holder: Manchester City Council Location: Northampton Road, Harpurhey, Manchester, Greater Manchester Name: Moston Brook Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16424 First Input Date: 1st May 1974 Last Input Date: 1st December 1977 Specified Waste: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: 4200/9660 BGS Ref: Not Supplied Other Ref: F006	A14NW (NW)	791	1	386732 400671
56	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Church Lane, Harpurhey, Manchester, Greater Manchester Name: Land adjacent to Church Lane North Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16416 First Input Date: Not Supplied Last Input Date: 31st December 1977 Specified Waste: Deposited Waste included Commercial and Household Waste Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F007	A18SE (N)	894	1	387142 400905
57	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Greater Manchester Name: New Viaduct Street Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD16497 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: Not Supplied Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: F045	A5SE (SW)	961	1	386423 398976
58	<b>Integrated Pollution Control Registered Waste Sites</b> 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: <b>Application has met the requirements for authorisation (but not yet authorised)Not Yet Authorised</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	1	387365 399456



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 102576 Location: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Gt Manchester, M40 2XG Operator Name: Wright Waste Solutions Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: HCl Waste TS + treatment <b>Licence Status: Modified</b> Issued: 8th September 2011 Last Modified: 7th March 2013 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10SE (SW)	149	1	387038 399593
60	<b>Licensed Waste Management Facilities (Locations)</b> 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 <b>Licence Status: Issued</b> Issued: 12th March 1997 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (NW)	170	1	386800 400000
61	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 53488 Location: Land/premises At, Bower Street, Newton Heath, Manchester, M40 2AF Operator Name: Manchester Drums Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Material Recycling Treatment Facilities <b>Licence Status: Modified</b> Issued: 12th August 1998 Last Modified: 1st November 2001 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	204	1	386884 400098
62	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 53767 Location: Land At The Junction Of, Cheetham Street & Goodier Street, Oldham Road, Manchester, M40 2BP Operator Name: European Metal Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) <b>Licence Status: Transferred</b> Issued: 12th October 1993 Last Modified: 4th January 2005 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (W)	433	1	386465 399982



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 50355 Location: Land/premises At, Irlam Street, Off Irlam Road, Manchester, M40 2BP Operator Name: European Metal Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Metal Recycling Sites (Mixed) <b>Licence Status: Modified</b> Issued: 4th January 2005 Last Modified: 11th December 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (W)	456	1	386446 399995
63	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 53518 Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, M40 5AE Operator Name: Anthony & Darren James Benson Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations <b>Licence Status: Transferred</b> Issued: 9th February 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (W)	681	1	386258 400130
64	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 103632 Location: 498 Oldham Road, Miles Platting, Manchester, Lancs, M40 5AA Operator Name: Anthony O' Connor And Sons Ltd Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Inert & Excavation WTS with treatment <b>Licence Status: Issued</b> Issued: 23rd December 2011 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (W)	705	1	386210 400075
65	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 53890 Location: 13 Warden Lane, Manchester, M40 2FH Operator Name: Bolger K Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Household, Commercial And Industrial Transfer Stations <b>Licence Status: Issued</b> Issued: 10th July 1991 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (NE)	810	1	387698 400706
	<b>Local Authority Landfill Coverage</b> Name: Manchester City Council - Had landfill data but passed it to the relevant environment agency		0	5	387160 399839



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	<b>Registered Landfill Sites</b> 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	A11NW (NE)	159	1	387448 400038
67	<b>Registered Landfill Sites</b> 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	A8NW (E)	647	1	388000 399500





Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	<b>Registered Landfill Sites</b> 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 Prohibited Waste: Stone, Brick, Concrete, Slate 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	A6SW (SW)	734	1	386700 399100
69	<b>Registered Landfill Sites</b> 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	A6SW (SW)	827	1	386700 399000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	<b>Registered Waste Transfer Sites</b> Licence Holder: James Moores Ltd Licence Reference: 00727/91 Site Location: Oldham Road, Miles Platting, Manchester, Greater Manchester Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer 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: Licence Status: Record supersededSuperseded Dated: 1st December 1991 Preceded By: Not Given Licence: Superseded By: 00727/M01/T01 Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste Bonded Asbestos Sheet/Piping Contaminated Waste/Soils Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Household Waste As Part Of Skip Waste Max.Storage Max.Storage Of Reclaimed Mat'L Max.Waste Permitted By Licence-Stated Plaster Prohibited Waste Asbestos Ash, Clinker Boiler Scale, Slag Clinical Wastes Cosmetic Products Explosive Waste Foundry Sand Gas Under Pressure Incinerator Residues Liquid/Sludge Wastes Malodorous Waste Pretreated Waste Not Permit By Lic Sewage Soap, Detergents Special Wastes Veg. Food/Proc, Animal Carcass Violently Reactive Waste Waste In Drums Waste N.O.S.	A9NE (W)	441	1	386460 399990
71	<b>Registered Waste Transfer Sites</b> Licence Holder: B A Hibbert Licence Reference: 00774/M01/T01 Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer 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 1997 Preceded By: 00774 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No Max.Storage In Licence Max.Waste Permitted By Licence Prohibited Waste Asbestos Explosive Waste Liquid Wastes Pressurised Wastes Or Containers Sludge Wastes Spec.Waste (Epa'90:S62/1996 Regs) Waste In Drums Waste N.O.S. Waste React Violently With Water	A9NE (W)	603	1	386330 400100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	<b>Registered Waste Transfer Sites</b> Licence Holder: T J Mc Ivor Licence Reference: 00774 Site Location: Old Leaches Yard, Beckford Street, Miles Platting, Manchester, Greater Manchester, M40 5ae Operator Location: 63 Brierley Avenue, FAILSWORTH, Greater Manchester, M35 0RF Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 1st February 1993 Preceded By: Not Given Licence: Superseded By: 00774/M01/T01 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.Waste = No High-Dens/Hard/Bonded/Cement Asbestos Max.Storage In Licence Max.Storage Of Reclaimed Waste Max.Waste Permitted By Licence Prohibited Waste: Explosive Waste Gmwda Group 5 - Chemical/Toxic Waste Liquid/Sludge Wastes Special Wastes Waste In Drums Waste In Pressurised Cont'Rs Waste N.O.S. - Pretreated Or Not Waste Violently Reactive With Water	A9NE (W)	603	1	386330 400100
72	<b>Registered Waste Transfer Sites</b> Licence Holder: K Bolger - Manchester Waste Recovery Licence Reference: 00613 Site Location: 13 Warden Lane, Newton Heath, Manchester, Greater Manchester, M40 2fh Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 1st July 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Asbestos Inherently Mixed In Other Was Electrical Fitting/Fixture/Appliances Empty Used Containers General Commercial Rubbish General Ind. Rubbish Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Decomp./Sol.- But Only Max.Waste Permitted By Licence- Stated Plasterboard/Plaster Scrap Machinery - Ferrous/Non-Ferrous Scrap Rubber (Including Tyres) Prohibited Waste: All Other Waste N.O.S. Explosive Waste Liquid/Sludge Wastes Odiferous Wastes Violently Reactive Wastes Waste In Drums Waste In Pressurised Cont'Rs	A15NE (NE)	814	1	387700 400710



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	<b>Registered Waste Transfer Sites</b> Licence Holder: Park Pit Landfill Ltd Licence Reference: 00973 Site Location: Queens Road / Oldham Road, Miles Platting, Manchester, Greater Manchester Operator Location: PO Box 54, Rydings Road, Wardle, ROCHDALE, Lancashire, OL12 9PS Authority: Environment Agency - North West Region, South Area Site Category: Transfer 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: Licence Status: Licence has completion certificateSurrendered Dated: 1st October 1994 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: Asbestos Sheet/Piping - Comp./Bonded Dyestuffs Waste Fats And Greases Gmwda Group 1 - Non/V.Slow Decomp.Wast Gmwda Group 2 - Slow Decomp./Slight So Gmwda Group 3 - Most Items Max.Waste Permitted By Licence Mineral Oils Paint/Varnish Polymeric Material, Products/Scrap Tar, Pitch, Bitumen, Asphalts Vegetable Oils Prohibited Waste: Waste N.O.S.	A9NW (W)	817	1	386060 399900
74	<b>Registered Waste Treatment or Disposal Sites</b> 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.	A10NW (NW)	171	1	386801 400001



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>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 &lt; 2 Litre Liq Or 10 Litre Solid Residues Which May Include  Empty Used Packagescontainers With &lt; 1%Vol Residues Which May Include  Maximum Waste In Working Plan  Maximum Waste Permitted By Licence  Packagescontainers/Ibcs With &lt; 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</p>	A10NE (NW)	208	1	386880 400100



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
76	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: The Sheppard Group Ltd  Licence Reference: 00727/M01/T01  Site Location: E M R Moores Division, Irlam Street, Miles Platting, Manchester, Greater Manchester, M40 2bp  Operator Location: Alexandra Building, Alexandra Dock, Bootle, Liverpool, Merseyside  Authority: Environment Agency - North West Region, South Area  Site Category: Scrapyard - with Transfer Station  Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)  Waste Source: No known restriction on source of waste  Restrictions:  Licence Status: Operational as far as is knownOperational  Dated: 12th October 1993  Preceded By: 00943  Licence:  Superseded By: Not Given  Licence:  Positional Accuracy: Manually positioned to the address or location  Boundary Quality: Not Supplied  Authorised Waste  Brake Fluid/Antifreeze  Cadmium &amp; Cpds  Carbides And Acetylides  Comp.Bonded Asbestos Sheet/Piping  Contaminated Soil - Class C  Copper &amp; Cpds  Electrical Goods/Tvs/Whiteware  Fuel Oil  Gmwda Group 1 - Non/V.Slow Decomp.Wast  Gmwda Group 2 - Slow Decomp./Slight So  Gmwda Group 3 - Only As Follows  Gmwda Group 5 - Only As Follows  Household Waste  Inorganic Acids  Iron &amp; Cpds  Kerosene And Derv.  Lead &amp; Cpds  Max.Waste Permitted By Licence  Mineral Oils  Organic Acids + Related Cmpds  Organo-Metallic Cmpds  Phenols, Analogues/Derivatives  Plaster  Plasterboard  Scrap Metal  Scrap Rubber (Including Tyres)  Silver &amp; Cpds  Tin &amp; Cpds  Titanium &amp; Cpds  Zinc &amp; Cpds  Prohibited Waste  Explosive Waste  Liquid Wastes  Mineral Processing Wastes  Pressurised Cont'Rs/Waste Therein  Slag, Boiler/Flue Cleanings  Sludge Wastes  Violently Reactive Wastes  Waste In Drums  Waste N.O.S.</p>	A9NE (W)	444	1	386460 400000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	<b>Registered Waste Treatment or Disposal Sites</b> Licence Holder: Manchester Cabins Ltd Licence Reference: 00863/92 Site Location: Albion Works, Drewett Street, Miles Platting, MANCHESTER, Greater Manchester, M10 8AR Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st July 1993 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: Max.Storage Reclaimed Materials Scrap Rubber (Including Tyres) Prohibited Waste: Explosive Waste Liquid Wastes Malodorous Waste Pressurized Containers/Waste Therein Sludge Wastes Special Wastes Violently Reactive Wastes Waste In Drums Waste N.O.S.	A9SE (W)	542	1	386340 399750
78	<b>Registered Waste Treatment or Disposal Sites</b> Licence Holder: Degussa Ltd Manox Division Licence Reference: 00716/91 Site Location: Coleshill Street, Miles Platting, MANCHESTER, Greater Manchester, M10 7AA Operator Location: As Site Address Authority: Environment Agency - North West Region, South Area Site Category: Treatment Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site now IPC authorisedAuthorised Dated: 1st September 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Barium & Cpds Calcium & Cpds Cyanides - All Types Inorganic Acids Ph < 4.0 Max.Waste Permitted By Licence Potassium & Cpds Sodium & Cpds Prohibited Waste: Explosive Waste Malodorous Waste Pressurised Waste Violently Reactive Wastes Waste N.O.S.	A5NE (SW)	872	1	386150 399350



## Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	<b>Control of Major Accident Hazards Sites (COMAH)</b> Name: Transco Plc Location: Bradford Road Holder, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL Reference: 1029780 Type: Upper Tier <b>Status: Active</b> Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	647	4	386676 399205
80	<b>Control of Major Accident Hazards Sites (COMAH)</b> Name: Degussa Limited Location: Manox House, Coleshill Street, Manchester, M40 7AA Reference: 17545 Type: Upper Tier <b>Status: Record Ceased To Be Supplied Under COMAH Regulations</b> Positional Accuracy: Automatically positioned to the address	A5NE (SW)	832	4	386181 399375
81	<b>Control of Major Accident Hazards Sites (COMAH)</b> Name: GOLDEN LTD Location: Dean Lane, Newton Heath, MANCHESTER, Greater Manchester, M40 3AA Reference: Not Supplied Type: Lower Tier <b>Status: Record Ceased To Be Supplied Under COMAH Regulations</b> Positional Accuracy: Manually positioned to the road within the address or location	A16NW (NE)	984	4	387853 400810
82	<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Name: British Gas (North West) PLC Location: Bradford Road Holder Station, Bradford Road, Miles Platting, MANCHESTER, Greater Manchester, M10 7BL <b>Status: Record Ceased To Be Supplied Under NIHHS Regulations (1982)</b> Positional Accuracy: Unknown	A6NW (SW)	669	4	386672 399183
83	<b>Planning Hazardous Substance Consents</b> 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: Liquefied extremely flammable gas (including LPG) and natural gas (whether Substance: liquefied or not) Maximum Quantity: 0 Application date: 11th May 2000 <b>Decision: Deemed Consent Granted</b> Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	647	5	386680 399203
83	<b>Planning Hazardous Substance Consents</b> 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: Liquefied extremely flammable gas (including LPG) and natural gas (whether Substance: liquefied or not) Maximum Quantity: 453.2 Application date: 24th September 1992 <b>Decision: Deemed Consent Granted</b> Positional Accuracy: Manually positioned to the address or location	A6NW (SW)	665	5	386666 399189





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	<b>BGS 1:625,000 Solid Geology</b> Description: Upper Westphalian (including Pennant Measures)	A10SE (SW)	0	3	387020 399703
	<b>BGS 1:625,000 Solid Geology</b> Description: Permian and Triassic sandstones, undifferentiated, including Bunter and Keuper	A11SW (NE)	0	3	387160 399839
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (W)	0	6	387000 399839
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10NE (W)	0	6	387000 399883
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (SW)	0	6	387119 399810
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11SW (NE)	0	6	387160 399839
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A10SE (SW)	0	6	387125 399801



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	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (N)	0	6	387160 400000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A10NE (NW)	54	6	387000 399976
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (NE)	56	6	387338 400024
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (NE)	61	6	387385 399962
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (E)	65	6	387467 399876
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NW (NE)	71	6	387363 400018



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	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A10NE (NW)	78	6	387000 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A10NE (NW)	79	6	386978 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NW (NE)	80	6	387379 400000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (E)	82	6	387454 399921
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NW (N)	103	6	387265 400129
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11SE (E)	124	6	387513 399705



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	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A11NW (NE)	125	6	387433 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A11NW (NE)	130	6	387429 400015
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A11NW (NE)	150	6	387463 400000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A10NE (NW)	159	6	386820 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A11SE (SE)	256	6	387547 399563
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A11NE (E)	269	6	387608 400000



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	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A6NE (SW)	277	6	386914 399468
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A10NE (NW)	283	6	386829 400157
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11SE (E)	298	6	387720 399816
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A6NE (S)	332	6	387000 399411
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15SW (N)	354	6	387331 400369
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SE)	419	6	387633 399424



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	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SE)	437	6	387615 399390
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (N)	489	6	387000 400430
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (E)	578	6	388000 399839
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SE)	579	6	387653 399243
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A14NE (N)	592	6	387000 400549
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (E)	596	6	388000 399650



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	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SE)	603	6	387717 399258
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NW (E)	613	6	388000 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SW (E)	621	6	388000 399565
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (N)	642	6	386946 400577
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SW (S)	667	6	387160 399000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (SE)	688	6	388000 399416



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	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SW (S)	701	6	387466 399000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A6SE (S)	713	6	387000 399000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (SE)	746	6	388000 399317
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (W)	782	6	386109 400000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SE)	798	6	387687 399000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SE)	805	6	387699 399000





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	<b>BGS Estimated Soil Chemistry</b> 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: 300 - 600 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SE)	830	6	387689 398963
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (SE)	847	6	388022 399191
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (W)	875	6	386000 399839
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (W)	889	6	386000 400000
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SW (N)	903	6	387187 400920
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: RuSoilExAs Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (W)	905	6	386000 400072



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	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SW (N)	906	6	387186 400923
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SE)	922	6	387690 398857
	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (SE)	977	6	388000 399000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SW (N)	979	6	387170 401000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (SE)	983	6	387955 398961
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SW (N)	984	6	387160 401000



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	<b>BGS Estimated Soil Chemistry</b> 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: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	991	6	387113 401000
	<b>BGS Estimated Soil Chemistry</b> 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: 150 - 300 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A8SW (SE)	991	6	388000 398984
84	<b>BGS Recorded Mineral Sites</b> Site Name: Newton Brick Works Location: , Newton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95120 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Permian Geology: Manchester Marls Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A15SW (N)	175	3	387280 400195
85	<b>BGS Recorded Mineral Sites</b> Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95126 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NW (SE)	222	3	387359 399474
86	<b>BGS Recorded Mineral Sites</b> Site Name: Philips Park Brick Works Location: , Clayton, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95125 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	273	3	386930 399504
87	<b>BGS Recorded Mineral Sites</b> Site Name: Miles Platting Brick Works Location: , Miles Platting, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95121 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	500	3	386605 399404



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<b>BGS Recorded Mineral Sites</b> Site Name: Mitchell Street Brickworks Location: , Newton Heath, Manchester Source: British Geological Survey, National Geoscience Information Service Reference: 15091 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A15SE (NE)	583	3	387725 400380
89	<b>BGS Recorded Mineral Sites</b> Site Name: Cheetham Fold Clay Pit Location: , Cheetham Fold, Manchester, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 95124 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Till, Devensian Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12NE (E)	766	3	388174 399945
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 387070, 399770 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 47.00 mg/kg Concentration: Cadmium Measured 1.40 mg/kg Concentration: Chromium Measured 205.00 mg/kg Concentration: Lead Measured 302.00 mg/kg Concentration: Nickel Measured 52.00 mg/kg Concentration:	A10SE (SW)	0	3	387070 399770
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 386860, 399870 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 41.00 mg/kg Concentration: Cadmium Measured 1.80 mg/kg Concentration: Chromium Measured 96.00 mg/kg Concentration: Lead Measured 284.00 mg/kg Concentration: Nickel Measured 42.00 mg/kg Concentration:	A10NE (W)	29	3	386860 399870
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 387740, 399600 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 54.00 mg/kg Concentration: Cadmium Measured 1.90 mg/kg Concentration: Chromium Measured 93.00 mg/kg Concentration: Lead Measured 465.00 mg/kg Concentration: Nickel Measured 49.00 mg/kg Concentration:	A11SE (E)	370	3	387740 399600



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 387220, 399210 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 40.00 mg/kg Concentration: Cadmium Measured 1.00 mg/kg Concentration: Chromium Measured 71.00 mg/kg Concentration: Lead Measured 412.00 mg/kg Concentration: Nickel Measured 31.00 mg/kg Concentration:	A7NW (S)	458	3	387220 399210
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 386750, 399310 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 20.00 mg/kg Concentration: Cadmium Measured 1.10 mg/kg Concentration: Chromium Measured 68.00 mg/kg Concentration: Lead Measured 282.00 mg/kg Concentration: Nickel Measured 24.00 mg/kg Concentration:	A6NW (SW)	521	3	386750 399310
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 387720, 399180 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 80.00 mg/kg Concentration: Cadmium Measured 1.00 mg/kg Concentration: Chromium Measured 87.00 mg/kg Concentration: Lead Measured 426.00 mg/kg Concentration: Nickel Measured 57.00 mg/kg Concentration:	A7NE (SE)	669	3	387720 399180
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 386210, 399650 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 16.00 mg/kg Concentration: Cadmium Measured 0.30 mg/kg Concentration: Chromium Measured 70.00 mg/kg Concentration: Lead Measured 120.00 mg/kg Concentration: Nickel Measured 23.00 mg/kg Concentration:	A9SE (W)	691	3	386210 399650
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 388260, 399690 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured 22.00 mg/kg Concentration: Cadmium Measured 3.60 mg/kg Concentration: Chromium Measured 92.00 mg/kg Concentration: Lead Measured 127.00 mg/kg Concentration: Nickel Measured 37.00 mg/kg Concentration:	A12SE (E)	844	3	388260 399690



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 386260, 399250 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 60.00 mg/kg Cadmium Measured Concentration: 1.20 mg/kg Chromium Measured Concentration: 94.00 mg/kg Lead Measured Concentration: 544.00 mg/kg Nickel Measured Concentration: 47.00 mg/kg	A5NE (SW)	845	3	386260 399250
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 388180, 399200 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 139.00 mg/kg Cadmium Measured Concentration: 2.70 mg/kg Chromium Measured Concentration: 152.00 mg/kg Lead Measured Concentration: 951.00 mg/kg Nickel Measured Concentration: 95.00 mg/kg	A8NE (SE)	960	3	388180 399200
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 387330, 398700 Soil Sample Type: Topsoil Sample Area: Manchester Arsenic Measured Concentration: 26.00 mg/kg Cadmium Measured Concentration: 1.20 mg/kg Chromium Measured Concentration: 80.00 mg/kg Lead Measured Concentration: 179.00 mg/kg Nickel Measured Concentration: 33.00 mg/kg	A3NW (S)	971	3	387330 398700
	<b>BGS Urban Soil Chemistry Averages</b> 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: 21.00 mg/kg Lead Average Concentration: 270.00 mg/kg Lead Maximum Concentration: 2687.00 mg/kg Nickel Minimum Concentration: 6.00 mg/kg Nickel Average Concentration: 32.00 mg/kg Nickel Maximum Concentration: 137.00 mg/kg	A11SW (NE)	0	3	387160 399839



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Coal Mining Affected Areas</b> 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.	A11SW (NE)	0	7	387160 399839
	<b>Mining Instability</b> Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A11SW (NE)	0	-	387160 399839
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001
	<b>Potential for Ground Dissolution Stability Hazards</b> No Hazard				
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	57	3	387338 400025
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	62	3	387386 399963
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	151	3	387463 400001
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	3	387375 399876
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001



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	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11SW (NE)	0	3	387160 399839
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in an intermediate probability radon area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11NW (E)	0	3	387375 399876
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A11NW (N)	0	3	387160 400001





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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	<b>Contemporary Trade Directory Entries</b> Name: Tas Tyres Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Tyre Dealers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A11SW (E)	47	-	387468 399782
90	<b>Contemporary Trade Directory Entries</b> Name: Decorative Designs Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Stained Glass Designers & Producers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A11SW (E)	47	-	387468 399782
90	<b>Contemporary Trade Directory Entries</b> Name: James Lucas Ltd Location: 239-241, Briscoe Lane, Manchester, M40 2ST Classification: Bacon & Ham Curers & Merchants <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A11SW (E)	47	-	387468 399782
91	<b>Contemporary Trade Directory Entries</b> Name: Medic Bath Co Ltd Location: Ashfield Works, Briscoe Lane, Manchester, M40 2XG Classification: Disability Equipment - Manufacturers & Suppliers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A10SE (S)	177	-	387057 399555
92	<b>Contemporary Trade Directory Entries</b> Name: Alloy Bodies Ltd Location: Jubilee Works, Clifton Street, Miles Platting, Manchester, M40 8HN Classification: Commercial Vehicle Bodybuilders & Repairers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A10SW (W)	182	-	386754 399692
93	<b>Contemporary Trade Directory Entries</b> Name: Nuglaze Panel Location: Bower St, Manchester, Lancashire, M40 2BH Classification: PVC-U Products - Manufacturers & Suppliers <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A10NE (NW)	190	-	386893 400087
93	<b>Contemporary Trade Directory Entries</b> Name: S B Motorbodies (Mc) Ltd Location: 2a Bower Street, Manchester, Lancashire, M40 2AF Classification: Garage Services <b>Status: Active</b> Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	196	-	386879 400086
93	<b>Contemporary Trade Directory Entries</b> Name: Manchester Drums Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks <b>Status: Active</b> Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (NW)	235	-	386884 400133
93	<b>Contemporary Trade Directory Entries</b> Name: Drummer Boy Trading Co Ltd Location: Bower Street, Newton Heath, Manchester, M40 2AF Classification: Drums, Kegs, Barrels & Casks <b>Status: Inactive</b> Positional Accuracy: Automatically positioned in the proximity of the address	A10NE (NW)	235	-	386884 400133
94	<b>Contemporary Trade Directory Entries</b> Name: Welding Engineers (Mersey) Ltd Location: Unit 2, Navigation Trading Estate, Bower Street, Newton Heath, Manchester, M40 2AR Classification: Door Manufacturers - Industrial <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A10NE (NW)	220	-	386977 400142
95	<b>Contemporary Trade Directory Entries</b> Name: Coldchase Foods Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XT Classification: Meat - Wholesale <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A7NW (S)	226	-	387238 399442



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	<b>Contemporary Trade Directory Entries</b> Name: Riverpark Press Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Printers <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A7NW (S)	247	-	387281 399422
96	<b>Contemporary Trade Directory Entries</b> Name: J C S Pallets Location: Lord North Street, Manchester, M40 8AD Classification: Pallets, Crates & Packing Cases <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A10SW (W)	228	-	386668 399739
96	<b>Contemporary Trade Directory Entries</b> Name: Princes Soft Drinks Location: Lord North Street, Manchester, M40 2HJ Classification: Soft Drinks - Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A10SW (W)	228	-	386668 399739
96	<b>Contemporary Trade Directory Entries</b> Name: Clynder Cables Ltd Location: 3, Lord North Street, MANCHESTER, M40 8AD Classification: Cable & Wire Equipment Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A10SW (W)	228	-	386668 399739
97	<b>Contemporary Trade Directory Entries</b> Name: Pennine Meats Location: Manchester Abattoir, Riverpark Ind Est, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A7NW (S)	231	-	387318 399446
97	<b>Contemporary Trade Directory Entries</b> Name: Anthony Burns Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XP Classification: Meat - Wholesale <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Choice Game Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Samuel Howarth Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Choice Game Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XR Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Kurpas Meats Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A7NW (SE)	240	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Harvey Ashworth (Manchester) Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XR Classification: Meat - Wholesale <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A7NW (SE)	240	-	387364 399456



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<b>Contemporary Trade Directory Entries</b> Name: Robert Edward Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Food Products - Manufacturers <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	240	-	387364 399456
97	<b>Contemporary Trade Directory Entries</b> Name: G R M Distribution Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Insulation Materials <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: T Ritchie C & E Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: United Cattle Products Ltd Location: Manchester Abattoir, Riverpark Road, Manchester, Lancashire, M40 2XS Classification: Meat - Wholesale <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Hbs (Uk) Cleaning Services Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Hanson Business Support Uk Ltd Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Northern Optical Location: Unit 8,9, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Optical Goods - Manufacturers <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	241	-	387365 399456
97	<b>Contemporary Trade Directory Entries</b> Name: Kosmo Services Location: Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Commercial Cleaning Services <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A7NW (SE)	241	-	387365 399456
98	<b>Contemporary Trade Directory Entries</b> Name: 151 Products Location: Block 1, Manchester Abattoir, Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Distribution Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A6NE (S)	232	-	387139 399462
98	<b>Contemporary Trade Directory Entries</b> Name: Hbs Uk Cleaning Services Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XP Classification: Commercial Cleaning Services <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	242	-	387128 399455
98	<b>Contemporary Trade Directory Entries</b> Name: Kurpas Meats Plc Location: Manchester Abattoir, Riverpark Road, Manchester, M40 2XS Classification: Meat - Wholesale <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	242	-	387128 399455
99	<b>Contemporary Trade Directory Entries</b> Name: K M H Printers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Printers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A10NW (W)	255	-	386695 400024



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	<b>Contemporary Trade Directory Entries</b> Name: North Manchester Commercials Ltd Location: Briscoe Lane, Manchester, M40 2NL Classification: Commercial Vehicle Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A6NE (SW)	278	-	386956 399488
100	<b>Contemporary Trade Directory Entries</b> Name: North Manchester Commercials Location: Briscoe Lane, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A6NE (SW)	278	-	386956 399488
100	<b>Contemporary Trade Directory Entries</b> Name: N N C Contracts Hire Ltd Location: Briscoe La, Manchester, Lancashire, M40 2NL Classification: Commercial Vehicle Bodybuilders & Repairers <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A6NE (SW)	314	-	386958 399448
101	<b>Contemporary Trade Directory Entries</b> Name: Azura Location: Chapter St, Manchester, M40 2AY Classification: Soft Furnishings - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A10NW (W)	294	-	386619 399985
102	<b>Contemporary Trade Directory Entries</b> Name: Asaka Computer Systems Location: Riverpark Rd, Manchester, Lancashire, M40 2XP Classification: Computer Manufacturers <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SE)	301	-	387352 399384
102	<b>Contemporary Trade Directory Entries</b> Name: David Audley Ltd Location: Manchester Abattoir, Riverpark Rd, Manchester, M40 2XT Classification: Pet Foods & Animal Feeds <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SE)	307	-	387369 399384
103	<b>Contemporary Trade Directory Entries</b> Name: Grace Motor Engineers Location: Chapter Street, Manchester, Lancashire, M40 2AY Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A10NW (W)	312	-	386573 399919
104	<b>Contemporary Trade Directory Entries</b> Name: Mont Blanc Location: Arkady, Unit 2 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services <b>Status: Active</b> Positional Accuracy: Manually positioned to the road within the address or location	A6NE (SW)	339	-	386928 399433
105	<b>Contemporary Trade Directory Entries</b> Name: Anglo European Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Steel Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A6NE (SW)	345	-	386831 399468
105	<b>Contemporary Trade Directory Entries</b> Name: Northern Butchers Hide Markets Ltd Location: 228, Briscoe Lane, Manchester, M40 2XG Classification: Leather Merchants & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A6NE (SW)	345	-	386831 399468
105	<b>Contemporary Trade Directory Entries</b> Name: Anglo European Location: 228 Briscoe La, Manchester, Lancashire, M40 2XG Classification: Steel Manufacturers <b>Status: Active</b> Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	345	-	386831 399467
106	<b>Contemporary Trade Directory Entries</b> Name: Ensign Location: Ensign Garage, Robert Street, Manchester, M40 2DX Classification: Garage Services <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	374	-	386792 400242



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	<b>Contemporary Trade Directory Entries</b> Name: Tyco Control Systems Ltd Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Automation Systems & Equipment <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A10NW (NW)	377	-	386679 400168
107	<b>Contemporary Trade Directory Entries</b> Name: Wormald Fire Systems Location: Wormald Park, Grimshaw Lane, Manchester, M40 2WL Classification: Firefighting Equipment <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A10NW (NW)	377	-	386679 400168
108	<b>Contemporary Trade Directory Entries</b> Name: Mrs Mops Location: 17, Elstree Avenue, Manchester, M40 2UL Classification: Cleaning Services - Domestic <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A11NE (E)	403	-	387819 399865
109	<b>Contemporary Trade Directory Entries</b> Name: Philips Park Cemetery Location: Hulme Hall La, Manchester, Lancashire, M40 8HE Classification: Cemeteries & Crematoria <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (SW)	411	-	386951 399346
110	<b>Contemporary Trade Directory Entries</b> Name: Nortons Hiab Services Ltd Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Road Haulage Services <b>Status:</b> Active Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	421	-	386464 399746
111	<b>Contemporary Trade Directory Entries</b> Name: Addax Products Location: 36, Irlam Street, Manchester, M40 2BW Classification: Stationery Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A10NW (W)	423	-	386490 400017
112	<b>Contemporary Trade Directory Entries</b> Name: Autodeutsch Location: Providence Works, Norton St, Miles Platting, Manchester, M40 8EH Classification: Garage Services <b>Status:</b> Active Positional Accuracy: Manually positioned to the address or location	A10SW (W)	428	-	386474 399686
113	<b>Contemporary Trade Directory Entries</b> Name: Fine Castings Ltd Location: 800, Oldham Road, Manchester, M40 2AB Classification: Fireplaces & Mantelpieces <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A10NW (NW)	432	-	386540 400115
114	<b>Contemporary Trade Directory Entries</b> Name: United Aluminium Ltd Location: Holt St, Manchester, M40 5AX Classification: Aluminium Fabricators <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	433	-	386746 400282
114	<b>Contemporary Trade Directory Entries</b> Name: Travis Perkins Trading Co Ltd Location: Holt St, Manchester, Lancashire, M40 5AX Classification: Builders' Merchants <b>Status:</b> Active Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	444	-	386741 400291
115	<b>Contemporary Trade Directory Entries</b> Name: European Metal Recycling Location: Irlam Street, MANCHESTER, M40 2BP Classification: Recycling Centres <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9NE (W)	435	-	386471 400002
116	<b>Contemporary Trade Directory Entries</b> Name: Manchester Crane Hire Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Crane Hire, Sales & Service <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	436	-	386451 399736



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
116	<b>Contemporary Trade Directory Entries</b> Name: B S Diesels Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	444	-	386444 399732
116	<b>Contemporary Trade Directory Entries</b> Name: Audi Only Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A9SE (W)	451	-	386448 399689
116	<b>Contemporary Trade Directory Entries</b> Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete & Mortar Ready Mixed <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	464	-	386427 399718
116	<b>Contemporary Trade Directory Entries</b> Name: Hanson Aggregates Location: Norton St, Miles Platting, Manchester, M40 8HD Classification: Concrete Manufacturers & Distributors <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	464	-	386427 399718
116	<b>Contemporary Trade Directory Entries</b> Name: Feltham Hydraulics Ltd Location: Unit 6, Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Hydraulic Equipment & Accessories - Sales & Service <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9SE (W)	471	-	386421 399714
116	<b>Contemporary Trade Directory Entries</b> Name: Central Hydraulics (Manchester) Ltd Location: Providence Works, Norton Street, Miles Platting, Manchester, M40 8EH Classification: Hydraulic Engineers <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9SE (W)	475	-	386423 399691
116	<b>Contemporary Trade Directory Entries</b> Name: Clad-It Eco Roofing Solutions Ltd Location: Providence Works, Norton St, Miles Platting, Manchester, Lancashire, M40 8EH Classification: Cladding Suppliers & Installers <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A9SE (W)	475	-	386423 399691
117	<b>Contemporary Trade Directory Entries</b> Name: Doug Priestley Transport Location: Briscoe La, Manchester, Lancashire, M40 2XG Classification: Road Haulage Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A6NE (SW)	440	-	386826 399366
118	<b>Contemporary Trade Directory Entries</b> Name: Tyreworld Location: 704, Oldham Road, Manchester, M40 2AA Classification: Tyre Dealers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A14SW (NW)	448	-	386676 400252
119	<b>Contemporary Trade Directory Entries</b> Name: Norton Services Ltd Location: Norton Street, Miles Platting, Manchester, M40 8HD Classification: Freight Forwarders <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SE (W)	456	-	386419 399814
119	<b>Contemporary Trade Directory Entries</b> Name: K S L Crane Hire Location: Norton Street, Miles Platting, Manchester, Lancashire, M40 8HD Classification: Crane Hire, Sales & Service <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SE (W)	456	-	386419 399814





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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	<b>Contemporary Trade Directory Entries</b> Name: Plant & Automation Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Tube Bending <b>Status: Active</b> Positional Accuracy: Automatically positioned in the proximity of the address	A10SW (SW)	483	-	386479 399557
120	<b>Contemporary Trade Directory Entries</b> Name: Vintage Wings & Radiators Location: Lord North Street, Manchester, M40 8HT Classification: Classic Car Specialists <b>Status: Active</b> Positional Accuracy: Automatically positioned in the proximity of the address	A10SW (SW)	483	-	386479 399557
120	<b>Contemporary Trade Directory Entries</b> Name: Eyres Forgings Ltd Location: Lord North Street, Manchester, M40 8HT Classification: Engineers - General <b>Status: Inactive</b> Positional Accuracy: Automatically positioned in the proximity of the address	A10SW (SW)	483	-	386479 399557
121	<b>Contemporary Trade Directory Entries</b> Name: Monsal Service Station Location: 571, Oldham Road, Manchester, M40 5AF Classification: Petrol Filling Stations - 24 Hour <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A10NW (NW)	485	-	386495 400145
122	<b>Contemporary Trade Directory Entries</b> Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	486	-	386443 399611
122	<b>Contemporary Trade Directory Entries</b> Name: Fixings North West Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Fasteners & Fixing Devices <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	486	-	386443 399611
122	<b>Contemporary Trade Directory Entries</b> Name: Permanoid Ltd Location: 107, Hulme Hall Lane, Manchester, M40 8HH Classification: Cable & Wire Equipment Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	486	-	386443 399611
123	<b>Contemporary Trade Directory Entries</b> Name: G J D Fabrications Ltd Location: Unit 3-4, Holt Street, Manchester, Lancashire, M40 5AX Classification: Aluminium Fabricators <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	486	-	386759 400352
124	<b>Contemporary Trade Directory Entries</b> Name: Wintan Easy Foods Ltd Location: Unit 6, Holt Street, MANCHESTER, M40 5AX Classification: Food Products - Manufacturers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	487	-	386806 400374
124	<b>Contemporary Trade Directory Entries</b> Name: Howdens Location: Unit 5, Holt Street, Manchester, M40 5AX Classification: Builders' Merchants <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	495	-	386788 400375
124	<b>Contemporary Trade Directory Entries</b> Name: New Road Service Station Location: Elvey House, 15, Baltimore Street, Manchester, M40 5AL Classification: Garage Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A14SE (NW)	519	-	386815 400411
125	<b>Contemporary Trade Directory Entries</b> Name: Weir Pumps Ltd Location: Park Works, Grimshaw Lane, Manchester, M40 2BA Classification: Engineers - General <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	498	-	386591 400254



