

ARNOLD CLARK, EARLSFIELD PARK, KNOWSLEY

PHASE 1 PRELIMINARY RISK ASSESSMENT AND PRELIMINARY COAL MINING RISK ASSESSMENT

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Client Address: Arnold Clark Head Office, 454 Hillington Road, Glasgow, G52 4FH7

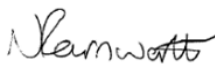
Site Address: Earlsfield Park, Arley Drive, Knowsley, Prescot, L34 4BF

Curtins
Merchant Exchange
17-19 Whitworth Street West
Manchester, M1 5WG
Tel: 0161 236 2394
www.curtins.com

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Author	Signature	Date
J Lord BSc (Hons) MSc Senior Geo-Environmental Engineer		20 June 2025

Reviewed & Authorised	Signature	Date
N Farnworth BSc (Hons) MCIWEM C.WEM Principal Geo-Environmental Engineer		20 June 2025

EXECUTIVE SUMMARY

Appointment	Curtins were instructed by Arnold Clark Group Estates (via Taylor Design Architects) to undertake a Phase 1 Preliminary Risk Assessment and Preliminary Coal Mining Risk Assessment (PRA/CMRA) Bury Emergency Department, Fairfield General Hospital, Rochdale Old Road, Bury, BL9 7TD. The site is centred on 344840, 392710 and covers an area of approximately 1.94 Ha. It is understood that development proposals include the construction of an Arnold Clark car dealership building and associated hardstanding comprising forecourt and parking
Current Site Status	The site is currently an undeveloped commercial plot at Earlsfield Park (Plot 1), that is currently in use for ongoing construction projects in the wider Earlsfield Park. The topography of site is generally flat.
Site History	Earliest mapping from 1850 shows the site as agricultural land, it has remained like this until 2019 where construction activity began on site for the development of Earlsfield Park. The immediate surrounding area comprised predominantly agricultural land, with Knowsley Lane immediately south of the site. By 1952 the area to the south of the site was developed with residential houses, and the M57 Motorway was constructed to the north by 1978.
Geology	BGS mapping indicates the site is underlain with Glacial Till (superficial) and the Pennine Lower Coal Measures Formation (bedrock). The site is in a lower probability radon area where <1% of homes are estimated to be at or above the radon Action Level.
Non-Coal Mining	The Envirocheck Report (Ref. 2) confirms that there is no non-coal mining within 1km of the site. Based on the forgoing commentary the likelihood of encountering relic non-coal mining features on-site is unlikely and, therefore, the risk to the proposed development of non-coal mining features is Low.
Hydrogeology	The site is underlain by a Secondary A Aquifer associated with the bedrock formations, and a Secondary Undifferentiated Aquifer associated with the superficial deposits. The site is not located within a Source Protection Zone (SPZ). There are no potable groundwater abstractions located within 500m of the site.
Hydrology	The nearest surface water features is located on site for a pond feature adjacent to the site. The nearest OS Water Network line is located approximately 69m west of the site, associated with a small N-S running drainage ditch. There have been no pollution incidents recorded within 1km of the site. There are no surface water abstractions within 1km of the site. There are no active discharge consents within 250m of the site.
Landfill and Pollution	There are no BGS recorded landfill sites, historical landfill sites, or operational licensed waste management facilities located within 500m of the site. The closest Local Authority Pollution Prevention and Control Permit is located 278m west of the site at Total Knowsley Self Serve (Petrol Station). There are 3 no. areas of potentially infilled land within 250m of the site, the closest is located 56m west of the site relating to unknown filled ground (pond, marsh, river, stram dock etc).
Coal Mining Risk Assessment	The Pennine Lower Coal Measures are recorded to underly the site. The Mining Remediation Authority records indicate the site is within a Development High Risk Area, due to the presence of a mine entry located on site and the presence of a coal outcrop on site (Arley Seam) running NE-SW. No mine gas has been recorded within 500m of the site boundary according to the Mining Remediation Authority Consultants Mining Report. A review of Mining Remediation Authority guidance "Coal seams with a history of spontaneous combustion" published in 2015 indicates that seams may have a history of spontaneous combustion where roof coal has been left in place. Curtins have undertaken stabilisation works across the site as part of the wider Earlsfield Park development. The stabilisation works comprised the advancement of 1293 no. shallow (15m) and 9 no. deeper (30m) proof grouting drill and grout holes within the site, on a 6m primary grid. Broken ground was encountered in 9 No. boreholes during the drilling works (which were subsequently grouted) on the Arnold Clark Development site. A previously unrecorded shaft was encountered (now recorded by the Mining Remediation Authority as 344392-009). The mine shaft was grouted successfully to its full depth. A concrete cap was then placed at bedrock over the centre of the mine shaft. It was recommended that future site levels over shaft ref. 344392-009 must not exceed 44.4m AOD, and must be used as a car park which may be used by articulated lorries. No build zones should be implemented. The risk associated with deep (>30m bgl) and shallow (<30m bgl) mine workings, is considered to be Low, as the site has undergone grout stabilisation. There is potential for release of mine gas emissions sourced from unrecorded worked coal seams beneath the site during future drilling or construction. Although no named coal seams beneath the site have a history of spontaneous combustion, spontaneous combustion may occur where roof coal is left in place.

Unexploded Ordnance (UXO)	The site is recorded as being in a Low risk UXO area. No ruins are recorded on post-war mapping. Therefore, the likelihood of encountering UXO on site as part of the Curtins ground investigation works is low based on the available information and the risk is assessed as Low. For below ground demolition or construction work the principal contractor should carry out their own UXO risk assessments with specific consideration of their scope of works.
Initial Ground Contamination Assessment	The risk from Made Ground posed to the site's end-users is considered to be Moderate/Low. Development proposals include the construction of an Arnold Clark car dealership building and associated hardstanding comprising forecourt and parking Accounting for the use of PPE and sanitary facilities during ground and construction works, the risk posed to construction and maintenance workers is Moderate/Low. The risk posed to groundwater and surface water is considered to be Low. The risk posed to site end-users from ground generating gases arising from organic / putrescible soils (Made Ground) is considered to be Moderate / Low.
Ground Engineering Considerations	Ground stability hazards (collapsible ground, compressible ground, ground dissolution, landslide, running sand or shrinking/swelling clay) on site are recorded as Very Low to No Hazard. This should be confirmed by site reconnaissance and ground investigation. There may be subsurface obstructions, voids and relic foundations associated with historical buildings.
Recommendations	The following recommendations are made: • Implement no build zones around the treated mine shaft ref.344392-009 on site. • Site levels over shaft ref. 344392-009 must not exceed 44.4m AOD, The area may be used as a car park which may be used by articulated lorries. • Undertake an intrusive ground investigation to collect chemical and geotechnical samples to inform human health risk assessment and geotechnical assessment. It may be possible to utilise some of the previous ground investigation information in ground assessments, subject to reliance. • Install monitoring wells to allow for monitoring sub-surface conditions, including ground gas and groundwater monitoring. • Undertake a GQRA as part of the ground investigation to determine contaminated land risks.

CONTENTS

1 Introduction 1

1.1 Project Background 1

1.2 Scope of Services 1

2 Current Site and Surrounding Area Details 2

2.1 Current Site Status 2

2.2 Surrounding Area Details 3

3 Site History 4

4 Geology, Hydrogeology and Hydrology 5

4.1 Geology and Hydrogeology 5

4.1.1 Coal Mining 6

4.1.2 Non-Coal Mining 6

4.1.3 Other Ground Stability Issues 6

4.1.4 Radon Ground Gas 7

4.2 Hydrology 7

4.3 Landfill and Pollution 7

4.4 Historical Curtins Reports 7

4.4.1 Summary of Ground Investigations 7

5 Preliminary Unexploded Ordnance Risk Assessment 10

5.1 Preliminary UXO Assessment 10

6 Coal Mining Risk Assessment 11

6.1 References 11

6.2 Geological Setting 11

6.3 Borehole Records 11

6.4 Mining Remediation Authority Records 12

6.4.1 Outcrops and Past Underground Coal Mining 14

6.4.2 Mine Entries 14

6.4.3 Abandonment Plans 14

6.4.4 Site Investigations 14

6.4.5 Remediated Sites 14

6.4.6 Mine Gas 14

6.4.7 Coal Mining Subsidence 14

6.5 Historical Curtins Reports 15

6.5.1 Summary of Ground Investigations 15

6.5.2 Completion Report 15

6.6 CMRA Conclusions and Recommendations 18

7 Conceptual Site Model & Qualitative Risk Assessment 19

7.1 Additional Risk Assessments	19
8 Conclusion and Recommendations	21
8.1 Outline Scope of Works for Ground Investigation	21
8.2 Contaminants of Concern	21
8.3 Other Considerations	21
9 References	23
10 Appendices	24

FIGURES

Figure 1 – Site Location Plan, site boundary shown in pink, 250m and 500m buffer in purple.	2
Figure 2 – Mining Remediation Authority Map Extracts	6
Figure 3 - BGS Geological Mapping extract, 1:50,000 Runcorn (1980) Sheet 097	11
Figure 4 – Mining Remediation Authority Map Extracts	12
Figure 5 – Mining Remediation Authority Recorded Mine Entry Potential Zone of Influence in Brown.	13
Figure 6 - Extract of Mining Remediation Authority Consultants Coal Mining Report	13
Figure 7 –Plan Area 3 (Outlined in Green). Drilled holes on a 6m grid shown by a blue circle and cross, Coal identified (Black) and Broken Ground (Red). Proposed Arnold Clark Development overlain (Pink)	16

TABLES

Table 1 – Site Details	2
Table 2 – Surrounding Area	3
Table 3 – Previous Site and Surrounding Area Uses and Potential Sources of Contamination	4
Table 4 – Geological / Hydrogeological Succession	5
Table 5 - Location and strata details of relevant borehole nearby.	5
Table 6 – Ground Stability Hazards for the site.	6
Table 7 – Summary of Encountered Ground Conditions	8
Table 8 - Location and strata details of relevant borehole nearby.	12
Table 9 – Outcrops Recorded by the Mining Remediation Authority	14
Table 10 – Mine Entries Recorded by the Mining Remediation Authority	14
Table 11 - Summary of Mining Risks	18

APPENDICES

Appendix A – Drawings

Appendix B – Envirocheck Report

087955-CUR-XX-XX-T-GE-00001 Rev. P01

Phase 1 Preliminary Risk Assessment and Preliminary Coal Mining Risk Assessment

Arnold Clark, Earlsfield Park, Knowsley

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Appendix C – Mining Remediation Authority Report and Correspondence
Appendix D – Qualitative Risk Assessment Rationale

1 INTRODUCTION

1.1 Project Background

Curtins were instructed by Arnold Clark Group Estates (via Taylor Design Architects) to undertake a Phase 1 Preliminary Risk Assessment and Preliminary Coal Mining Risk Assessment (PRA/CMRA) at a development plot at Earlsfield Park, Arley Drive, Knowsley, Prescott, L34 4BF.

It is understood that development proposals include the construction of an Arnold Clark car dealership building and associated hardstanding comprising forecourt and parking.

1.2 Scope of Services

The Phase 1 PRA/CMRA is intended to provide an overview of the geo-environmental and geo-technical setting of the site with specific consideration of the coal mining risks in relation to the proposed development.

These works are undertaken in general accordance with the LCRM: Stage 1 risk assessment (Ref. 1). Through this overview the Phase 1 aims to develop both a working conceptual and ground model for the site, as well as present an initial assessment of any risks that could be presented to the development including its intended end users and the wider environment.