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	<b>Contemporary Trade Directory Entries</b> Name: Uk Basements Ltd Location: 24, Kerswell Walk, Manchester, Lancashire, M40 2AH Classification: Damp & Dry Rot Control <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A15SW (NE)	510	-	387437 400501
127	<b>Contemporary Trade Directory Entries</b> Name: Maxi Haulage Ltd Location: 2, Monsall Road, Manchester, M40 8FZ Classification: Road Haulage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A14SW (NW)	520	-	386635 400311
127	<b>Contemporary Trade Directory Entries</b> Name: Sapphire Garage Location: 1-3, Monsall Road, Manchester, M40 8FZ Classification: Car Body Repairs <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A14SW (NW)	520	-	386635 400311
128	<b>Contemporary Trade Directory Entries</b> Name: Sunde Technologies Ltd Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Computer Manufacturers <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A14NE (N)	551	-	387140 400557
129	<b>Contemporary Trade Directory Entries</b> Name: Textino Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Cleaning Materials & Equipment <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SE (W)	552	-	386354 399654
129	<b>Contemporary Trade Directory Entries</b> Name: Withers & Bolton Location: Hulme Hall Lane, Manchester, M40 8YD Classification: Hardware <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9SE (W)	552	-	386354 399654
130	<b>Contemporary Trade Directory Entries</b> Name: Prescotts Transport Location: Briscoe Lane, Manchester, M40 2TX Classification: Road Haulage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NW (E)	555	-	387879 400111
131	<b>Contemporary Trade Directory Entries</b> Name: Jewson Ltd Location: Beckford Street, Manchester, M40 5AJ Classification: Builders' Merchants <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9NE (W)	558	-	386373 400086
131	<b>Contemporary Trade Directory Entries</b> Name: Jewson Ltd Location: Beckford Street, MANCHESTER, M40 5AJ Classification: Builders' Merchants <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9NE (W)	558	-	386373 400086
131	<b>Contemporary Trade Directory Entries</b> Name: Beckford Street Location: Unit 16, Beckford St, Manchester, M40 5AE Classification: Tyre Dealers <b>Status:</b> Active Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	575	-	386346 400068
131	<b>Contemporary Trade Directory Entries</b> Name: Unit 6 Auto Location: Unit 6, Beckford St, Manchester, M40 5AE Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	589	-	386338 400084
131	<b>Contemporary Trade Directory Entries</b> Name: Manchester Safety Towers Location: Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	591	-	386337 400085





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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
131	<b>Contemporary Trade Directory Entries</b> Name: Manchester Safety Tower Sales Location: 2 Beckford St, Manchester, M40 5AE Classification: Scaffolding & Work Platforms <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	592	-	386336 400086
132	<b>Contemporary Trade Directory Entries</b> Name: Modern Waste Recycling Ltd Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Recycling Centres <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9NE (W)	572	-	386308 399919
132	<b>Contemporary Trade Directory Entries</b> Name: Worldwide Waste Management Ltd Location: Unit 1, Hillbit House, New St, Manchester, Lancashire, M40 8AW Classification: Recycling Centres <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A9NE (W)	572	-	386308 399919
132	<b>Contemporary Trade Directory Entries</b> Name: Boiler House Supplies Location: Hillbit House, New Street, Manchester, M40 8AW Classification: Boilers - Servicing, Replacements & Repairs <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9NE (W)	572	-	386308 399919
132	<b>Contemporary Trade Directory Entries</b> Name: Majid Bros Plant Location: Hillbit House, New Street, Manchester, Lancashire, M40 8AW Classification: Machinery - Industrial & Commercial <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A9NE (W)	572	-	386308 399919
133	<b>Contemporary Trade Directory Entries</b> Name: S L J Location: Monsall Rd, Manchester, Lancashire, M40 8WT Classification: Engineers - General <b>Status:</b> Active Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	600	-	386560 400356
133	<b>Contemporary Trade Directory Entries</b> Name: High Access Cleaning & Maintenance Ltd Location: Unit 3, Ansa House, 7 Monsall Rd, Manchester, Lancashire, M40 8FY Classification: Cleaning Materials & Equipment <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14SW (NW)	608	-	386557 400364
133	<b>Contemporary Trade Directory Entries</b> Name: Prestige Autos Location: Wilsons House, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Car Dealers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (NW)	648	-	386533 400396
133	<b>Contemporary Trade Directory Entries</b> Name: Tresu Location: Unit 1, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Printers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (NW)	648	-	386533 400396
133	<b>Contemporary Trade Directory Entries</b> Name: Data Design & Assembly Services Location: Unit 1-4a, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Electronic Engineers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A14SW (NW)	648	-	386533 400396
134	<b>Contemporary Trade Directory Entries</b> Name: Specialised Transmission Services Location: Unit 1 Worrall St, Newton Heath, Manchester, M40 2ED Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A15NW (N)	602	-	387416 400604



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<b>Contemporary Trade Directory Entries</b> Name: The Boggart Brewery Location: Unit 7, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Brewers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	609	-	386452 400282
135	<b>Contemporary Trade Directory Entries</b> Name: Honour Freight Solutions Ltd Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Freight Forwarders <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A13SE (NW)	619	-	386461 400304
135	<b>Contemporary Trade Directory Entries</b> Name: Durham Duplex Location: Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Tool Sharpening, Repairing & Servicing <b>Status: Active</b> Positional Accuracy: Manually positioned within the geographical locality	A13SE (NW)	641	-	386421 400296
136	<b>Contemporary Trade Directory Entries</b> Name: Crescent Motors Location: 17, Beckford Street, Manchester, M40 5AE Classification: Garage Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NE (W)	614	-	386342 400145
137	<b>Contemporary Trade Directory Entries</b> Name: Crawford Commercials Location: 497 A Oldham Rd, Manchester, Lancashire, M40 5AA Classification: Commercial Vehicle Breakdown & Recovery Services <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	615	-	386282 400004
138	<b>Contemporary Trade Directory Entries</b> Name: Kurt Lachenmeier (Uk) Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Packaging & Wrapping Equipment & Supplies <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	617	-	386643 400434
138	<b>Contemporary Trade Directory Entries</b> Name: John Smith Ltd Location: Monsall Road, Manchester, M40 8PA Classification: Brewers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A14SW (NW)	617	-	386643 400434
139	<b>Contemporary Trade Directory Entries</b> Name: The Electricity Advisory Centre Location: Monsall Rd, Wilsons Pk, Manchester, Lancashire, M40 8WN Classification: Electricity Companies <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A14SW (NW)	622	-	386510 400348
139	<b>Contemporary Trade Directory Entries</b> Name: Power To Light Location: Unit 10f, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	646	-	386466 400344
139	<b>Contemporary Trade Directory Entries</b> Name: Data Design Location: Unit 10G, Wilsons Park, Monsall Road, Manchester, Lancashire, M40 8WN Classification: Electronic Equipment - Manufacturers & Assemblers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	646	-	386466 400344
139	<b>Contemporary Trade Directory Entries</b> Name: Abbey R X Location: Unit 10a, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Optical Goods - Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	646	-	386466 400344
140	<b>Contemporary Trade Directory Entries</b> Name: J B S Balers Location: 267, Sandal Street, Manchester, M40 7BB Classification: Recycling Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A6NW (SW)	625	-	386477 399346



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	<b>Contemporary Trade Directory Entries</b> Name: D C D Co Ltd Location: 256, Bradford Road, Manchester, M40 7BT Classification: Meat - Wholesale <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A6NW (SW)	647	-	386577 399249
142	<b>Contemporary Trade Directory Entries</b> Name: Saville Whittle Ltd Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	649	-	386292 399549
142	<b>Contemporary Trade Directory Entries</b> Name: T Saville-Whittle Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	649	-	386292 399549
142	<b>Contemporary Trade Directory Entries</b> Name: Heubach (Uk) Location: Vickers Street, Manchester, M40 8EF Classification: Chemicals - Distributors & Wholesalers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A9SE (W)	649	-	386292 399549
143	<b>Contemporary Trade Directory Entries</b> Name: Johnson & Scott Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Air Conditioning & Refrigeration Contractors <b>Status: Active</b> Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	654	-	386236 399980
143	<b>Contemporary Trade Directory Entries</b> Name: Johnson & Scott Refrigeration Location: 497 Oldham Rd, Manchester, M40 5AA Classification: Refrigeration Equipment - Commercial <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the road within the address or location	A9NE (W)	655	-	386235 399980
144	<b>Contemporary Trade Directory Entries</b> Name: Sapphire Garage Location: Unit 1 2 3, Monsall Rd, Manchester, Lancashire, M40 8FZ Classification: Car Body Repairs <b>Status: Inactive</b> Positional Accuracy: Manually positioned within the geographical locality	A14SW (NW)	655	-	386514 400392
145	<b>Contemporary Trade Directory Entries</b> Name: M & G Location: Unit 11B, Wilsons Park, Monsall Road, Manchester, M40 8WN Classification: Mot Testing Centres <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	663	-	386436 400341
145	<b>Contemporary Trade Directory Entries</b> Name: Draf Engineering Services Ltd Location: Unit 12c, Wilsons Park, Monsall Road, MANCHESTER, M40 8WN Classification: Pumps - Sales, Servicing & Repairs <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A13SE (NW)	666	-	386411 400321
146	<b>Contemporary Trade Directory Entries</b> Name: Multiblend Chemicals Ltd Location: 495, Oldham Road, Manchester, M40 5AA Classification: Chemicals & Allied Products <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NE (W)	677	-	386242 400080
147	<b>Contemporary Trade Directory Entries</b> Name: Lennox Industries Location: Unit 22, Wilsons Pk, Monsall Rd, Manchester, Lancashire, M40 8WN Classification: Heating Equipment - Sales & Service <b>Status: Inactive</b> Positional Accuracy: Manually positioned to the address or location	A13SE (NW)	692	-	386357 400302
148	<b>Contemporary Trade Directory Entries</b> Name: Hadfields Ltd Location: Harden Works, Oldham Road, Manchester, M40 8AG Classification: Road Haulage Services <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A9NE (W)	694	-	386186 399923



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	<b>Contemporary Trade Directory Entries</b> Name: T P Metcalfe Location: Harden Works, Oldham Road, Manchester, Lancashire, M40 8AG Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A9NE (W)	694	-	386186 399923
149	<b>Contemporary Trade Directory Entries</b> Name: Grahams Location: Vickers St, Manchester, Lancashire, M40 8PU Classification: Packaging Materials Manufacturers & Suppliers <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A9SE (W)	695	-	386225 399590
149	<b>Contemporary Trade Directory Entries</b> Name: Duo Plastics Ltd Location: Vickers Street, Manchester, M40 8PU Classification: Polythene & Plastic Sheeting Supplies <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A9SE (W)	695	-	386225 399590
150	<b>Contemporary Trade Directory Entries</b> Name: Van Parts Ltd Location: Thorp Mill, Thorp Rd, Manchester, Lancashire, M40 5BL Classification: PVC-U Products - Manufacturers & Suppliers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A15NW (N)	697	-	387224 400716
150	<b>Contemporary Trade Directory Entries</b> Name: Orion Upholstery Location: Thorp Rd, Manchester, Lancashire, M40 5BJ Classification: Upholstery Manufacturers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A15NW (N)	707	-	387216 400726
151	<b>Contemporary Trade Directory Entries</b> Name: Briscoe Lane Petrol Services Location: 86-90, Briscoe Lane, Manchester, M40 2TH Classification: Petrol Filling Stations - 24 Hour <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A16SW (NE)	734	-	388016 400228
151	<b>Contemporary Trade Directory Entries</b> Name: Briscoe Lane Service Station Location: 86-90, Briscoe Lane, Manchester, M40 2TH Classification: Petrol Filling Stations - 24 Hour <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A16SW (NE)	736	-	388008 400242
152	<b>Contemporary Trade Directory Entries</b> Name: Discount Tyres Location: Orford Road, Manchester, M40 1JY Classification: Tyre Dealers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NW (E)	774	-	388107 400157
152	<b>Contemporary Trade Directory Entries</b> Name: Motor Mechanic Location: Orford Road, Manchester, M40 1JY Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A12NW (E)	774	-	388107 400157
153	<b>Contemporary Trade Directory Entries</b> Name: F Dunn & Sons Location: 222, Bradford Road, Manchester, M40 7BT Classification: Garage Services <b>Status:</b> Active Positional Accuracy: Automatically positioned to the address	A5SE (SW)	797	-	386447 399153
154	<b>Contemporary Trade Directory Entries</b> Name: Degussa Ltd Location: Manox House, Coleshill Street, MANCHESTER, M40 7AA Classification: Chemicals & Allied Products <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NE (SW)	832	-	386181 399375
155	<b>Contemporary Trade Directory Entries</b> Name: Quality Design Ltd Location: 4, Hopwood Street, Manchester, Lancashire, M40 2FA Classification: Bags, Belts & Accessories - Manufacturers & Suppliers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A15NE (NE)	837	-	387789 400674



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	<b>Contemporary Trade Directory Entries</b> Name: Furnitrix Location: Unit 4, Dale House, Vickers Street, Manchester, M40 8EF Classification: Furniture Manufacturers - Home & Office <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: Evans Print Ltd Location: Unit 1, Dale House, Vickers Street, Manchester, M40 8EF Classification: T-Shirts <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: Bitz & Pieces Location: Unit 24, Dale House, Vickers Street, Manchester, M40 8EF Classification: Textile Manufacturing <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: G H Plastics Ltd Location: Unit 8, Vickers Street, Manchester, M40 8EF Classification: Polythene & Plastic Sheeting Supplies <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: W T Matthews Location: Unit 3, Dale House, Vickers Street, Manchester, M40 8EF Classification: Clothing & Fabrics - Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: S & A Motors Location: Unit 5, Dale House, Vickers Street, Manchester, M40 8EF Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
156	<b>Contemporary Trade Directory Entries</b> Name: S A S Recovery Location: Unit 2, Dale House, Vickers Street, Manchester, M40 8EF Classification: Car Breakdown & Recovery Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	849	-	386097 399495
157	<b>Contemporary Trade Directory Entries</b> Name: Sinter Studio Location: One Central Park, Northampton Rd, Manchester, Lancashire, M40 5BP Classification: Tile Manufacturers <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A14NW (NW)	854	-	386779 400750
158	<b>Contemporary Trade Directory Entries</b> Name: R Mobile Mechanic Location: 19, Lifton Avenue, Manchester, M40 8DD Classification: Garage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9SW (W)	855	-	386029 399713
159	<b>Contemporary Trade Directory Entries</b> Name: Co-Op Pharmacy Location: 9 Old Church St, Manchester, Lancashire, M40 2JF Classification: Chemists' & Pharmacists' Suppliers & Wholesalers <b>Status:</b> Active Positional Accuracy: Manually positioned to the road within the address or location	A16NW (NE)	893	-	387946 400600
160	<b>Contemporary Trade Directory Entries</b> Name: Sheridan Knitwear Location: Ground Floor, 371, Oldham Road, Manchester, M40 8EA Classification: Clothing & Fabrics - Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A9NW (W)	898	-	385977 399882
161	<b>Contemporary Trade Directory Entries</b> Name: Enterprise Cleaning Location: 20, Scotland Street, Manchester, M40 1LJ Classification: Carpet, Curtain & Upholstery Cleaners <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A16SW (NE)	922	-	388151 400363



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	<b>Contemporary Trade Directory Entries</b> Name: Robin Mills Location: Amalex House, 182 Bradford Rd, Manchester, M40 7BE Classification: Textile Manufacturing <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A5SE (SW)	953	-	386294 399071
162	<b>Contemporary Trade Directory Entries</b> Name: Ktec Location: 146, Bradford Road, Manchester, M40 7AS Classification: Joinery Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5SE (SW)	1000	-	386274 399027
163	<b>Contemporary Trade Directory Entries</b> Name: A Leach (Productions) Ltd Location: 31 Dean La, Manchester, M40 3AA Classification: Children & Babywear - Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the road within the address or location	A16NW (NE)	966	-	387856 400786
164	<b>Contemporary Trade Directory Entries</b> Name: A 2 Z Freight Services Location: Unit 77, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Freight Forwarders <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A5NW (W)	968	-	385983 399458
164	<b>Contemporary Trade Directory Entries</b> Name: Oilpro Uk Ltd Location: Unit 105, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Garage Equipment <b>Status:</b> Active Positional Accuracy: Manually positioned to the address or location	A5NW (W)	971	-	385981 399456
164	<b>Contemporary Trade Directory Entries</b> Name: N S Medical Systems Location: Unit 96, Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Medical Equipment Maintenance & Repairs <b>Status:</b> Active Positional Accuracy: Manually positioned within the geographical locality	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: G S F Contract Cleaning Location: Unit 4, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Regional Electricity Advisory Centre Location: Unit 53, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electricity Companies <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Global Electrical & Communications Ltd Location: Unit 45, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Telecommunications Equipment & Systems <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Model System Solutions Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Engineering Services <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A5NW (W)	974	-	385979 399452





## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<b>Contemporary Trade Directory Entries</b> Name: C E N Bottling Co Ltd Location: Unit 65, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Soft Drinks - Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Classic Knitwear Ltd Location: Unit 31, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Knitwear Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Vianlee Ltd Location: Unit 29, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Apple Enterprise International Location: Unit 71, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Smart Puls Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: D S M Enterprise Location: Unit 28, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrical Goods Sales, Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Ultrade Location: Unit 39, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Electrolysis <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Jk Cars Location: Unit 34, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Car Dealers - Used <b>Status:</b> Inactive Positional Accuracy: Manually positioned to the address or location	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Flirtatious Lingerie Location: Cariocca Business Pk, Sawley Rd, Miles Platting, Manchester, Lancashire, M40 8BB Classification: Lingerie & Hosiery Manufacturers & Wholesalers <b>Status:</b> Inactive Positional Accuracy: Manually positioned within the geographical locality	A5NW (W)	974	-	385979 399452
164	<b>Contemporary Trade Directory Entries</b> Name: Klyvinnd Location: Unit 59, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Commercial Cleaning Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452



## Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<b>Contemporary Trade Directory Entries</b> Name: Bioeurope Location: Unit 64, Cariocca Business Park, Sawley Road, Miles Platting, Manchester, M40 8BB Classification: Pharmaceutical Manufacturers & Distributors <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	974	-	385979 399452
165	<b>Contemporary Trade Directory Entries</b> Name: Mayfair Blinds Location: 94a, Old Church Street, Manchester, M40 2JF Classification: Blinds, Awnings & Canopies <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A16SW (NE)	974	-	388152 400453
166	<b>Contemporary Trade Directory Entries</b> Name: M W Transport Services Location: 2, Briscoe Lane, Manchester, M40 1JX Classification: Road Haulage Services <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A16SE (NE)	992	-	388237 400361
167	<b>Contemporary Trade Directory Entries</b> Name: Karpelle Ltd Location: Unit 1, Varley Business Centre, James Street, Manchester, M40 8EL Classification: Clothing & Fabrics - Manufacturers <b>Status:</b> Inactive Positional Accuracy: Automatically positioned to the address	A5NW (W)	995	-	385986 399387
168	<b>Fuel Station Entries</b> Name: Shell Oldham Road Location: 571, Oldham Road, Manchester, M40 5AF Brand: Shell Premises Type: Petrol Station <b>Status:</b> Open Positional Accuracy: Automatically positioned to the address	A10NW (NW)	485	-	386495 400145
169	<b>Fuel Station Entries</b> Name: Briscoe Lane Service Station Location: 86, Briscoe Lane, Mitchell Street, Newton Heath, Manchester, Lancashire, M40 2th Brand: Unbranded Premises Type: Petrol Station <b>Status:</b> Open Positional Accuracy: Manually positioned to the address or location	A16SW (NE)	736	-	388008 400242





## Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	<b>Areas of Adopted Green Belt</b> Authority: Manchester City Council Plan Name: Proposals Map Status: <b>Adopted</b> Plan Date: 11th July 2012	A11SE (SE)	455	8	387806 399545
171	<b>Local Nature Reserves</b> Name: Clayton Vale Multiple Area: N Area (m2): 525664.64 Source: Natural England Designation Date: 26th July 2006	A7NE (SE)	468	10	387795 399506
172	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A14SW (NW)	657	11	386555 400422
173	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: NVZ Area Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A9NW (W)	937	11	385951 400000



Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Stockport Metropolitan Borough Council - Environment Team (Land & Water) Manchester City Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Trafford Metropolitan Borough Council - Renewal and Environmental Protection Bury Metropolitan Borough Council - Environmental Health Department Rochdale Metropolitan Borough Council - Environmental Health Department	February 2013 July 2013 June 2012 May 2013 October 2012 October 2012 September 2012 September 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - North West Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Bury Metropolitan Borough Council - Environmental Health Department Salford City Council - Environmental Health Department Manchester City Council - Environmental Health Department Tameside Metropolitan Borough Council - Environmental Health Department Trafford Metropolitan Borough Council - Environmental Health Department Oldham Metropolitan Borough Council - Environmental Health Department Stockport Metropolitan Borough Council - Environmental Health Department, EEDD Rochdale Metropolitan Borough Council - Environmental Health Department	April 2013 August 2012 February 2013 February 2013 January 2013 June 2012 March 2013 October 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North West Region	January 2000	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North West Region	March 2013	Quarterly
<b>Registered Radioactive Substances</b> Environment Agency - North West Region	July 2013	Quarterly



Agency & Hydrological	Version	Update Cycle
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Water Abstractions</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North West Region	July 2013	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 2011	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	Annually
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2013	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	April 2013	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	April 2013	Quarterly



Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North West Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North West Region - South Area	July 2013	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North West Region - South Area	April 2013	Quarterly
<b>Local Authority Landfill Coverage</b> 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 Trafford Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> 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 Trafford Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North West Region - South Area	March 2003	Not Applicable



Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	March 2013	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	March 2013	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Salford City Council Oldham Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Trafford Metropolitan Borough Council Rochdale Metropolitan Borough Council Tameside Metropolitan Borough Council - Planning and Building Control	August 2012 December 2012 December 2012 July 2013 March 2013 March 2013 November 2012 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Bury Metropolitan Borough Council Manchester City Council - Planning Department Salford City Council Oldham Metropolitan Borough Council Stockport Metropolitan Borough Council - Environment and Economic Development Trafford Metropolitan Borough Council Rochdale Metropolitan Borough Council Tameside Metropolitan Borough Council - Planning and Building Control	August 2012 December 2012 December 2012 July 2013 March 2013 March 2013 November 2012 November 2012	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update



Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Variable
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2013	Bi-Annually
<b>BGS Urban Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	June 2011	Variable
<b>BGS Urban Soil Chemistry Averages</b> British Geological Survey - National Geoscience Information Service	June 2011	Variable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2012	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	February 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	February 2011	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2013	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	May 2013	Quarterly



Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b>		
Bury Metropolitan Borough Council	August 2013	As notified
Manchester City Council	August 2013	As notified
Oldham Metropolitan Borough Council	August 2013	As notified
Rochdale Metropolitan Borough Council	August 2013	As notified
Salford City Council	August 2013	As notified
Stockport Metropolitan Borough Council	August 2013	As notified
Tameside Metropolitan Borough Council	August 2013	As notified
Trafford Metropolitan Borough Council	August 2013	As notified
<b>Areas of Unadopted Green Belt</b>		
Bury Metropolitan Borough Council	August 2013	As notified
Manchester City Council	August 2013	As notified
Oldham Metropolitan Borough Council	August 2013	As notified
Rochdale Metropolitan Borough Council	August 2013	As notified
Salford City Council	August 2013	As notified
Stockport Metropolitan Borough Council	August 2013	As notified
Tameside Metropolitan Borough Council	August 2013	As notified
Trafford Metropolitan Borough Council	August 2013	As notified
<b>Areas of Outstanding Natural Beauty</b>		
Natural England	July 2013	Bi-Annually
<b>Environmentally Sensitive Areas</b>		
Natural England	July 2013	Annually
<b>Forest Parks</b>		
Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b>		
Natural England	July 2013	Bi-Annually
<b>Marine Nature Reserves</b>		
Natural England	July 2013	Bi-Annually
<b>National Nature Reserves</b>		
Natural England	July 2013	Bi-Annually
<b>National Parks</b>		
Natural England	July 2013	Bi-Annually
<b>Nitrate Sensitive Areas</b>		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b>		
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2013	Annually
<b>Ramsar Sites</b>		
Natural England	July 2013	Bi-Annually
<b>Sites of Special Scientific Interest</b>		
Natural England	July 2013	Bi-Annually
<b>Special Areas of Conservation</b>		
Natural England	July 2013	Bi-Annually
<b>Special Protection Areas</b>		
Natural England	July 2013	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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	





## Useful Contacts

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
2	<b>Manchester City Council - Environmental Health Department</b> 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
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	<b>Health and Safety Executive</b> Explosives Inspectorate, 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
5	<b>Manchester City Council - Planning Department</b> Town Hall, Manchester, Greater Manchester, M60 2LA	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
6	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmark.co.uk Website: www.landmarkinfo.co.uk
7	<b>The Coal Authority - Mining Report Service</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
8	<b>Manchester City Council</b> Town Hall, Albert Square, Manchester, Greater Manchester, M60 2JT	Telephone: 0161 234 5000 Fax: 0161 234 4508 Website: www.manchester.gov.uk
9	<b>Tameside Metropolitan Borough Council</b> Wellington Road, Ashton-under-Lyne, Lancashire, OL6 6DL	Telephone: 0161 342 8355 Fax: 0161 342 3070 Website: www.tameside.gov.uk
10	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@hpa.org.uk Website: www.hpa.org.uk
-	<b>Landmark Information Group Limited</b> 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

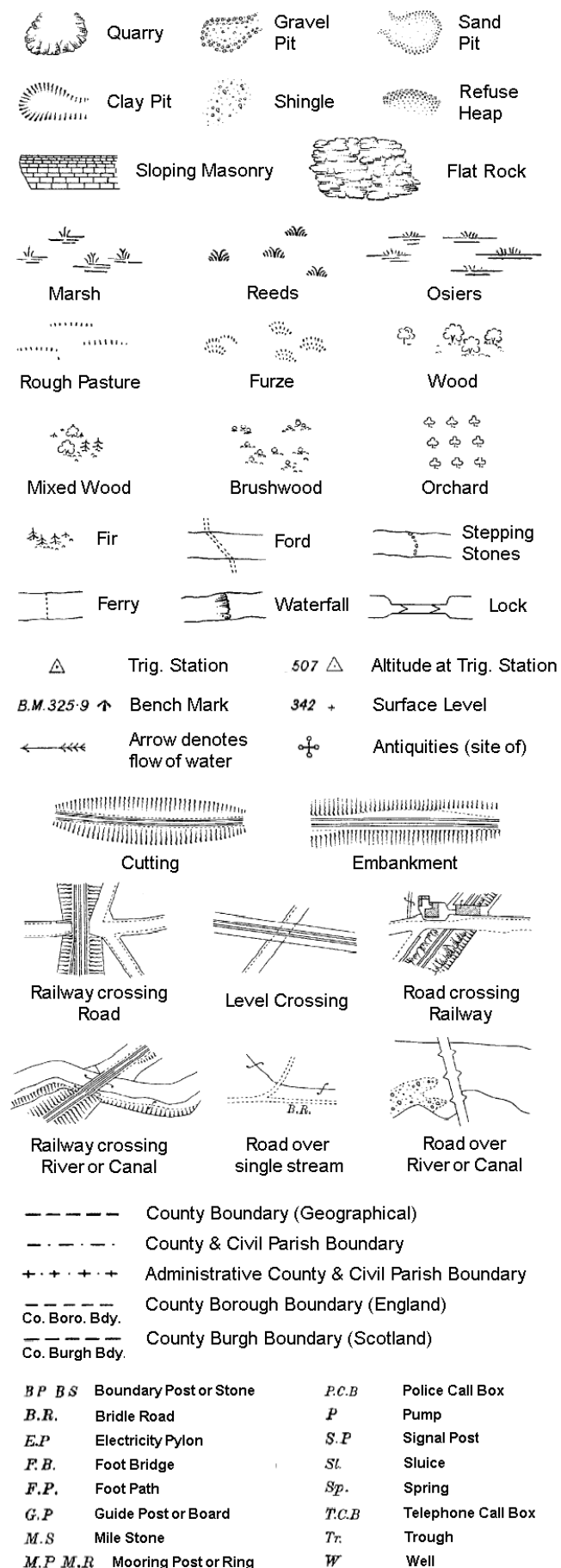
Please note that the Environment Agency / SEPA have a charging policy in place for enquiries.



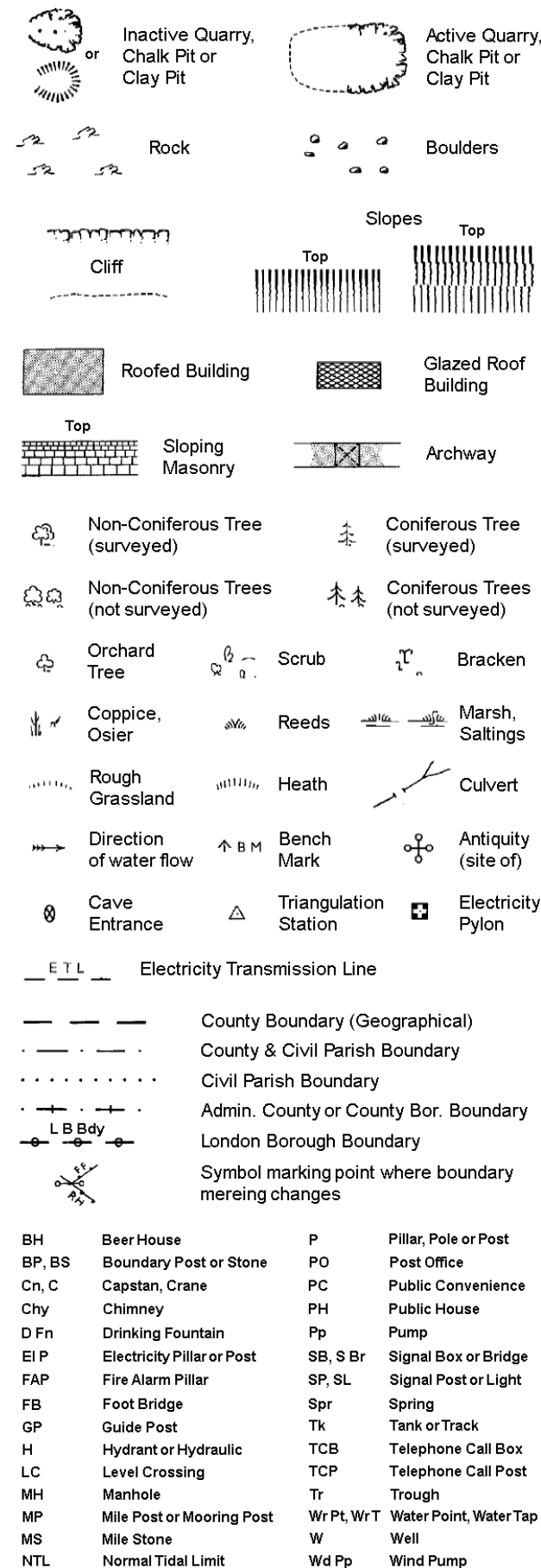
## **Appendix C – Historical Plans**

# Historical Mapping Legends

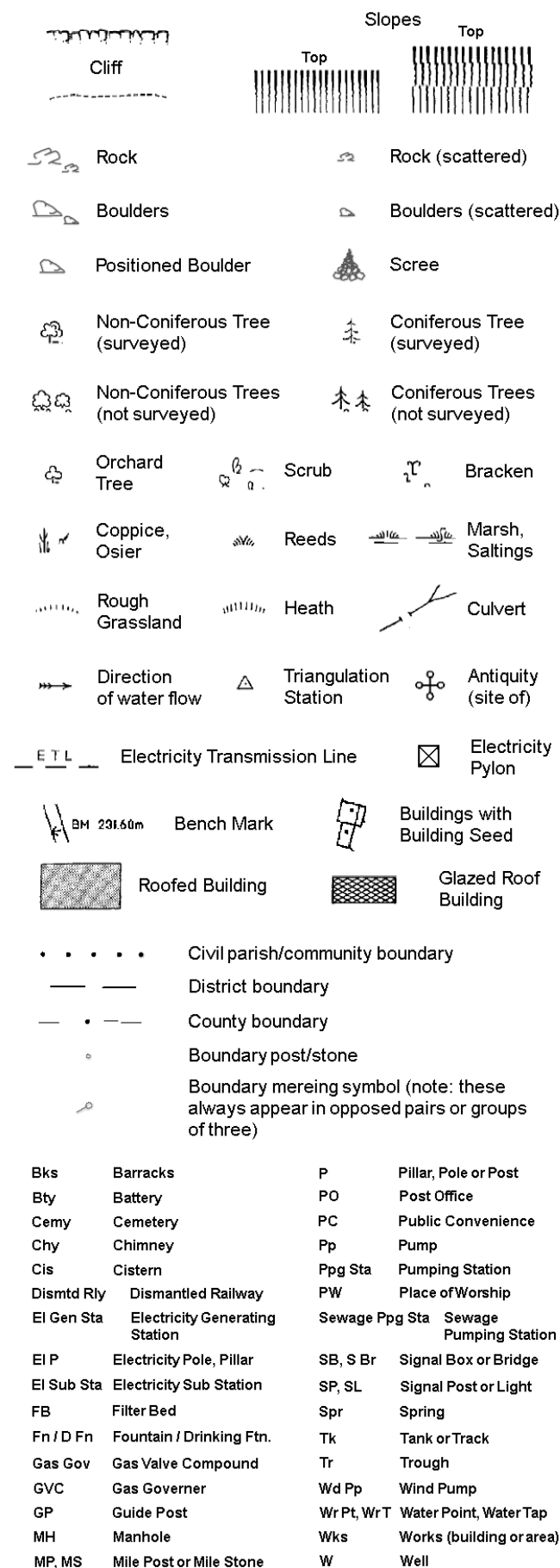
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



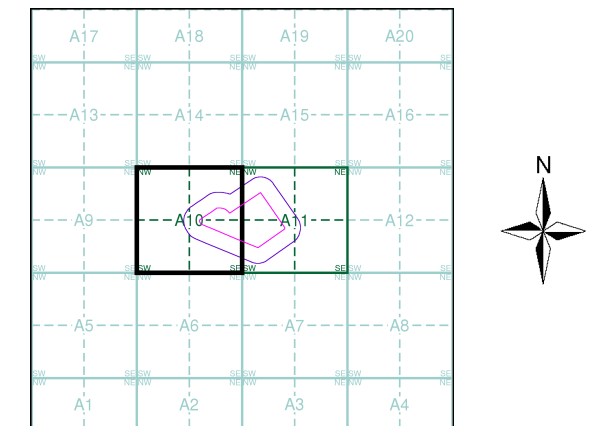
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1922	4
Ordnance Survey Plan	1:1,250	1949 - 1951	5
Ordnance Survey Plan	1:2,500	1951	6
Ordnance Survey Plan	1:1,250	1953 - 1971	7
Ordnance Survey Plan	1:2,500	1970	8
Ordnance Survey Plan	1:1,250	1970 - 1990	9
Supply of Unpublished Survey Information	1:1,250	1975	10
Additional SIMs	1:1,250	1979 - 1991	11
Additional SIMs	1:1,250	1986 - 1991	12
Additional SIMs	1:1,250	1991	13
Large-Scale National Grid Data	1:1,250	1992	14
Large-Scale National Grid Data	1:1,250	1993 - 1995	15
Large-Scale National Grid Data	1:1,250	1993 - 1995	16
Large-Scale National Grid Data	1:1,250	1994	17
Large-Scale National Grid Data	1:1,250	1995	18

## Historical Map - Segment A10



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

## Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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





## Lancashire And Furness

Published 1893

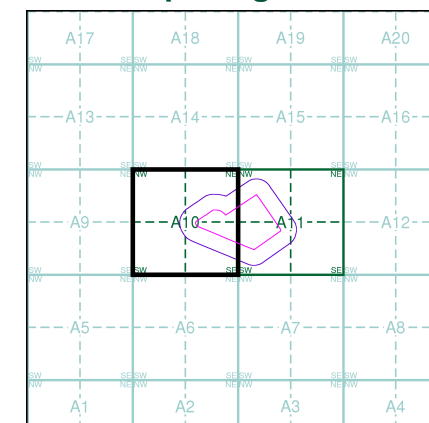
Source map scale - 1:2,500

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)

104_03 1893 1:2,500	104_04 1893 1:2,500
104_07 1893 1:2,500	104_08 1893 1:2,500

### Historical Map - Segment A10



### Order Details

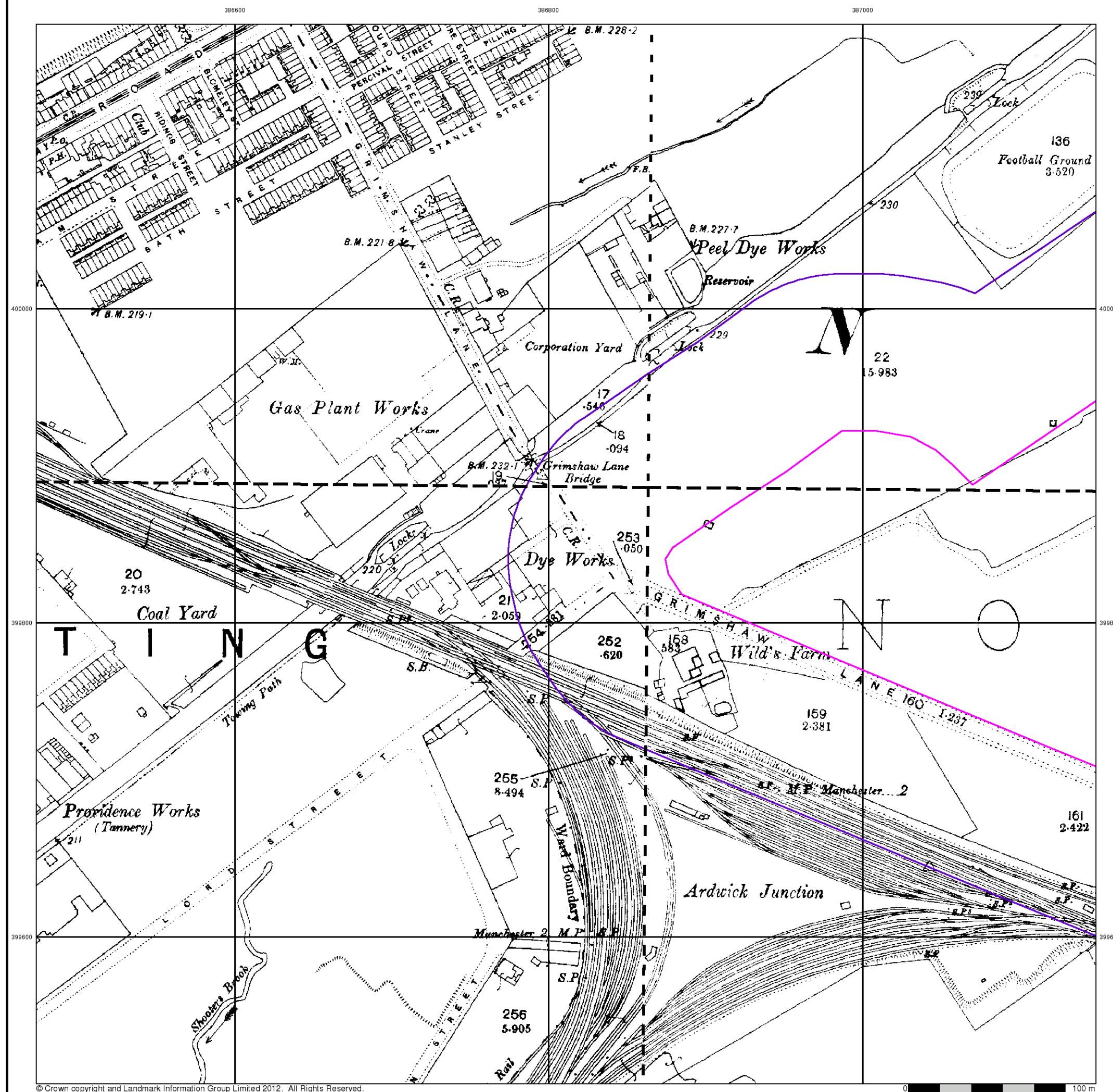
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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## Lancashire And Furness