Specifically, the Phase 1 provides an initial assessment of the site regarding:

- a) Potential contamination of the site strata by historical and or current use;
- b) The potential impact on the wider environment by historical and or current use of the site of interest;
- c) The potential impact from surrounding land uses and other environmental factors;
- d) Potential problems associated with geological features such as faulting, mineral extraction, mining, with particular consideration of coal mining legacy, and land instability;
- e) The location of apparent sub-surface structures that may affect the proposed development; and
- f) The location of above-surface features that may affect the proposed development.

Consideration of detailed flood risk, ecology and archaeological issues are outside of the scope of this report.

2 CURRENT SITE AND SURROUNDING AREA DETAILS

2.1 Current Site Status

Site use, location and description are shown below in Table 1 and Figure 1.

Table 1 – Site Details

Site Address	Earlsfield Park, Arley Drive, Knowsley, Prescot, L34 4BF
NGR	344840, 392710
Area of Site	Approximately 1.94 Ha.
Current Site Use and Description	The site is currently an undeveloped commercial plot at Earlsfield Park (Plot 1), that is currently in use for ongoing construction projects in the wider Earlsfield Park. The topography of site is generally flat.

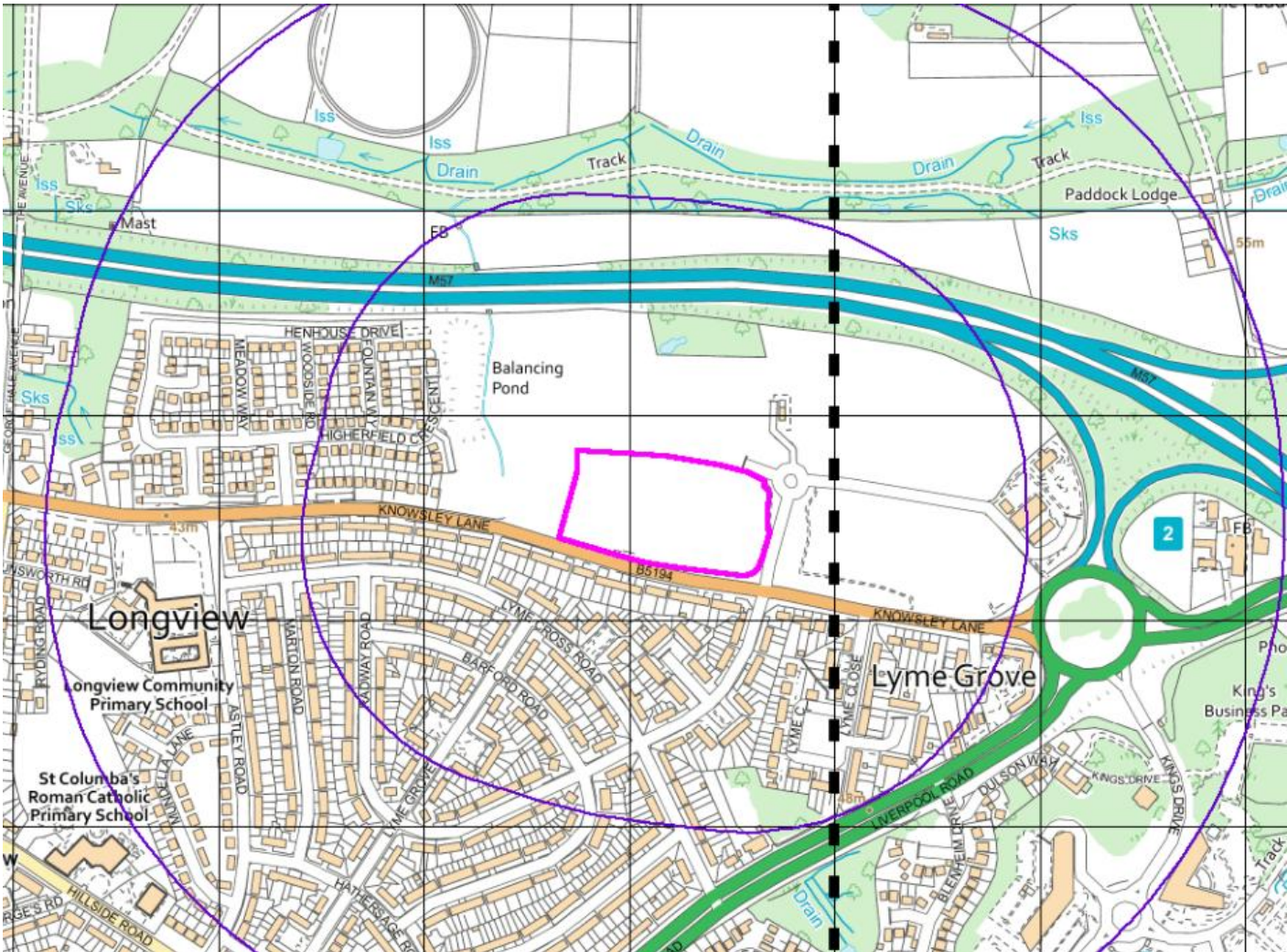


Figure 1 – Site Location Plan, site boundary shown in pink, 250m and 500m buffer in purple.

2.2 Surrounding Area Details

The following information was also established through undertaking an environmental database search (Envirocheck report (Ref. 2) included in *Appendix B*).

Table 2 – Surrounding Area

Surrounding Area	N	Wider Earlsifeld Park development site
	E	Wider Earlsifeld Park development site
	S	Knowsley Lane with residential properties beyond
	W	Wider Earlsifeld Park development site

3 SITE HISTORY

A review of the available historical mapping and other information for the site, as presented within the Envirocheck report (Ref. 2) has been undertaken and is presented in Table 3 below. Bold text indicates within the site boundary.

Table 3 – Previous Site and Surrounding Area Uses and Potential Sources of Contamination

Date	Description	Potential Sources of Contamination
1850-1928	In earliest mapping (1850) the site is comprised entirely of agricultural land. The immediate surrounding area in earliest mapping comprises predominantly of agricultural land, with a road (Knowsley Lane) located immediately south of the site, running from west to east. By 1894, in the immediate surrounding area there were two established farms. Knowsley Lane Farm, approximately 220m east and Longview Farm approximately 240m south. Between 200 and 250m southeast of the site, residential properties and respective gardens. Approximately 210m east of the site was a pond within one residential property.	• Limited potential of contamination on the site. • Uncontrolled deposition of Made Ground associated with agriculture. • Potential for uncontrolled deposition of Made Ground during construction of agricultural properties off-site.
1937-1978	There is little to no significant changes on site. By 1937, there was no evidence of Longview Farm and a large area of residential properties were developed immediately south of Knowsley Lane (starting approximately 25m south of the site). This development included the construction of a road network connecting the properties. By 1952, there was expansion of the residential area southeast of the site. There remains no evidence of the pond 210m east of the site, it is decided that this was infilled for the residential property development. By 1978, a motorway road was developed (M57) approximately 140m north of the site, running from west to east. Knowsley Lane Farm remained approximately 220m of west of the site and agricultural land continued to surround the north, west and east boundaries of the site.	• Little to no further sources of contamination. • Potential for uncontrolled deposition of Made Ground during construction of the residential properties and road infrastructure immediately off-site.
2016-2025	By 2019, satellite imagery shows early signs of construction work on the site for the development of Earlsfield Park. In 2016 Knowsley Lane Farm remains, however, in 2019 it was demolished. Between 2019 and 2023, there was construction of residential properties in this location, which is approximately 130m west of the site. In 2020 there was construction of a road and roundabout immediately east of the site and by 2023 there was construction of a road immediately north of the site. In 2024 approximately 30m north of the site there was construction of commercial properties. Satellite imagery shows in 2025 there are 5 constructed warehouses respective carparks.	• Potential for uncontrolled deposition of Made Ground during current construction activities on the site. • Potential for uncontrolled deposition of Made Ground during construction of eastern residential properties, immediate road infrastructure and the northern commercial properties development.

Potential sources of on-site contamination are further discussed in *Section 7.0*.

087955-CUR-XX-XX-T-GE-00001 Rev. P01

Phase 1 Preliminary Risk Assessment and Preliminary Coal Mining Risk Assessment

Arnold Clark, Earlsfield Park, Knowsley

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4 GEOLOGY, HYDROGEOLOGY AND HYDROLOGY

4.1 Geology and Hydrogeology

A study of the Envirocheck records (Ref. 2), British Geological Survey (BGS) 1:50,000 mapping records (Bedrock and Superficial Editions) for Runcorn (Sheet 097) (Ref. 4 & 5) and BGS GeoIndex (Ref. 6) indicates the following geological and hydrogeological succession underlying the site:

Table 4 – Geological / Hydrogeological Succession

Geology	Associated Hydrogeological Classification
BGS Mapping Records do not indicate the presence of Made Ground beneath the site, but due to the site history Made Ground is anticipated.	N/A
Glacial Till ¹	Secondary Undifferentiated Aquifer ³
Pennine Lower Coal Measures Formation ²	Secondary A Aquifer ⁴

- Notes:
- 1. A heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape.
 - 2. Interbedded grey mudstone, siltstone and pale grey sandstone, commonly with mudstones containing marine fossils in the lower part, and more numerous and thicker coal seams in the upper part.
 - 3. Secondary undifferentiated aquifers are aquifers where it is not possible to apply either a Secondary A or B definition because of the variable characteristics of the rock type, these aquifers have only a minor value.
 - 4. Secondary A aquifers comprise permeable layers that can support local water supplies and may form an important source of base flow to rivers.

Made Ground is not recorded on BGS records, it is likely that Made Ground will be present at the site due to the sites history.

There is a fault present on the western boundary of the site, running north to south to the west of George Hale Avenue.

The site is recorded to be a Secondary Undifferentiated Aquifer associated with the superficial deposits. The bedrock deposits are associated with a productive Secondary A Aquifer associated with the bedrock. There are no groundwater abstractions within 1km of the site.

The site is not recorded within a Source Protection Zone (SPZ). An SPZ is located approximately 615m west for a Zone III (total catchment).

There are no available BGS borehole records located within 250m of the site, the nearest is located approximately 340m south east of the site. The details of this borehole record is given in Table 5.

Table 5 - Location and strata details of relevant borehole nearby.

Record Number	Location	Details (Depth to top of strata (m bgl), Description and Thickness)
SJ49SE149	Approx. 340m south-east 345230, 392500	Ground Level approximately 58.13 AOD. 0.00m Topsoil (0.12m) 0.12m Brown stoney CLAY (0.44m) 0.56m Brown grey CLAY (0.64m) 1.20m Brown boulder CLAY (6.69m) 7.89m Grey MUDSTONE weathered top (0.51m) 8.40m Grey SANDSTONE (3.20m) 11.68m Grey sandy MUDSTONE (1.66m) 13.34m Dark grey MUDSTONE(1.89m) 15.23m Grey MUDSTONE (2.77m) Borehole completed at 18.00m bgl (approximately 40.13m AOD).

4.1.1 Coal Mining

The Mining Remediation Authority’s online interactive map (Ref. 7) for the area indicates that the site is located within a Development High Risk Area, due to being located in proximity to a mine entry and coal outcrops beneath the site. This area is highlighted in Figure 2.



Figure 2 – Mining Remediation Authority Map Extracts
Mining Remediation Authority Recorded Development High Risk Area (left) Highlighted in Black Hatching.
Mining Remediation Authority Recorded Mine Entries (right) Highlighted by Red X.
Approximate Site Boundary in Pink.

There is 1 No. coal mine entries located in the west of the site. Additional shafts are present to the west of the site. To further assess the risk associated with the mine entry in close proximity to site, a Preliminary Coal Mining Risk Assessment, using available Mining Remediation Authority Records and open source information is presented in Section 7.0.

4.1.2 Non-Coal Mining

The Envirocheck Report (Ref. 2) confirms that there is no non-coal mining within 1km of the site. Following a review of historic mapping records and no records of non-coal mining mineral site, it is considered that the likelihood of encountering relic non-coal mining features on-site is unlikely and, therefore risks to the proposed development from non-coal mining features is **Very Low**.

4.1.3 Other Ground Stability Issues

The Envirocheck Report confirms the following in relation to potential geotechnical hazards highlighted in Table 6 below:

Table 6 – Ground Stability Hazards for the site.

Ground Stability Hazard	Hazard Potential On-site	Hazard Potential Off-site
Collapsible Ground	Very Low	Very Low
Compressible Ground	No Hazard	No Hazard
Ground Dissolution (Soluble Rocks)	No Hazard	No Hazard
Landslide	Very Low	Very Low

Ground Stability Hazard	Hazard Potential On-site	Hazard Potential Off-site
Running Sand	Very Low	Very Low
Shrinking or Swelling Clay	Very Low	Very Low

Intrusive ground investigation works would confirm the nature of the ground conditions at the subject site.

4.1.4 Radon Ground Gas

The Envirocheck report (Ref. 2) indicates that the site is located within a lower probability radon area (less than 1% of homes are estimated to be at or above the radon action level). No radon protection measures are likely to be required.

4.2 Hydrology

The Envirocheck Report (Ref. 2) indicates that the closest surface water feature is located on site for a pond feature adjacent to the site. The nearest OS Water Network line is located approximately 69m west of the site, associated with a small N-S running drainage ditch.

There have been no pollution incidents recorded within 1km of the site.

There are no surface water abstractions within 1km of the site.

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

4.3 Landfill and Pollution

The Envirocheck Report (Ref. 2) indicates that there are no BGS recorded landfill sites, historical landfill sites, or operational licensed waste management facilities located within 500m of the site.

The closest Local Authority Pollution Prevention and Control Permit is located 278m west of the site at Total Knowsley Self Serve (Petrol Station).

The Envirocheck Report (Ref. 2) records 3 No. areas of potentially infilled land within 250m of the site, the closest is located 56m west of the site relating to unknown filled ground (pond, marsh, river, stream dock etc).

4.4 Historical Curtins Reports

The following reports have been undertaken by Curtins on, or in the wider Earlsfield development, site:

- Phase 2 Ground Investigation Report – Commercial, Earlsfield Park, Knowsley, report ref. B065395-CUR-00-XX-RP-GE-005, dated January 2018;
- Phase 2 Ground Investigation Report – Marston's, Earlsfield Park, Knowsley, report ref. B063950-CUR-00-XX-RP-GE-006-V02, dated February 2018;
- Coal Mining Risk Ground Investigation Report, Earlsfield Park, Knowsley, report ref. B065395-CUR-00-RP-GE-003-V02, dated January 2018 and
- Commercial Development Mine Entry Letter Report, Land at Knowsley Farm, Earlsfield Park, report ref. B065395.002-CUR-00-XX-RP-GE-001-V01; December 2018
- Shallow Coal Mine Workings Grouting Completion Report, Areas 1, 2 and 3, Earlsfield Park Commercial Development Knowsley, report ref. 079708-CUR-XX-XX-T-GE-00003-P01; May 2023

4.4.1 Summary of Ground Investigations

Fieldwork

The ground investigation works were undertaken between 29th September and 19th November 2017 throughout the wider commercial site.

The fieldworks comprised;

- 10 window samples to depths of 3.45m to 4.45m below ground level (bgl);
- 39 trial pits to depths of 2.00m to 3.00m bgl;
- 13 cable percussive boreholes to depths of 6.50m to 11.10m bgl;
- 16 rotary open hole boreholes to depths of 22.00m to 31.00m bgl;
- 4 CBR plate tests to depths of 0.40m bgl.

The locations of the exploratory hole positions are recorded on Curtins drawing ref. 065395-CUR-00-XX-DR-GE-012-V01 which is presented in Appendix A.

Geological Ground Model

The ground investigation revealed the generalised ground model is described in Table 3.2.

The site comprises Topsoil overlying cohesive and granular Glacial Till underlain by the Pennine Lower Coal Measures from approximately 8m bgl.

Table 7 – Summary of Encountered Ground Conditions

Stratum	Depth to Top of Strata m bgl (mAOD)	Thickness (m)		Description
		Min (m bgl)	Max (m bgl)	
Topsoil	0.00 (55.50 – 41.75)	0.20	0.60	Grass over slightly sandy silty CLAY with frequent rootlets
Made Ground	0.30 – 0.50 (54.10 – 48.10)	0.15	2.10	Reworked brown sandy silty CLAY with brick, wood, ceramics and slate. Cobbles of brick and sandstone 1
Superficial Deposits (CLAY)	0.30 – 2.60 (54.80)	1.20	10.20	Soft to firm/firm to stiff red brown silty sandy gravelly CLAY
Superficial Deposits (PEAT)	1.70 (43.80)	0.05	0.05	Dark brown dry fibrous PEAT 2
Superficial Deposits (SILT)	2.10 – 6.40 (46.60 – 38.90)	0.50	2.10	Soft grey sandy SILT/ clayey SILT 3
Superficial deposits (SAND)	0.40 – 4.00 (45.20 – 40.10)	0.90	3.00	Brown fine to coarse SAND with gravel.
Superficial deposits (SAND & GRAVEL)	4.00 (43.90)	2.00	4.00	Brown fine to coarse SAND and GRAVEL4
Bedrock (Pennine Lower Coal Measures)	1.50 – 9.50 (48.20 – 35.30)	-	- 5	Mudstone, siltstone, sandstone and coal

The site geology comprises Topsoil (typically 0.20-0.60 m thick) over Glacial Till (between 1.20-10.20 m thick) with Pennine Lower Coal Measures and evidence of coal and workings below. There were subordinate bands of silt, sand and gravels within the Glacial Till.

The extent of coal mine workings or potential coal mine workings across the development area appeared to be limited, particularly related to the site in isolation, however there was evidence of intact coal in RH08 at 29.00m bgl, and across the wider Commercial site.

There was evidence of intact coal (RH14, RH16, RH17) and collapsed workings (inferred from groundwater) within the rotary holes undertaken with a possible void outside the High Risk Development Area in RH13. All of these boreholes are located east of the site.

Ground Contamination and Ground Gas Assessment

The environmental chemistry soil results have been compared with the GACs for 'Commercial' end use. No exceedances were recorded when compared against the nominated Tier 1 thresholds. One sample obtained from TP29, at a depth of 0.90m bgl, identified Chrysotile cement within Made Ground deposits. Quantification of the sample recorded 0.002% by sample weight of asbestos.

The risk presented to site end users from soil contamination is **Low**, with the exception of the far east of the wider Earlsfield Park development site where asbestos was identified, it is **Moderate/Low**. Further trial pits should be undertaken in this area to delineate the Made Ground, and identify the extent of the presence of asbestos.

During ground gas monitoring, a maximum concentration of 19.8% v/v carbon dioxide (CO₂) was recorded in BH13 (deep monitoring well) and 3.4% v/v in WS19 (shallow monitoring well). A maximum methane concentration of 1.4% v/v was recorded in the deep wells only (BH08). A maximum representative flow rate of 4.6 l/hr (deep monitoring wells) and 6.0 l/hr (shallow monitoring wells) was recorded. Carbon monoxide (CO) concentrations of up to 13ppm were recorded in BH06. Concentrations of hydrogen sulphide (H₂S) have been recorded below the instruments limit of detection. The maximum recorded levels of CO₂ and CH₄ results in calculated Gas Screening Values (GSV) of 0.9108 l/hr and 0.0644l/hr respectively, for the deeper monitoring wells; and 0.204 l/hr and 0.006 l/hr for carbon dioxide and methane respectively in the shallow monitoring wells. A Characteristic Situation 2 (CS-2) Gas regime was assessed for the site, requiring gas protection measure for all buildings.

5 PRELIMINARY UNEXPLODED ORDNANCE RISK ASSESSMENT

Military activities including those conducted as part of both the First and Second World Wars have resulted in a legacy of unexploded ordnance (UXO) being present within the shallow soils of the UK.

UXO result from various sources including both allied (military training) and German (bombing raids) with a guide figure of approximately 10% of all munitions failing to function as designed.

An assessment of the likelihood of being UXO encountered has been undertaken to advise any intrusive ground investigation in the event that this is undertaken by Curtins. This risk is influenced by a number of factors including the proximity to strategic targets, the nature of the works being undertaken and evidence of local damage in the post-war periods amongst others. In order to determine the likelihood of UXO being present on a site, a stepwise risk assessment process is followed. This process is outlined within CIRIA C681 Unexploded Ordnance: A Guide for the Construction Industry (Ref. 10).

5.1 Preliminary UXO Assessment

It should be noted that the following assessment will only be applicable to future works with respect to ground investigation works completed by Curtins only. This includes trial pitting and boreholes to determine the nature of the ground conditions for geo-environmental and geotechnical information. Where the client is looking to determine the risk from UXO throughout the entire enabling works and construction phase of the below ground level development, the principal contractor appointed for the enabling and construction works must obtain their own Detailed UXO Risk Assessment Report to advise their specific works, where deemed to be required by the Principal Contractor.

The risk presented by Unexploded Ordnance, identified using preliminary Unexploded Bomb (UXB) risk maps retrieved from Zetica UXO (Ref. 11), indicates that the site is situated in a designated **Low**-Risk area in respect to the potential presence of UXB as a result of World War Two bombing.

The Envirocheck Report historical mapping (Ref. 2) does not indicate any ruins surrounding the site in post war mapping.

Based on the forgoing commentary, the likelihood of encountering UXO on site as part of the Curtins intrusive ground investigation works is **Low** and therefore has not been considered further.

For below ground demolition or construction works the principal contractor should carry out their own UXO risk assessments with specific consideration of their scope of works.

If unexploded ordnance is discovered, stop immediately, prevent access to the area, and inform the police. If the site boundary or location changes then the UXO risk should be reassessed.