Published 1908

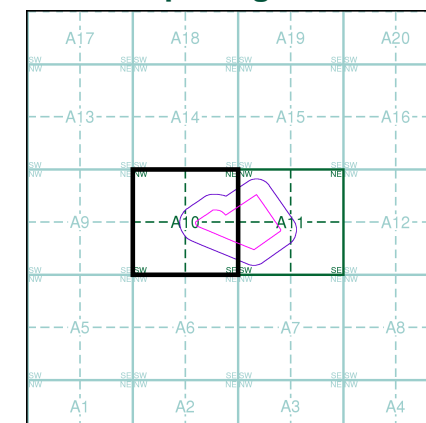
Source map scale - 1:2,500

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)

104_03 1908 1:2,500	104_04 1908 1:2,500
104_07 1908 1:2,500	104_08 1908 1:2,500

### Historical Map - Segment A10



### Order Details

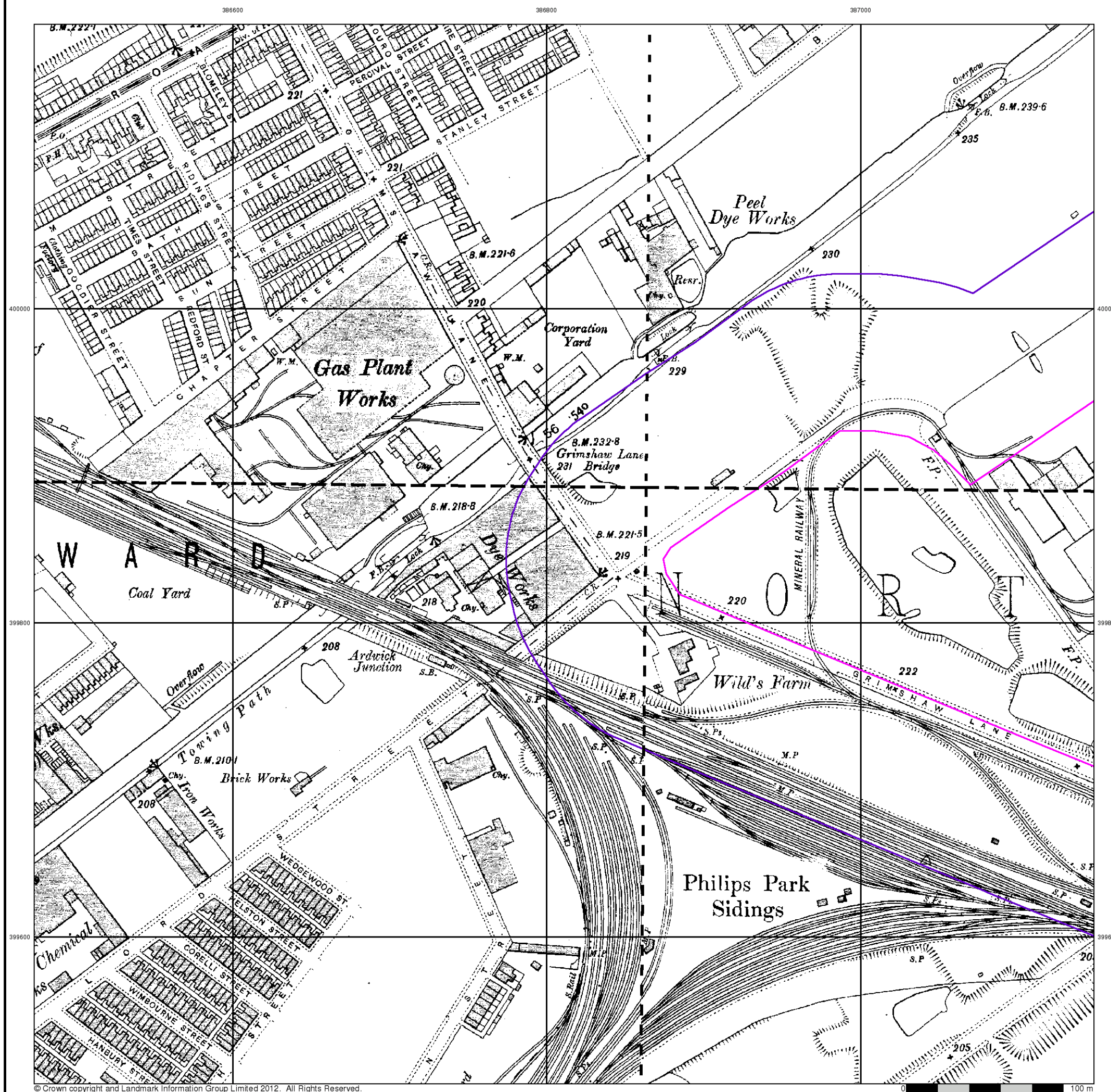
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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## Lancashire And Furness

Published 1922

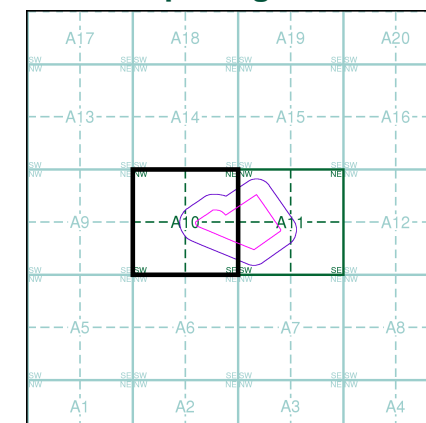
Source map scale - 1:2,500

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)

104_03 1922 1:2,500	104_04 1922 1:2,500
104_07 1922 1:2,500	104_08 1922 1:2,500

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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## Ordnance Survey Plan

Published 1949 - 1951

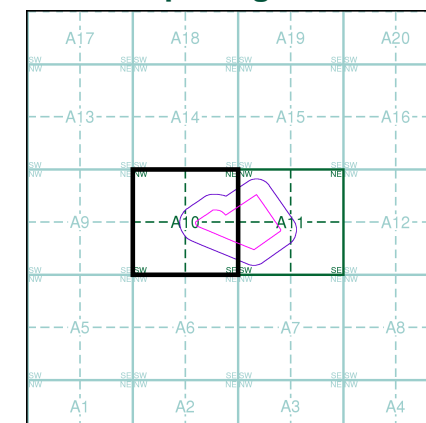
Source map scale - 1:1,250

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)

SD8600SW 1949 1:1,250	SD8600SE 1949 1:1,250	SD8700SW 1951 1:1,250
SJ8699NW 1949 1:1,250	SJ8699NE 1949 1:1,250	SJ8799NW 1949 1:1,250

### Historical Map - Segment A10



### Order Details

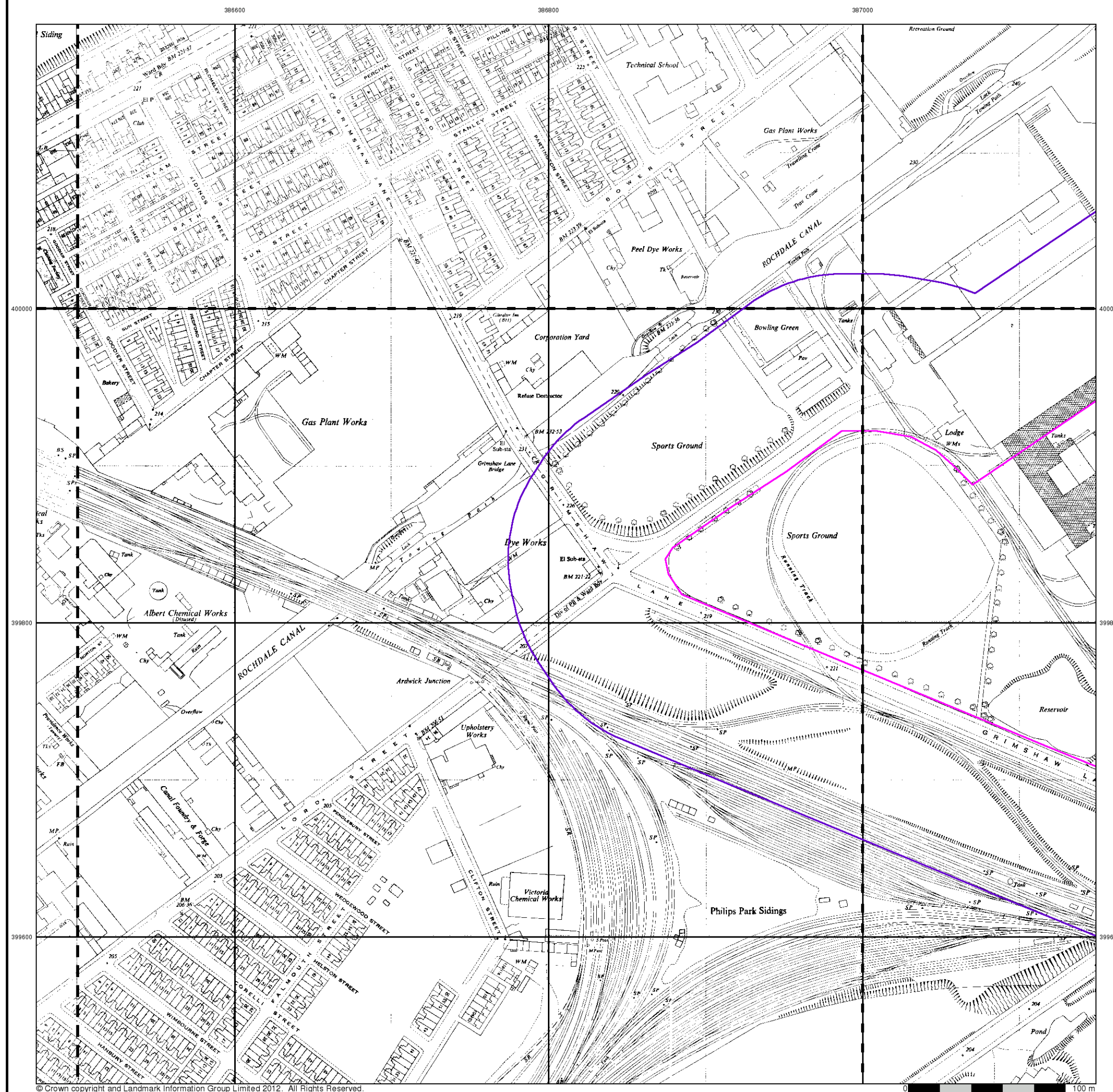
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

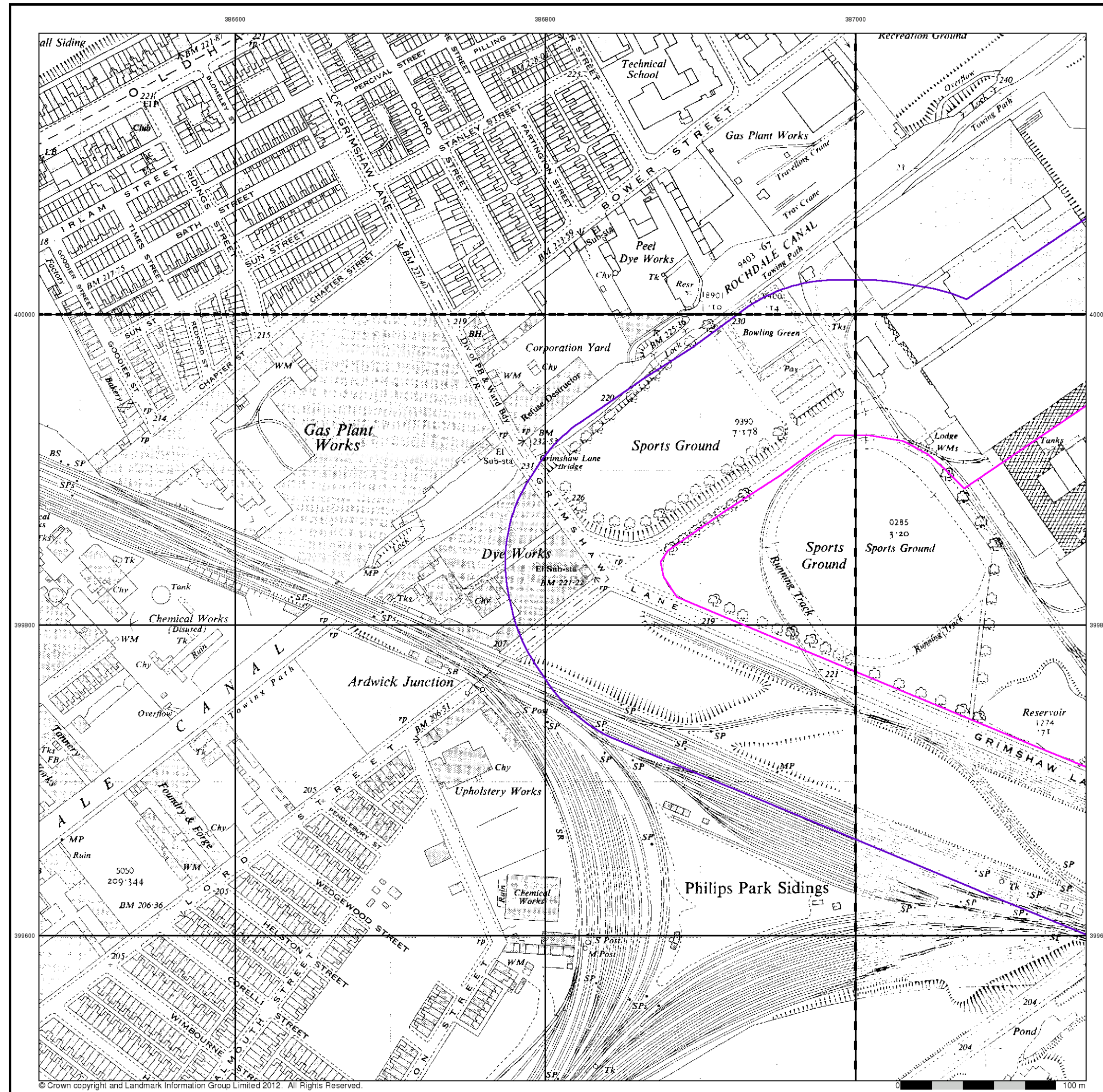
Plot 2, Grimshaw Lane, Newton Heath, Manchester



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







## Ordnance Survey Plan

Published 1951

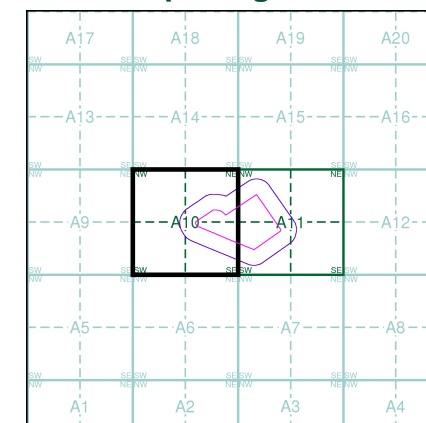
Source map scale - 1:2,500

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)

SD8600 1951 12,500	SD8700 1951 12,500
SJ8699 1951 12,500	SJ8799 1951 12,500

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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## Ordnance Survey Plan

Published 1953 - 1971

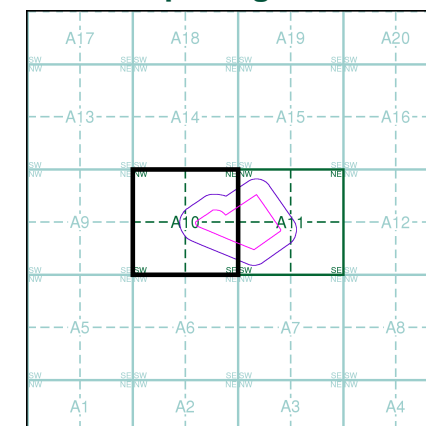
Source map scale - 1:1,250

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)

SD8600SW 1961 1:1,250	SD8600SE 1961 1:1,250	SD8700SW 1971 1:1,250
SJ8699NW 1955 1:1,250	SJ8699NE 1953 1:1,250	SJ8799NW 1966 1:1,250

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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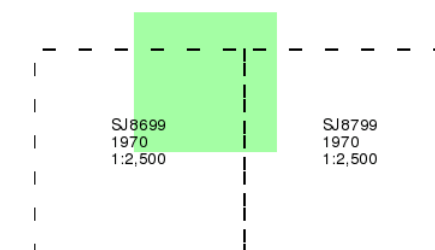
## Ordnance Survey Plan

Published 1970

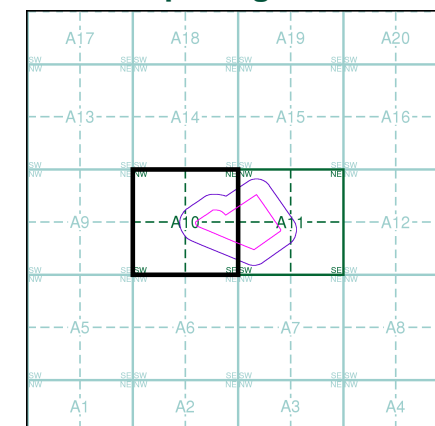
Source map scale - 1:2,500

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 A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

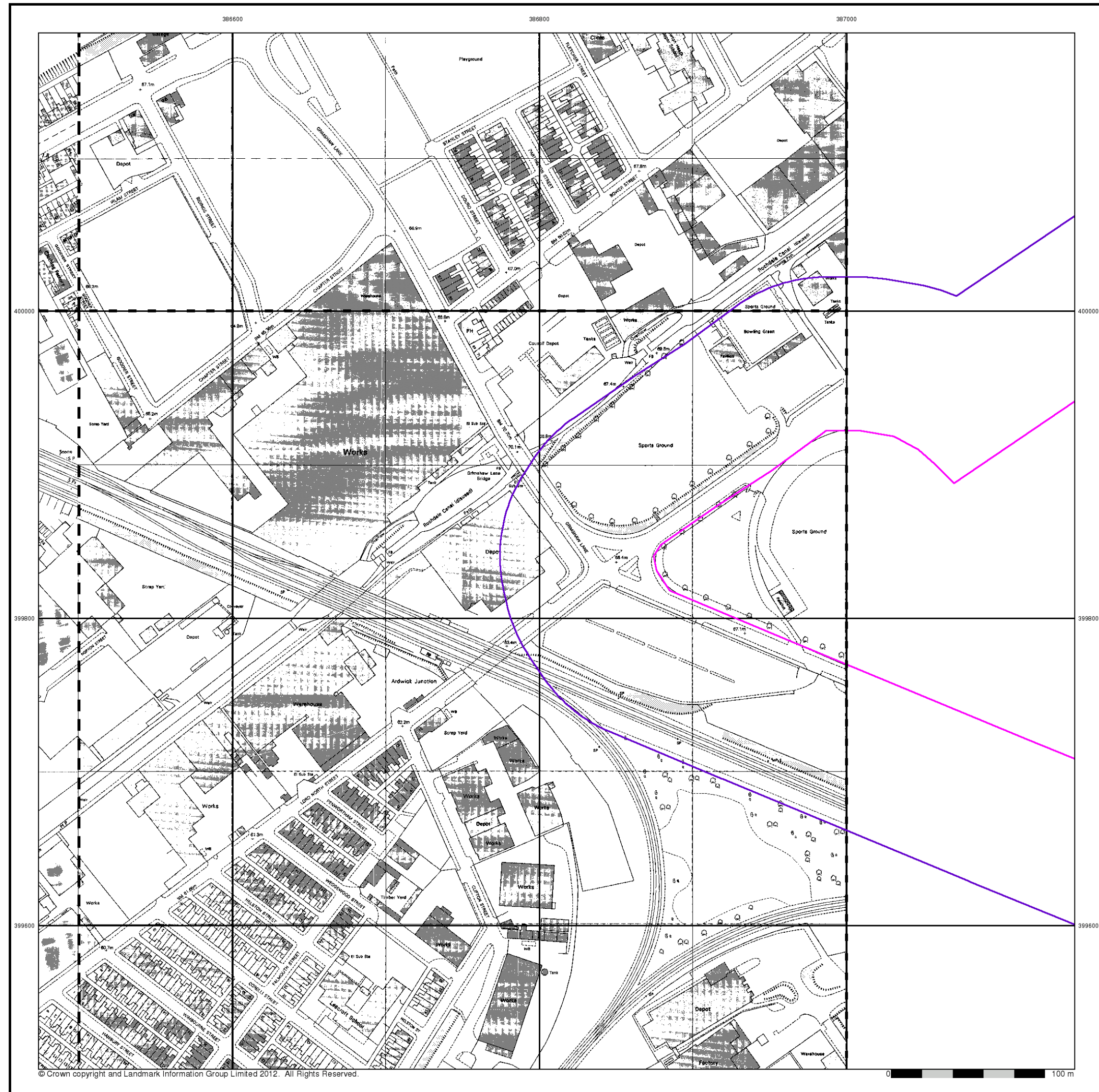
### Site Details

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Web: www.envirocheck.co.uk





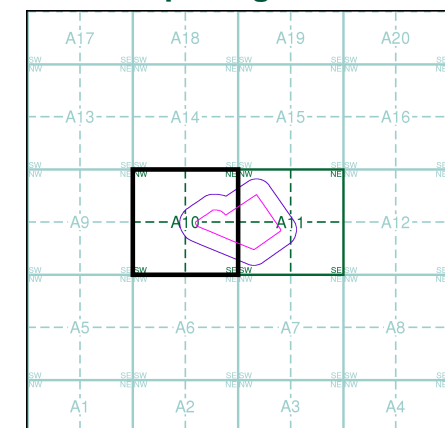
**Ordnance Survey Plan**  
**Published 1970 - 1990**  
**Source map scale - 1:1,250**

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)**

SD8600SW 1970 1:1,250	SD8600SE 1990 1:1,250
SJ8699NW 1971 1:1,250	SJ8699NE 1990 1:1,250

**Historical Map - Segment A10**



**Order Details**

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

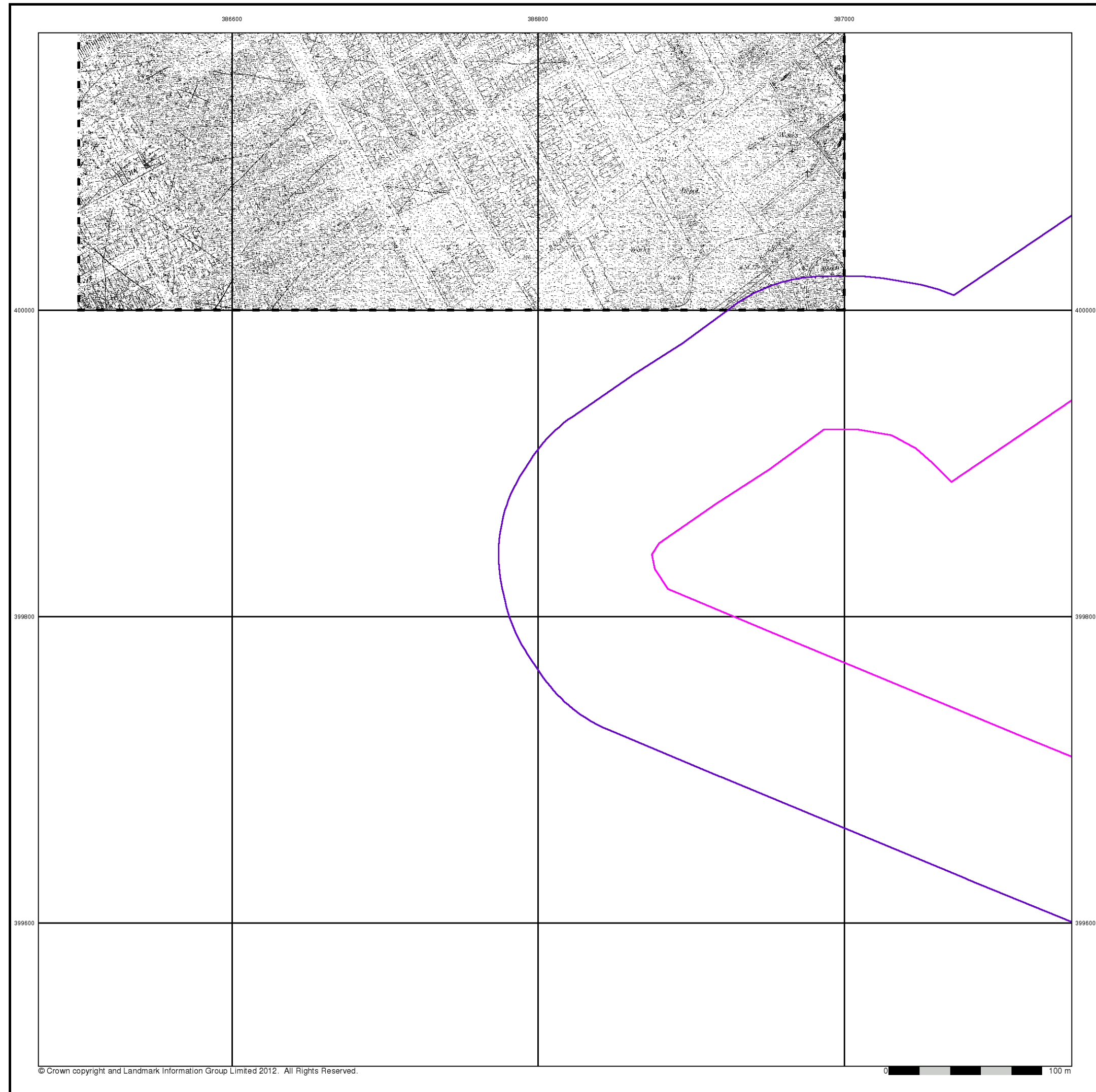
**Site Details**

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Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





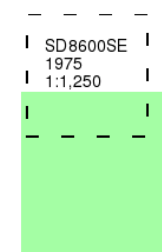
## Supply of Unpublished Survey Information

Published 1975

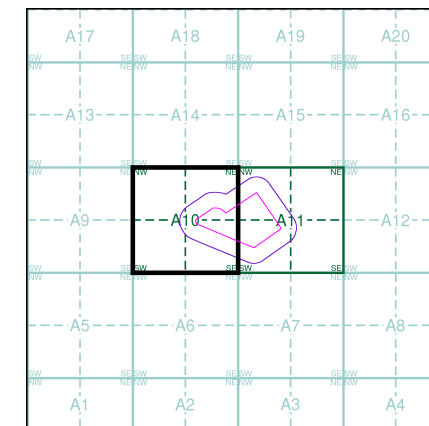
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A10



### Order Details

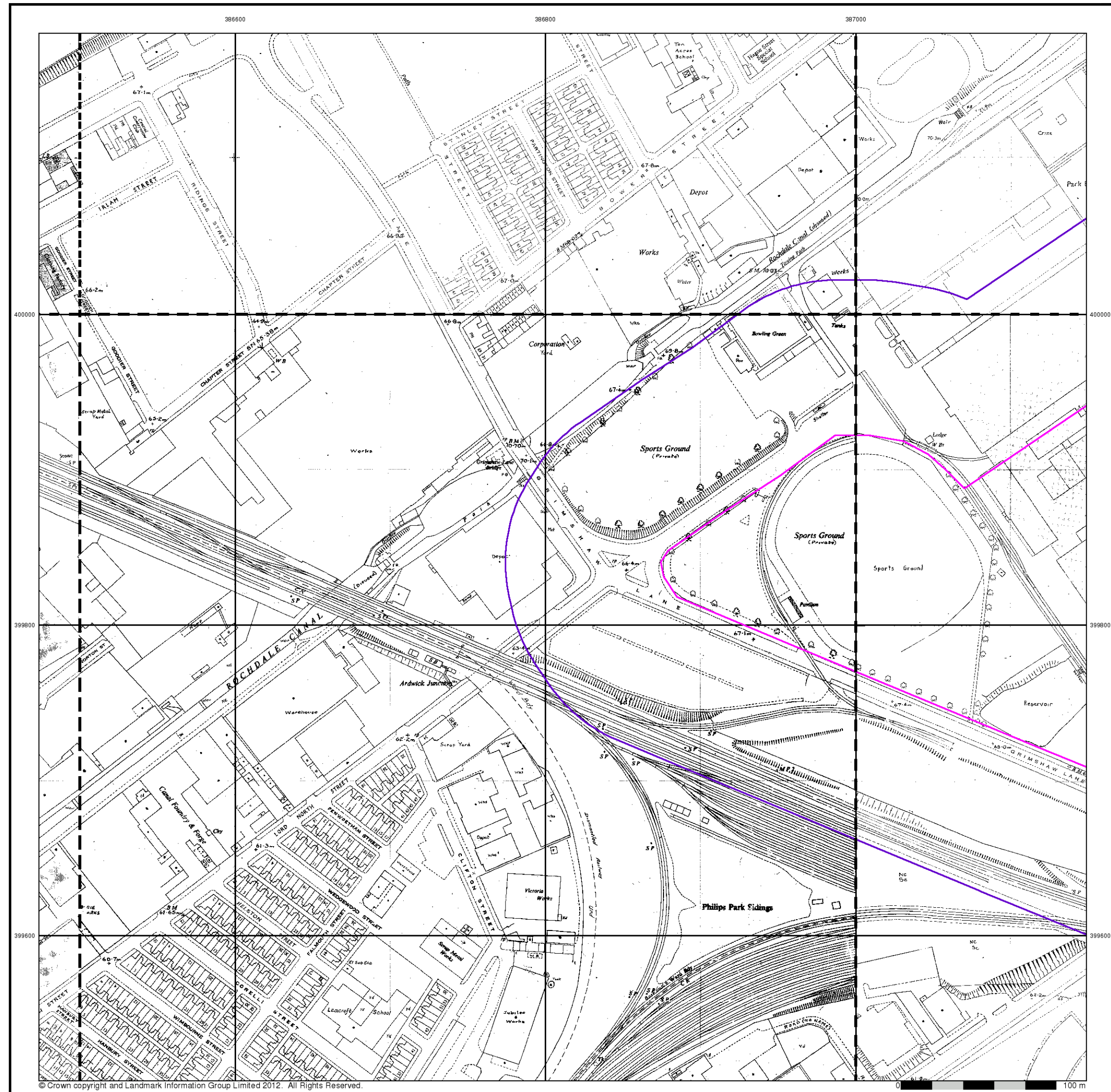
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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### Additional SIMs

**Published 1979 - 1991**

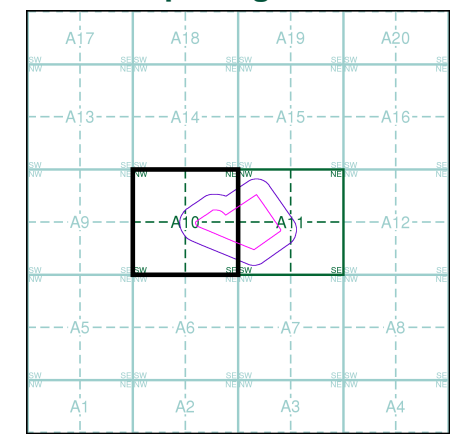
**Source map scale - 1:1,250**

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)

SD8600SW	SD8600SE	SD8700SW
1979	1979	1979
1:1,250	1:1,250	1:1,250
SJ8699NW	SJ8699NE	SJ8799NW
1984	1979	1991
1:1,250	1:1,250	1:1,250

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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## Additional SIMs

Published 1986 - 1991

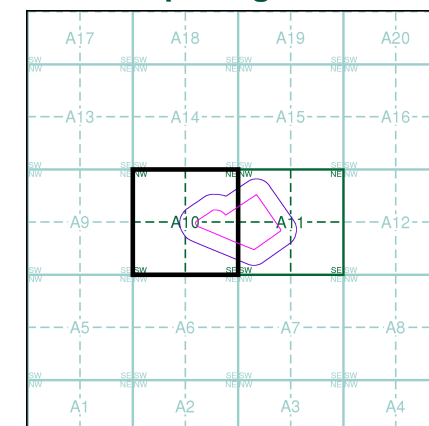
Source map scale - 1:1,250

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)

SD8600SE	SD8700SW
1986	1991
1:1,250	1:1,250
SJ8699NW	
1990	
1:1,250	

## Historical Map - Segment A10



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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## Additional SIMs

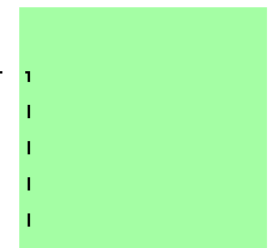
**Published 1991**

**Source map scale - 1:1,250**

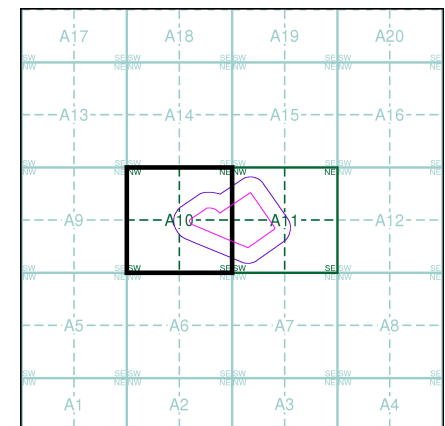
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

## Map Name(s) and Date(s)

SJ8699NW  
1991  
1:1,250



## Historical Map - Segment A10



## Order Details

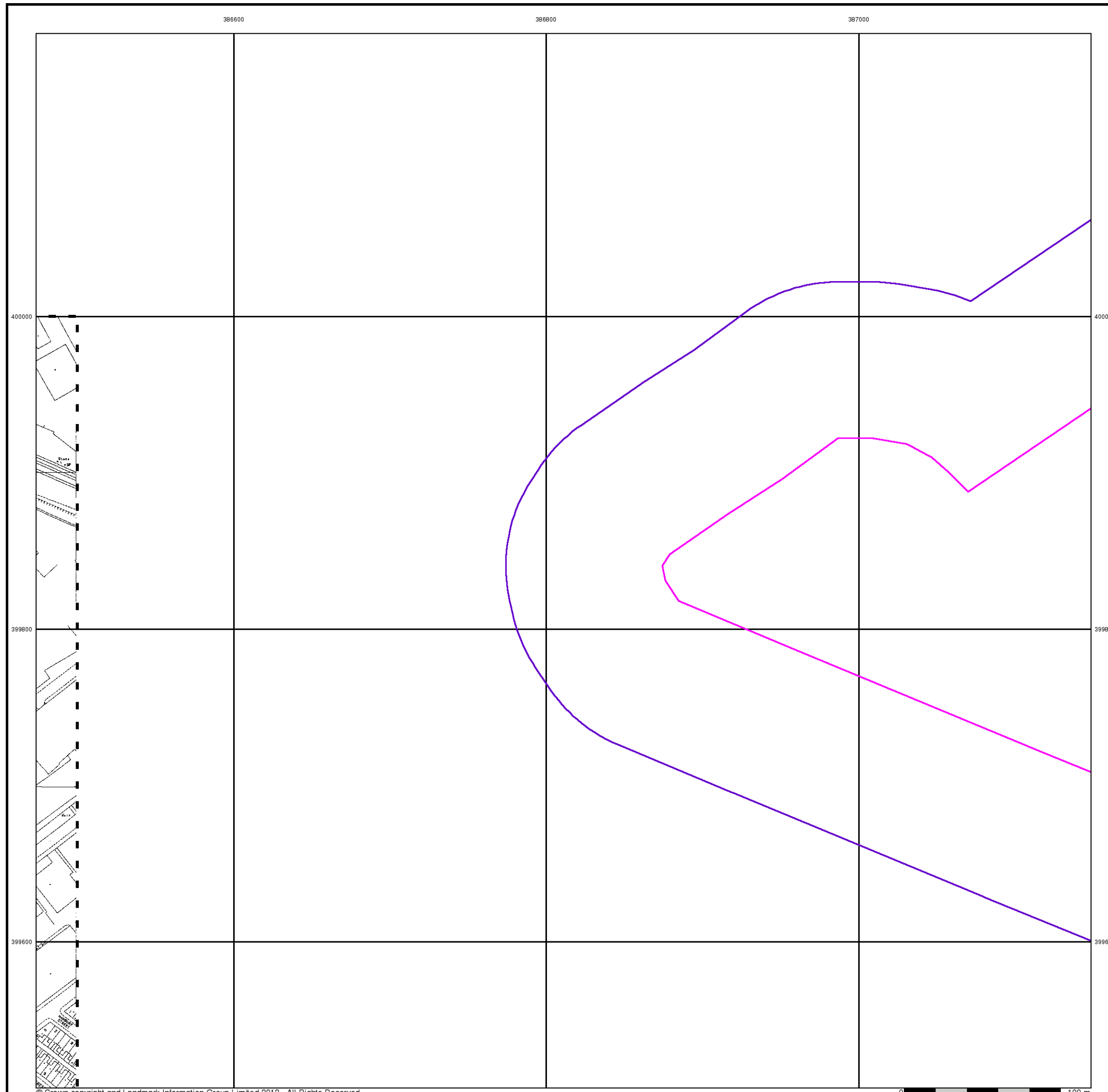
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