6 COAL MINING RISK ASSESSMENT

6.1 References

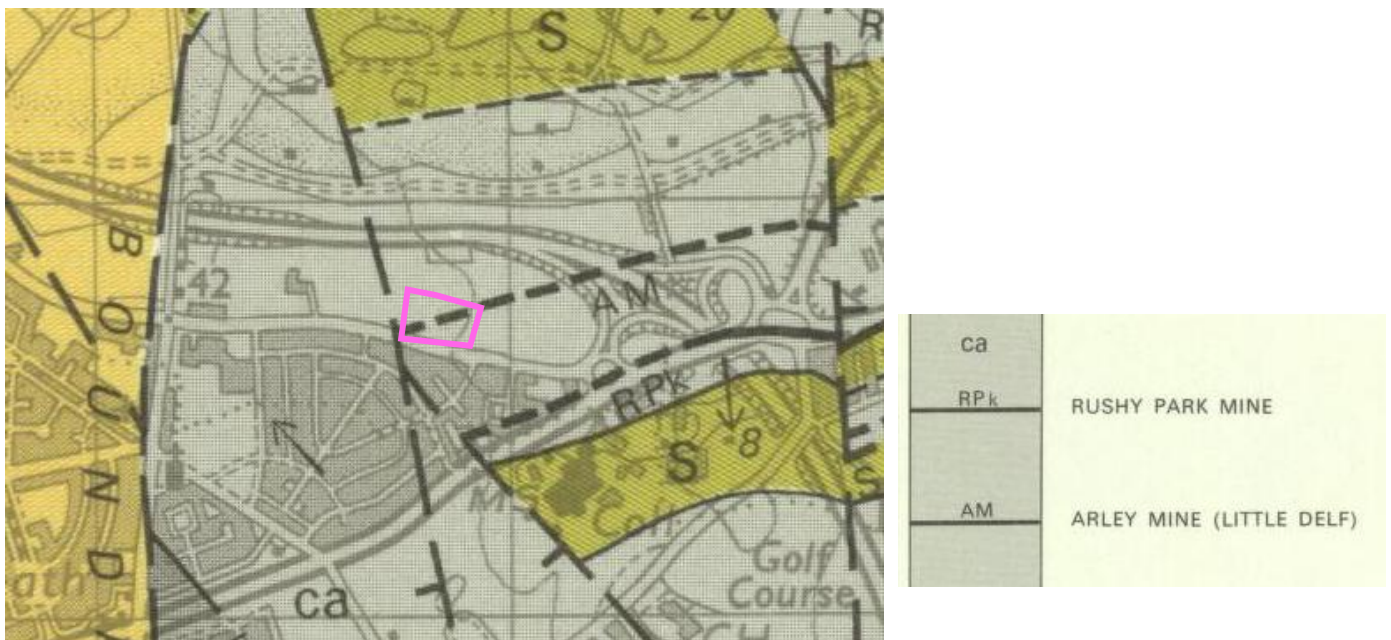
The information presented within the Coal Mining Risk Assessment has been prepared with reference to the following information sources:

- British Geological Society (BGS) Bedrock (2010) 1:50,000 mapping, Sheet No. 097 (Runcorn) (Ref. 4).
- British Geological Society (BGS) Bedrock and Superficial (2011) 1:50,000 mapping, Sheet No. 097 (Runcorn) (Ref. 5).
- BGS Borehole Records (opensource website) (Ref. 6).
- Mining Remediation Authority Interactive Mapping (Opensource website) (Ref. 7).
- Mining Remediation Authority Coal Mining Consultants Report Document Ref. 51003505615001 (Appendix C) (Ref. 3).

6.2 Geological Setting

A summary of the geological setting for the proposed development site is presented in *Section 4.0*.

An extract from BGS Mapping for the area is presented in Figure 2.



*Figure 3 - BGS Geological Mapping extract, 1:50,000 Runcorn (1980) Sheet 097
Extract from stratigraphic column relating to rocks underlying the site included on the right hand side.
Approximate Site Boundary in Pink.*

The Pennine Lower Coal Measures are recorded beneath the site. One named coal seam is recorded onsite (Arley Mine) and one named coal seam is recorded to the south of site (Rushy Park Mine).

6.3 Borehole Records

There are no available BGS borehole records located within 250m of the site, the nearest is located approximately 340m south east of the site. The details of this borehole record is given in Table 5.

Table 8 - Location and strata details of relevant borehole nearby.

Record Number	Location	Details (Depth to top of strata (m bgl), Description and Thickness)
SJ49SE149	Approx. 340m south-east 345230, 392500	Ground Level approximately 58.13 AOD. 0.00m Topsoil (0.12m) 0.12m Brown stoney CLAY (0.44m) 0.56m Brown grey CLAY (0.64m) 1.20m Brown boulder CLAY (6.69m) 7.89m Grey MUDSTONE weathered top (0.51m) 8.40m Grey SANDSTONE (3.20m) 11.68m Grey sandy MUDSTONE (1.66m) 13.34m Dark grey MUDSTONE (1.89m) 15.23m Grey MUDSTONE (2.77m) Borehole completed at 18.00m bgl (approximately 40.13m AOD).

This borehole record indicates superficial deposits indicative of Glacial Till from ground level to 7.89m bgl, with deposits indicative of bedrock encountered below this.

6.4 Mining Remediation Authority Records

Mining records held by The Mining Remediation Authority have been obtained and reviewed as detailed below.

The Mining Remediation Authority interactive mapping (Ref. 7) indicates the site is located within a coal mining reporting area, with a mine shaft located in close proximity to site, and that the site is within a Development High Risk Area due to being within a Mine Entry Potential Zone of Influence, as illustrated in Figures 4 and 5.



*Figure 4 – Mining Remediation Authority Map Extracts
 Mining Remediation Authority Recorded Development High Risk Area (left) Highlighted in Black Hatching.
 Mining Remediation Authority Recorded Mine Entries (right) Highlighted by Red X.
 Approximate Site Boundary in Pink.*

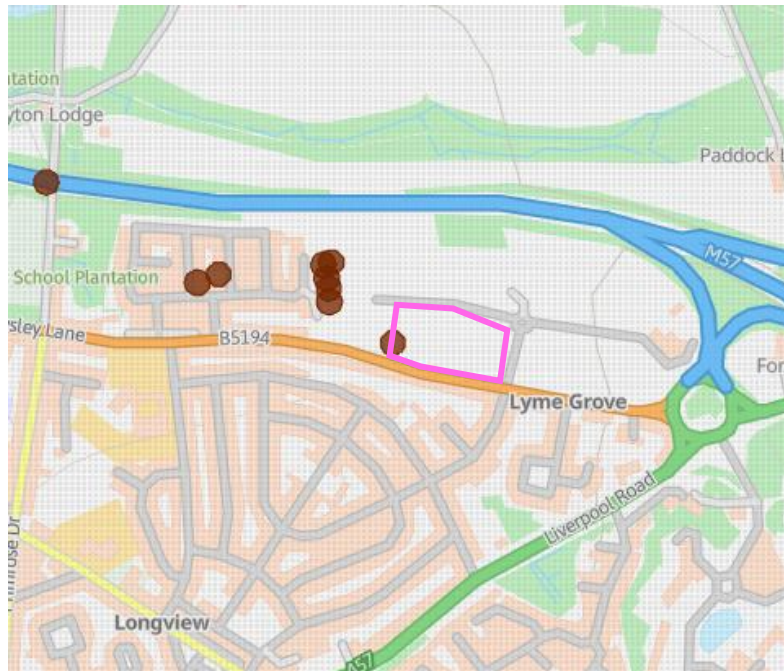


Figure 5 – Mining Remediation Authority Recorded Mine Entry Potential Zone of Influence in Brown.

A Mining Remediation Authority Consultants Mining Report was procured (Ref. 3) (Included within *Appendix C*). The findings are summarised below.

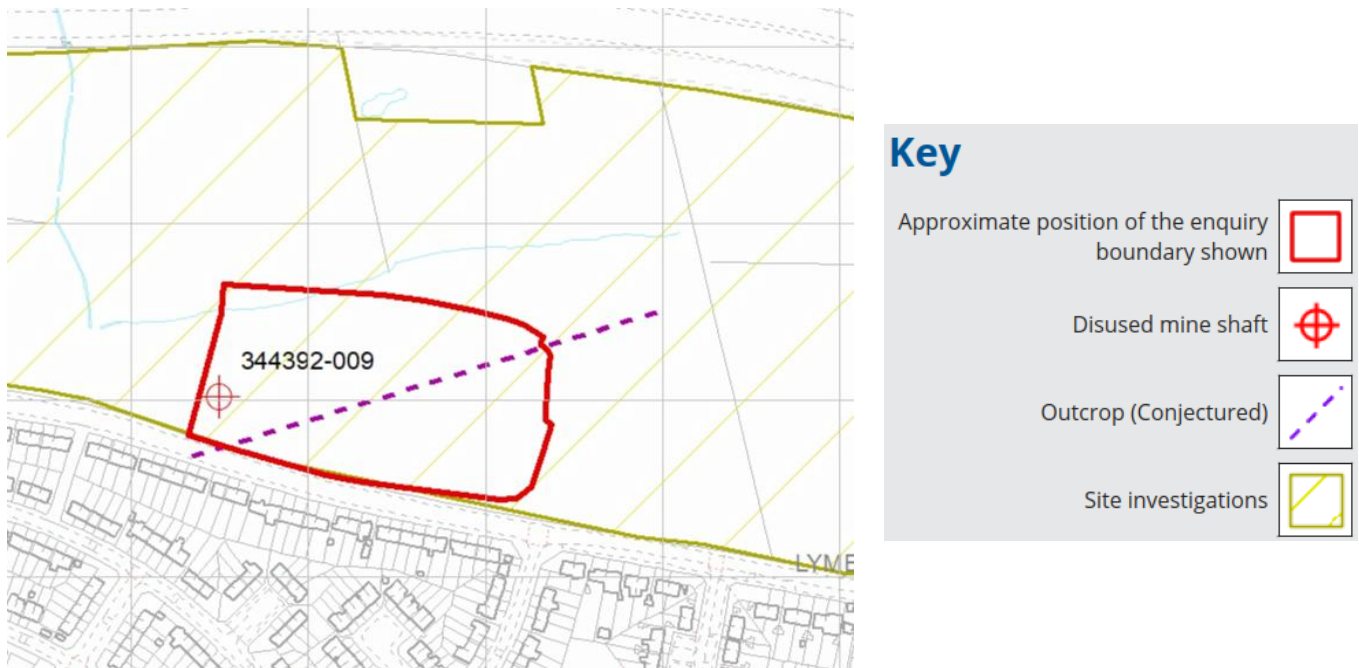


Figure 6 - Extract of Mining Remediation Authority Consultants Coal Mining Report (Ref. 51003505615001) (Box = approximate site location).

The Mining Remediation Authority Report (Ref. 3) and Figure 6 identifies a disused mine shaft located within the southwest of the site, and an outcrop striking NE-SW running through the centre of the site.

No Recorded Workings are identified, however due to the presence of a Coal outcrop Probable Unrecorded Shallow Workings are noted within the Mining Remediation Authority Consultants Coal Mining Report, correlating with their interactive mapping.

6.4.1 Outcrops and Past Underground Coal Mining

The Mining Remediation Authority Report (Ref. 3) identifies an outcrop striking NE-SW running through the centre of the site, noted as the Arley seam, detailed within Table 8 below.

Table 9 – Outcrops Recorded by the Mining Remediation Authority

Seam Name	Mineral	Seam Workable	Distance to Outcrop (m)	Bearing of Outcrop
Arley	Coal	Yes	On Site	72

No past underground coal mining is recorded onsite.

6.4.2 Mine Entries

There is 1 No. mine entries recorded within 100m of the site boundary (on-site), detailed within Table 9 below.

Table 10 – Mine Entries Recorded by the Mining Remediation Authority

Entry Type	Reference	Grid Reference and Location	Treatment Description	Mineral
Shaft	344392-009	344750, 392702	Shaft discovered by M&J Drilling, under Permit 24912, in July 2022. The shaft was found to be backfilled to its base with colliery spoil.	Coal

6.4.3 Abandonment Plans

The proposed development site lies within areas covered by the Mining Remediation Authority Abandoned Mines Plans. The proposed development site intersects the following records:

- 16820

6.4.4 Site Investigations

The Mining Remediation Authority records that site investigation has taken place on site historically.

6.4.5 Remediated Sites

The Mining Remediation Authority has no recorded remediation works relating to coal mining within 50m of the site boundary.

6.4.6 Mine Gas

No mine gas has been recorded within 500m of the site boundary according to the Mining Remediation Authority Consultants Mining Report.