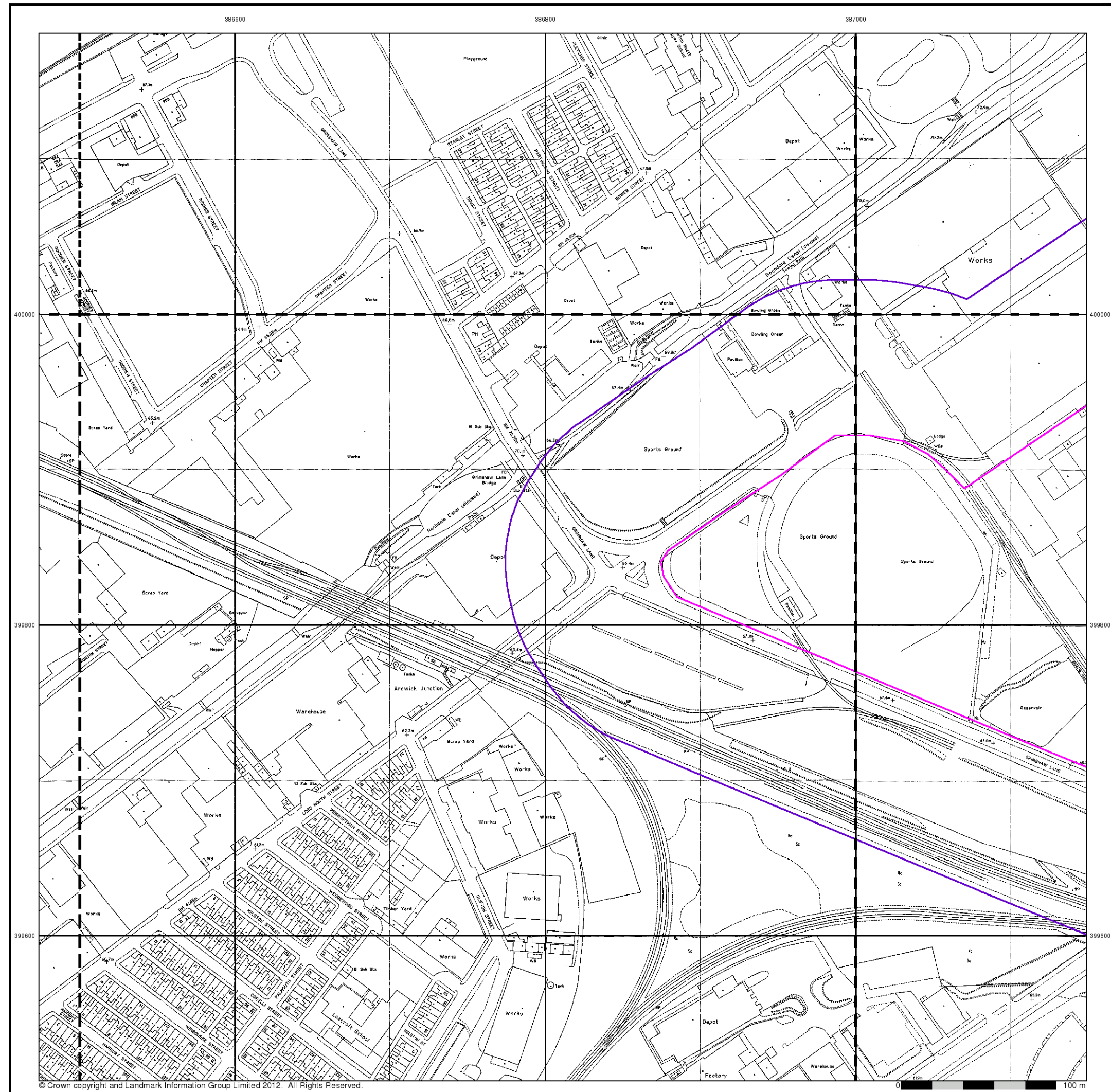
## Site Details

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## Large-Scale National Grid Data

Published 1992

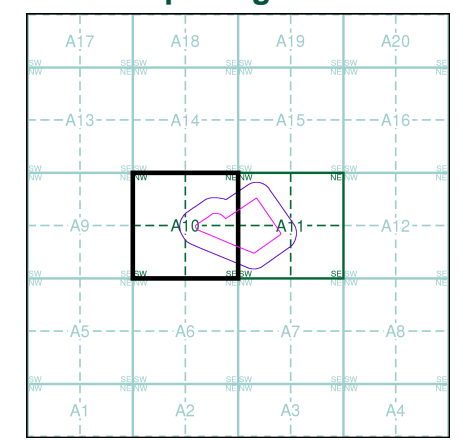
Source map scale - 1:1,250

'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)

SD8600SW 1992 1:1,250	SD8600SE 1992 1:1,250	SD8700SW 1992 1:1,250
SJ8699NW 1992 1:1,250	SJ8699NE 1992 1:1,250	SJ8799NW 1992 1:1,250

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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## Large-Scale National Grid Data

Published 1993 - 1995

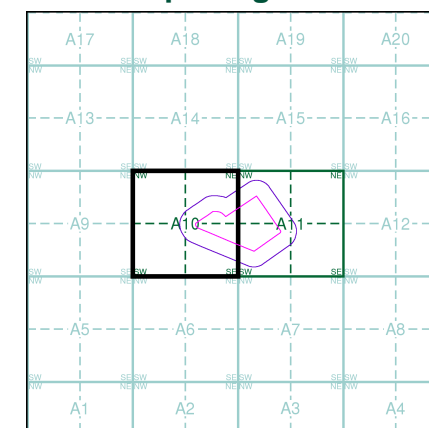
Source map scale - 1:1,250

'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)

SD8600SW 1993 1:1,250	SD8600SE 1993 1:1,250
SJ8699NW 1995 1:1,250	SJ8699NE 1995 1:1,250

### Historical Map - Segment A10



### Order Details

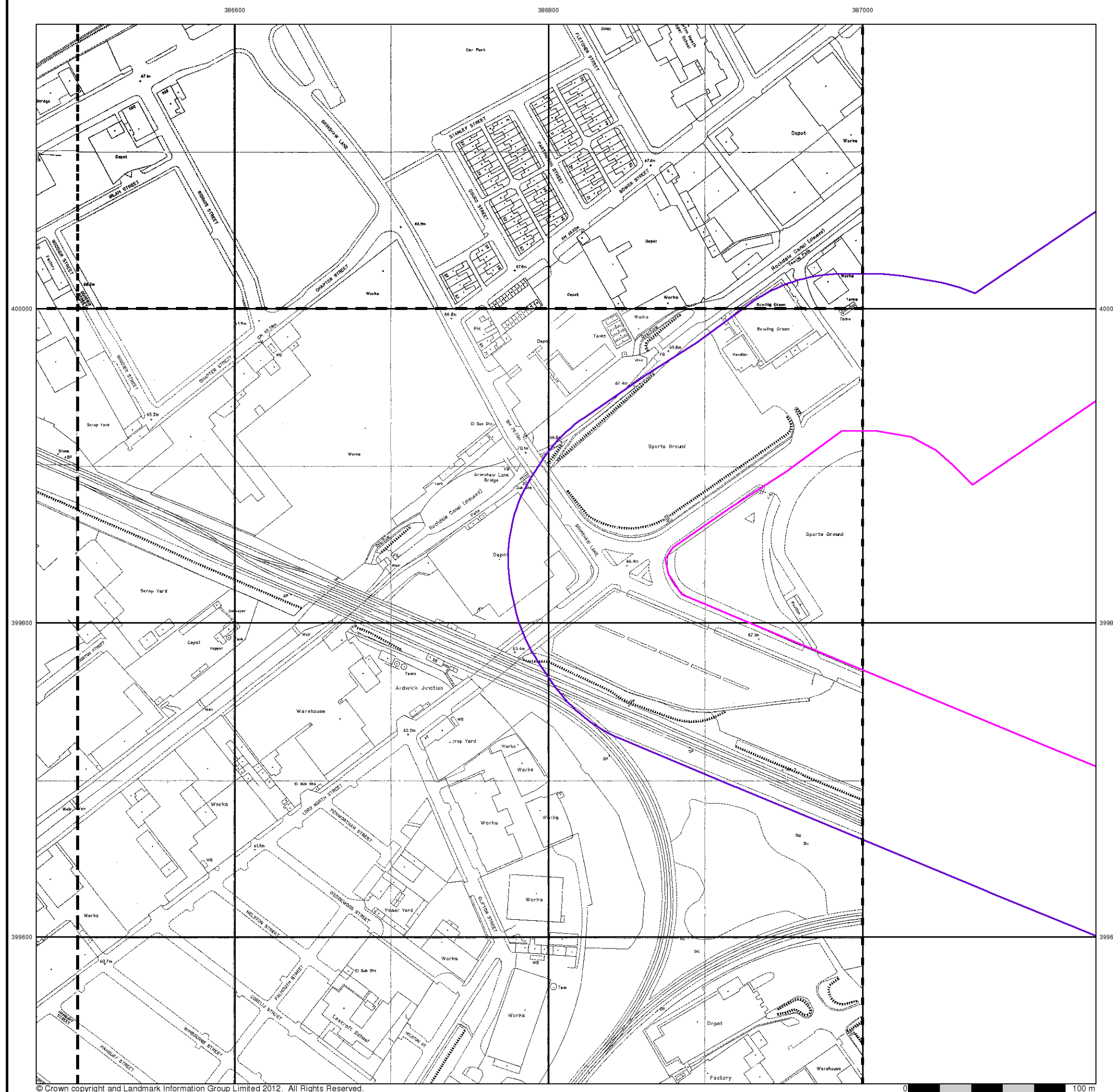
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

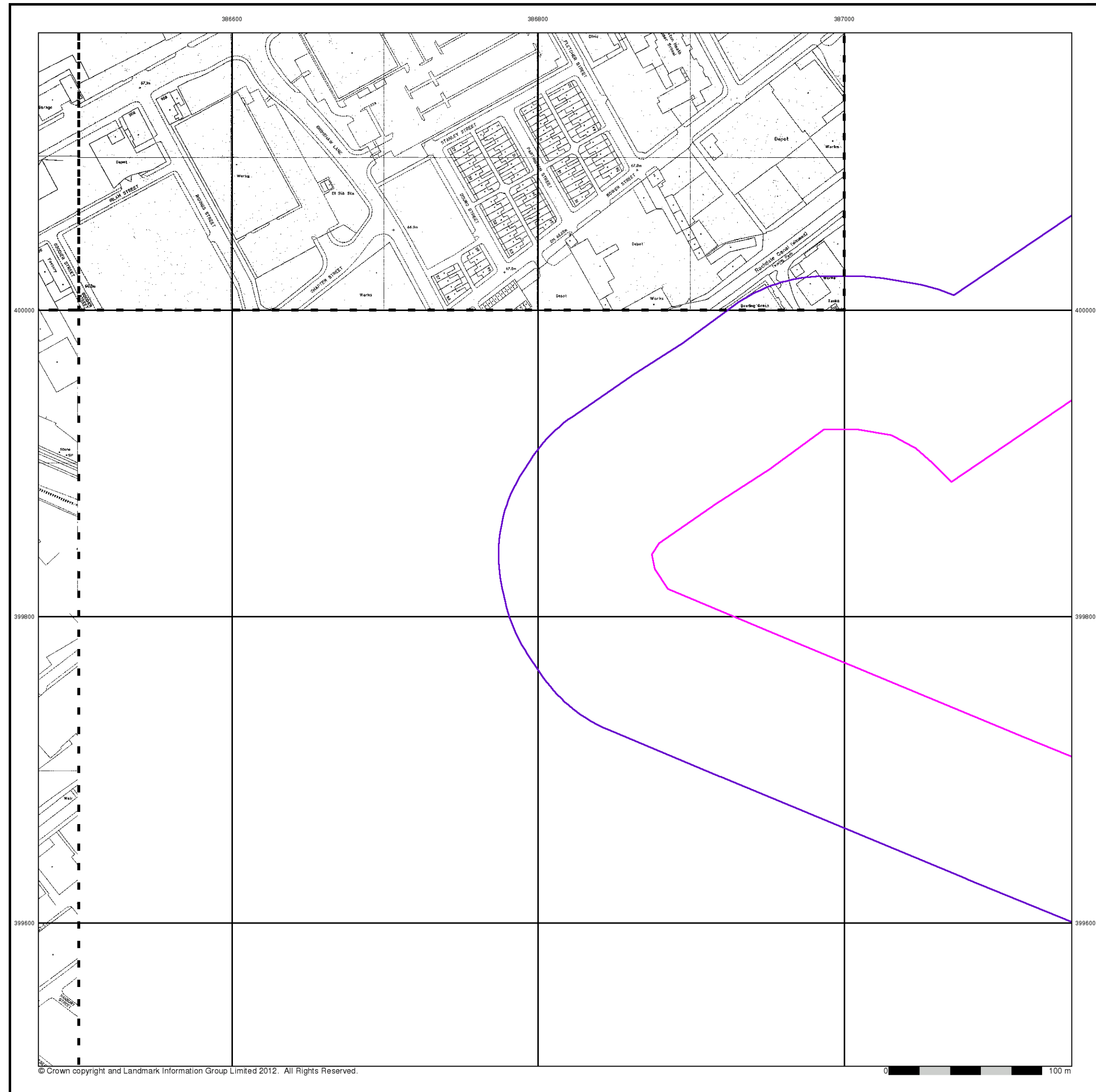
### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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





## Large-Scale National Grid Data

Published 1993 - 1995

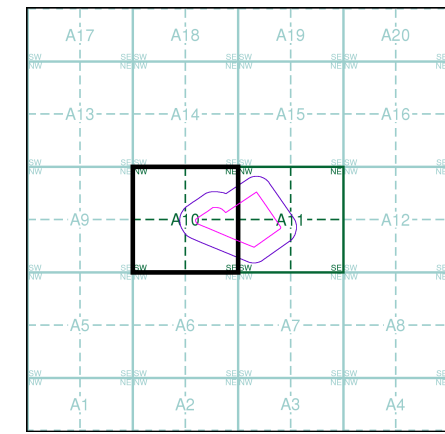
Source map scale - 1:1,250

'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)

SD8600SW 1993 1:1,250	SD8600SE 1993 1:1,250
SJ8699NW 1995 1:1,250	

### Historical Map - Segment A10



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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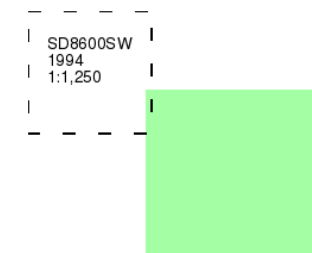
## Large-Scale National Grid Data

Published 1994

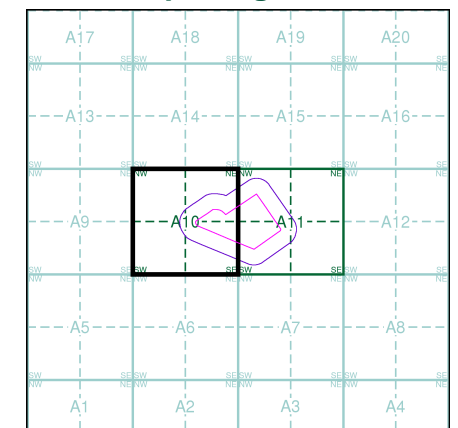
Source map scale - 1:1,250

'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)



### Historical Map - Segment A10



### Order Details

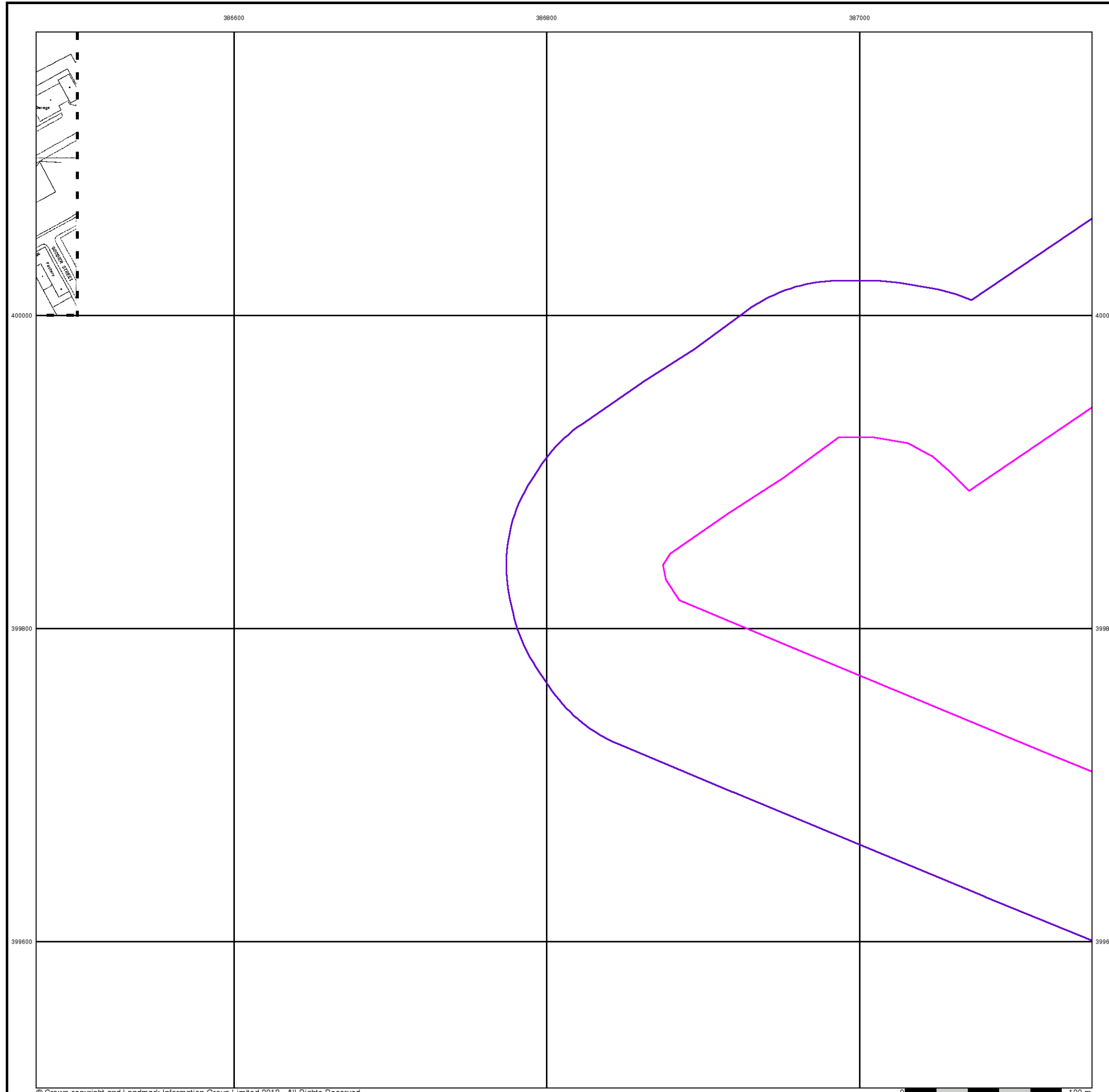
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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## Large-Scale National Grid Data

Published 1995

Source map scale - 1:1,250

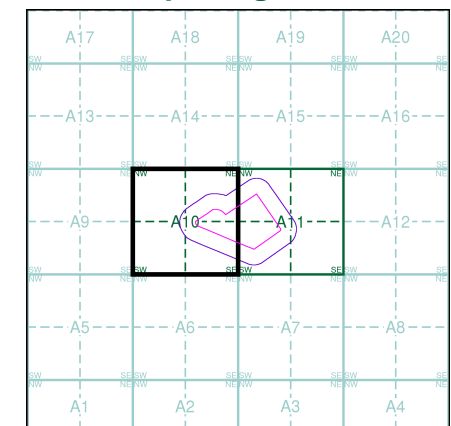
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

### Map Name(s) and Date(s)

SD8800SW  
1995  
1:1,250



### Historical Map - Segment A10



### Order Details

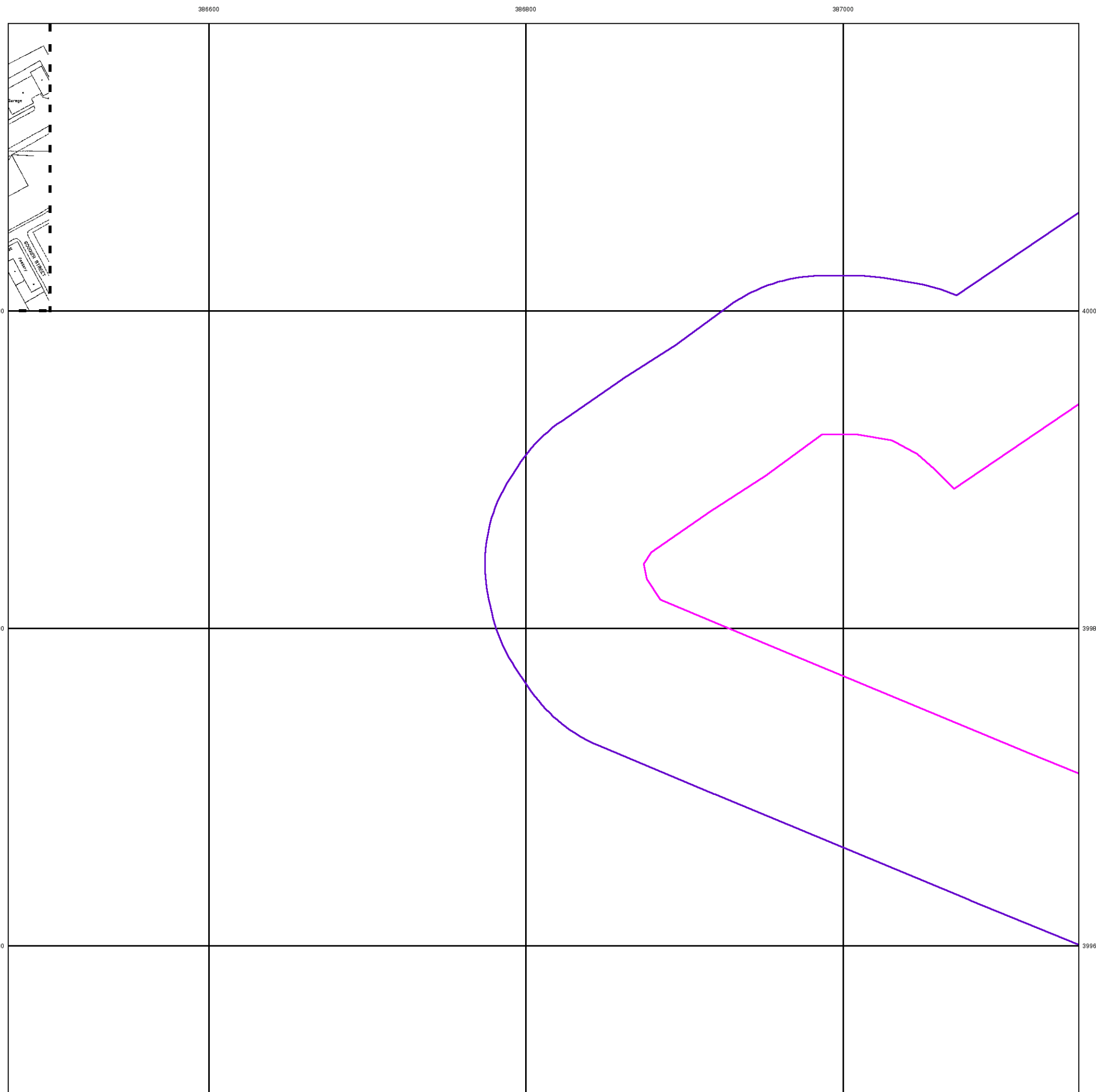
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



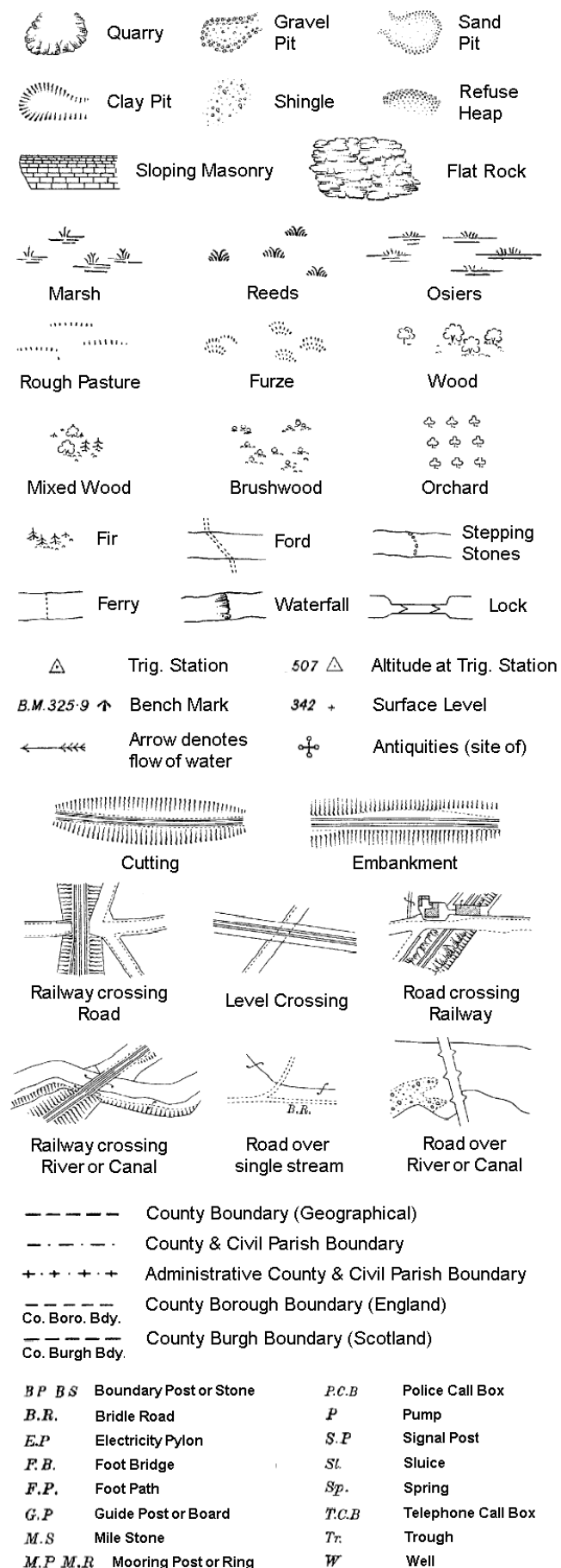
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





# Historical Mapping Legends

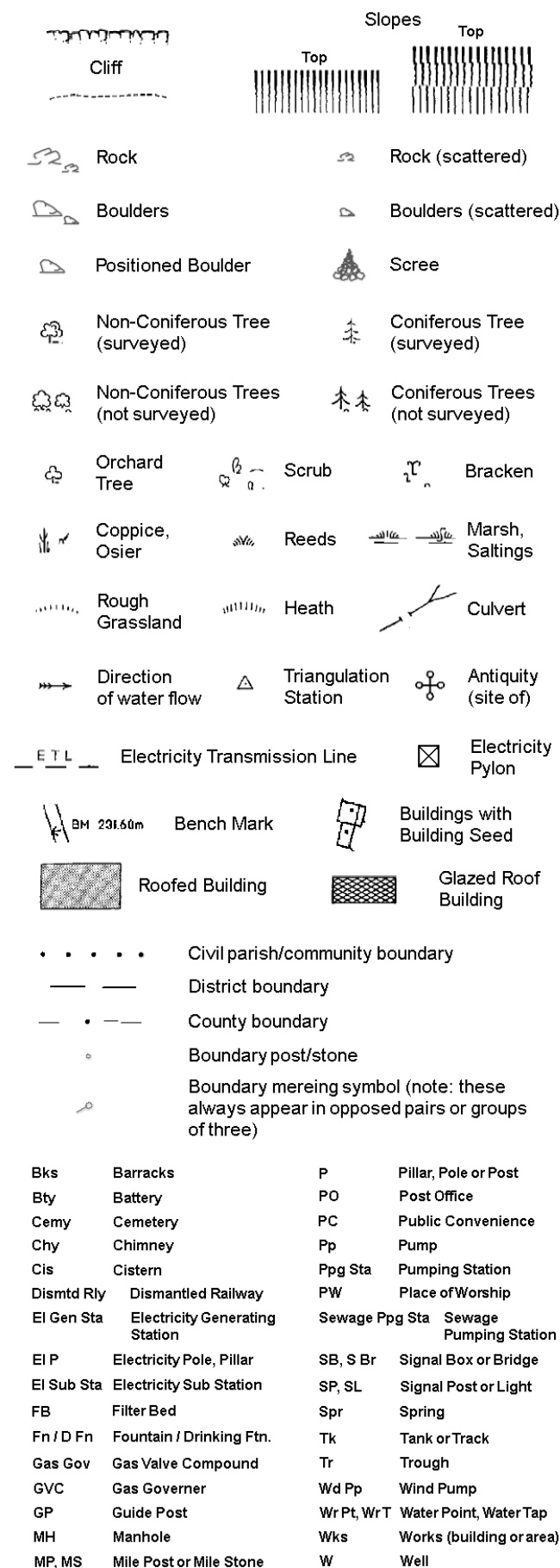
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



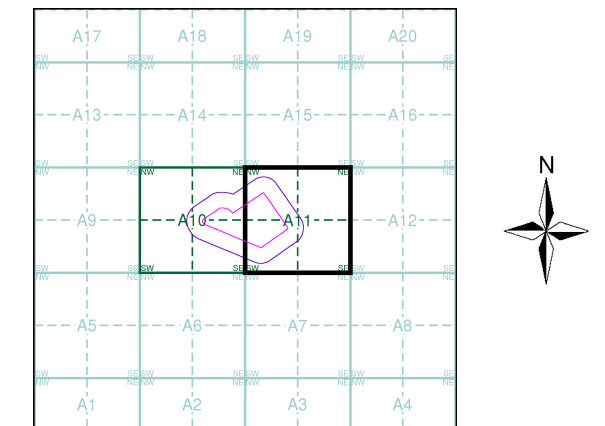
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Lancashire And Furness	1:2,500	1908	3
Lancashire And Furness	1:2,500	1922	4
Ordnance Survey Plan	1:1,250	1949 - 1951	5
Ordnance Survey Plan	1:2,500	1951	6
Ordnance Survey Plan	1:1,250	1966 - 1973	7
Ordnance Survey Plan	1:2,500	1970	8
Additional SIMs	1:1,250	1979 - 1991	9
Additional SIMs	1:1,250	1987 - 1991	10
Large-Scale National Grid Data	1:1,250	1992	11
Large-Scale National Grid Data	1:1,250	1992	12

## Historical Map - Segment A11



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

## Site Details

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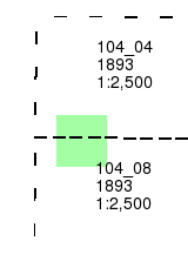
## Lancashire And Furness

Published 1893

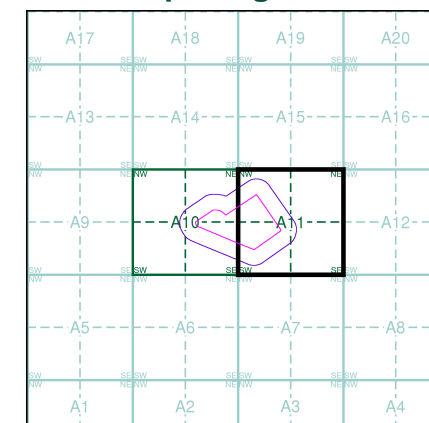
Source map scale - 1:2,500

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 A11



### Order Details

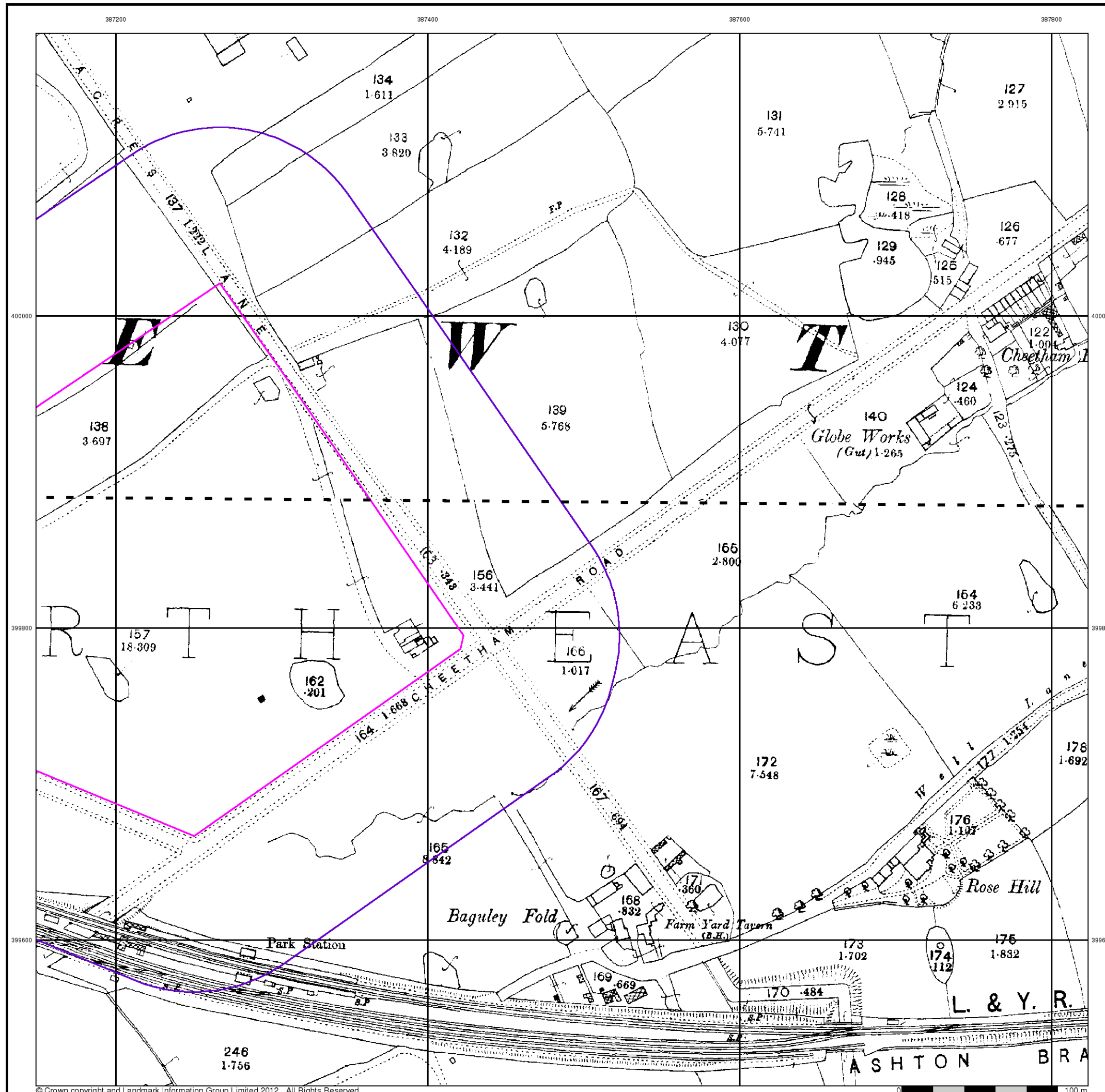
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

### Site Details

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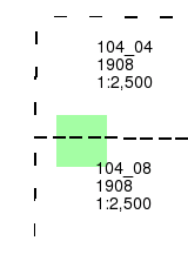
## Lancashire And Furness

Published 1908

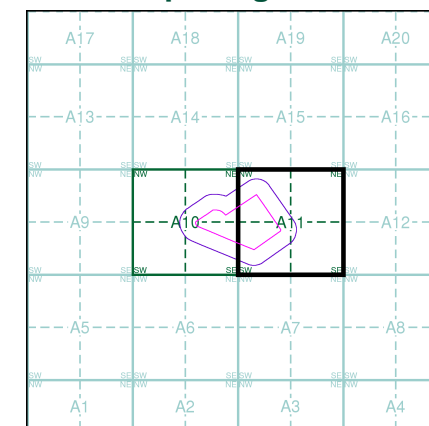
Source map scale - 1:2,500

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 A11



### Order Details

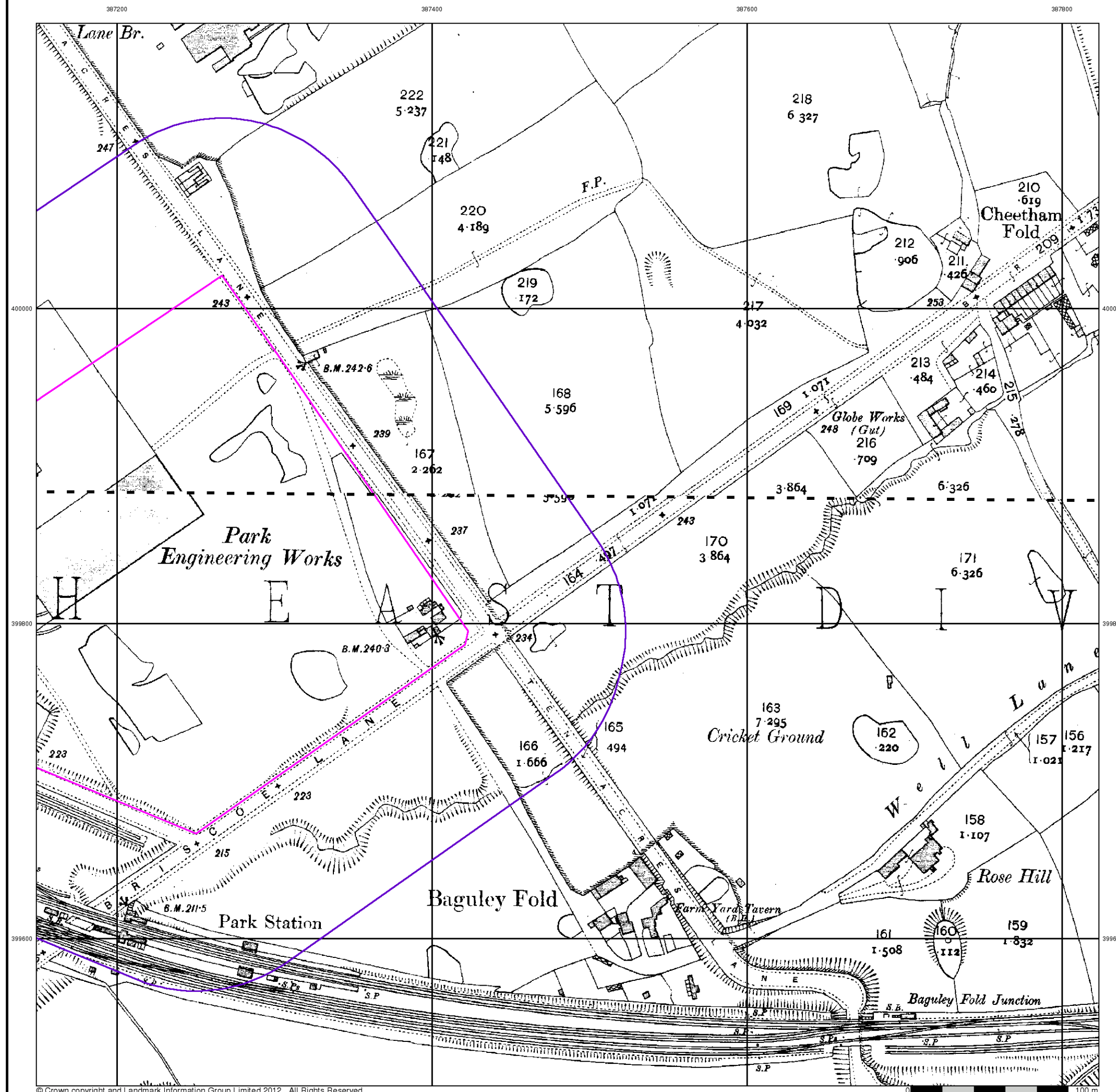
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