A review of Mining Remediation Authority guidance “Coal seams with a history of spontaneous combustion” published in 2015 indicates that seams may have a history of spontaneous combustion where roof coal has been left in place.

6.4.7 Coal Mining Subsidence

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

087955-CUR-XX-XX-T-GE-00001 Rev. P01

Phase 1 Preliminary Risk Assessment and Preliminary Coal Mining Risk Assessment

Arnold Clark, Earlsfield Park, Knowsley

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

The Mining Remediation 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.

6.5 Historical Curtins Reports

The following reports have been undertaken by Curtins on (or in the wider Earlsfield development site):

- Phase 2 Ground Investigation Report – Commercial, Earlsfield Park, Knowsley, report ref. B065395-CUR-00-XX-RP-GE-005, dated January 2018;
- Phase 2 Ground Investigation Report – Marston's, Earlsfield Park, Knowsley, report ref. B063950-CUR-00-XX-RP-GE-006-V02, dated February 2018;
- Coal Mining Risk Ground Investigation Report, Earlsfield Park, Knowsley, report ref. B065395-CUR-00-RP-GE-003-V02, dated January 2018 and
- Commercial Development Mine Entry Letter Report, Land at Knowsley Farm, Earlsfield Park, report ref. B065395.002-CUR-00-XX-RP-GE-001-V01; December 2018
- Shallow Coal Mine Workings Grouting Completion Report, Areas 1, 2 and 3, Earlsfield Park Commercial Development Knowsley, report ref. 079708-CUR-XX-XX-T-GE-00003-P01; May 2023

6.5.1 Summary of Ground Investigations

Refer to section 4.4 above for the historical ground conditions identified.

The extent of coal mine workings or potential coal mine workings across the development area appeared to be limited, particularly related to the site in isolation, however there was evidence of intact coal in RH08 at 29.00m bgl, and across the wider Commercial site.

There was evidence of intact coal (RH14, RH16, RH17) and collapsed workings (inferred from groundwater) within the rotary holes undertaken with a possible void outside the High Risk Development Area in RH13. All of these boreholes are located east of the site.

Mine stabilisation works were recommended.

6.5.2 Completion Report

The Verification and Validation Completion Report describes the stabilisation of mine workings (coal) undertaken across the site of interest, and an unrecorded mine shaft encountered during the mine working stabilisation works.

These works have been undertaken in general accordance with the following scope of works and specifications:

- Scope of Works – Stabilisation of Coal Mine Workings, Earlsfield Commercial Development, report ref. B079708.300-CUR-00-XX-RP-86001-V01, dated February 2022.
- Specification for Grout Stabilisation of Shallow Coal Mine Workings, Knowsley Lane, Earlsfield Commercial Development, report ref. B079708.300-CUR-00-XX-RP-GE-86002-V01, dated February 2022.
- Scope of Works – Stabilisation of Coal Mine Shafts, Earlsfield Commercial Area, report ref. 079708-CUR-00-XX-RP-GE-86003-P02, dated November 2022.
- Specification for Grout Stabilisation of Mine Shaft, Earlsfield Commercial Area, Knowsley, report ref. 079708.300-CUR-00-XX-RP-GE-86004-P02, dated November 2022

Stabilisation of Mine Workings

The stabilisation works of Areas 1, 2 and 3 were undertaken in accordance with the specification.

The stabilisation works comprised the advancement of 1293 no. shallow (15m) and 9 no. deeper (30m) proof grouting drill and grout holes within the site, on a 6m primary grid. Drill and grout holes were undertaken between 8th June 2022 and 18th July 2022.

The presence of 2 coal seams have been noted in the West of the site, with an apparent dip to the north. The seam was recorded from depths of 4.00m bgl to 8.20m bgl with recorded thicknesses in the region of 0.10m and 1.50m. This coal was recorded as intact throughout.

A second, deeper seam was recorded in the west, recorded from 8.60m to 13.70m bgl. Seam thicknesses in the region of 0.20m to 0.60m were recorded and was intact throughout.

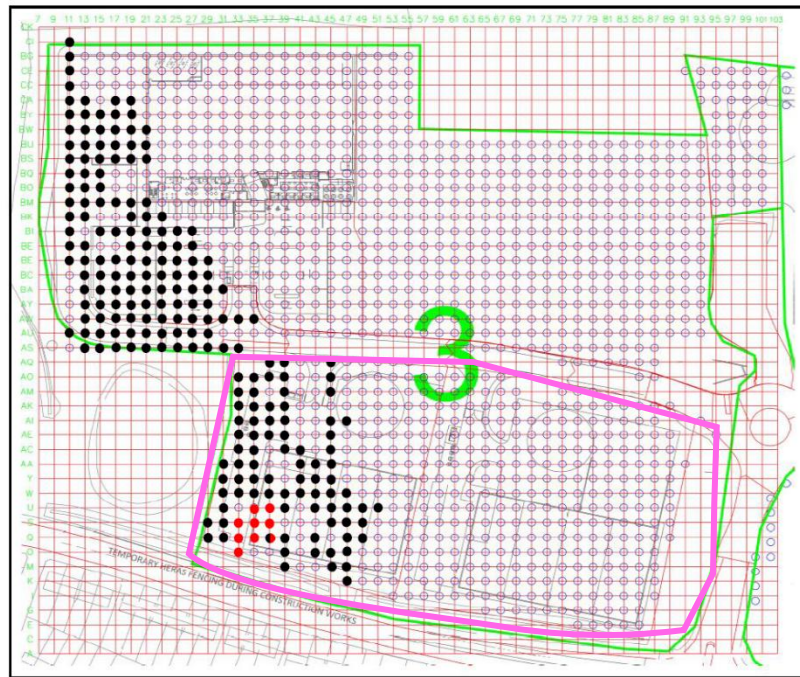


Figure 7 –Plan Area 3 (Outlined in Green). Drilled holes on a 6m grid shown by a blue circle and cross, Coal identified (Black) and Broken Ground (Red). Proposed Arnold Clark Development overlain (Pink)

Broken ground was encountered in 9 No. boreholes during the drilling works (which were subsequently grouted) on the Arnold Clark Development site, from depths ranging between 6.00m to 9.80m bgl with recorded thicknesses in the region of 1.50m to 4.80m. 6 No. of the boreholes with broken ground also encountered a loss of flush during drilling, presented in Figure 7 above. These loco

Mine Shaft Treatment

A previously unrecorded shaft was encountered during grout stabilisation works (in the southwest of the Arnold Clark development site). The shaft was known as “Unrecorded Shaft 1” (now recorded by the Mining Remediation Authority as 344392-009).

The shaft was identified in grout position U33 in Area 3 of the development site, located at Easting 344750.073, Northing 392702.230. It was recorded as being infilled with soft surficial soils; however no records of formal shaft treatment were available for review.

The mine shaft was grouted successfully to its full depth. A concrete cap was then placed at bedrock over the centre of the mine shaft.

It can therefore be concluded that the capping works were completed satisfactorily and in accordance with the design drawings/specification.

It was recommended that future site levels over shaft ref. 344392-009 must not exceed 44.4m AOD, and must be used as a car park which may be used by articulated lorries. Variation beyond this will require agreement and confirmation in writing with the shaft cap designer.

6.6 CMRA Conclusions and Recommendations

The Coal Mining Risk Assessment has been prepared with reference to the proposed development of site, understood to consist of a single-storey extension to the existing building.

The site is identified to lie within a Development High Risk Area an assessment of available data suggests that this is because of a disused mine entry in close proximity to the site (north-western site boundary). A summary of the mining risks pertaining to the development site is summarised in Table 12.

Table 11 - Summary of Mining Risks

Scenario	Hazard Rating	Likelihood	Risk	Comments	Proposed Action
Deep Mining (Shafts)	Medium	Unlikely	Low	Review of the Mining Remediation Authority Interactive Map and Consultants Mining Report indicates the presence of a disused mine shaft in the southwest of the site (ref. 344392-009). Shaft discovered by M&J Drilling, under Permit 24912, in July 2022. The shaft was found to be backfilled to its base with colliery spoil. Curtins identified the mine shaft during site wide grouting works in 2022. The mine shaft was grouted successfully to its full depth. A concrete cap was then placed at bedrock over the centre of the mine shaft	<i>No build zones to be implemented to ensure developments are not constructed within the potential collapse zone of the shaft. Future site levels over shaft ref. 344392-009 must not exceed 44.4m AOD, and must be used as a car park which may be used by articulated lorries. Variation beyond this will require agreement and confirmation in writing with the shaft cap designer.</i>
Deep Mining (Voids, broken ground)	Medium	Unlikely	Low	Review of the Mining Remediation Authority (MRA) Interactive Map and Consultants Mining Report indicates a coal seam outcropping on site (Arley Coal), however no noted past underground mining is recorded on site. Previous ground investigations noted the evidence of intact coal (RH14, RH16, RH17) and collapsed workings (inferred from groundwater) within the rotary holes undertaken with a possible void outside the High Risk Development Area in RH13. All of these boreholes are located on the wider Earlsfield development site, away from the Arnold Clark Development site.	No further action required. Site undergone grout stabilisation.
Shallow Mining (Voids, broken ground)	Medium	Unlikely	Low	Multiple workings may be located beneath the site at shallow depth. Curtins undertook site wide stabilisation works across the Earlsfield development site. The stabilisation works comprised the advancement of 1293 no. shallow (15m) and 9 no. deeper (30m) proof grouting drill and grout holes within the site, on a 6m primary grid. The presence of 2 coal seams have been noted in the West of the site, with an apparent dip to the north. The seam was recorded from depths of 4.00m bgl to 8.20m bgl with recorded thicknesses in the region of 0.10m and 1.50m. Broken ground was encountered in 9 No. boreholes during the drilling works (which were subsequently grouted) on the Arnold Clark Development site, from depths ranging between 6.00m to 9.80m bgl with recorded thicknesses in the region of 1.50m to 4.80m. 6 No. of the boreholes with broken ground also encountered a loss of flush during drilling.	No further action required. Site undergone grout stabilisation.
Mine Gases	Medium	Low Likelihood	Moderate/Low	The Mining Remediation Authority Consultants Mining Report did not suggest the presence of mine gases on-site. Potential for mine gas emissions from potential unrecorded coal workings to be released during drilling, or future construction.	Ground Investigation should include ground gas monitoring. Water flush during drilling to mitigate against mine release and migration of mine gas emissions.
Spontaneous Combustion	Severe	Unlikely	Moderate/Low	Although no named nearby coal seams have a history of spontaneous combustion, spontaneous combustion may occur where roof coal is left in place in Lancashire. There are recorded mine workings associated with the Wigan Two Feet Coal Seam beneath the site. Mining Remediation Authority Interactive Mapping indicates past shallow coal mine workings beneath the site, along with the potential for unrecorded shallow coal mine workings.	During ground investigation, mine gas monitoring to be undertaken and water flush to be used to mitigate potential risks associated with spontaneous combustion.

7 CONCEPTUAL SITE MODEL & QUALITATIVE RISK ASSESSMENT

The conceptual site model (CSM) and Qualitative Risk Assessment (QRA) are presented in the table presented in this section.

The CSM details the source-pathway-receptor linkages or potential pollutant linkages (PPL) that have been identified for the site. The QRA details the associated level of risk relating to these potential pollutant linkages.

The CSM and QRA concern risk to human health and water environment with additional, more specific risk assessment protocols contained within the main body of this reporting, as detailed in *Section 7.1* below.

The QRA follows the framework outlined within CIRIA C552 which is summarised within *Appendix D*.

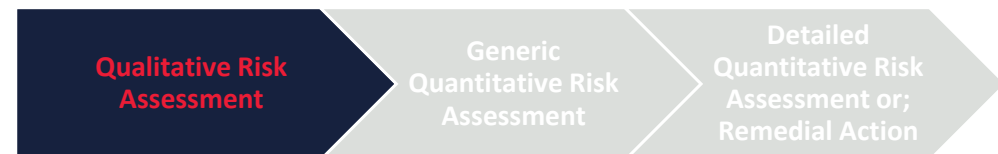
The 'risk rating' within the QRA refers to the risk that the source, pathway, receptor linkage or PPL is complete. Unless specifically stated it does not necessarily refer to an immediate risk and is intended to be used as a tool to assess the necessity for further assessment/investigation.

7.1 Additional Risk Assessments

The following risk assessments, listed below, are not included within the main CSM and QRA but none-the-less can be of critical importance to the onward development of the site.

- The risk presented by Mining is discussed and assessed in *Section 4.1.1*, *4.1.2* and *Section 6.0*.
- The risk presented by Radon is discussed and assessed in *Section 4.1.4*.
- The risk presented by Unexploded Ordnance is discussed and assessed in *Section 5.1*.

Under current health and safety legislation, employers are required to carry out their own appropriate risk assessments and mitigation to protect themselves and their employees, other human receptors, and the environment from potential contamination. Such risks must be adequately mitigated by law, specifically the Construction Design Management (CDM) Regulations (2015) (Ref. 12) which require that potential risks to human health and the environment from construction activities are appropriately identified and all necessary steps taken to eliminate / manage that risk. It has been assumed that any future construction works on site will be undertaken in compliance with these requirements.



- The table below represents the first stage in the land quality risk assessment process: The Qualitative Risk Assessment.
- For a development site to be deemed 'suitable for use', the level of risk needs to be brought down to acceptable levels, i.e. low to negligible risk. The purpose of each stage of risk assessment is ultimately to establish, if there is a requirement for additional levels of assessment to be made to have sufficient confidence to support a risk characterisation or management decision, e.g. remedial action.
- In the absence of specific site data, a Generic Quantitative Risk Assessment is invariably recommended.

Conceptual Site Model			Qualitative Risk Assessment			Recommended Actions
Source	Pathway(s)	Receptor(s)	Consequence	Likelihood of Occurrence	Risk Rating	
On-Site Sources of Potential Contamination: • Made Ground of unknown composition • Potential for uncontrolled deposition of Made Ground during current construction activities on the site. • Historical Ground Investigations identified Asbestos fibres across the wider site.	Direct contact, ingestion, inhalation (dust and vapours)	End user of site	Medium <i>Chronic health risk</i>	Low Likelihood Limited historical development on site. Potential for uncontrolled deposition of Made Ground during current construction activities on the site. Development proposals include the construction of an Arnold Clark car dealership building and associated hardstanding comprising forecourt and parking, the presence of hardstanding will break the source pathway receptor linkage for direct contact. Historical Ground Investigations identified Asbestos fibres across the wider site (none noted on the Arnold Clark Development Site).	Moderate/Low	Generic Quantitative Risk Assessment Recommended as part of the investigation.
		Construction and Maintenance Workers	Medium <i>Chronic health risk</i>	Low Likelihood Workers should be provided with appropriate PPE to prevent exposure to any potential contaminants on site.	Moderate/Low	Workers should be provided with appropriate PPE and sanitary facilities during works.
	Vertical Migration through the superficial deposits May occur due to existing service corridors, basements, and physical processes including; capillary action and downwards into the natural deposits through infiltration.	Controlled Waters (Groundwater) Secondary A Aquifer associated with the bedrock deposits. Site is not located within a Source Protection Zone. No potable groundwater abstractions located within 500m of the site.	Medium <i>Pollution of sensitive water resources</i>	Unlikely Little to no potential sources of gross contamination. Although there is a Secondary A Aquifer below the site within the Pennine Lower Coal Measures, BGS recorded borehole logs indicate the presence of cohesive soils which would limit the potential for vertical migration of contaminants of concern, preventing the source-pathway-receptor linkage.	Low	No further assessment required.
Off-site Sources of Potential Contamination: • Made Ground of unknown composition • Potential for uncontrolled deposition of Made Ground during construction of eastern residential properties, immediate road infrastructure and the northern commercial properties development	Horizontal Migration over and through the superficial deposits (soils) May occur due to the influence of perched or natural groundwater flow patterns and natural or man-made high permeability zones, e.g. sand lenses or drainage runs.	Controlled Waters (Surface Water) Pond feature adjacent to the western boundary. Drainage ditch approximately 69m west of the site.	Medium <i>Pollution of sensitive water resources</i>	Unlikely Little to no potential sources of gross contamination. Water Shallow ground conditions anticipated to include cohesive soils, accounting for nearby BGS borehole logs, limiting the potential for horizontal migration of potential contamination within shallow Made Ground Soils.	Low	No further assessment required.
On and off-site soils with the potential to generate ground gases: • Potential for Made Ground from construction on-site with unknown material that has the potential to contain organic / putrescible material. • Historical Ground Investigations classified the wider site as Characteristic Situation 2 (CS-2) Gas regime was assessed for the site, requiring gas protection measure for all buildings	Vertical and horizontal migration through existing service corridors and the underlying superficial deposits	End user of site	Medium <i>Acute health risk, e.g. asphyxiation or risk from explosion</i>	Low Likelihood Low gas generation potential within Made Ground soils.	Moderate/Low	Ground Gas Monitoring and Risk Assessment Recommended as part of the ground investigation.

8 CONCLUSION AND RECOMMENDATIONS

The qualitative risk assessment (QRA) determined a Low to Moderate/Low level of level of risk associated with the proposed development.

The QRA concluded by recommending that generic quantitative risk assessments (GQRA) were conducted to confirm the assessment of risk ascribed to each of the respective potential pollutant linkages (PPLs). It is recommended that the GQRA is conducted as part of a ground investigation in support of the engineering design of the proposed development an outline scope for which is detailed in the section hereafter.

In summary, the following recommendations are made:

- Implement no build zones around the treated mine shaft ref.344392-009 on site.
- Site levels over shaft ref. 344392-009 must not exceed 44.4m AOD, The area may be used as a car park which may be used by articulated lorries.
- Undertake an intrusive ground investigation to collect chemical and geotechnical samples to inform human health risk assessment and geotechnical assessment. It may be possible to utilise some of the previous ground investigation information in ground assessments, subject to reliance.
- Install monitoring wells to allow for monitoring sub-surface conditions, including ground gas and groundwater monitoring.
- Undertake a GQRA as part of the ground investigation to determine contaminated land risks.

It is further recommended that this work is completed in advance of any development works taking place.

8.1 Outline Scope of Works for Ground Investigation

It is envisaged that the ground investigation will comprise the following actions, all undertaken under the supervision of a suitably qualified engineer in line with current guidance and best practice:

- Intrusive borehole and trial pits – understand shallow ground conditions, assess the existing buildings foundations, provide shallow chemical and geotechnical information, and to facilitate the installation of standpipes for ground gas and groundwater level monitoring.
- Associated geotechnical and environmental laboratory testing (soils and if necessary, groundwater samples) – to develop a working ground model, assess the potential risk to end users of the site and other sensitive receptors, and determine suitable foundation solutions for the proposed development.

8.2 Contaminants of Concern

Potential contaminants of concern associated with the sources identified within the Site History, Coal Mining Risk Assessment and the Conceptual Site Model in Sections 3.0, 6.0 and 7.0 respectively include but are not limited to: broad range aliphatic and aromatic hydrocarbons present within any fuel oils; polycyclic aromatic hydrocarbons (PAHs); inorganic compounds including heavy metals; and asbestos.

Potential contaminants associated with the air-born dust/particulates include but are not limited to polycyclic aromatic hydrocarbons and inorganic compounds including toxic metals that are also accounted for by potential on-site contaminants of concern.

8.3 Other Considerations

There may be subsurface obstructions, voids and relic foundations associated with existing buildings.

The requirement for additional surveys, e.g. flood risk assessment, arboricultural, archaeological and ecological surveys, should be confirmed through advice from a suitably qualified and experienced professional.

9 REFERENCES

1. Environment Agency (2021) Land contamination risk management (LCRM) (last updated July 2023).
2. Landmark (2025) Envirocheck Report (Report Ref. 379206808_1_1).
3. Mining Remediation Authority (2025) Coal Mining Consultants Report (Report Ref. 51003505615001)
4. British Geological Society (BGS) Bedrock (2010) 1:50,000 mapping, Sheet No. 097 (Runcorn).
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8. Manchester City Council [online] Available at: [Workhouses, hospitals and industrial schools - Bury Union Workhouse \(Jericho Institution\) | Manchester City Council](https://www.manchester.gov.uk/workhouses-hospitals-and-industrial-schools-bury-union-workhouse-jericho-institution/) (accessed June 2025).
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10. CIRIA (2009) Unexploded Ordnance: A Guide for the Construction Industry (Report no. C681).
11. Zetica Risk Maps (UXO) [online] Available at: [Risk Maps | Zetica UXO](https://www.zetica.co.uk/risk-maps-uxo/) (accessed June 2025).
12. Health and Safety Executive (2015) Construction (Design and Management) Regulations.