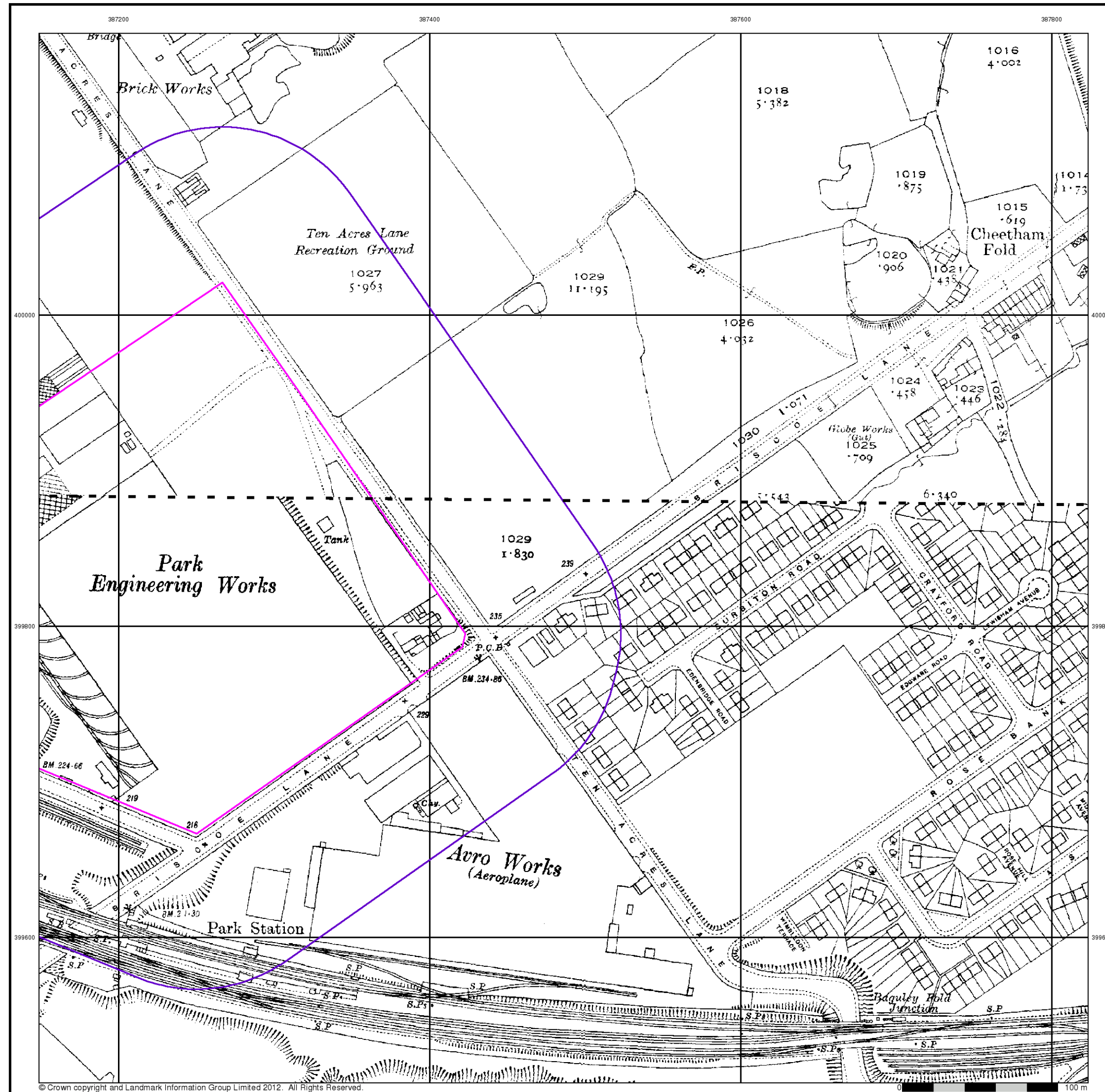
### Site Details

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## Lancashire And Furness

Published 1922

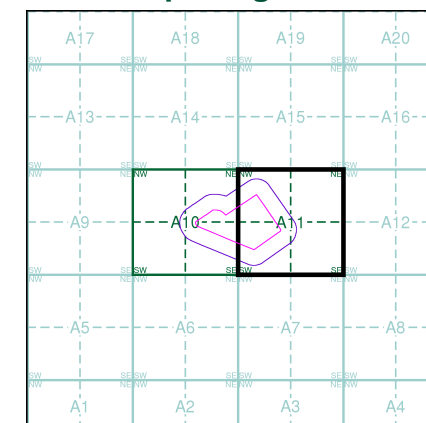
Source map scale - 1:2,500

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)

104_04
1922
1:2,500
104_08
1922
1:2,500

### Historical Map - Segment A11



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

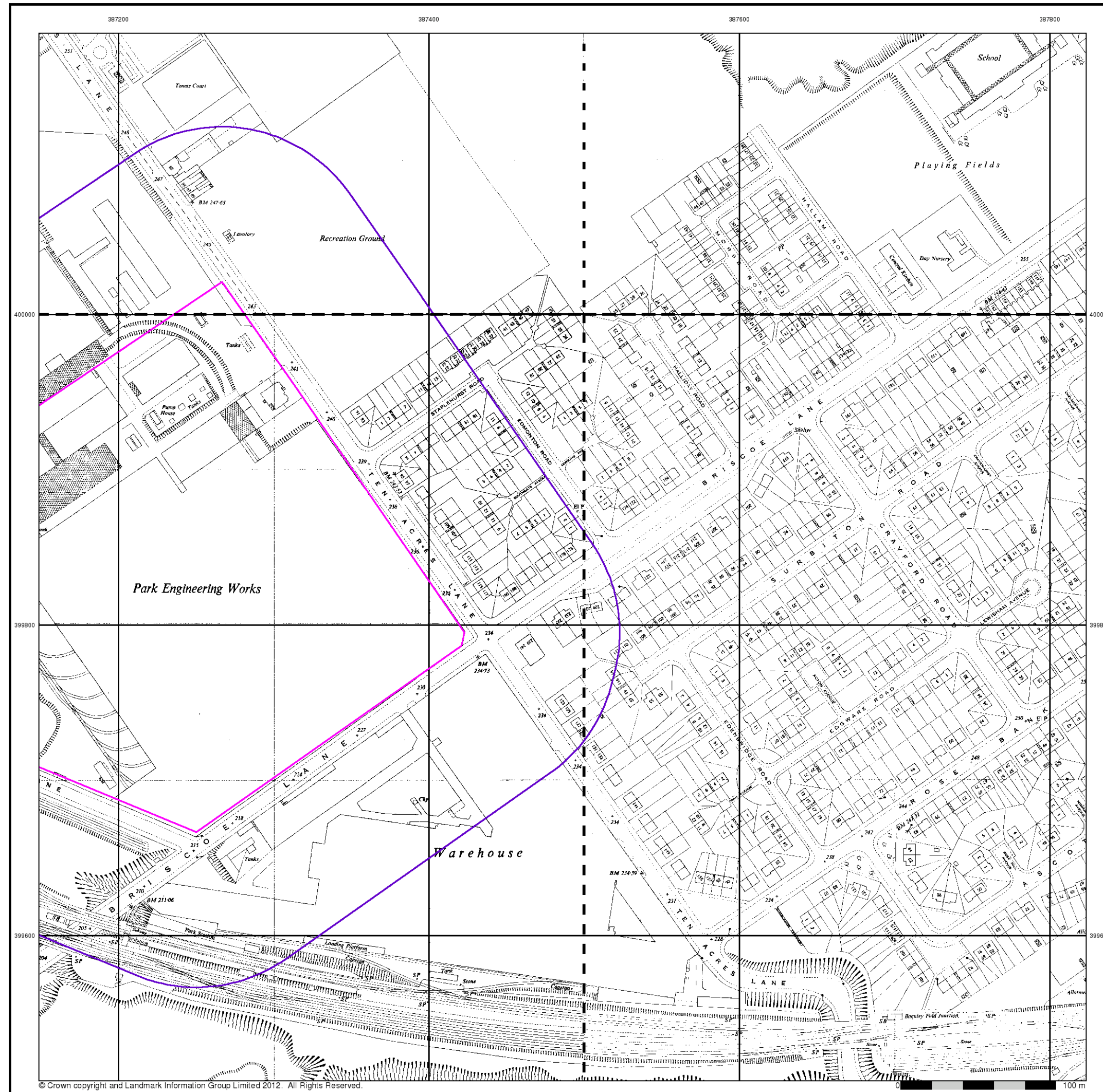
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## Ordnance Survey Plan

Published 1949 - 1951

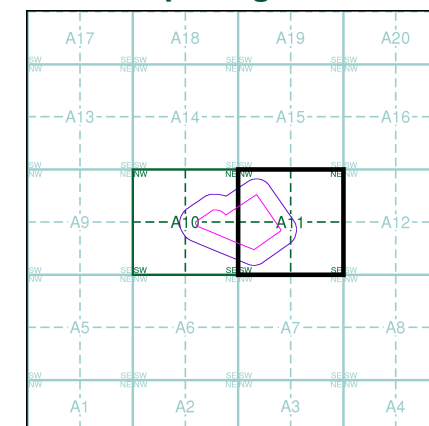
Source map scale - 1:1,250

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)

SD8700SW 1951 1:1,250	SD8700SE 1951 1:1,250
SJ8799NW 1949 1:1,250	SJ8799NE 1949 1:1,250

### Historical Map - Segment A11



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

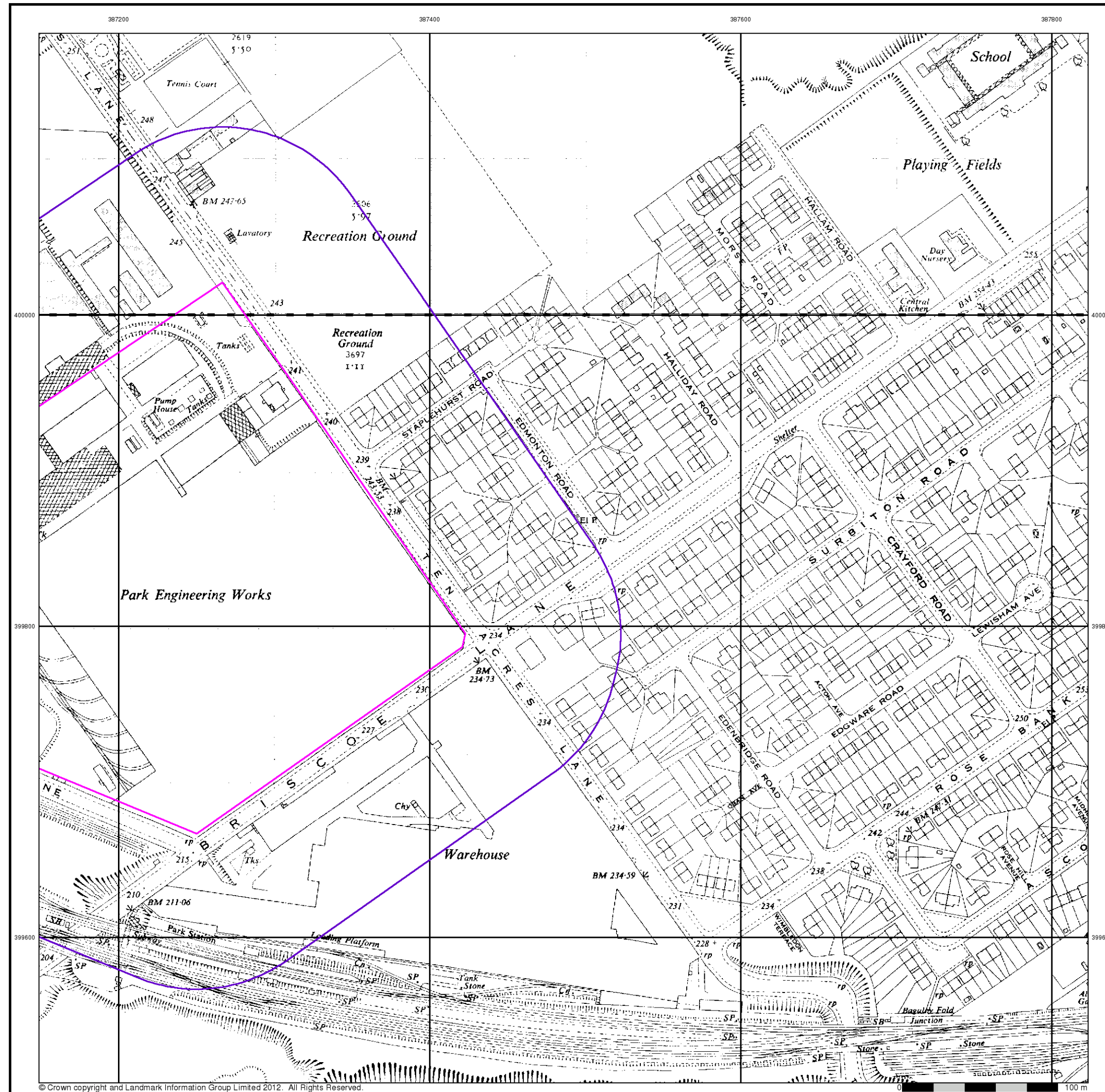
### Site Details

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## Ordnance Survey Plan

Published 1951

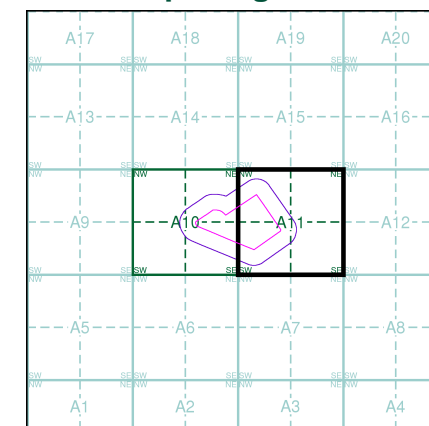
Source map scale - 1:2,500

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)

SD8700
1951
1:2,500
SJ8799
1951
1:2,500

### Historical Map - Segment A11



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

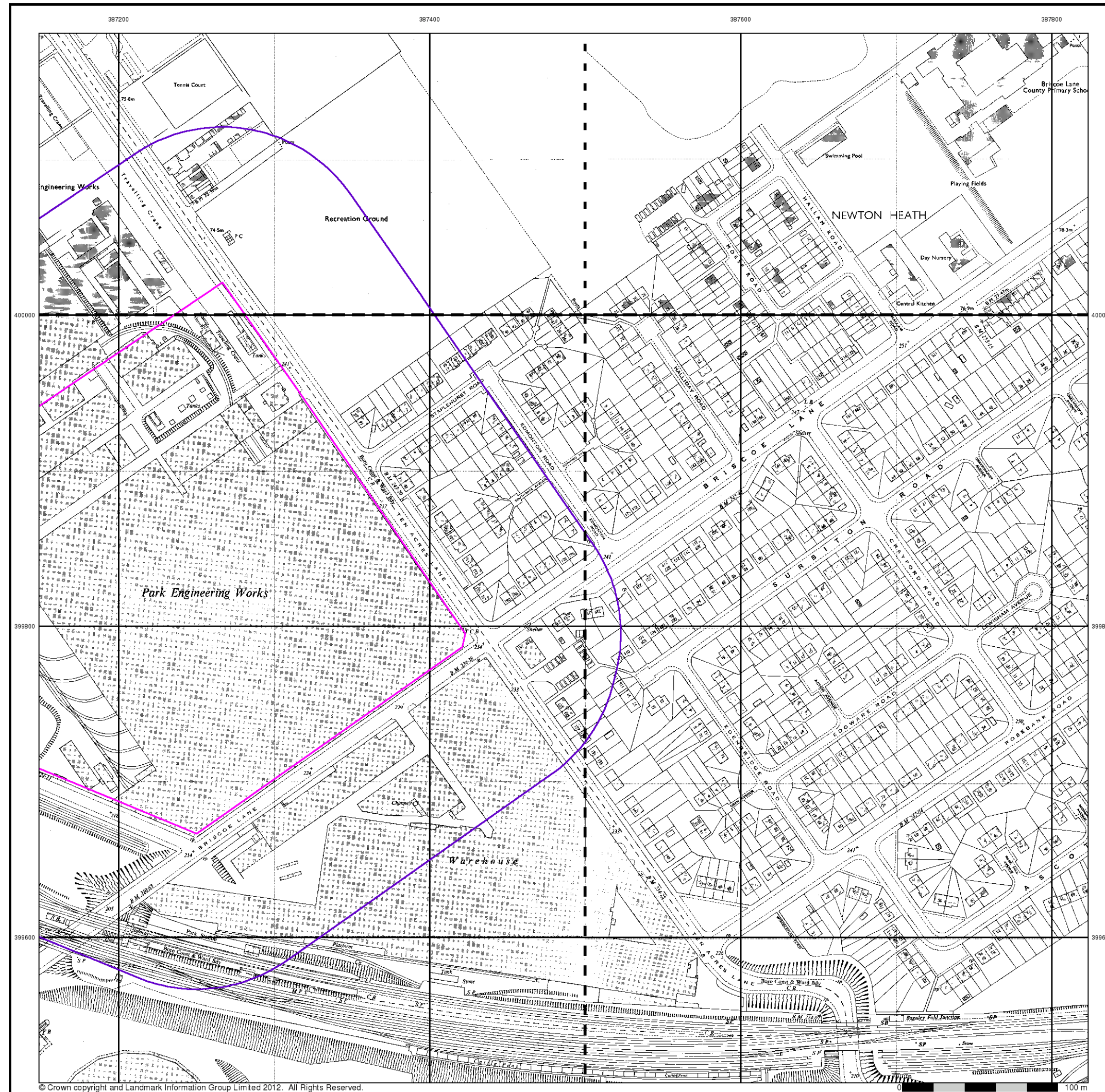
### Site Details

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## Ordnance Survey Plan

Published 1966 - 1973

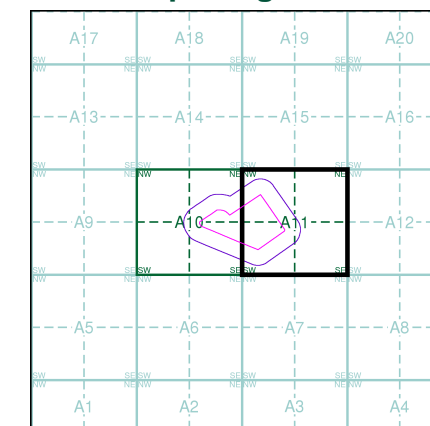
Source map scale - 1:1,250

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)

SD8700SW 1971 1:1,250	SD8700SE 1973 1:1,250
SJ8799NW 1966 1:1,250	SJ8799NE 1966 1:1,250

### Historical Map - Segment A11



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

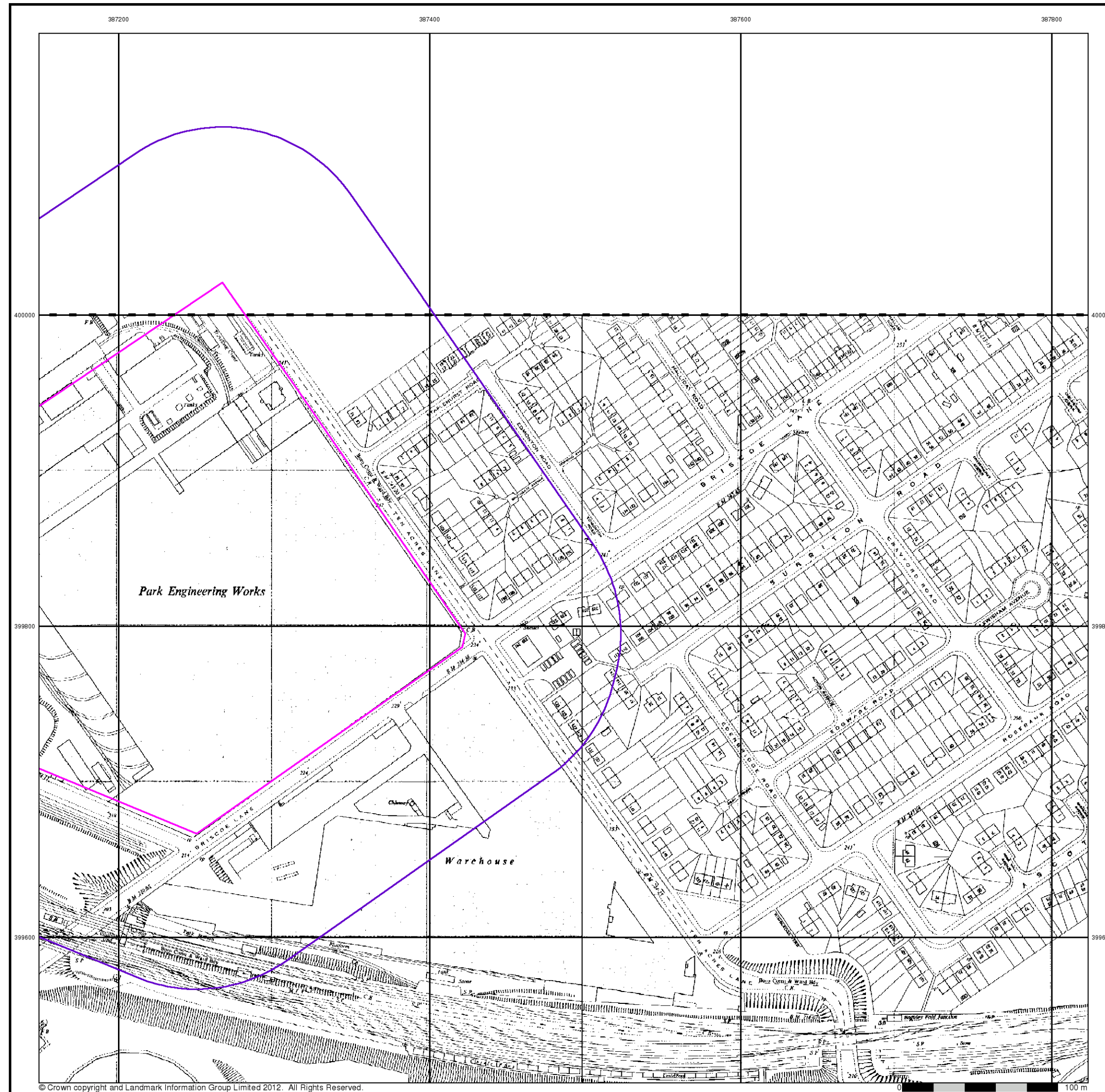
### Site Details

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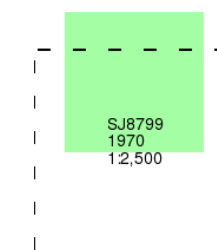
## Ordnance Survey Plan

Published 1970

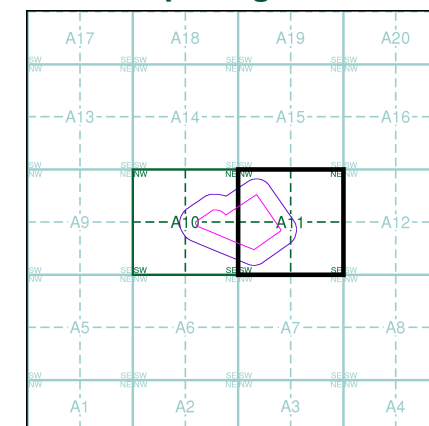
Source map scale - 1:2,500

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 A11



### Order Details

Order Number: 48456586\_1\_1  
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Slice: A  
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Search Buffer (m): 100

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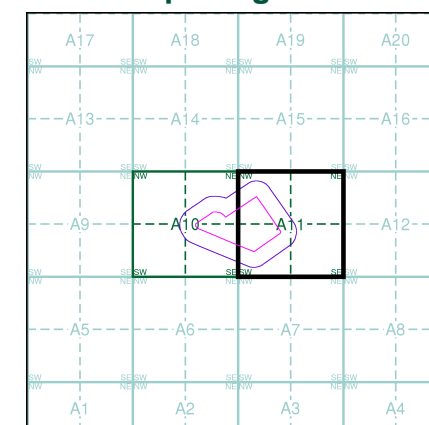


The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

### Map Name(s) and Date(s)

SD8700SW	SD8700S
1979	1983
1:1,250	1:1,250
SJ8799NW	SJ8799N
1991	1984
1:1,250	1:1,250

## Historical Map - Segment A11



## Order Details

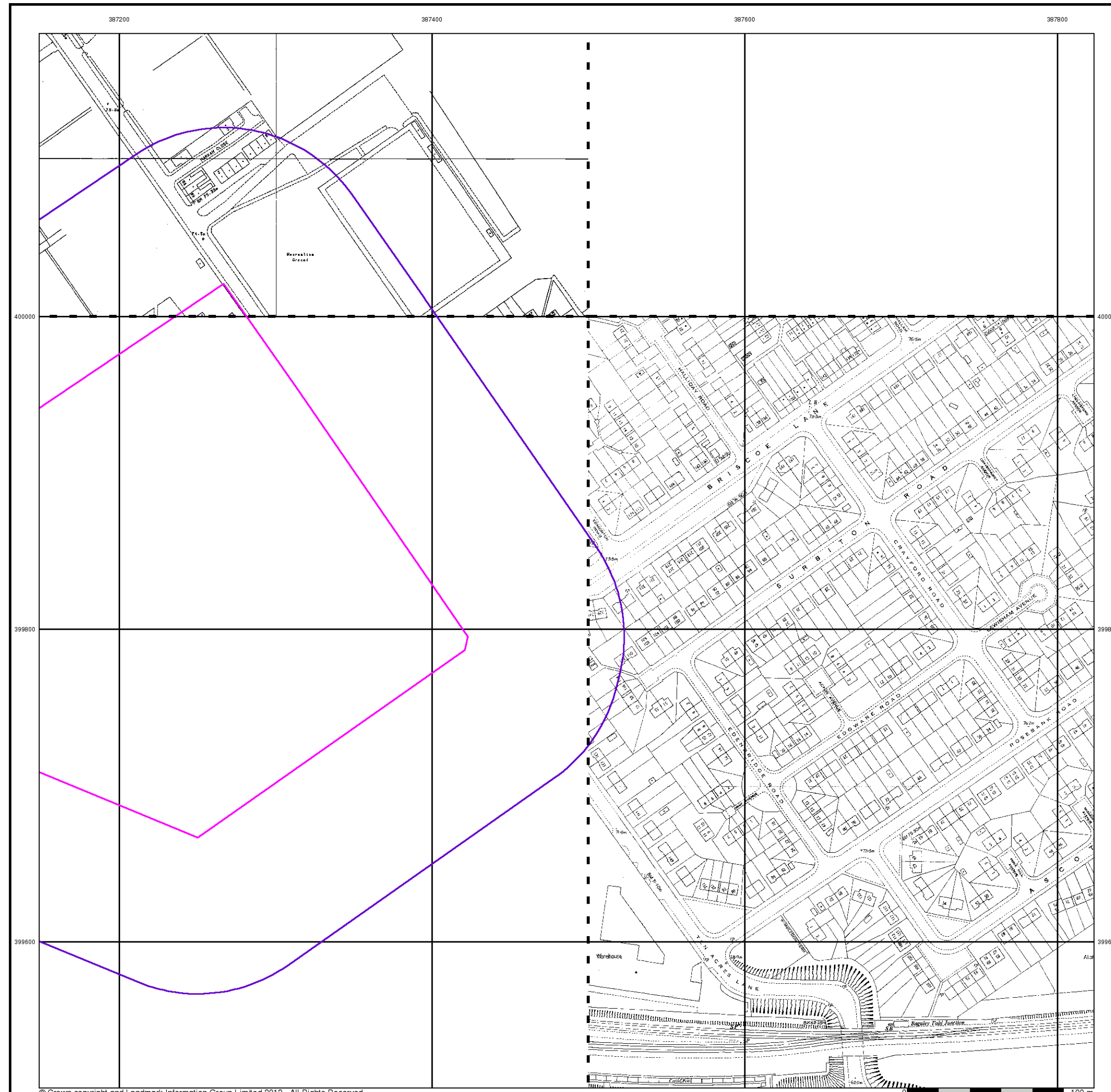
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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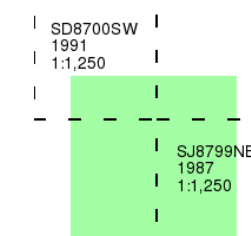
## Additional SIMs

Published 1987 - 1991

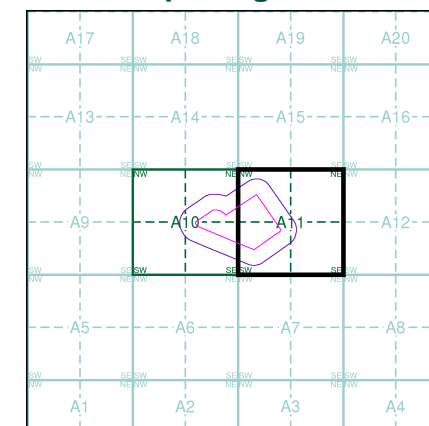
Source map scale - 1:1,250

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)



## Historical Map - Segment A11



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
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## Large-Scale National Grid Data

Published 1992

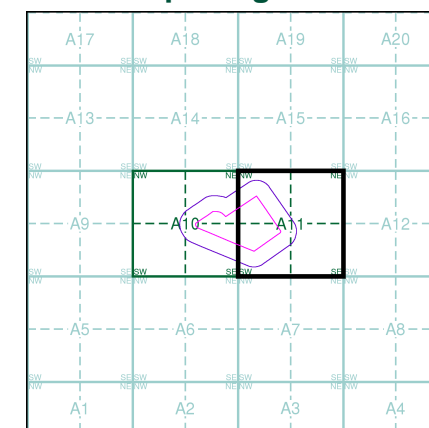
Source map scale - 1:1,250

'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)

SD8700SW	SD8700SE
1992	1992
1:1,250	1:1,250
SJ8799NW	SJ8799NE
1992	1992
1:1,250	1:1,250

### Historical Map - Segment A11



### Order Details

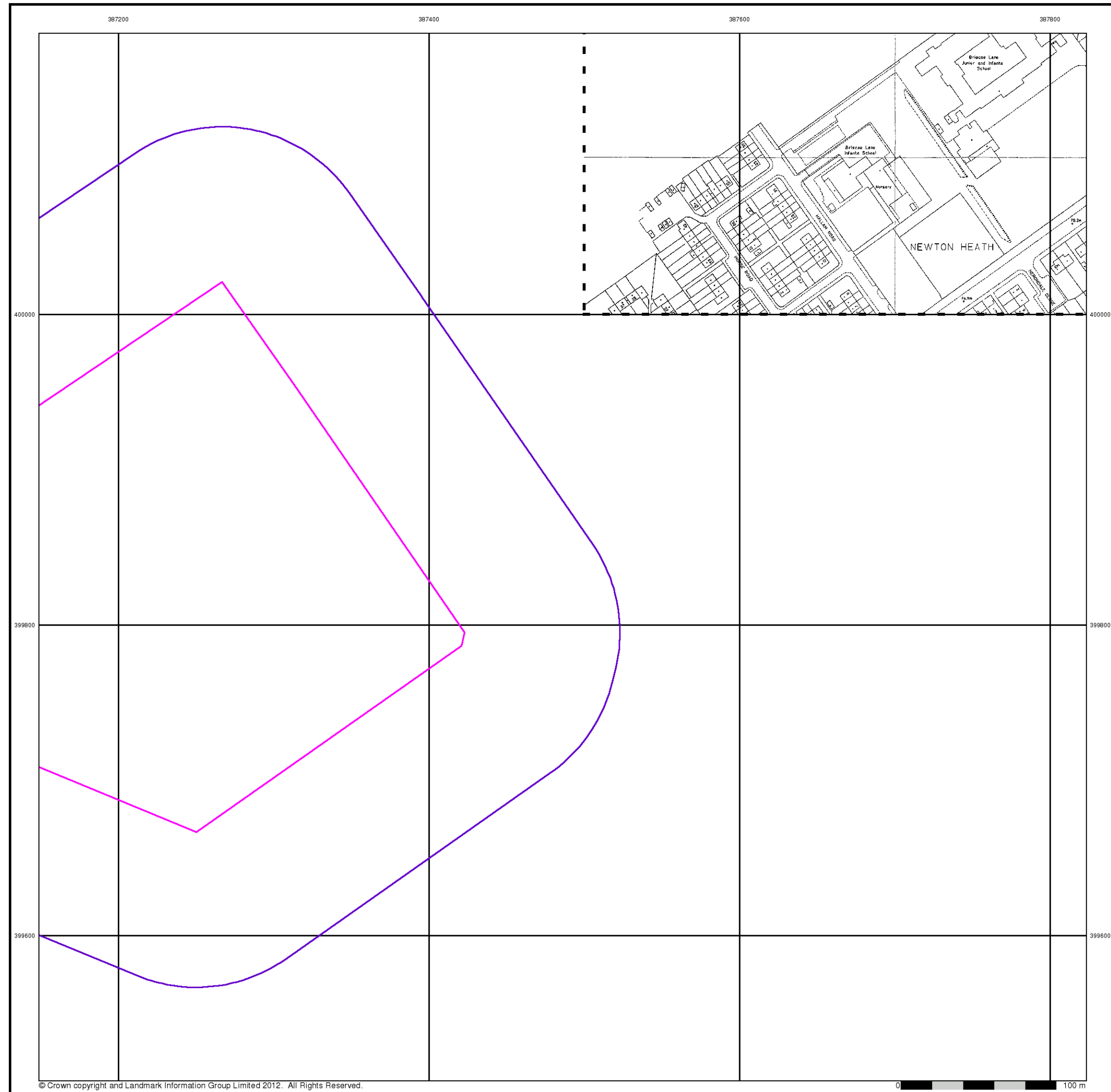
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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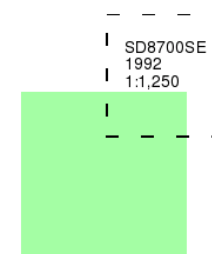
## Large-Scale National Grid Data

Published 1992

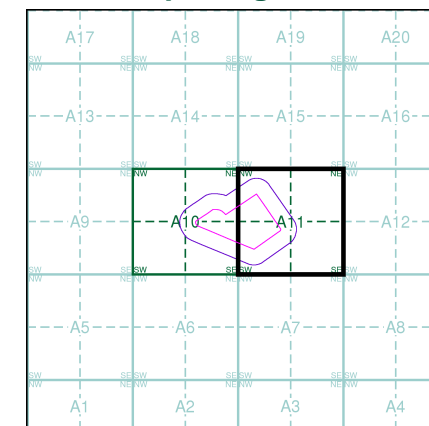
Source map scale - 1:1,250

'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)



### Historical Map - Segment A11



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 100

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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

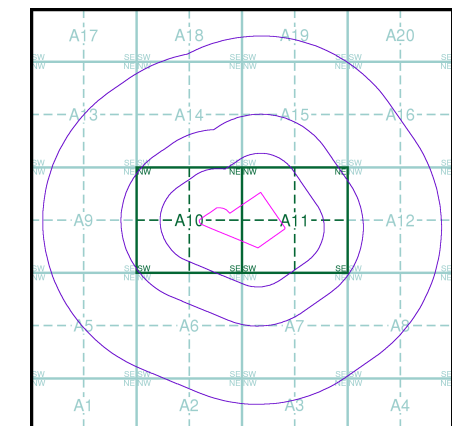
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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



## 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	10
Cheshire	1:10,560	1938	11
Lancashire And Furness	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	2006	20
10K Raster Mapping	1:10,000	2013	21

## Historical Map - Slice A



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

## Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



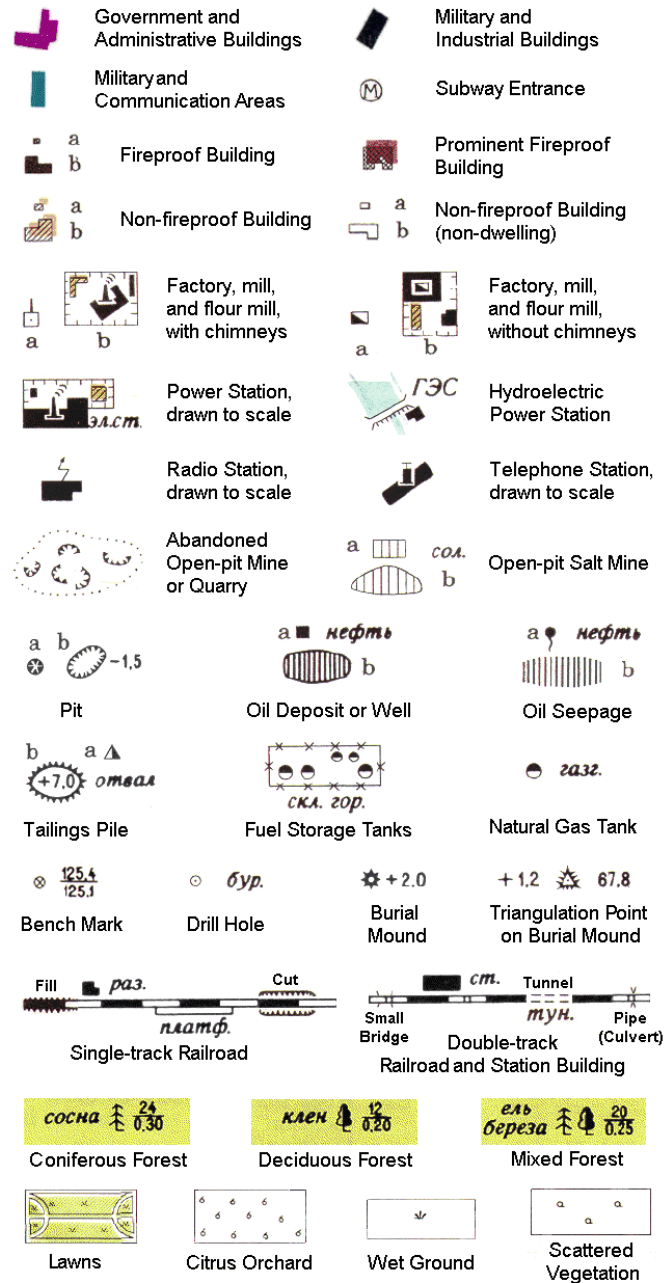
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Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



# Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale



**243.8** Values for prominent elevations

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

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

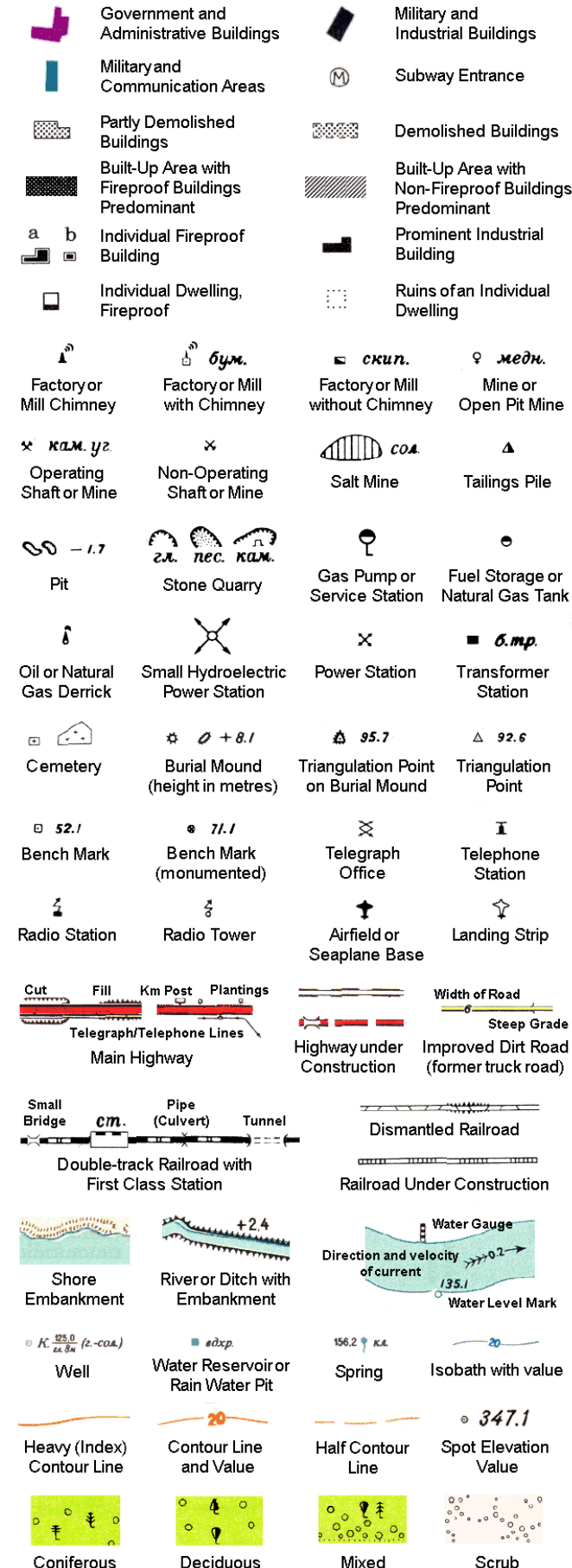
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

## 1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



## Key to Numbers on Mapping

### SD80\_Manchester

No.	Description
24	Depot (Railway)
75	Factory (Locomotives And Railway Carriage Repairs)
136	Foundry (Cast Iron)
233	Factory (Textiles)

### SJ89\_Manchester

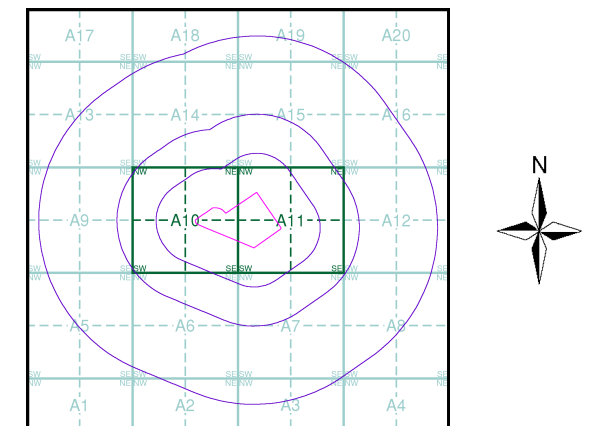
No.	Description
61	Factory (Gas)
64	Factory (Gas)
83	Factory (Machinery)
252	Power Station (Electric)



## 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	10
Cheshire	1:10,560	1938	11
Lancashire And Furness	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	2006	20
10K Raster Mapping	1:10,000	2013	21

## Russian Map - Slice A



## Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

## Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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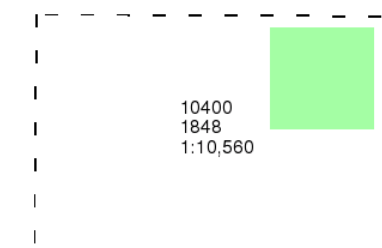
## Lancashire And Furness

Published 1848

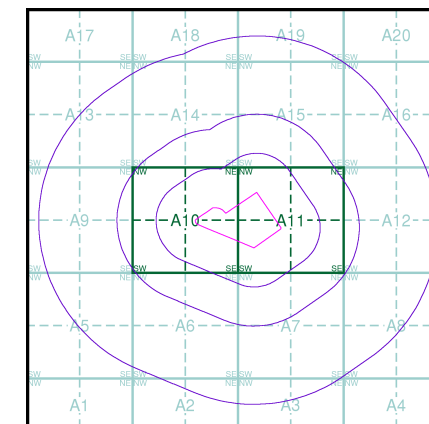
Source map scale - 1:10,560

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

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
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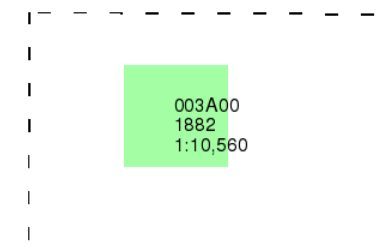
Cheshire

Published 1882

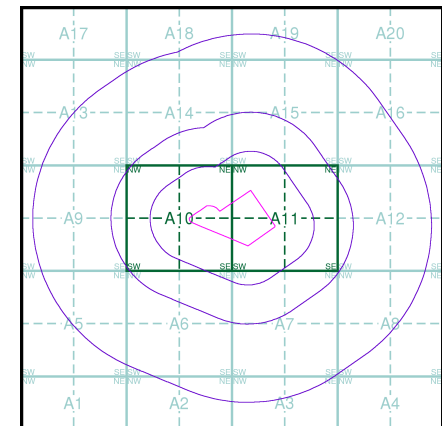
Source map scale - 1:10,560

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

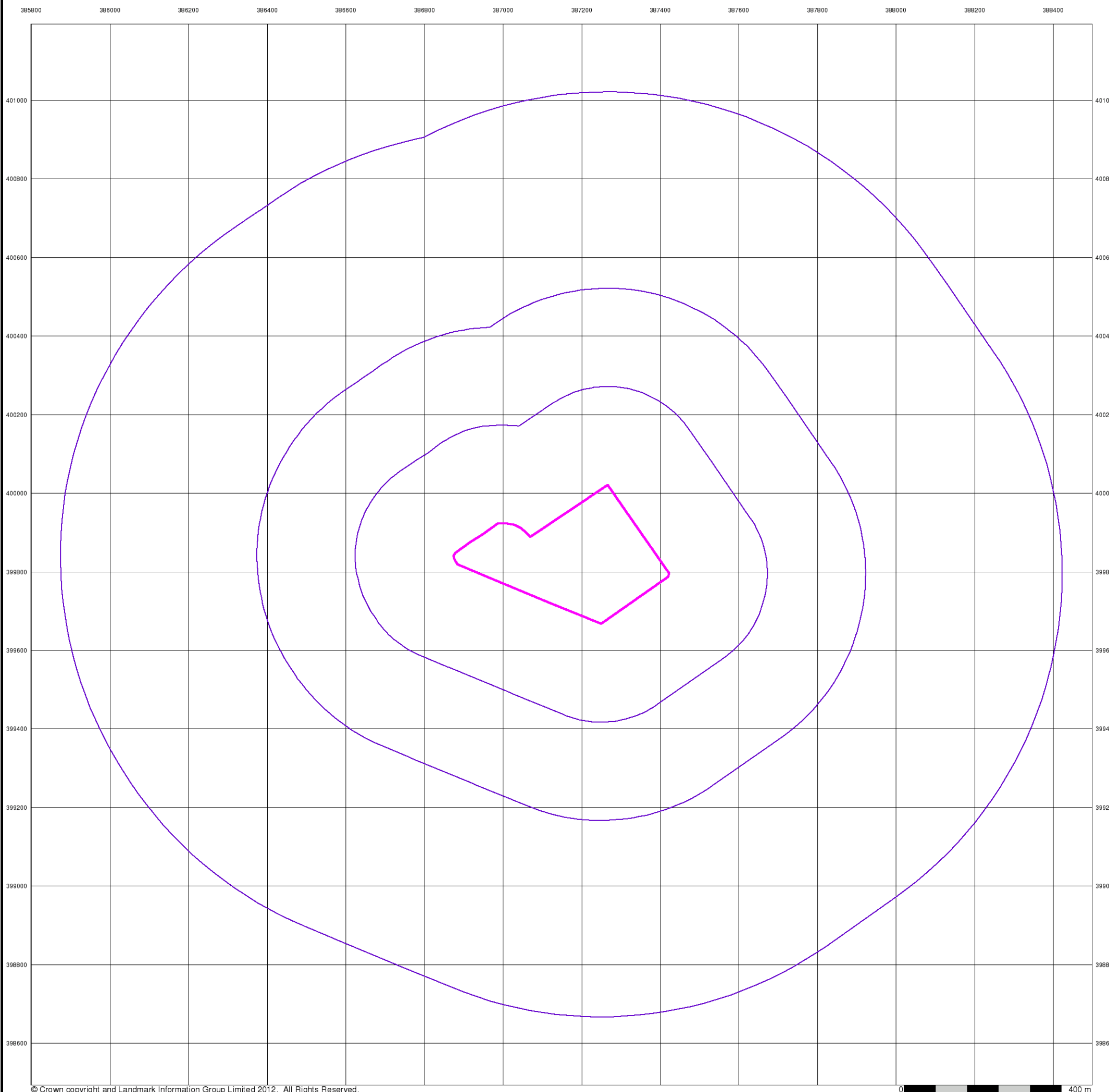
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National Grid Reference: 387160, 399840  
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Site Area (Ha): 9.96  
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### Site Details

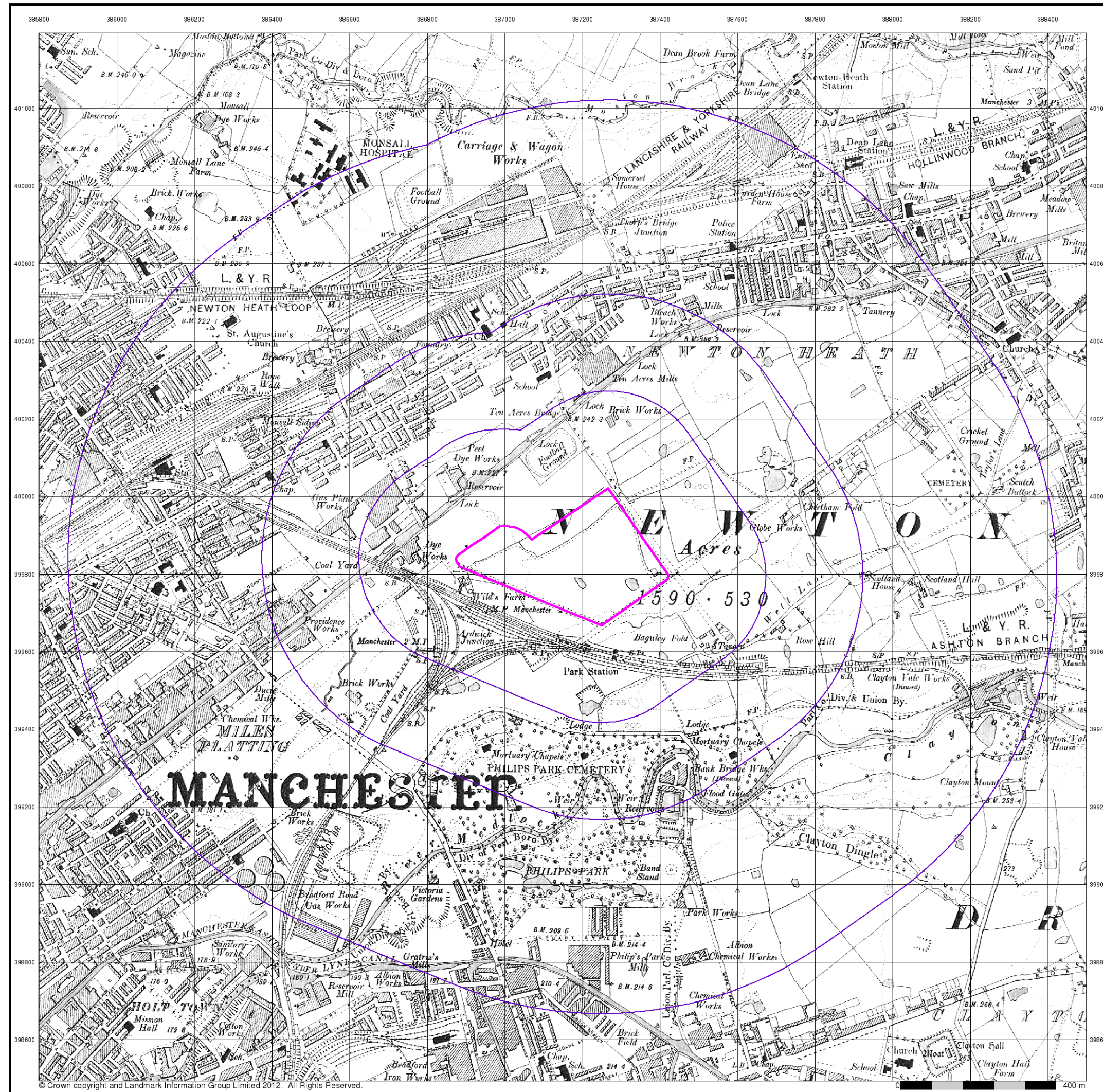
Plot 2, Grimshaw Lane, Newton Heath, Manchester



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Web: www.envirocheck.co.uk







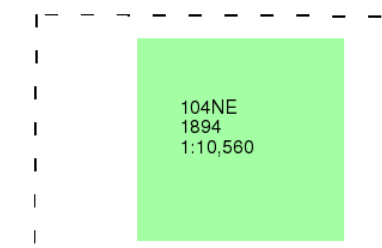
## Lancashire And Furness

Published 1894

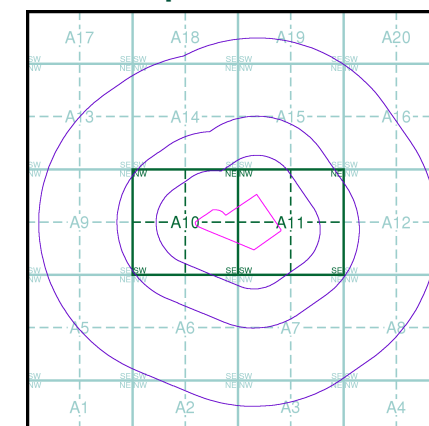
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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
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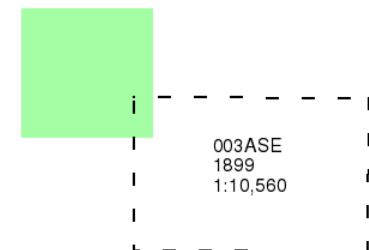
Cheshire

Published 1899

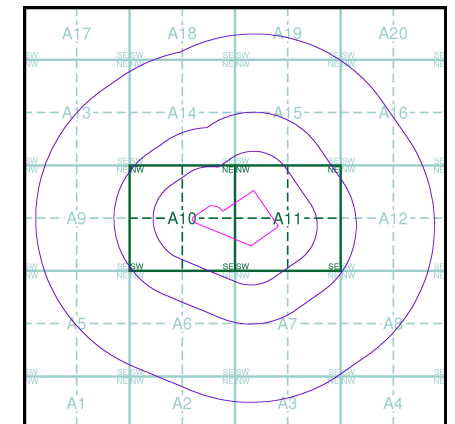
Source map scale - 1:10,560

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.

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### Historical Map - Slice A



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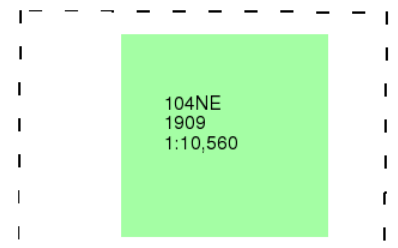
## Lancashire And Furness

Published 1909

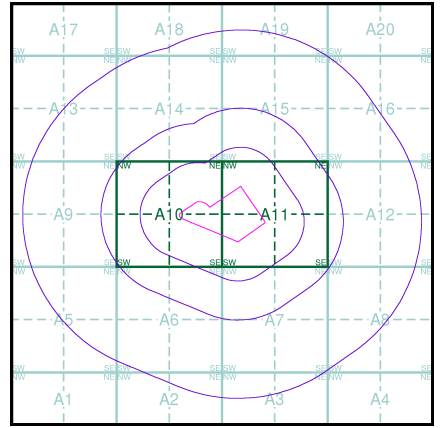
Source map scale - 1:10,560

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)



### Historical Map - Slice A



### Order Details

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Customer Ref: A083215 Plot 2  
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### Site Details

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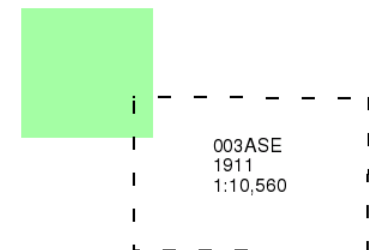
Cheshire

Published 1911

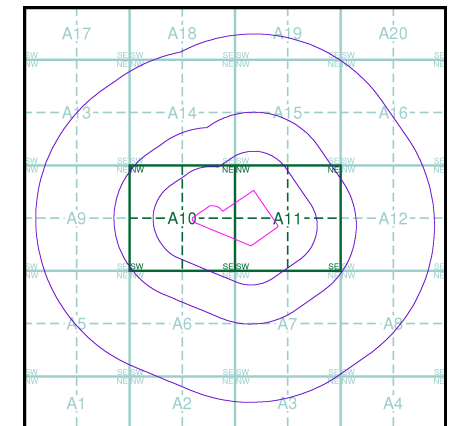
Source map scale - 1:10,560

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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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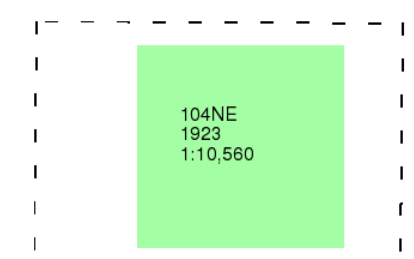
## Lancashire And Furness

Published 1923

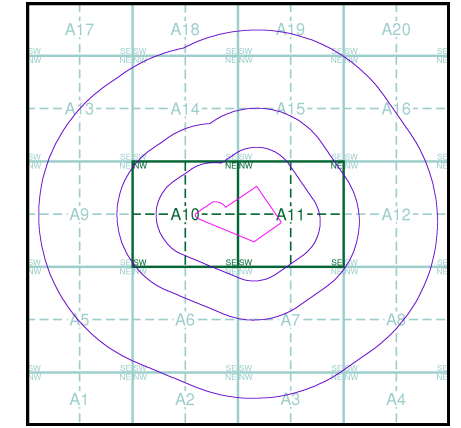
Source map scale - 1:10,560

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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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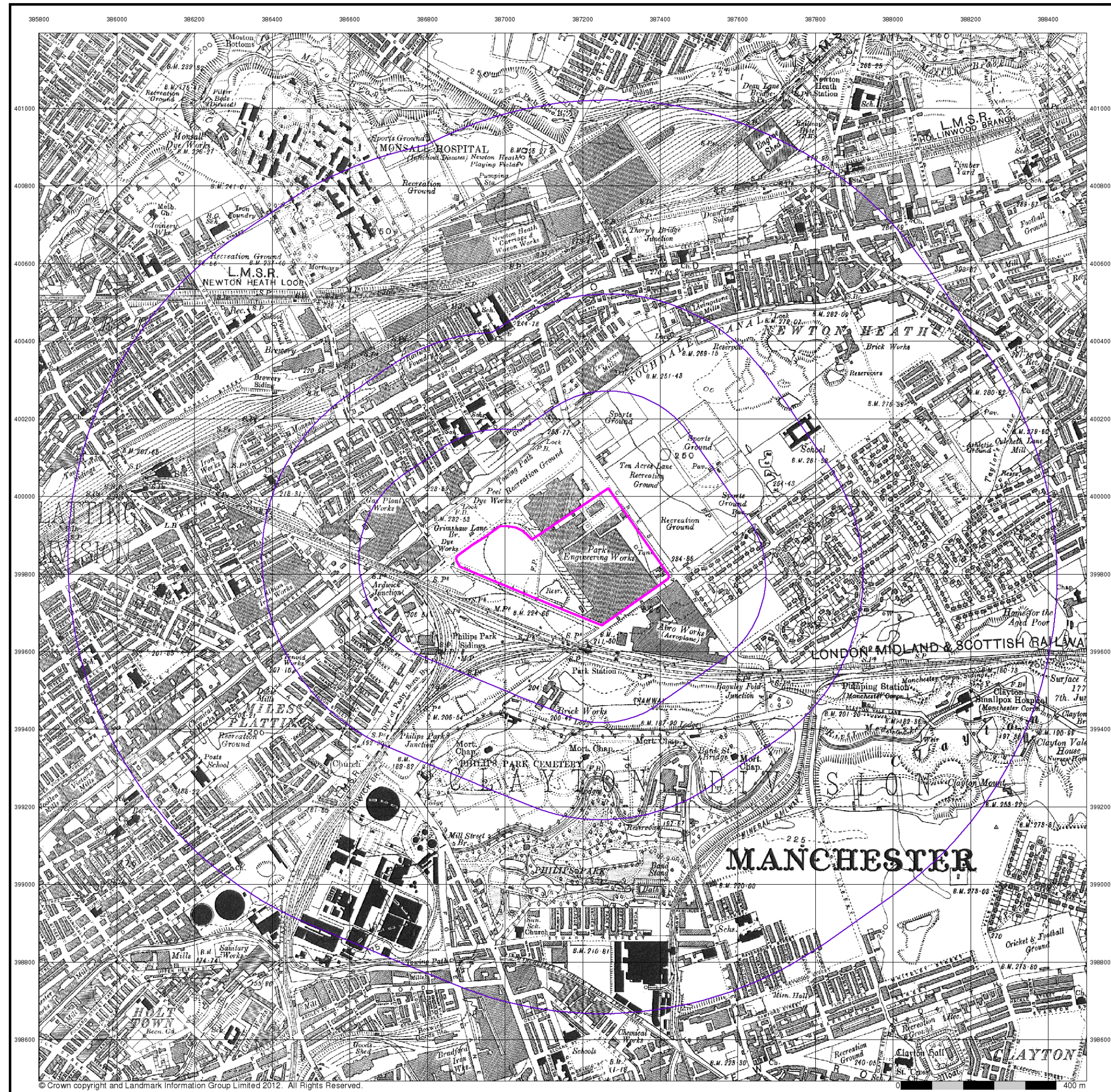
### Site Details

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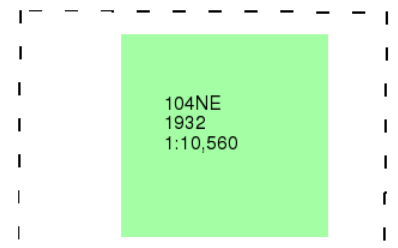
## Lancashire And Furness

Published 1932

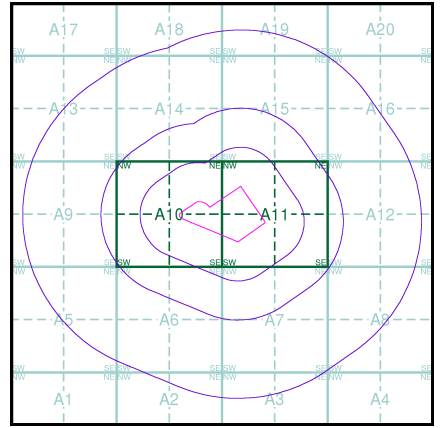
Source map scale - 1:10,560

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: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
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### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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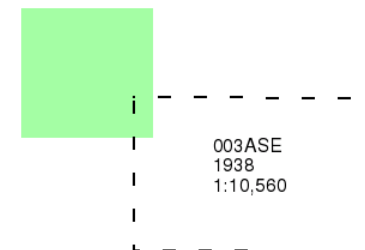
Cheshire

Published 1938

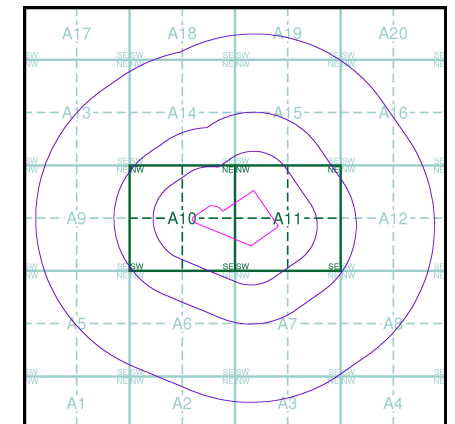
Source map scale - 1:10,560

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### Historical Map - Slice A



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

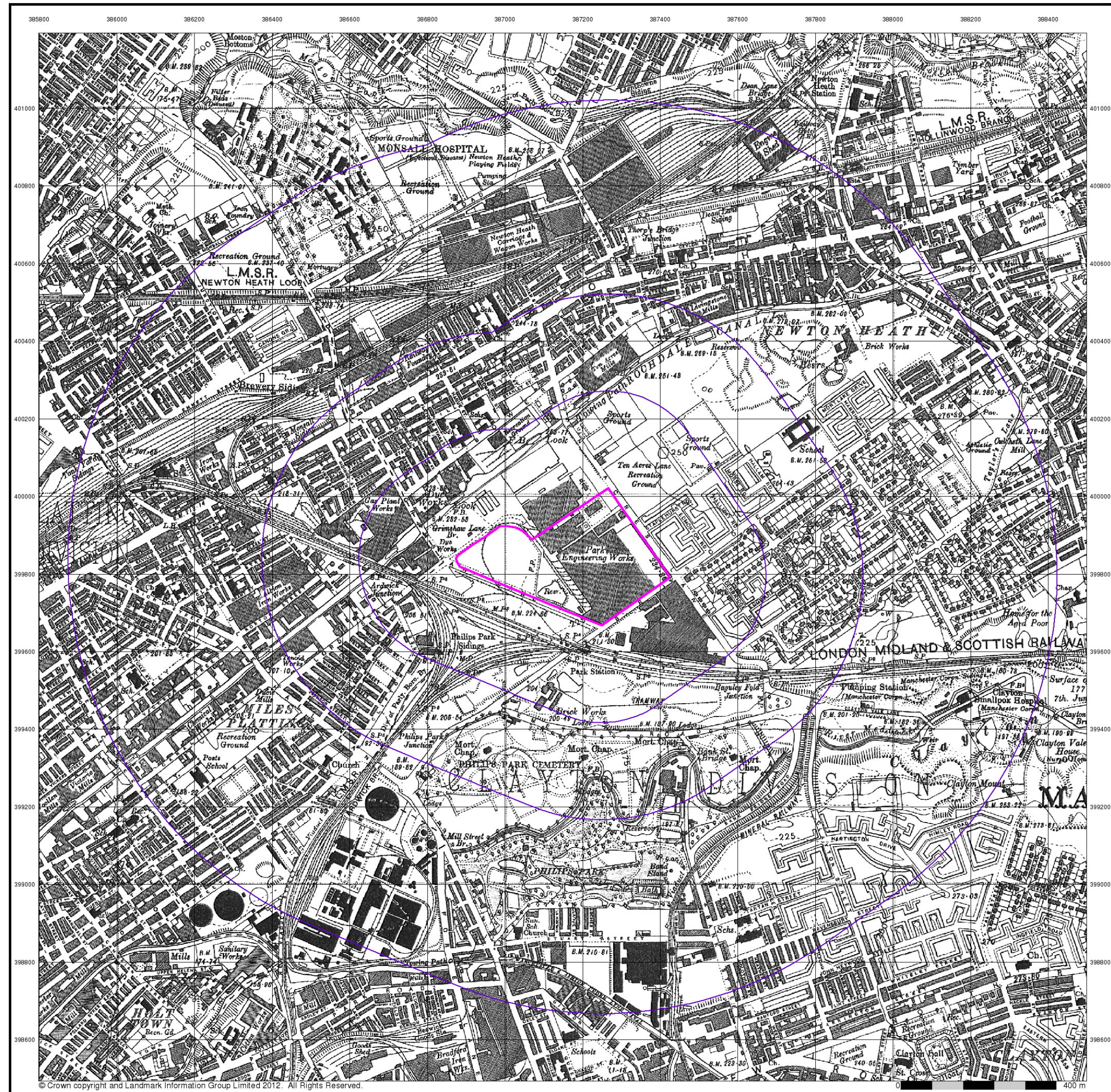
### Site Details

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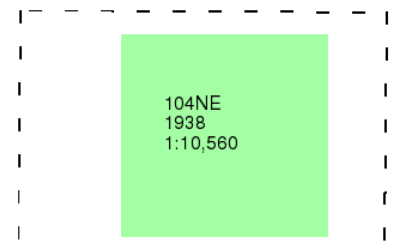
## Lancashire And Furness

Published 1938

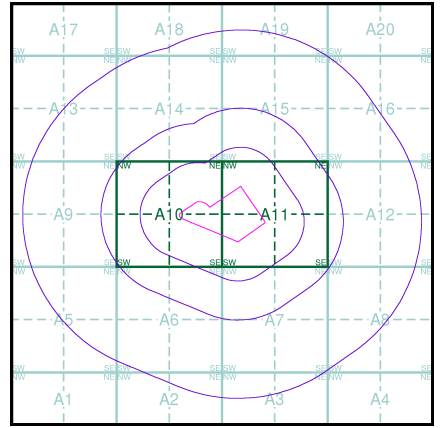
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### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

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Customer Ref: A083215 Plot 2  
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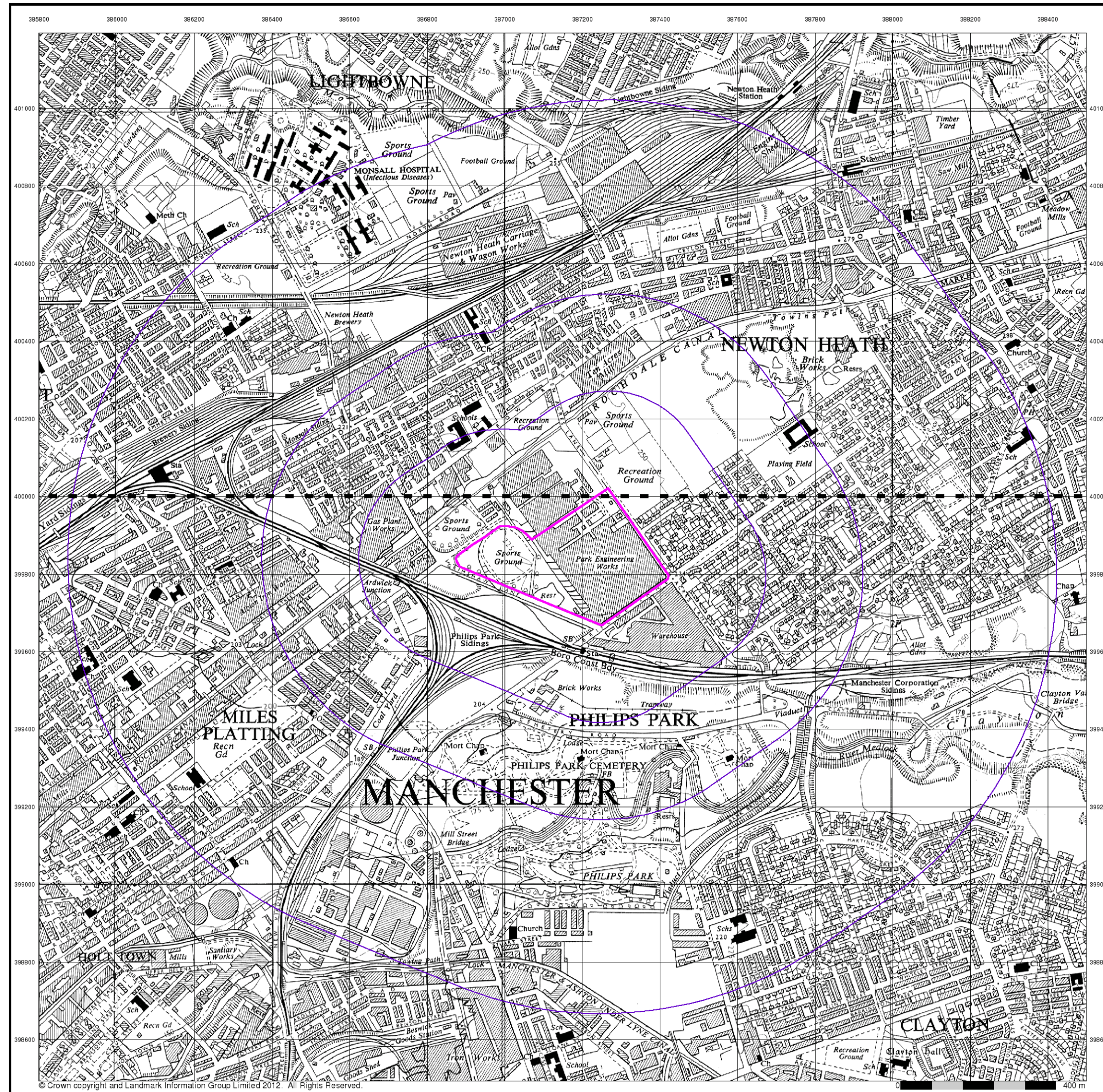
### Site Details

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## Ordnance Survey Plan

Published 1956

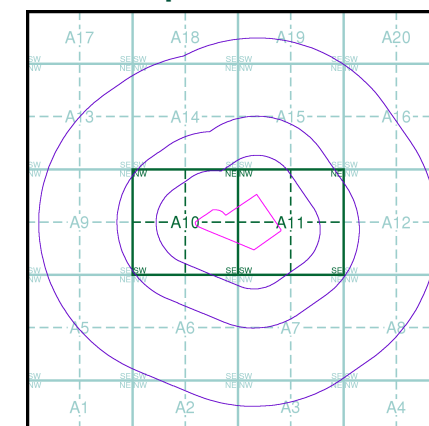
Source map scale - 1:10,000

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

### Map Name(s) and Date(s)

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

### Historical Map - Slice A



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

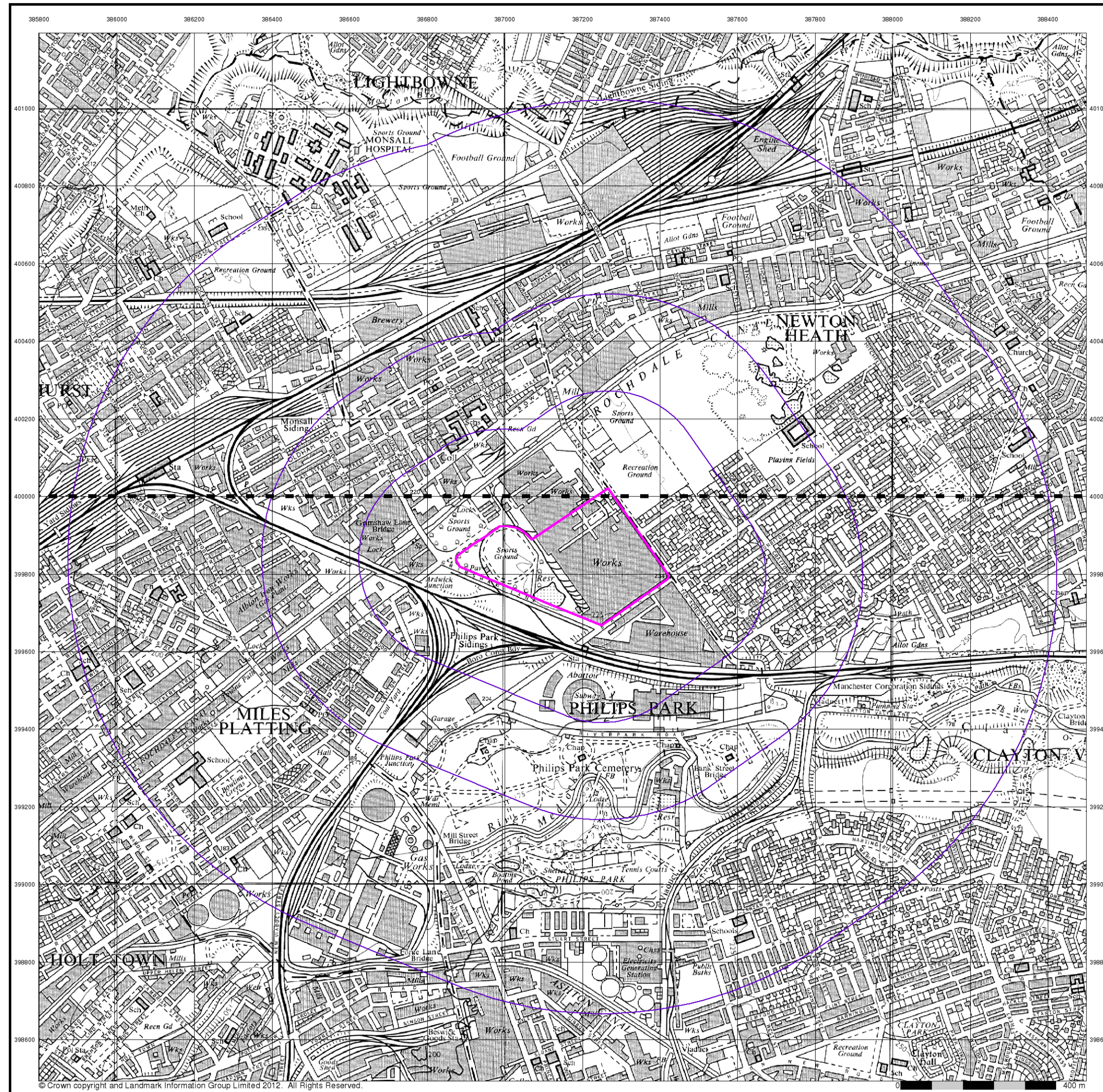
### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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