10 APPENDICES

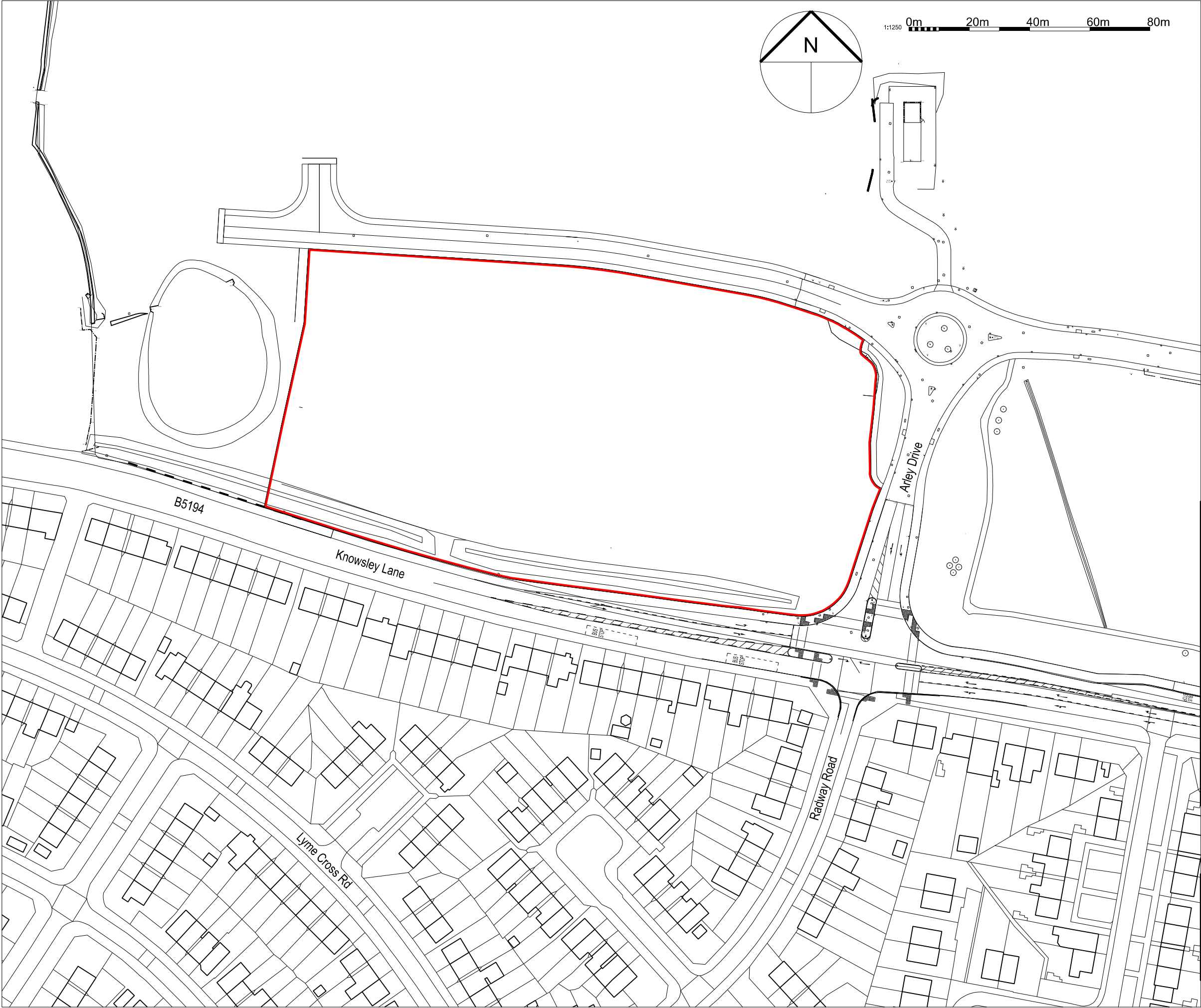
Appendix A – Drawings

Appendix B – Envirocheck Report

Appendix C – Mining Remediation Authority Report and Correspondence

Appendix D – Qualitative Risk Assessment Rationale

Appendix A – Drawings



All given dimensions are in millimetres
Architect to be notified of discrepancies in figured dimensions
Contractors must check all dimensions from site

This drawing is copyright and is for use on this site only

Amendments			
No		Prep	Date
P1	PLANNING ISSUE 1	LOG	29/04/25
P2	Do not scale reference omitted	PM	21/05/25

Project
**ACA New Concept
Knowsley Lane Liverpool**

Title
Location Plan

Job No. 6171 Drawing No. 001

Amendment: Scale @A3. 1:1250

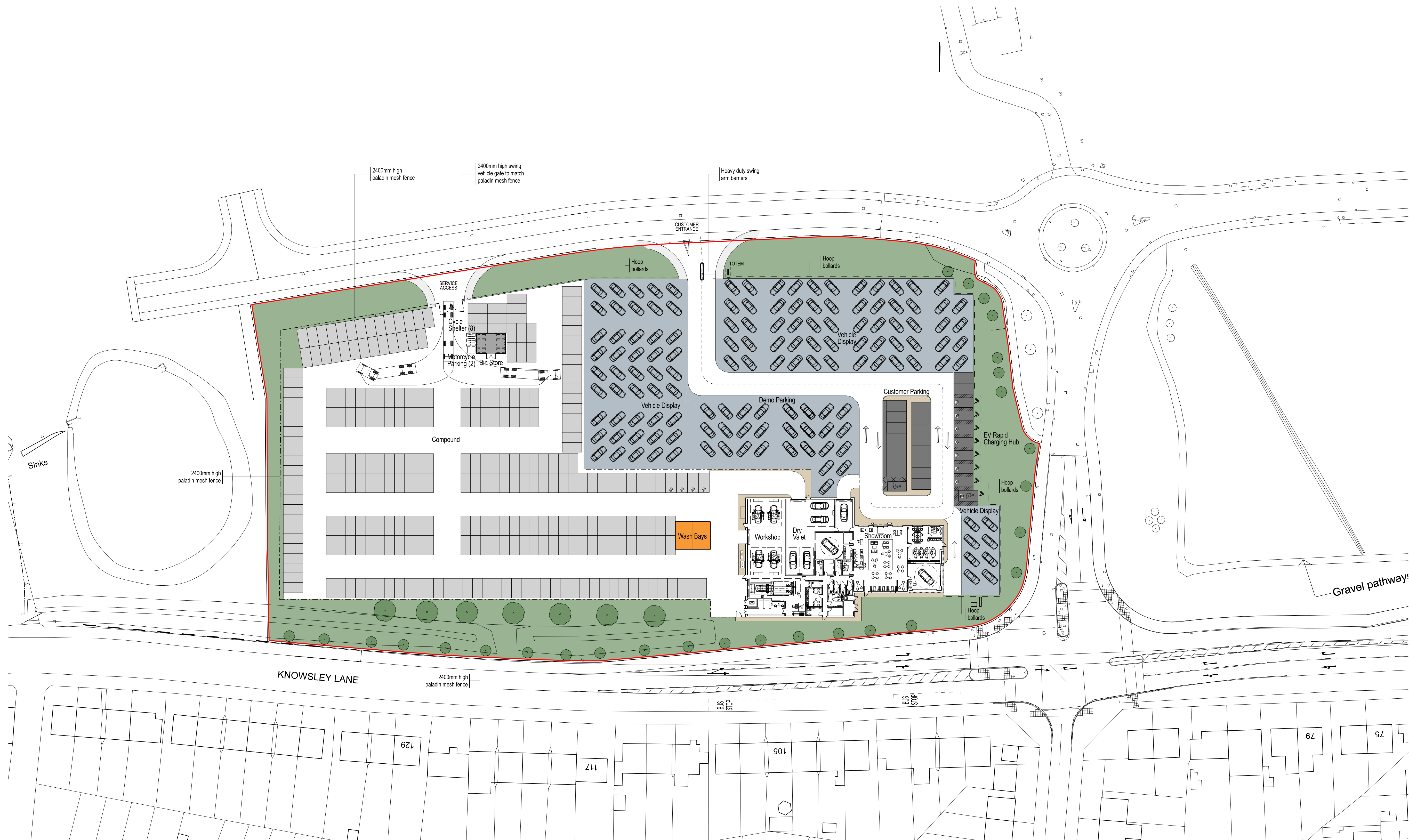
P1 P2

Status
PLANNING

Auth LOG Date April 2025

TAYLORDESIGN
architects

www.taylor-design.co.uk
Nordcliffe House, Station Road, Wilmslow, Cheshire SK9 1BU
t 01625 528181 e office@taylor-design.co.uk



BIN STORE
2200mm high timber/galvanised steel enclosed lockable bin store



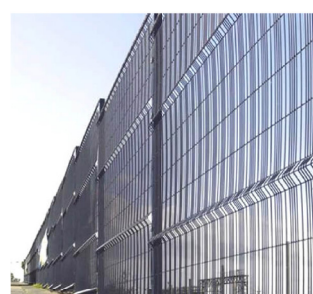
CYCLE STORAGE
Covered steel/GRP cycle store with sheffield style cycle hoops



FIXED SECURITY BOLLARDS
750mm high fixed bollard, finish to be galvanised steel



HEAVY DUTY MANUAL SWING ARM BARRIER
Finish to be galvanised steel



BOUNDARY SECURITY FENCE
2.4m Paladin mesh fence panels, colour to be black RAL 9005



USED VEHICLE DISPLAY
Tarmac finish, colour to be black



PAVING
Paving around showroom to be 200x100mm natural black pavers



VEHICLE CIRCULATION AREAS
Tarmac finish, colour to be black



CUSTOMER PARKING SPACES
Tarmac finish, colour to be black



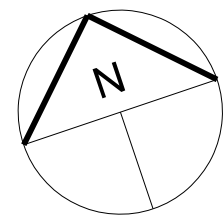
COMPOUND/STAFF PARKING SPACES
Tarmac finish, colour to be black



SOFT LANDSCAPED AREAS
New turf and planting

EXTERNAL FLOOR AREAS	
Main Building	1,240sqm
Wash	64sqm
Total Area	1,304sqm

PARKING SPACES	
Customer Parking	17 Spaces
Accessible Parking	2 Spaces
Customer EV Parking	7 Spaces
Vehicle Display / Demo	139 Spaces
Compound Parking	280 Spaces
Compound EV Parking	4 Spaces
Total Spaces	449 Spaces
Cycle Spaces	8 Spaces



0m 10m 20m 30m 40m

P3	Motorcycle parking added	PM	29.05.25
P2	Do not scale reference removed	LOG	21/05/25
P1	PLANNING ISSUE 1	LOG	29/04/25
2	INFORMATION ISSUE	PM	23.09.24
1	INFORMATION ISSUE	CS	14.08.24
No		Prep	Date

Amendments

All given dimensions are in millimetres
Architect to be notified of discrepancies in figured dimensions
Contractors must check all dimensions from site
This drawing is copyright and is for use on this site only

Project
ACA New Concept
Knowsley Lane Liverpool

Title
Proposed Site Plan

Job No. 6171 Drawing No. 101

Amendment: Scale @A1: 1:500

P1 P2 P3

Status **PLANNING**

Auth LOG Date April 2025

TAYLORDESIGN
architects

www.taylor-design.co.uk
Harding House, Station Road, Widneslow, Cheshire SK9 1BU
T: 01625 528181 E: office@taylor-design.co.uk

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Appendix B – Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

379206808_1_1

Customer Reference:

087955

National Grid Reference:

344840, 392710

Slice:

A

Site Area (Ha):

1.94

Search Buffer (m):

1000

Site Details:

Knowsley Lane

Liverpool

L36 8HN

Client Details:

Mr J Lord

Curtins Consulting Ltd

Merchant Exchange

17-19 Whitworth Street West

Manchester

M1 5WG

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	17
Hazardous Substances	-
Geological	19
Industrial Land Use	26
Sensitive Land Use	30
Data Currency	31
Data Suppliers	37
Useful Contacts	38

Introduction

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

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Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England. The probability result is only valid for properties above ground. All basement and cellar areas are considered to be at additional risk from high radon levels. If an underground room such as a cellar or basement makes up part of the living or working accommodation, the property should be tested regardless of Radon Affected Area status.