## Ordnance Survey Plan

Published 1966 - 1968

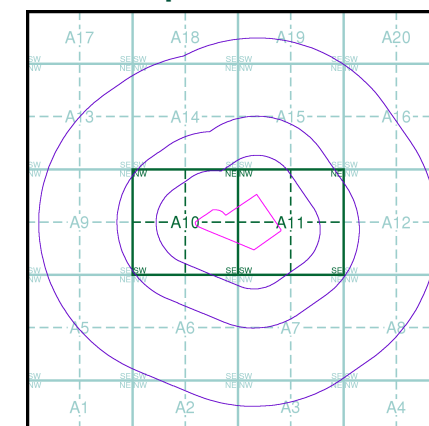
Source map scale - 1:10,000

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: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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## Manchester

Published 1975

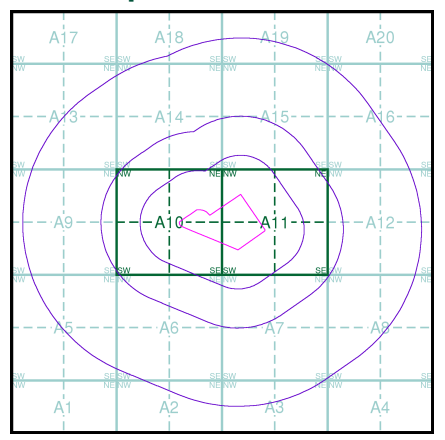
Source map scale - 1:25,000

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

### Map Name(s) and Date(s)

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

### Russian Map - Slice A



### Order Details

Order Number:	48456586_1_1
Customer Ref:	A083215 Plot 2
National Grid Reference:	387160, 399840
Slice:	A
Site Area (Ha):	9.96
Search Buffer (m):	1000

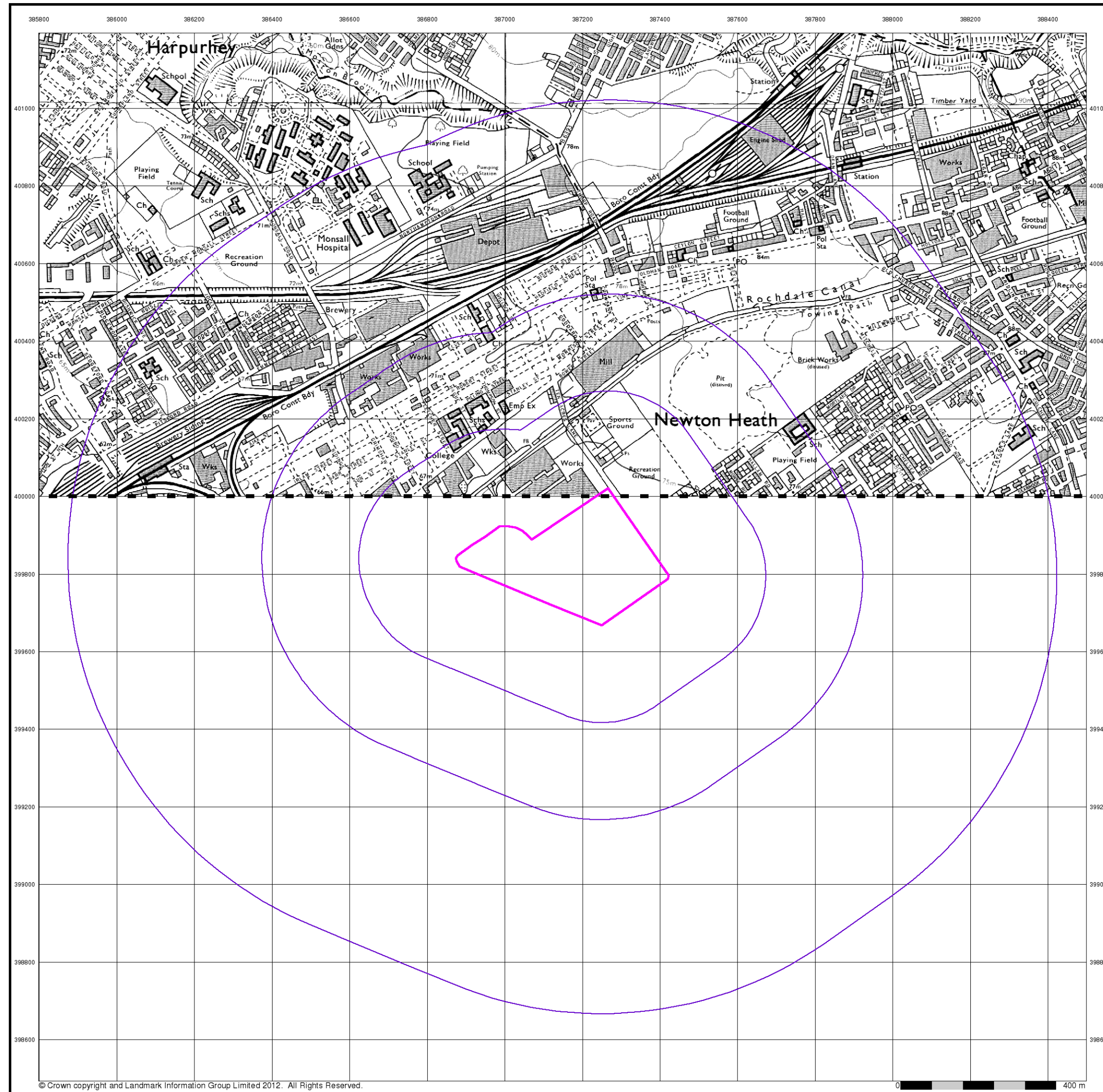
### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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





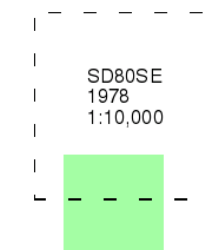
## Ordnance Survey Plan

Published 1978

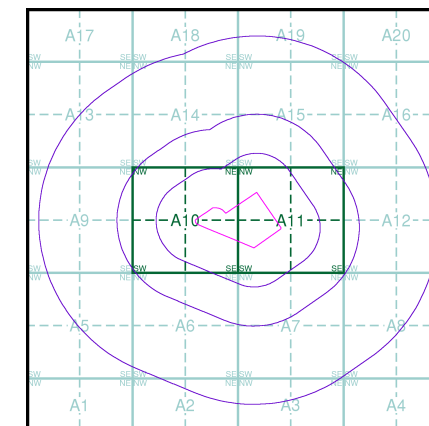
Source map scale - 1:10,000

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

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

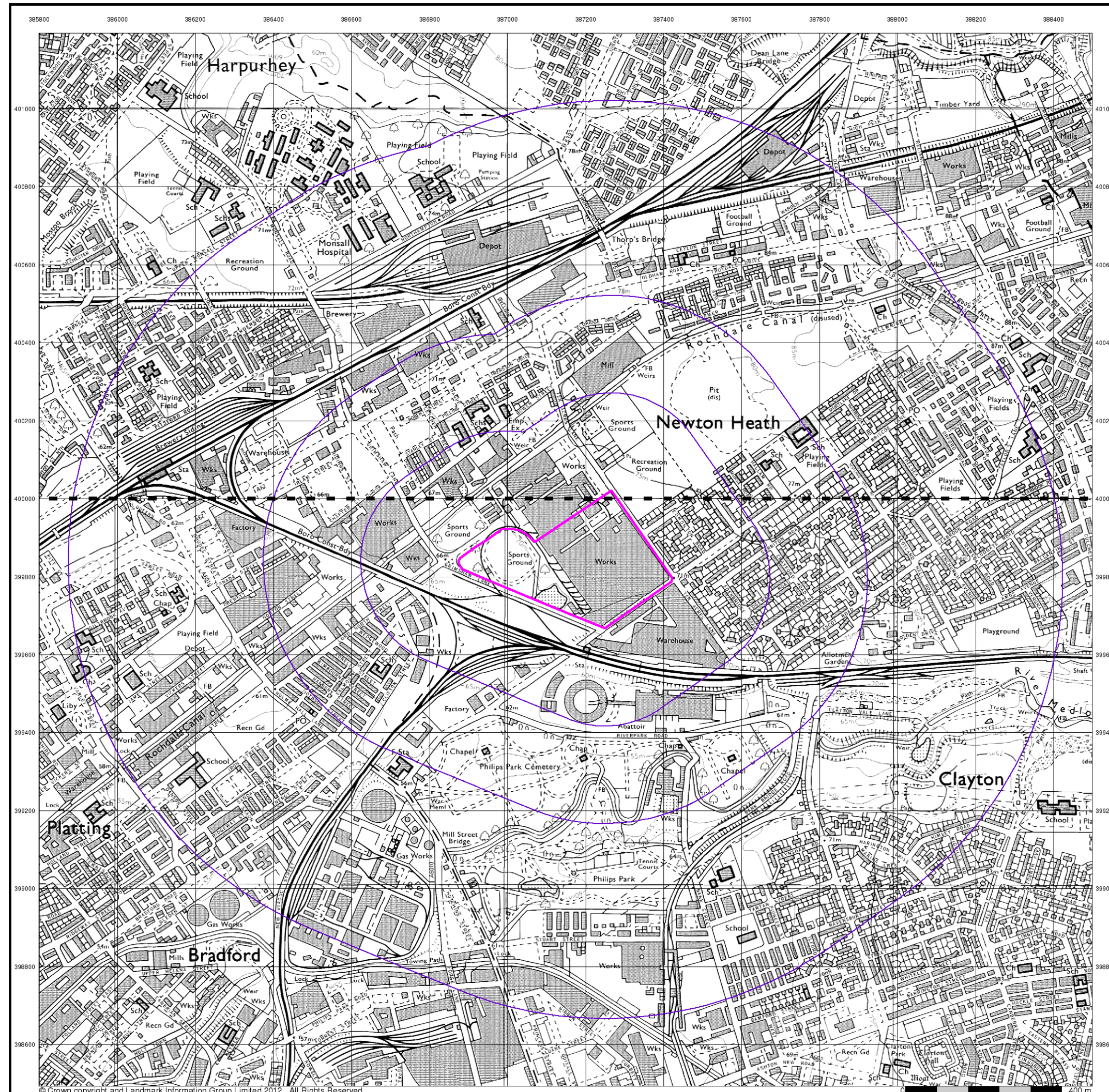
### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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## Ordnance Survey Plan

Published 1981 - 1982

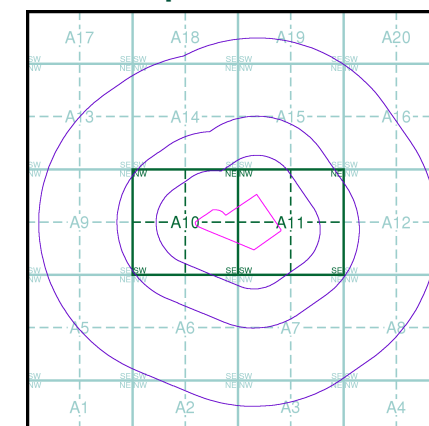
Source map scale - 1:10,000

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: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

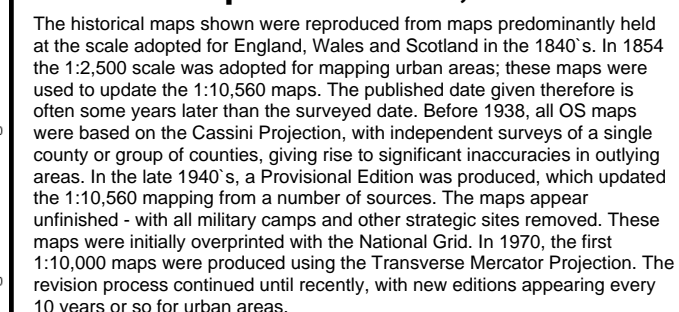
### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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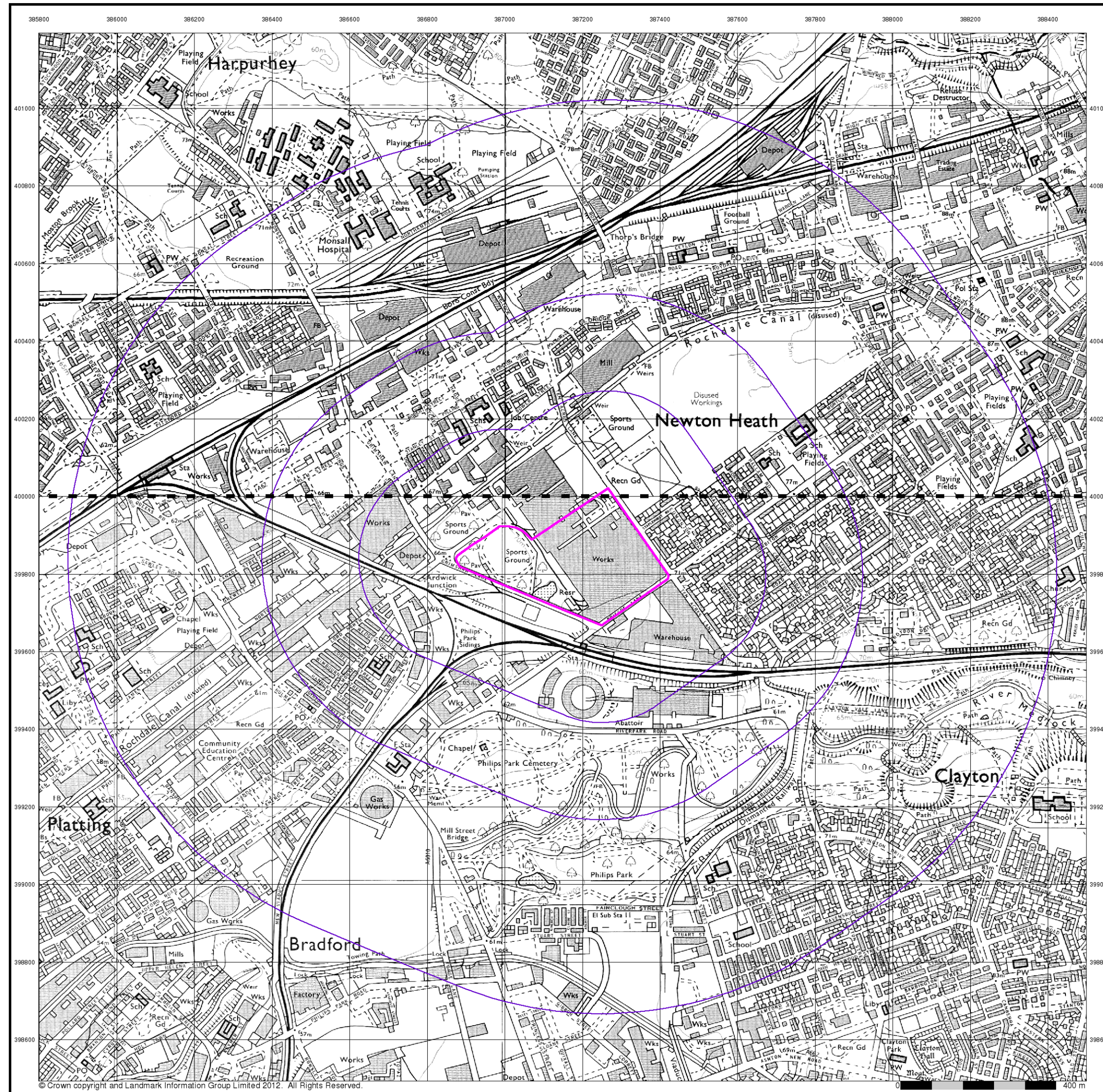
SJ89NE  
1987  
1:10,000

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

Plot 2, Grimshaw Lane, Newton Heath, Manchester







## Ordnance Survey Plan

Published 1990 - 1993

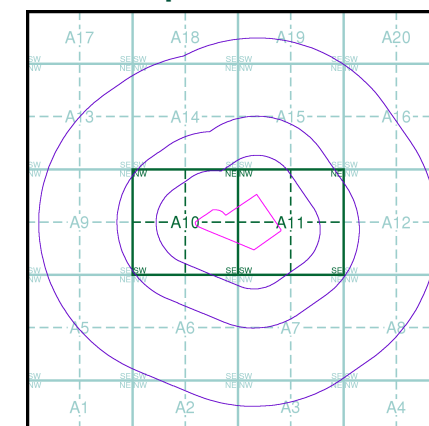
Source map scale - 1:10,000

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
1:10,000	
SJ89NE	1993
1:10,000	

### Historical Map - Slice A



### Order Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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





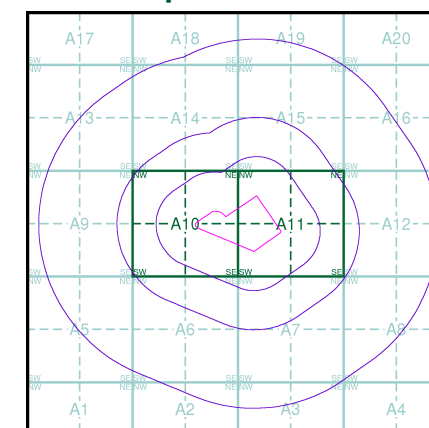
The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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 Details

Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

## Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





## 10k Raster Mapping

Published 2013

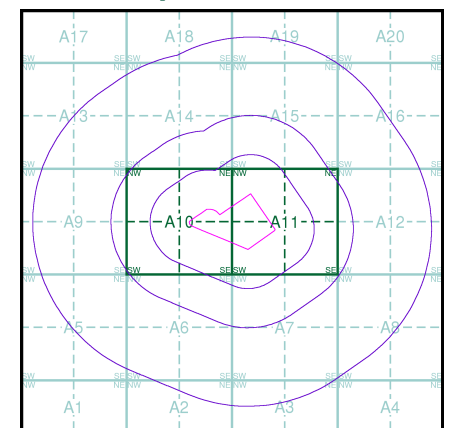
Source map scale - 1:10,000

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  
2013  
1:10,000  
SJ89NE  
2013  
1:10,000

### Historical Map - Slice A



### Order Details

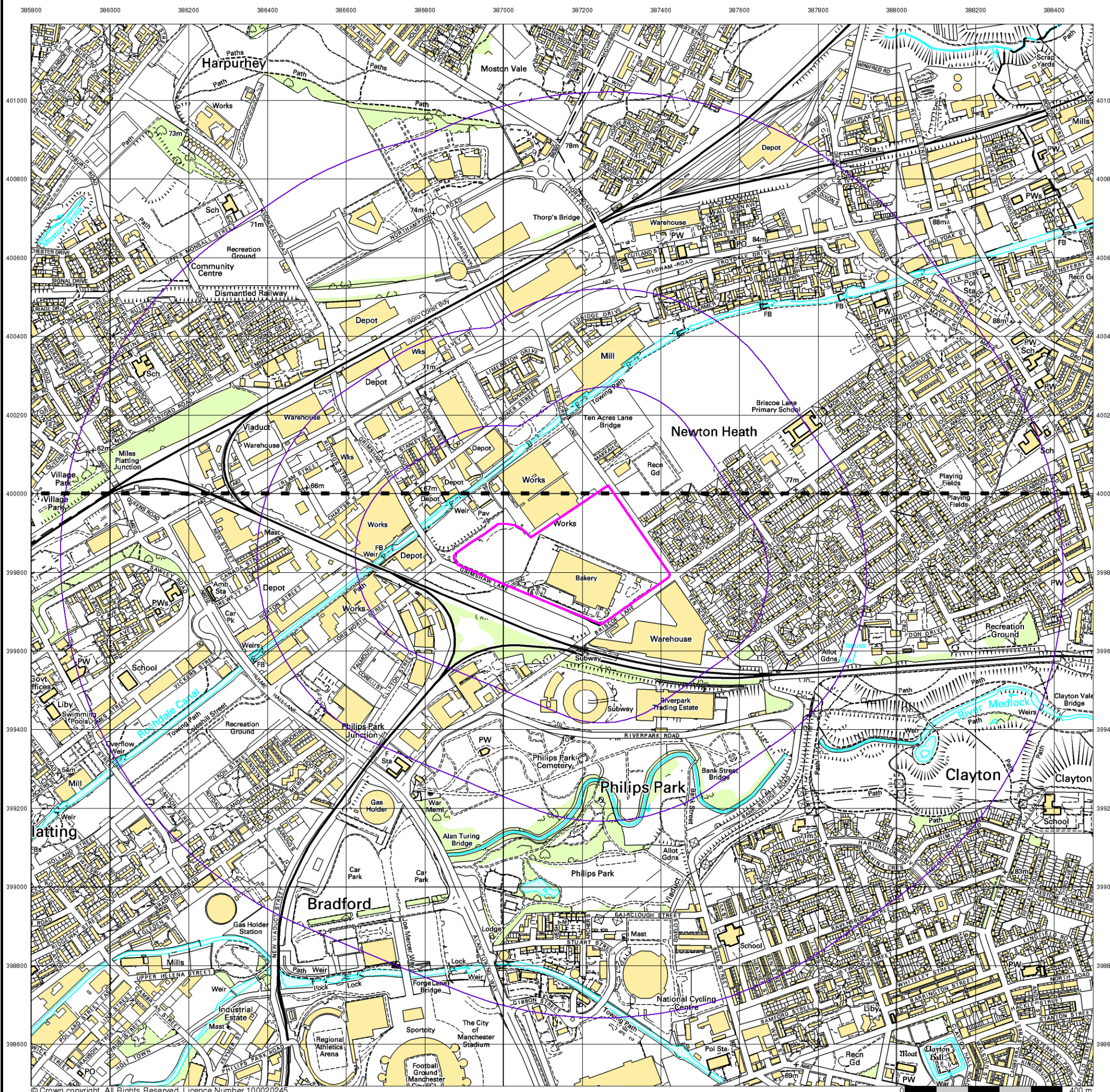
Order Number: 48456586\_1\_1  
Customer Ref: A083215 Plot 2  
National Grid Reference: 387160, 399840  
Slice: A  
Site Area (Ha): 9.96  
Search Buffer (m): 1000

### Site Details

Plot 2, Grimshaw Lane, Newton Heath, Manchester



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







## **Appendix D – Coal Authority Mining Report**

# The COAL AUTHORITY

Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG

Website: [www.groundstability.com](http://www.groundstability.com) Phone: 0845 762 6848 DX 716176 MANSFIELD 5

**WYG ENVIRONMENT PLANNING  
TRANSPORT LTD  
ARNDALE CENTRE  
ARNDALE COURT  
OTLEY ROAD  
LEEDS  
WEST YORKSHIRE  
LS6 2UJ**

Our reference: **51000355298001**  
Your reference: **A083215**  
Date of your enquiry: **22 August 2013**  
Date we received your enquiry: **22 August 2013**  
Date of issue: **22 August 2013**

This report is for the property described in the address below and the attached plan.

## **Non-Residential Coal Authority Mining Report**

### **WEIR PUMPS, NEWTON HEATH, MANCHESTER, GREATER MANCHESTER,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

### ***Information from the Coal Authority***

#### **Underground coal mining**

##### **Past**

The property is in the likely zone of influence from workings in 3 seams of coal at 130m to 600m depth, and last worked in 1964.

Any ground movement from these coal workings should have stopped by now.

In addition the property is in an area where the Coal Authority believe there is coal at or close to the surface. This coal may have been worked at some time in the past.

##### **Present**

The property is not in the likely zone of influence of any present underground coal workings.

##### **Future**

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

### **Mine entries**

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

Records may be incomplete. Consequently, there may exist in the local area mine entries of which the Coal Authority has no knowledge.

### **Coal mining geology**

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

### **Opencast coal mining**

#### **Past**

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

#### **Present**

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

#### **Future**

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

### **Coal mining subsidence**

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

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

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

### **Mine gas**

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

### **Hazards related to coal mining**

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

### **Withdrawal of support**

The property is in an area for which notices of entitlement to withdraw support were published in 1955, 1963.

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

### **Working facilities orders**

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

### **Payments to owners of former copyhold land**

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



### **Comments on Coal Authority information**

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

### ***Information from the Cheshire Brine Subsidence Compensation Board***

The property lies outside the Cheshire Brine Compensation District.

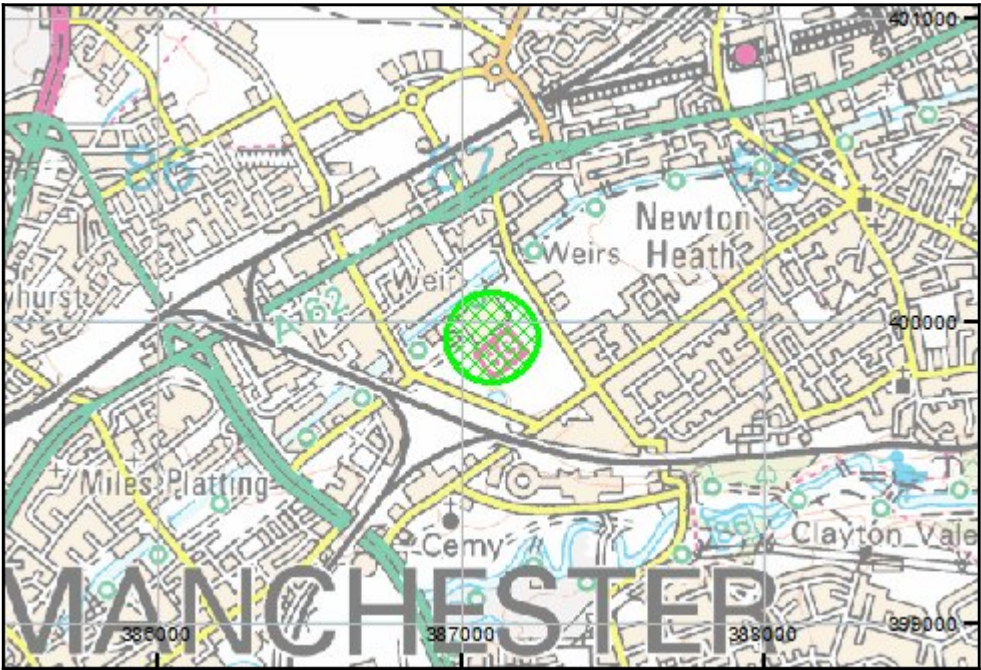
### ***Additional Remarks***

This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions 2006. The Coal Authority owns the copyright in this report. The information we have used to write this report is protected by our database right. All rights are reserved and unauthorised use is prohibited. If we provide a report for you, this does not mean that copyright and any other rights will pass to you. However, you can use the report for your own purposes.

Location map



Approximate position of property

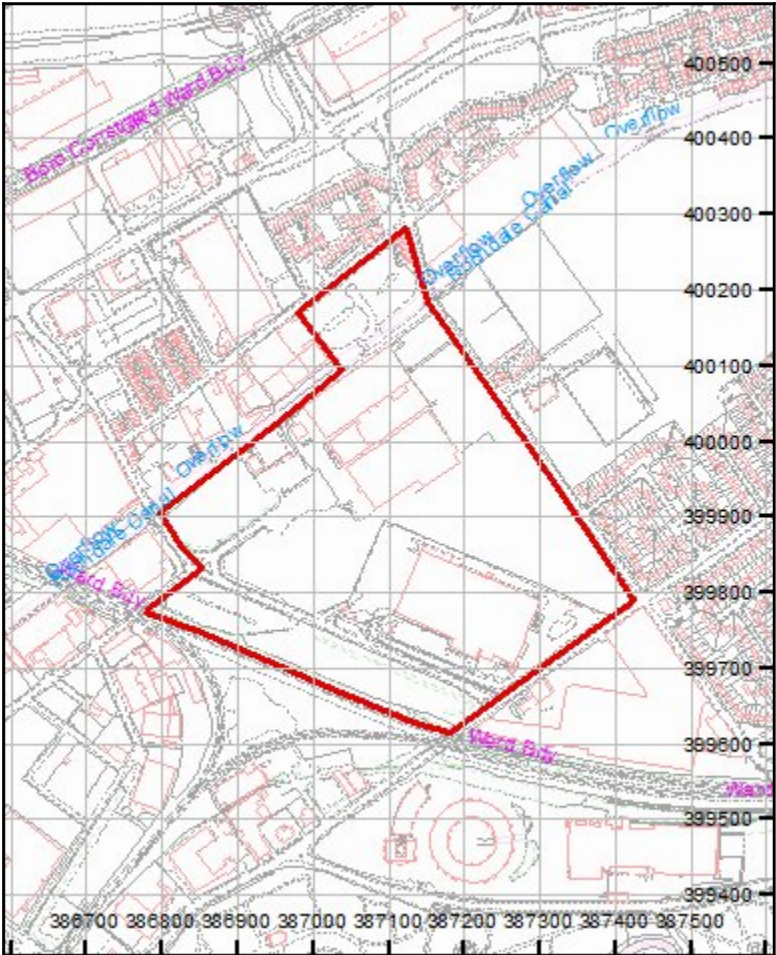


Enquiry boundary

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Key

Approximate position of enquiry boundary shown





## **Appendix E - Exploratory Hole Logs**



Tel: 0161 872 3223 Fax: 0161 872 3193

TP200

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Logged By : AC  
 Checked By: RAJ  
 Start Date : 21/08/13  
 Finish Date : 21/08/13

1. Trial pit excavated on Plot 2.
2. Groundwater not observed.
3. Trial pit terminated at 1.8m bgl due to concrete obstruction.
4. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

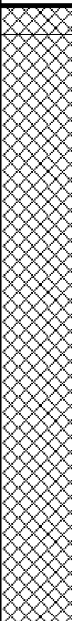

Exploratory Hole Number

TP201

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Dark grey clayey GRAVEL of angular fine to coarse mudstone.			0.20				0.15	ES1	
MADE GROUND: Soft black sandy gravelly CLAY with cobbles of brick and concrete. Gravel is angular fine to coarse plastic, brick, concrete, ceramic, rubber and sandstone. No volatiles detected.							0.40	ES2 D3 B4	
							2.00	ES5	
							3.50	ES6	
			4.10						
End of Window Sample at 4.10 m									

## Observations / Remarks

1. Trial pit undertaken on Plot 2.
2. Groundwater not observed.
3. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193



Exploratory Hole Number

TP202

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Dark grey clayey angular fine to coarse GRAVEL of mudstone and sandstone.			0.30				0.20	ES1	
MADE GROUND: Soft black grey slightly sandy gravelly CLAY with cobbles of brick and concrete. Gravel is angular fine to coarse brick, plastic, concrete and wood. No volatiles detected.							0.50	ES2	
Firm to stiff brown mottled grey slightly silty CLAY.  From 2.6m bgl: Becoming stiff.			2.30						
At 3.3m bgl: Hand Vane = 150kPa.			3.50				2.50	ES3 D4 B5	
End of Window Sample at 3.50 m									

## Observations / Remarks

1. Trial pit excavated on Plot 2.
2. Groundwater not observed.
3. Hole backfilled with arisings on completion.



# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193



Exploratory Hole Number

TP203

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
MADE GROUND: Light grey angular fine and medium GRAVEL of mudstone.			0.50 0.60				0.00	ES	
MADE GROUND: Firm brown slightly sandy gravelly CLAY with cobbles of brick. Gravel is angular fine to coarse brick, glass, mudstone and sandstone. No volatiles detected.									
End of Window Sample at 0.60 m									

## Observations / Remarks

1. Trial pit excavated on Plot 2.
2. Groundwater not observed.
3. Trial pit terminated at 0.6m bgl due to obstruction.
4. Hole backfilled with arisings on completion.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193


Exploratory Hole Number

TP203A

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : AC  
Checked By : RAJ  
Start Date : 22/08/13  
Finish Date : 22/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Sparse grass over MADE GROUND: Grey angular fine and medium GRAVEL of mudstone.			0.20						
MADE GROUND: Firm brown slightly sandy gravelly CLAY with frequent cobbles and boulders of concrete. Gravel is angular fine to coarse brick, mudstone, plastic, glass, wood and rebar. No volatiles detected.					1.50 ▽		0.50	ES1	
End of Window Sample at 4.60 m			4.60						

## Observations / Remarks

1. Trial pit excavated on Plot 2.
2. Trial pit undertaken adjacent to TP203 due to previous obstruction.
3. Groundwater observed at 1.5m bgl.
4. Hole backfilled with arisings on completion.

Tel: 0161 872 3223 Fax: 0161 872 3193

TP204

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Machine Excavator  
Co-ordinates :  
Level :

Logged By : AC  
 Checked By: RAJ  
 Start Date : 21/08/13  
 Finish Date : 21/08/13

End of Window Sample at 3.60 m

1. Trial pit excavated on Plot 2.
2. Groundwater observed at 1.3m bgl.
3. Hole backfilled with arisings on completion.



Tel: 0161 872 3223 Fax: 0161 872 3193

WS201

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Windowless Sampling  
Co-ordinates :  
Level :

Logged By : AC  
Checked By: RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Grass over MADE GROUND: Grey slightly clayey angular fine to coarse GRAVEL of mudstone.

---

MADE GROUND: Soft to firm slightly sandy slightly gravelly CLAY with occasional cobbles of brick. Gravel is angular fine and medium sandstone, brick and mudstone.

At 1.9m bgl: Cobbles of sandstone.

End of Window Sample at 2.00 m

1. Hole drilled in Plot 2.
2. Hand dug inspection pit to 1.2m bgl prior to drilling.
3. Groundwater observed at 2m bgl.
4. Hole terminated due to obstruction.
5. On completion, hole backfilled with arisings.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS201A

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Windowless Sampler  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Firm very gravelly CLAY with abundant rootlets and low cobble content of angular and subangular shale and mudstone. Gravel is angular and subangular fine to coarse shale.			0.10		0.20				
							0.50	ES1	
MADE GROUND: Firm dark grey and brown slightly sandy gravelly CLAY with low cobble content of angular and subangular brick and concrete. Sand is fine to coarse. Gravel is angular and subangular fine to coarse brick, clinker, concrete, coal, sandstone, shale and mudstone. From 0.1-0.3m bgl: Frequent rootlets.							1.00	S	N=7 (2,1,2,1,1,3)
							1.40	ES2	
							2.00	S	N=6 (1,1,2,1,1,2)
From 2.3m bgl: Becoming stiff.							3.00	S	N=18 (2,1,3,4,6,5)
			3.90						
MADE GROUND: Black slightly sandy angular and subangular fine to coarse GRAVEL of tarmac with occasional rebar. Sand is fine to coarse. At 3.9m bgl: Moderate tarry odour.			4.00				4.00	S	50 for 150mm 50/150mm (14,11,11,39,0)
End of Window Sample at 4.00 m									

## Observations / Remarks

- Hole drilled on Plot 2.
- Hand dug inspection pit to 1.2m bgl prior to drilling.
- Groundwater observed at 0.2m bgl.
- On completion, hole installed with 50mm monitoring well with response zone 1-4m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193



Exploratory Hole Number

WS202

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Windowless Sampling  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass over MADE GROUND: Slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is angular to subangular fine to coarse shale.			0.05						
MADE GROUND: Firm dark grey and black slightly sandy gravelly CLAY with low cobble content of angular and subangular brick, sandstone and mudstone with occasional cobbles of wood. Sand is fine to coarse ash. Gravel is angular and subangular fine to coarse brick, concrete, mudstone, sandstone, clinker and slate. 0.05-0.2m bgl: Frequent rootlets.			0.90						
End of Window Sample at 0.90 m									

## Observations / Remarks

1. Hand dug pit undertaken in Plot 2.
2. Hand dug inspection pit to 0.2m bgl.
3. Groundwater not observed.
4. Hole terminated at 0.9m bgl due to concrete obstruction and backfilled with arisings.



Tel: 0161 872 3223 Fax: 0161 872 3193

WS202A

Logged By : SCM  
 Checked By: RAJ  
 Start Date : 21/08/13  
 Finish Date : 21/08/13

1. Hole drilled in Plot 2.
2. Hand dug inspection pit to 1.2m prior to drilling.
3. Groundwater observed at 0.2m bgl.
4. On completion, hole installed with 50mm monitoring well with response zone from 0.3-1.3m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193



Exploratory Hole Number

WS203

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Windowless Sampling  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass and gravel of shale over MADE GROUND: Very gravelly CLAY with low cobble content of angular and subangular shale and mudstone and abundant rootlets. Gravel is angular and subangular fine to coarse shale and mudstone.			0.10						
							0.60	ES1	
MADE GROUND: Firm dark grey slightly sandy gravelly CLAY with low cobble content of angular and subangular brick, concrete and sandstone. Sand is fine to coarse. Gravel is angular and subangular fine to coarse brick, concrete, clinker, sandstone and mudstone with occasional medium to coarse fragments of pottery and wood. From 0.1 to 0.3m bgl: Numerous rootlets.			1.30				1.00	S	N=4 (1,2,1,1,1,1)
							1.40	ES2	
							2.00	S	N=6 (3,3,3,1,1,1)
MADE GROUND: Soft dark grey slightly sandy gravelly CLAY with low cobble content of angular and subangular concrete and brick. Gravel is angular and subangular fine to coarse concrete, brick, coal and sandstone.  From 3.1m bgl: Becoming firm.  From 3.6m bgl: Becoming stiff.							3.00	S	N=8 (1,1,2,2,2,2)
							4.00	S	N=5 (1,1,1,2,1,1)
			4.50						
			5.00						
Very stiff brown mottled grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular and subrounded fine to coarse sandstone, mudstone and coal.  End of Window Sample at 5.00 m							5.00	S	N=23 (3,4,4,5,6,8)

## Observations / Remarks

- Hole drilled in Plot 2.
- Hand dug inspection pit to 1.2m bgl prior to drilling.
- Groundwater not observed.
- On completion, hole installed with 50mm monitoring well with response zone from 1-4.5m bgl.

# WYG ENVIRONMENT

Quay West at MediaCityUK, Salford Quays, M17 1HH

Tel: 0161 872 3223 Fax: 0161 872 3193

Exploratory Hole Number

WS204

Project : Weir Pumps, Newton Heath  
Project Number : A083215  
Client : HCA  
Method : Windowless Sampling  
Co-ordinates :  
Level :

Scale 1:50 Sheet 1 of 1

Logged By : SCM  
Checked By : RAJ  
Start Date : 21/08/13  
Finish Date : 21/08/13

Strata Description	Legend	Reduced Level (mOD)	Depth (m)	Casing (m)	Water Strike (m)	Installation Backfill	Sample Test		Notes / Remarks
							Depth	Type	
Grass and gravel over MADE GROUND: Dark grey slightly sandy gravelly SILT with low cobble content of angular shale with abundant rootlets. Sand is fine to coarse. Gravel is angular to subangular fine to coarse shale.			0.05						
MADE GROUND: Firm to stiff dark grey and black sandy gravelly CLAY with low cobble content of angular and subangular brick, concrete and occasional metal. Sand is fine to coarse. Gravel is angular and subangular fine to coarse brick, concrete, clinker, sandstone, mudstone and slate. At 0.05 to 0.2m bgl: Numerous rootlets. Faint hydrocarbon odour within dark pockets of Made Ground - PID reading <0.1ppm.							0.40	ES1	
							0.90	ES2	N=6 (1,2,1,1,1,3)
							1.00	S	
MADE GROUND: Soft dark grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse ash. Gravel is angular and subangular fine to coarse brick, concrete, coal and clinker with occasional fragments of wood.			2.40						
							2.60	ES3	
							3.00	S	N=2 (0,0,0,1,0,1)
Very stiff brown mottled grey slightly sandy slightly gravelly CLAY with occasional relict rootlets. Sand is fine to coarse. Gravel is subangular and subrounded fine to coarse mudstone, sandstone and quartzite.			3.90						
							4.00	S	N=20 (2,3,3,5,5,7)
							4.40	ES4	
End of Window Sample at 5.00 m			5.00				5.00	S	N=24 (3,4,6,5,6,7)

## Observations / Remarks

- Hole drilled in Plot 2.
- Hand dug inspection pit to 1.2m bgl prior to drilling.
- Groundwater not observed.
- On completion, hole installed with 50mm monitoring well with response zone 1.0-4.0m bgl.





Photo Plate No. 01: TP201 (21/8/13 facing east)



Photo Plate No. 02: TP201 (21/8/13 facing east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
Trafford Park,  
Manchester M17 1HH**

**Tel: 0161 872 3223  
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E-mail enquiries @wyg.com**

**Environmental Consultancy  
Ground Technologies & Investigation**



Project : Plot 2, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 02/09/13





Photo Plate No. 05: TP202 (21/8/13 facing north east)



Photo Plate No. 06: TP202 (21/8/13 facing north east)

**Quay West at MediaCityUK,  
Trafford Wharf Road,  
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Manchester M17 1HH**

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**Environmental Consultancy  
Ground Technologies & Investigation**



Project : Plot 2, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 02/09/13





Photo Plate No. 03: TP203 (21/8/13 facing north east)



Photo Plate No. 04: TP203 (21/8/13 facing north east)

**Quay West at MediaCityUK,  
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**Environmental Consultancy  
Ground Technologies & Investigation**



Project : Plot 2, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 02/09/13





Photo Plate No. 03: TP204 (21/8/13 facing north east)



Photo Plate No. 04: TP204 (21/8/13 facing north east)

**Quay West at MediaCityUK,  
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**Environmental Consultancy  
Ground Technologies & Investigation**



Project : Plot 2, Newton Heath

Client: HCA

Trial Pit Photo Plates

Project No.: A083215

Date: 02/09/13



## **Appendix F – Chemical Laboratory Results**



## Jones Environmental Laboratory

Unit 3 Deeside Point  
Zone 3  
Deeside Industrial Park  
Deeside  
CH5 2UA

WYG  
Quay West at MediaCityUK  
Trafford Wharf Road  
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No.4225



<b>Attention :</b>	John Taylor
<b>Date :</b>	6th September, 2013
<b>Your reference :</b>	A083215
<b>Our reference :</b>	Test Report 13/7670 Batch 2
<b>Location :</b>	WEIR PUMPS SITE NEWTON HEATH
<b>Date samples received :</b>	23rd August, 2013
<b>Status :</b>	Final report
<b>Issue :</b>	1

Seventeen samples were received for analysis on 23rd August, 2013. Please find attached our Test Report which should be read with notes at the end of the report and should include all sections if reproduced. Interpretations and opinions are outside the scope of any accreditation, and all results relate only to samples supplied.

All analysis is carried out on as received samples and reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected.

### Compiled By:

**Kim Mills**  
Project Co-ordinator

**Bob Millward BSc FRSC**  
Principal Chemist



# **Jones Environmental Laboratory**

**Client Name:** WYG

**Report : Solid**

**Reference:** A083215

**Location:** WEIR PUMPS SITE NEWTON HEATH

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

**Contact:** John Taylor

**JE Job No.:** 13/7670

J E Sample No.	47-48	53-54	55-56	59-60	65-66	69-70	71-72	73-74	75-76	77-78	Please see attached notes for all abbreviations and acronyms		
Sample ID	TP201 ES2	TP202 ES1	TP202 ES2	TP204 ES1	WS202A	WS204	WS203	WS203	WS201	WS201			
Depth	0.4	0.2	0.5	0.3	0.8	0.9	0.6	1.4	0.5	1.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	2	2	2	2	2	2	2	2	2	2			
Date of Receipt	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	LOD	Units	Method No.
Arsenic <sup>#M</sup>	-	8.5	-	-	22.6	-	-	19.1	-	-	<0.5	mg/kg	TM30/PM15
Arsenic	12.8	-	39.4	35.9	-	16.3	13.1	-	14.0	8.7	<0.5	mg/kg	TM30/PM62
Cadmium <sup>#M</sup>	-	<0.1	-	-	0.5	-	-	1.0	-	-	<0.1	mg/kg	TM30/PM15
Cadmium	0.5	-	0.5	0.6	-	2.7	0.8	-	0.6	0.2	<0.1	mg/kg	TM30/PM62
Chromium <sup>#M</sup>	-	37.8	-	-	25.2	-	-	30.1	-	-	<0.5	mg/kg	TM30/PM15
Chromium	19.8	-	35.7	38.4	-	103.1	31.3	-	32.8	26.8	<0.5	mg/kg	TM30/PM62
Copper <sup>#M</sup>	-	33	-	-	106	-	-	316	-	-	<1	mg/kg	TM30/PM15
Copper	71	-	146	220	-	245	230	-	396	43	<1	mg/kg	TM30/PM62
Lead <sup>#M</sup>	-	27	-	-	153	-	-	452	-	-	<5	mg/kg	TM30/PM15
Lead	168	-	136	182	-	339	245	-	232	54	<5	mg/kg	TM30/PM62
Mercury <sup>#M</sup>	-	<0.1	-	-	0.4	-	-	0.3	-	-	<0.1	mg/kg	TM30/PM15
Mercury	0.2	-	1.0	0.7	-	3.5	0.2	-	0.6	<0.1	<0.1	mg/kg	TM30/PM62
Nickel <sup>#M</sup>	-	51.3	-	-	36.0	-	-	36.0	-	-	<0.7	mg/kg	TM30/PM15
Nickel	22.5	-	97.5	80.5	-	66.3	37.8	-	39.6	34.8	<0.7	mg/kg	TM30/PM62
Selenium <sup>#M</sup>	-	2	-	-	1	-	-	2	-	-	<1	mg/kg	TM30/PM15
Selenium	<1	-	4	2	-	1	1	-	1	<1	<1	mg/kg	TM30/PM62
Water Soluble Boron <sup>#M</sup>	-	0.8	-	-	1.0	-	-	1.6	-	-	<0.1	mg/kg	TM74/PM32
Water Soluble Boron	1.4	-	1.8	1.1	-	2.0	1.8	-	1.4	1.2	<0.1	mg/kg	TM74/PM61
Zinc <sup>#M</sup>	-	86	-	-	162	-	-	274	-	-	<5	mg/kg	TM30/PM15
Zinc	159	-	304	495	-	420	278	-	245	90	<5	mg/kg	TM30/PM62
<b>PAH MS</b>													
Naphthalene <sup>#M</sup>	0.16	<0.04	0.49	2.35	0.19	3.06	0.19	0.53	0.62	0.16	<0.04	mg/kg	TM4/PM8
Acenaphthylene	0.06	<0.03	0.23	0.27	0.09	1.01	0.27	0.16	0.06	0.05	<0.03	mg/kg	TM4/PM8
Acenaphthene <sup>#M</sup>	0.22	<0.05	1.04	<0.05	0.26	1.52	0.25	0.61	0.27	0.14	<0.05	mg/kg	TM4/PM8
Fluorene <sup>#M</sup>	0.14	<0.04	0.91	0.13	0.18	1.89	0.22	0.50	0.21	0.12	<0.04	mg/kg	TM4/PM8
Phenanthrene <sup>#M</sup>	1.41	0.15	7.62	2.10	2.45	13.04	2.76	3.91	2.06	0.73	<0.03	mg/kg	TM4/PM8
Anthracene <sup>#</sup>	0.37	<0.04	2.05	0.82	0.60	3.39	0.88	1.20	0.47	0.24	<0.04	mg/kg	TM4/PM8
Fluoranthene <sup>#M</sup>	2.41	0.04	9.73	2.35	3.90	17.33	4.93	6.22	2.67	1.22	<0.03	mg/kg	TM4/PM8
Pyrene <sup>#</sup>	2.18	0.05	8.74	2.45	3.58	15.88	4.06	5.58	2.42	1.06	<0.03	mg/kg	TM4/PM8
Benzo(a)anthracene <sup>#</sup>	1.11	<0.06	3.87	1.66	1.88	7.00	1.91	2.73	1.16	0.54	<0.06	mg/kg	TM4/PM8
Chrysene <sup>#M</sup>	1.27	0.05	4.57	1.45	2.25	7.32	2.05	3.03	1.44	0.56	<0.02	mg/kg	TM4/PM8
Benzo(bk)fluoranthene <sup>#M</sup>	1.89	<0.07	6.57	2.17	3.22	9.81	3.17	4.39	1.89	0.84	<0.07	mg/kg	TM4/PM8
Benzo(a)pyrene <sup>#</sup>	1.32	<0.04	4.56	1.44	2.15	6.85	2.10	3.03	1.24	0.56	<0.04	mg/kg	TM4/PM8
Indeno(123cd)pyrene <sup>#M</sup>	0.76	<0.04	2.56	0.94	1.08	3.64	1.11	1.61	0.62	0.30	<0.04	mg/kg	TM4/PM8
Dibenzo(ah)anthracene <sup>#</sup>	0.10	<0.04	0.62	0.11	0.16	0.51	0.31	0.16	0.09	<0.04	<0.04	mg/kg	TM4/PM8
Benzo(ghi)perylene <sup>#</sup>	0.69	<0.04	2.44	0.85	1.11	3.28	0.98	1.55	0.62	0.29	<0.04	mg/kg	TM4/PM8
PAH 16 Total	14.1	<0.6	56.0	19.1	23.1	95.5	25.2	35.2	15.8	6.8	<0.6	mg/kg	TM4/PM8
Benzo(b)fluoranthene	1.36	<0.05	4.73	1.56	2.32	7.06	2.28	3.16	1.36	0.60	<0.05	mg/kg	TM4/PM8
Benzo(k)fluoranthene	0.53	<0.02	1.84	0.61	0.90	2.75	0.89	1.23	0.53	0.24	<0.02	mg/kg	TM4/PM8
PAH Surrogate % Recovery	77	119	109	113	92	99	101	87	85	97	<0	%	TM4/PM8
EPH >C8-C10 <sup>#M</sup>	<5	<5	<5	9	<5	<5	<5	<5	<5	<5	<5	mg/kg	TM5/PM8
EPH >C10-C12 <sup>#M</sup>	<10	<10	<10	21	<10	20	<10	19	<10	<10	<10	mg/kg	TM5/PM8

Please include all sections of this report if it is reproduced

# **Jones Environmental Laboratory**

**Client Name:** WYG

**Report : Solid**

**Reference:** A083215

**Location:** WEIR PUMPS SITE NEWTON HEATH

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

**Contact:** John Taylor

**JE Job No.:** 13/7670

J E Sample No.	47-48	53-54	55-56	59-60	65-66	69-70	71-72	73-74	75-76	77-78	Please see attached notes for all abbreviations and acronyms		
Sample ID	TP201 ES2	TP202 ES1	TP202 ES2	TP204 ES1	WS202A	WS204	WS203	WS203	WS201	WS201			
Depth	0.4	0.2	0.5	0.3	0.8	0.9	0.6	1.4	0.5	1.4			
COC No / misc													
Containers	V J	V J	V J	V J	V J	V J	V J	V J	V J	V J			
Sample Date	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013	21/08/2013			
Sample Type	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil			
Batch Number	2	2	2	2	2	2	2	2	2	2			
Date of Receipt	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	23/08/2013	LOD	Units	Method No.
EPH >C12-C16 <sup>#M</sup>	<10	<10	39	305	<10	191	17	177	<10	47	<10	mg/kg	TM5/PM8
EPH >C16-C21 <sup>#M</sup>	51	<10	282	1634	95	794	188	490	81	198	<10	mg/kg	TM5/PM8
EPH >C21-C40	369	<10	1286	2206	548	2968	978	1374	760	810	<10	mg/kg	TM5/PM8
EPH >C8-C40	420	<30	1607	4175	643	3973	1183	2060	841	1055	<30	mg/kg	TM5/PM8
<b>TPH CWG</b>													
<b>Aliphatics</b>													
>C5-C6 <sup>#M</sup>	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	mg/kg	TM36/PM12
>C6-C8 <sup>#M</sup>	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	mg/kg	TM36/PM12
>C8-C10	<0.1	<0.1	-	-	-	<0.1	<0.1	0.1	-	<0.1	<0.1	mg/kg	TM36/PM12
>C10-C12 <sup>#M</sup>	<0.2	<0.2	-	-	-	7.9	<0.2	8.1	-	<0.2	<0.2	mg/kg	TM5/PM16
>C12-C16 <sup>#M</sup>	<4	<4	-	-	-	85	<4	63	-	<4	<4	mg/kg	TM5/PM16
>C16-C21 <sup>#M</sup>	<7	<7	-	-	-	269	17	121	-	<7	<7	mg/kg	TM5/PM16
>C21-C35 <sup>#M</sup>	58	<7	-	-	-	905	111	153	-	47	<7	mg/kg	TM5/PM16
Total aliphatics C5-35	58	<19	-	-	-	1267	128	345	-	47	<19	mg/kg	TM5/PM16
<b>Aromatics</b>													
>C5-EC7	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC7-EC8	<0.1	<0.1	-	-	-	<0.1	<0.1	<0.1	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC8-EC10 <sup>#M</sup>	<0.1	<0.1	-	-	-	<0.1	<0.1	0.5	-	<0.1	<0.1	mg/kg	TM36/PM12
>EC10-EC12 <sup>#M</sup>	<0.2	<0.2	-	-	-	<0.2	7.3	<0.2	-	<0.2	<0.2	mg/kg	TM5/PM16
>EC12-EC16 <sup>#M</sup>	5	<4	-	-	-	23	49	17	-	<4	<4	mg/kg	TM5/PM16
>EC16-EC21 <sup>#M</sup>	51	<7	-	-	-	167	316	89	-	20	<7	mg/kg	TM5/PM16
>EC21-EC35 <sup>#M</sup>	205	<7	-	-	-	565	728	228	-	83	<7	mg/kg	TM5/PM16
Total aromatics C5-35	261	<19	-	-	-	755	1100	335	-	103	<19	mg/kg	TM5/PM16
Total aliphatics and aromatics(C5-35)	319	<38	-	-	-	2022	1228	680	-	150	<38	mg/kg	TM5/PM16
<b>MTBE<sup>#</sup></b>													
MTBE <sup>#</sup>	<5	<5	-	-	-	<5	<5	<5	-	<5	<5	ug/kg	TM31/PM12
<b>Benzene<sup>#</sup></b>													
Benzene <sup>#</sup>	<5	<5	-	-	-	<5	<5	<5	-	<5	<5	ug/kg	TM31/PM12
<b>Toluene<sup>#</sup></b>													
Toluene <sup>#</sup>	<5	<5	-	-	-	<5	<5	<5	-	<5	<5	ug/kg	TM31/PM12
<b>Ethylbenzene<sup>#</sup></b>													
Ethylbenzene <sup>#</sup>	<5	<5	-	-	-	<5	<5	99	-	<5	<5	ug/kg	TM31/PM12
<b>m/p-Xylene<sup>#</sup></b>													
m/p-Xylene <sup>#</sup>	<5	<5	-	-	-	<5	<5	289	-	15	<5	ug/kg	TM31/PM12
<b>o-Xylene<sup>#</sup></b>													
o-Xylene <sup>#</sup>	<5	<5	-	-	-	<5	<5	110	-	<5	<5	ug/kg	TM31/PM12
<b>PCB 77</b>													
PCB 77	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 81</b>													
PCB 81	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 105</b>													
PCB 105	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 114</b>													
PCB 114	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 118</b>													
PCB 118	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 123</b>													
PCB 123	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 126</b>													
PCB 126	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 156</b>													
PCB 156	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 157</b>													
PCB 157	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 167</b>													
PCB 167	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8
<b>PCB 169</b>													
PCB 169	<5	<5	<5	-	-	-	<5	<5	-	<5	<5	ug/kg	TM16/PM8

Please include all sections of this report if it is reproduced

**JE Job No.:** 13/7670

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

Please see attached notes for all abbreviations and acronyms



## Asbestos Analysis

**Client Name:** WYG  
**Reference:** A083215  
**Location:** WEIR PUMPS SITE NEWTON HEATH  
**Contact:** John Taylor

**Note:**

Analysis was carried out in accordance with our documented in-house methods PM042 and TM065 and HSG 248 by Stereo and Polarised Light Microscopy using Dispersion Staining Techniques and is covered by our UKAS accreditation. Samples are retained for not less than 6 months from the date of analysis unless specifically requested.

Opinions lie outside the scope of our UKAS accreditation.

*Where the sample is not taken by a Jones Environmental Laboratory consultant, Jones Environmental Laboratory cannot be responsible for inaccurate or unrepresentative sampling.*

*If asbestos fibres are reported at trace levels there will not be enough fibres to quantify and will be less than 0.001%.*

Signed on behalf of Jones Environmental Laboratory:

*[Signature]*

Gemma Newsome  
Asbestos Team Leader

[illegible]

# NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

JE Job No.: 13/7670

## SOILS

Please note we are only MCERTS accredited for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. If we are instructed to keep samples, a storage charge of £1 (1.5 Euros) per sample per month will be applied until we are asked to dispose of them.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

## WATERS

Please note we are not a Drinking Water Inspectorate (DWI) Approved Laboratory. It is important that detection limits are carefully considered when requesting water analysis.

UKAS accreditation applies to surface water and groundwater and one other matrix which is analysis specific, any other liquids are outside our scope of accreditation

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

## DEVIATING SAMPLES

Samples must be received in a condition appropriate to the requested analyses. All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. If this is not the case you will be informed and any test results that may be compromised highlighted on your deviating samples report.

## SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

## NOTE

Data is only accredited when all the requirements of our Quality System have been met. In certain circumstances where the requirements have not been met, the laboratory may issue the data in an interim report but will remove the accreditation, in this instance results should be considered indicative only. Where possible samples will be re-extracted and a final report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

**ABBREVIATIONS and ACRONYMS USED**

#	UKAS accredited.
B	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance.
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
++	Result outside calibration range, results should be considered as indicative only and are not accredited.
*	Analysis subcontracted to a Jones Environmental approved laboratory.
CO	Suspected carry over
OC	Outside Calibration Range
NFD	No Fibres Detected



[illegible]



## **Appendix G – Geotechnical Laboratory Results**



# LABORATORY REPORT



4043

**Contract Number: PSL13/3106**

Client's Reference:

Report Date: 06 September 2013

Client Name: WYG Manchester  
Quay West at MediaCityUK  
Trafford Wharf Road  
Trafford Park  
Manchester  
M17 1HH

**For the attention of: John Taylor**

Contract Title: Weir Pumps, Newton Heath, Manchester

Date Received: 02/09/2013

Date Commenced: 02/09/2013

Date Completed: 06/09/2013

**Notes: Observations and Interpretations are outside the UKAS Accreditation**

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson  
(Director)

A Watkins  
(Director)

  
M Beastall  
(Laboratory Manager)





5 – 7 Hexthorpe Road, Hexthorpe,  
Doncaster DN4 0AR  
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fax: +44 (0)844 815 6642  
e-mail: rgunson@prosoils.co.uk  
awatkins@prosoils.co.uk

Page 1 of



# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
WS101		B	1.80	Brown slightly gravelly sandy CLAY.
WS103		B	0.90	Brown sandy CLAY.
WS104		B	1.40	Brown slightly gravelly sandy CLAY.
WS204		B	2.60	Dark brown gravelly sandy CLAY.
WS204		B	4.40	Brown slightly gravelly sandy CLAY.
WS301		B	2.40	Brown mottled grey slightly gravelly sandy CLAY.
TP101		D	1.30	Brown mottled grey sandy CLAY.
TP102		D	1.20	Brown mottled grey slightly sandy CLAY.
TP103		D	0.60	Brown sandy CLAY.
TP202		D	2.50	Brown mottled grey sandy CLAY.
TP302		D	0.80	Brown mottled grey slightly gravelly sandy CLAY.
TP304		D	2.70	Reddish brown mottled grey sandy CLAY.
TP401		D	1.20	Brown mottled grey slightly gravelly sandy CLAY.
TP402		B	1.60	Brown mottled grey sandy CLAY.
TP403		D	1.60	Brown mottled grey sandy CLAY.
TP404		D	2.30	Brown slightly gravelly sandy CLAY.


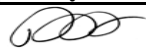


 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		05/09/13		06/09/13		06/09/13
	WEIR PUMPS, NEWTON HEATH, MANCHESTER.				Contract No:	PSL13/3106
					Client Ref:	A083215

# SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

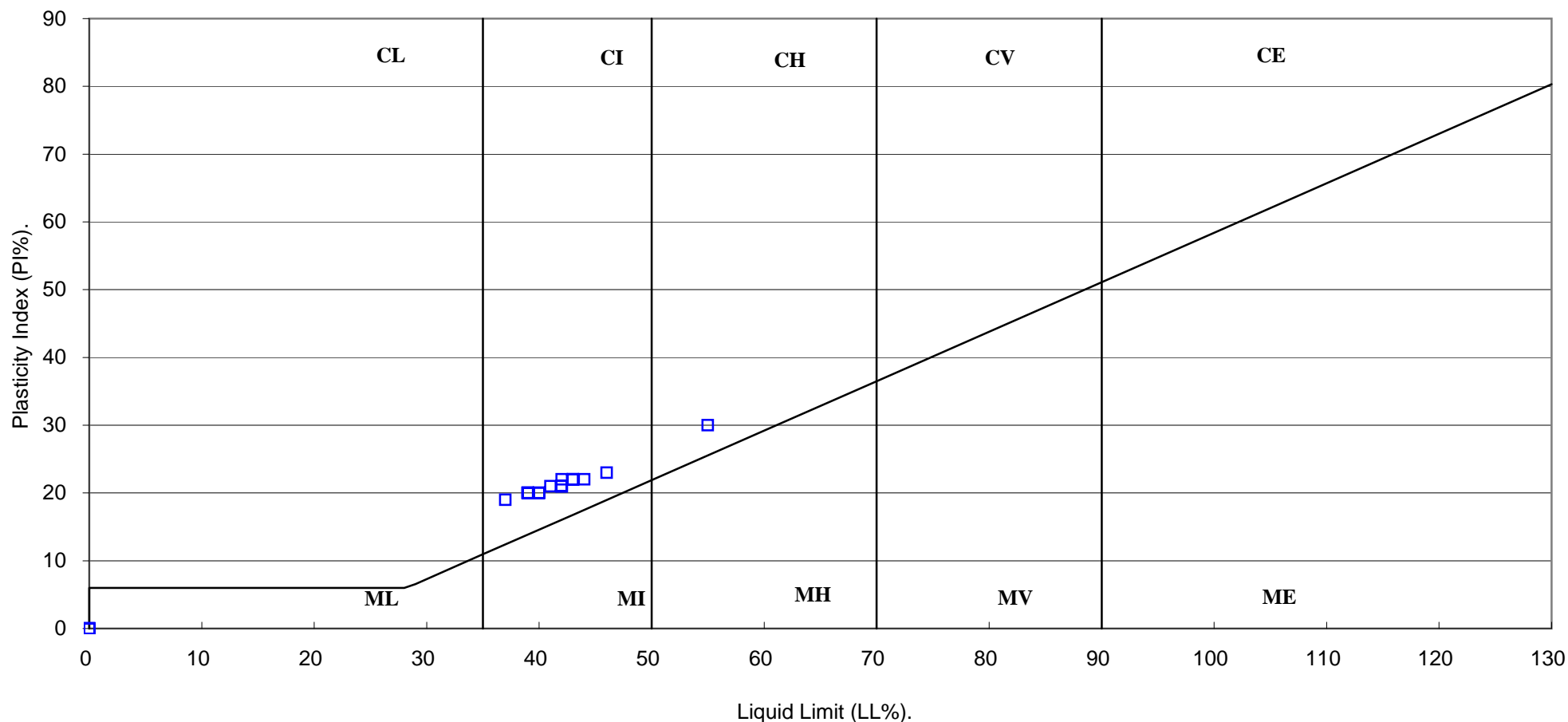
Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % Clause 3.2	Bulk Density Mg/m <sup>3</sup> Clause 7.2	Dry Density Mg/m <sup>3</sup> Clause 7.2	Particle Density Mg/m <sup>3</sup> Clause 8.	Liquid Limit % Clause 4.3/4.4	Plastic Limit % Clause 5.	Plasticity Index % Clause 5.4	% Passing .425mm	Remarks
WS101		B	1.80	17				43	21	22	91	Intermediate plasticity CI.
WS103		B	0.90	22				39	19	20	100	Intermediate plasticity CI.
WS104		B	1.40	17				46	23	23	93	Intermediate plasticity CI.
WS204		B	2.60	21				42	20	22	79	Intermediate plasticity CI.
WS204		B	4.40	17				40	20	20	94	Intermediate plasticity CI.
WS301		B	2.40	17				37	18	19	93	Intermediate plasticity CI.
TP101		D	1.30	19				42	21	21	100	Intermediate plasticity CI.
TP102		D	1.20	23				55	25	30	100	High plasticity CH.
TP103		D	0.60	22				43	21	22	100	Intermediate plasticity CI.
TP202		D	2.50	19				42	21	21	100	Intermediate plasticity CI.
TP302		D	0.80	18				39	19	20	92	Intermediate plasticity CI.
TP304		D	2.70	19				41	20	21	100	Intermediate plasticity CI.
TP401		D	1.20	17				42	21	21	96	Intermediate plasticity CI.
TP402		B	1.60	16				39	19	20	100	Intermediate plasticity CI.
TP403		D	1.60	17				44	22	22	100	Intermediate plasticity CI.
TP404		D	2.30	16				40	20	20	92	Intermediate plasticity CI.

SYMBOLS : NP : Non Plastic

 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		05/09/13		06/09/13		06/09/13
	WEIR PUMPS, NEWTON HEATH, MANCHESTER.					Contract No: PSL13/3106
						Client Ref: A083215

# PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



**PSL**

**Professional Soils Laboratory**

Compiled by

*[Signature]*

Date

05/09/13

Checked by

*[Signature]*

Date

06/09/13

Approved by

*[Signature]*

Date

06/09/13

**WEIR PUMPS, NEWTON HEATH, MANCHESTER.**

Contract No:

**PSL13/3106**

Client Ref:

**A083215**





2139

## Certificate of Analysis

Date: 09/09/2013

Certificate Number: 13-88155

Client: Professional Soils Laboratory Ltd  
5/7 Hexthorpe Road  
Hexthorpe  
DN4 0AR

Our Reference: 13-88155

Client Reference: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

Description: 17 soil samples

Date Received: 03 September 2013

Date Started: 04 September 2013

Date Completed: 09 September 2013

Test Procedures: Identified by prefix DETSn, details available upon request.

Notes: Observations and interpretations are outside the scope of UKAS accreditation

Approved By:   
Rob Brown, Business Manager

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

# Information in Support of the Analytical Results

## **Analysis**

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 425um sieve, in accordance with BS1377.

Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.

The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28oC +/-2oC.

### ***Key***

- \* Denotes test not included in laboratory scope of accreditation
- # Denotes test that holds MCERTS accreditation, however, MCERTS accreditation is only implied if the report carries the MCERTS logo
- \$ Denotes tests completed by an approved subcontractor
- I/S Denotes insufficient sample to carry out test
- U/S Denotes that the sample is not suitable for testing

## **Disposal**

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-

Soils - 1 month

Liquids - 2 weeks

Asbestos (test portion) - 6 months

## Summary of Chemical Analysis

### Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

				Lab No.	551557	551558	551559	551560	551561
				Sample ID	WS101	WS103	TP101	TP102	TP103
				Depth	0.60	0.90	1.30	1.20	0.60
				Sample Ref					
				Sample Type	B	B	D	D	D
				Sampling Date	/ /	/ /	/ /	/ /	/ /
				Sampling Time					
Test	Units	DETSxx	LOD						
Organic matter	%	DETSC 2002#	0.1		1.2	1.6	1.7		
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10		98	44	46	29	16
pH		DETSC 2008#			8.1	8.4	8.5	7.9	7.8



## Summary of Chemical Analysis

### Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

				Lab No.	551562	551563	551564	551565	551566
				Sample ID	WS204	WS204	TP201	TP202	WS301
				Depth	2.60	4.40	0.40	2.50	1.00
				Sample Ref					
				Sample Type	B	B	D	D	B
				Sampling Date	/ /	/ /	/ /	/ /	/ /
				Sampling Time					
Test	Units	DETSxx	LOD						
Organic matter	%	DETSC 2002#	0.1		3.3		3.2		4.8
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10		270	50	350	26	360
pH		DETSC 2008#			8.9	8.6	8.5	8.2	6.1

## Summary of Chemical Analysis

### Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

				Lab No.	551567	551568	551569	551570	551571
				Sample ID	WS301	TP302	TP304	TP401	TP402
				Depth	2.40	0.80	2.70	1.20	1.60
				Sample Ref					
				Sample Type	B	D	D	D	B
				Sampling Date	/ /	/ /	/ /	/ /	/ /
				Sampling Time					
Test	Units	DETSxx	LOD						
Organic matter	%	DETSC 2002#	0.1			2.0	0.6	1.4	
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10		15	32	23	28	34
pH		DETSC 2008#			8.1	8.5	8.0	8.6	8.6

## Summary of Chemical Analysis

### Soil Samples

Our Ref: 13-88155

Client Ref: PSL13/3106

Contract Title: Weir Pumps, Newton Heath, Manchester

				Lab No.	551572	551573
				Sample ID	TP403	TP404
				Depth	1.60	2.30
				Sample Ref		
				Sample Type	D	D
				Sampling Date	/ /	/ /
				Sampling Time		
Test	Units	DETSxx	LOD			
Organic matter	%	DETSC 2002#	0.1			
Sulphate Aqueous Extract as SO4	mg/l	DETSC 2076#	10	20	94	
pH		DETSC 2008#		8.6	8.4	



## Sample Comments

DETS cannot be held responsible for the integrity of sample(s) received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating.

Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note "Guidance on Deviating Samples".

All samples received are listed below. However, those samples that have additional comments in relation to hold time and/or inappropriate containers are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations.

If no sampled date (soils) or date/time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters), this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Lab No.	Sample ID	Date Sampled	Containers Received	Deviating due to holding time being exceeded for test(s)	Deviating due to inappropriate container for test(s)	Deviating due to headspace presence in container for test(s)
551557	WS101 0.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551558	WS103 0.90 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551559	TP101 1.30 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551560	TP102 1.20 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551561	TP103 0.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551562	WS204 2.60 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551563	WS204 4.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551564	TP201 0.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551565	TP202 2.50 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551566	WS301 1.00 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551567	WS301 2.40 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		
551568	TP302 0.80 SOIL		Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)		

551569	TP304 2.70 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551570	TP401 1.20 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551571	TP402 1.60 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551572	TP403 1.60 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)
551573	TP404 2.30 SOIL	Plastic Tub 1 litre (1kg)	Sample is deviating (no sampled date supplied)



## **Appendix H – Monitoring Results**



**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 1**      **Date** 27/08/2013      **Start** 09:00      **End** 13:00      **By** AC      **AP Trend** Steady      **Weather** Cloudy  
**Instruments used - GA2000, Flow Pod & Minirae 2000, Dip Meter**  
**Background (start)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.6%      **VOCs** 0      **AP** 1012  
**Background (end)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.6%      **VOCs** 0      **AP** 1011

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS201A</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.0	0.0	0.0	0.0	0.0	1011	DRY	3.95					
<b>WS202A</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.6	1.0	0.0	0.0	0.0	0.0	1011	1.20	1.40					
<b>WS203</b>		0.0	0.0	0.0	0.0	0.0	0.0	20.7	1.0	0.0	0.0	0.0	0.0	1010	1.50	4.50					
<b>WS204</b>		0.0	0.0	0.0	0.0	0.0	0.0	21.0	0.0	-10.0	0.0	-1.3	0.0	1010	3.10	4.10					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	1	0	0.0	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 2**      **Date** 03/09/2013      **Start** 08:30      **End** 12:30      **By** AC      **AP Trend** Rising      **Weather** Cloudy and Dry  
**Instruments used - GA2000, Flow Pod & Minirae 2000, Dip Meter**  
**Background (start)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.1%      **VOCs** 0      **AP** 1019  
**Background (end)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.1%      **VOCs** 0      **AP** 1019

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS201A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.5	0.00	0.00	0.0	0.00	0.00	1020	DRY	4.00					
<b>WS202A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.3	0.00	0.00	1.2	0.00	0.00	1019	DRY	1.41					
<b>WS203</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.7	0.00	0.00	18.0	-1.50	-1.20	1019	2.70	4.50					
<b>WS204</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.5	1.00	0.00	17.2	0.00	0.00	1019	3.30	4.10					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	1	0	18.0	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 3**      **Date** 10/09/2013      **Start** 08:30      **End** 13:00      **By** AC      **AP Trend** Rising      **Weather** Cloudy and dry  
**Instruments used - GA2000, Flow Pod & Minirae 2000, Dip Meter**  
**Background (start)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.0%      **VOCs** 0      **AP** 1013  
**Background (end)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.2%      **VOCs** 0      **AP** 1013

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
WS201A		0.0	0.0	0.0	0.0	0.0	0.0	20.3	4.0	0.0	0.0	-0.3	-0.1	1014	DRY	4.00					
WS202A		0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	-0.1	-0.1	1013	1.10	1.40					
WS203		0.0	0.0	0.0	0.0	0.0	0.0	19.7	1.0	0.0	0.0	0.0	0.0	1013	1.50	4.40					
WS204		0.0	0.0	0.0	0.0	0.0	0.0	20.2	3.0	0.0	0.0	-0.6	-0.4	1013	2.10	4.05					
Whole Site Summary																					
Maximum	-	0.0	0.0	0	0	0.0	0.0	-	3	0	0.0	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.



**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 4**      **Date** 17/09/2013      **Start** 08:40      **End** 09:10      **By** AC      **AP Trend** Falling      **Weather** Cloudy

**Instruments used - GA2000, Flow Pod & Minirae 2000, Dip Meter**

**Background (start)**      **CH<sub>4</sub>** -0.1%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 19.9%      **VOCs** 0      **AP** 990  
**Background (end)**      **CH<sub>4</sub>** -0.1%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 19.9%      **VOCs** 0      **AP** 990

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS201A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.20	1.00	0.00	0.00	0.00	0.00	990	3.80	3.95					
<b>WS202A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.00	4.00	0.00	0.00	0.00	0.00	989	1.00	1.43					
<b>WS203</b>		0	0	0	0	0	0	19.2	6	0	0.90	0.00	-1.00	989	0.30	4.45					
<b>WS204</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.20	4.00	0.00	0.00	-3.00	-1.00	989	2.80	4.10					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	6	0	0.9	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 5**      **Date** 23/09/2013      **Start** 09:50      **End** 10:30      **By** AC      **AP Trend** Rising      **Weather** Cloudy

**Instruments used** - GA2000, Flow Pod & Minirae 2000, Dip Meter

**Background (start)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.8%      **VOCs** 0      **AP** 1017  
**Background (end)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.8%      **VOCs** 0      **AP** 1017

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS201A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.50	0.00	0.00	0.00	0.00	0.00	1017	DRY	3.95					
<b>WS202A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.20	3.00	0.00	0.00	0.00	0.00	1017	1.10	1.42					
<b>WS203</b>		0	0	0	0	0	0	19.2	3	0	0.00	0.00	0.00	1017	0.90	4.43					
<b>WS204</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.00	3.00	0.00	0.00	-3.90	-3.10	1017	3.10	4.10					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	3	0	0.0	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.

**GAS & GROUNDWATER MONITORING RECORD SHEET**

**Client** Homes and Communities Agency  
**Project** Plot 2  
**Job Number** A083215

**Visit No. 6**      **Date** 26/09/2013      **Start** 10:30      **End** 11:20      **By** AC      **AP Trend** Rising      **Weather** Sunny  
**Instruments used - GA2000, Flow Pod & Minirae 2000, Dip Meter**  
**Background (start)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.1%      **VOCs** 0      **AP** 1012  
**Background (end)**      **CH<sub>4</sub>** 0.0%      **CO<sub>2</sub>** 0.0%      **O<sub>2</sub>** 20.1%      **VOCs** 0      **AP** 1012

Installation	Elevation of cover (mAOD)	CH <sub>4</sub>		CH <sub>4</sub> % LEL		CO <sub>2</sub>		O <sub>2</sub>	CO	H <sub>2</sub> S	VOC	Flow Rate		Atmospheric Pressure (mbar)	Depth to Water (mbgl)	Depth to Base (mbgl)	Water Level (mAOD)	Remarks	GSV		
		Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Peak (% vol)	Steady (% vol)	Steady (% vol)	Av. (ppm)	Av. (ppm)	Av. (ppm)	Peak (l/h)	Steady (l/h)						CH <sub>4</sub>	CO <sub>2</sub>	Maximum GSV
<b>WS201A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00	0.00	1010	WAB	3.90					
<b>WS202A</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.40	3.00	0.00	0.00	0.00	0.00	1009	1.20	1.40					
<b>WS203</b>		0	0	0	0	0	0	19.9	0	0	0.00	0.00	0.00	1010	2.50	4.35					
<b>WS204</b>		0.00	0.00	0.00	0.00	0.00	0.00	20.30	1.00	0.00	0.00	-2.40	-1.90	1010	3.10	4.15					
<b>Whole Site Summary</b>																					
<b>Maximum</b>	-	0.0	0.0	0	0	0.0	0.0	-	3	0	0.0	0.0	0.0	-	-	-	-	-			

**Notes:**

Peak reading = maximum recorded level during a monitoring event.

Steady reading = level which remained constant after approximately 5 minutes.

LEL = Lower Explosive Limit

GSV = Gas Screening Value - the maximum percentage steady CH<sub>4</sub> or CO<sub>2</sub> multiplied by the gas flow rate.