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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2			2	1
Prosecutions					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3	Yes			
Pollution Incidents to Controlled Waters					
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				1
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 4	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 4	Yes	n/a	n/a	n/a
Source Protection Zones	pg 4				1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 4		4	33	60
Water Framework Directive - Catchment	pg 15	Yes			Yes
Water Framework Directive - Groundwater	pg 15	Yes		Yes	
Water Framework Directive - Surface Waters					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 17				2
Potentially Infilled Land (Water)	pg 17		3	7	20
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 19	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 19	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 24				3
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 24	Yes	n/a	n/a	n/a
Mining Instability	pg 24	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 24	Yes	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 25	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 25	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 26			4	15
Fuel Station Entries	pg 27			1	2
Points of Interest - Commercial Services	pg 28		2	1	3
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 28			2	1
Points of Interest - Public Infrastructure	pg 28			2	2
Points of Interest - Recreational and Environmental	pg 29				4
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 30		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 30	1		1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NW)	0	1	344835 392706
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	0	1	344900 392650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	14	1	344900 392800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	62	1	345000 392700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	64	1	345000 392706
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	112	1	345050 392706
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	135	1	345050 392600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	145	1	344600 392750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	167	1	345000 392500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	185	1	344750 392950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (N)	185	1	344800 392950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	187	1	344835 392950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	196	1	345050 392500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	198	1	344950 392450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	207	1	344950 392950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	222	1	345000 392950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (E)	229	1	345150 392600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (N)	235	1	344800 393000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (N)	237	1	344835 393000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	255	1	344650 393000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	276	1	345200 392600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	285	1	344800 393050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	287	1	344835 393050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	291	1	344850 393050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	292	1	345200 392550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	293	1	344450 392600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	296	1	344900 393050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	302	1	345100 392400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	309	1	344550 393000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	335	1	344800 393100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	337	1	344835 393100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	346	1	344950 392300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (NE)	365	1	345000 393100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	414	1	344450 393050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	422	1	344400 393000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	445	1	344900 393200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	450	1	345350 392500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A17SE (NW)	452	1	344400 393050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	485	1	344750 393250
1	Discharge Consents Operator: Executors Of Rt Hon The Earl Of Property Type: FORESTRY + LOGGING Location: School Plantation, The Avenue, Knowsley, Merseyside Authority: Environment Agency, North West Region Catchment Area: Alt Reference: 0171/1477 Permit Version: 1 Effective Date: 23rd June 1971 Issued Date: 23rd June 1971 Revocation Date: 6th February 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Alt Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	272	2	344560 392960

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: M. Green Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Dye House, Liverpool Rd, Prescot, Merseyside, L34 1nr Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01m/339 Permit Version: 1 Effective Date: 14th September 1962 Issued Date: 14th September 1962 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Precsot Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14SW (E)	432	2	345369 392669
3	Discharge Consents Operator: Executors Of Rt Hon The Earl Of Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Paddock Road, Knowsley, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 01m/311 Permit Version: 1 Effective Date: 8th July 1953 Issued Date: 8th July 1953 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Alt Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	503	2	345360 393000
4	Local Authority Pollution Prevention and Controls Name: Total Knowsley Self Serve Location: Knowsley Lane, Knowsley, PRESCOT, Merseyside, L34 4AH Authority: Knowsley Metropolitan Borough Council, Environmental Health and Consumer Protection Division Permit Reference: B/1098/1.2/04 Dated: 29th January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A12NE (W)	278	3	344480 392829
	Nearest Surface Water Feature	A13NW (W)	0	-	344760 392731
5	Water Abstractions Operator: James Whitaker & Sons Nurserymen Ltd Licence Number: 2569028003 Permit Version: 100 Location: Logwood Mill Brook At Lh'S Premises, Prescot, Merseyside Authority: Environment Agency, North West Region Abstraction: Horticulture And Nurseries: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 8 Yearly Rate (m3): 773 Details: Lh'S Premises At Prescot, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15SW (E)	963	2	345900 392700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial: >90% Patchiness: <3m Thickness: Low Superficial Recharge: Low	A13NE (NW)	0	2	344835 392706
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (NW)	0	4	344835 392706
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (NW)	0	4	344835 392706
6	Source Protection Zones Name: Not Supplied Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A12NW (W)	615	2	344128 392822
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
7	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 410.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (W)	69	5	344676 392741
8	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 295.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (W)	69	5	344676 392741
9	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (N)	238	5	344867 392995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	242	5	344825 393003
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 303.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (N)	252	5	344863 393010
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	268	5	344647 393013
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	271	5	344720 393039
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (N)	272	5	344808 393034
15	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NW (NW)	273	5	344670 393026
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	284	5	344805 393046
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (N)	284	5	344901 393037
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (N)	286	5	344921 393035

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 277.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (N)	286	5	344924 393035
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13SE (SE)	290	5	345012 392371
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (S)	302	5	344977 392350
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (S)	302	5	344977 392350
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	305	5	344793 393069
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	320	5	344602 393049
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (N)	320	5	344815 393082
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (SE)	320	5	344992 392334
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	321	5	344603 393050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (S)	321	5	344990 392332
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	348	5	345152 393005
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	360	5	345161 393013
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	360	5	345161 393013
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A13NE (NE)	366	5	345163 393020
33	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	369	5	344515 393049
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (NE)	372	5	345201 392992
35	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (SE)	373	5	345012 392285
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	384	5	344496 393052

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	384	5	344496 393052
38	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	385	5	344505 393062
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18SW (NW)	390	5	344507 393070
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	425	5	344446 393062
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	433	5	344438 393065
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (W)	473	5	344267 392772
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	494	5	344372 393082
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 200.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8NE (S)	524	5	344903 392120
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	526	5	344321 393069

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	532	5	344333 393094
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A14NW (NE)	535	5	345383 393023
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	535	5	344329 393094
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 219.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (W)	546	5	344209 392840
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NE (NW)	556	5	344241 392988
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	571	5	344292 393106
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A9NW (SE)	590	5	345433 392351
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	606	5	345450 393049
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	606	5	345449 393051

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	606	5	345440 393065
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	606	5	345449 393051
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A19SW (NE)	607	5	345448 393055
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	639	5	344949 393389
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	652	5	344201 393116
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	661	5	344203 393135
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	662	5	344187 393113
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 54.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A9NW (SE)	664	5	345453 392249
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SE (NW)	670	5	344187 393129

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A9NW (SE)	687	5	345494 392265
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	695	5	344144 393106
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 56.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (NW)	697	5	344100 393014
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	699	5	344079 392957
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	700	5	344951 393451
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A18NE (N)	700	5	344951 393451
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Not Supplied Primacy: 1	A9NE (SE)	711	5	345545 392304
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	727	5	344090 393070
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8SE (S)	728	5	345056 391930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	734	5	344088 393080
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 318.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A17SW (NW)	736	5	344087 393084
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	760	5	344009 392931
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 259.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	761	5	344009 392938
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A12NW (W)	761	5	344009 392938
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A8SE (S)	791	5	345022 391861
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	795	5	345723 392839
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	795	5	345722 392844
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	818	5	345734 392908

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	819	5	345733 392913
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	835	5	345733 392975
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	836	5	345769 392794
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 190.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	843	5	345736 392991
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	875	5	345810 392767
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A14NE (E)	880	5	345815 392765
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	925	5	345744 393179
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	925	5	345744 393179
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	926	5	345744 393182

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	930	5	345740 393195
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.9 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A15NW (E)	931	5	345867 392754
93	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 98.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Home Pond Catchment Name: Alt Primacy: 1	A18NW (N)	938	5	344550 393681
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A15NW (E)	942	5	345878 392748
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	946	5	345713 393269
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	948	5	345713 393273
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	963	5	345700 393316
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A23SW (N)	971	5	344636 393729
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	974	5	345700 393336

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 195.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A19SE (NE)	974	5	345700 393336
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 470.0 Watercourse Level: Underground Permanent: True Watercourse Name: Prescott Brook Catchment Name: Ditton Primacy: 1	A15SW (E)	975	5	345913 392673
102	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 265.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A23SW (N)	987	5	344657 393748
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 655.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Alt Primacy: 1	A11NE (W)	998	5	343758 392900
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Alt WaterBody ID: GB112069060580 Operational: Alt Catchment: Alt Management: Alt and Crossens Catchment: Alt Catchment Name: Alt Crossens	A13NE (NW)	0	2	344835 392706
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Prescott Brook (Logwood Mill Brook) WaterBody ID: GB112069060710 Operational: Ditton Catchment: Ditton Management: Mersey Lower Catchment: Mersey Lower Catchment Name: Lower Mersey	A14NW (E)	560	2	345480 392860
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Croxteth/Knowsley Brook WaterBody ID: GB112069060610 Operational: Alt Catchment: Alt Management: Alt and Crossens Catchment: Alt Catchment Name: Alt Crossens	A18NW (N)	786	2	344720 393550
	Water Framework Directive - Groundwater Waterbody Name: Sankey and Glaze Carboniferous aquifers Waterbody ID: GB41202G100100 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB41202G100100 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Good Year: 2019	A13NE (NW)	0	2	344835 392706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Framework Directive - Groundwater Waterbody Name: Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers Waterbody ID: GB41201G101700 URL Address: https://environment.data.gov.uk/catchment-planning/WaterBody/GB41201G101700 Overall Rating: Poor Chemical Rating: Poor Quantitative Measure: Poor Year: 2019	A12NE (W)	394	2	344355 392803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	6	344835 392706
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	7	344835 392706
104	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A14SE (E)	892	-	345829 392658
105	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A9SW (SE)	912	-	345310 391822
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A13SW (W)	56	-	344676 392685
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NE (E)	144	-	345072 392771
108	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SW (S)	218	-	344754 392447
109	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SE (W)	281	-	344451 392689
110	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12NE (W)	387	-	344372 392842
111	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12SE (W)	407	-	344325 392684
112	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A17SE (NW)	420	-	344461 393069
113	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A12SE (SW)	421	-	344362 392480
114	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A14SW (E)	428	-	345366 392680
115	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A7NE (SW)	499	-	344492 392243
116	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A12NE (W)	523	-	344214 392749
117	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12SE (W)	545	-	344224 392480
118	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12SE (SW)	552	-	344231 392448
119	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A8SE (S)	619	-	344854 392028
120	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1908	A8SW (S)	646	-	344777 392010
121	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A14NE (E)	685	-	345596 392911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12NW (W)	728	-	344015 392810
123	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A7NE (SW)	750	-	344213 392139
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A7NE (SW)	753	-	344349 392033
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A8SW (S)	762	-	344541 391943
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A14NE (E)	810	-	345741 392819
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A7NE (SW)	816	-	344212 392052
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A8SW (S)	825	-	344686 391842
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A7NW (SW)	887	-	343943 392275
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A12SW (W)	890	-	343876 392435
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A12SW (W)	895	-	343843 392569
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1928	A7NW (SW)	971	-	343845 392284
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A9SW (SE)	983	-	345292 391736
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1909	A11NE (W)	990	-	343743 392732
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1850	A3NW (S)	999	-	344647 391673

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13NE (NW)	0	1	344835 392706
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NW)	0	1	344835 392706
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (W)	232	1	344500 392706
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	235	1	344835 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	244	1	344526 392550
	BGS Estimated Soil Chemistry 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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	259	1	344500 392565
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	269	1	345000 393000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium 2.2 - 3.0 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	276	1	344943 392364
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	294	1	344500 392500
	BGS Estimated Soil Chemistry 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: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	426	1	344749 393197
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	499	1	345000 393238
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	534	1	345149 393225
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	550	1	345117 393256

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	616	1	344127 392821
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium 1.8 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	650	1	344107 392500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium 3.0 - 6.0 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	650	1	345000 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	732	1	344000 392706
	BGS Estimated Soil Chemistry 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: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	735	1	344835 393500
	BGS Estimated Soil Chemistry 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 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	783	1	345121 393500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	786	1	344000 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: <15 mg/kg Concentration:	A7NW (SW)	811	1	344116 392152
	BGS Estimated Soil Chemistry 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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	822	1	344210 393385
	BGS Estimated Soil Chemistry 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: <100 mg/kg Nickel: <15 mg/kg Concentration:	A7NW (SW)	842	1	344000 392264
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 3.0 - 6.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (S)	848	1	345177 391836
	BGS Estimated Soil Chemistry 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: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	856	1	345104 393580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NE (E)	871	1	345774 392964
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NE (E)	879	1	345771 393000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	884	1	345000 391765
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 2.2 - 3.0 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: <15 mg/kg Concentration:	A7SW (SW)	912	1	344124 392000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SE (NE)	954	1	345690 393314
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SE (NE)	962	1	345696 393320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: 1.8 - 2.2 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A15NW (E)	968	1	345865 393000
136	BGS Recorded Mineral Sites Site Name: Ridng Hill Location: Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 95190 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	760	1	345368 393358
137	BGS Recorded Mineral Sites Site Name: Ridng Hill Location: Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 95189 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	823	1	345388 393421
138	BGS Recorded Mineral Sites Site Name: Moss Croft House Location: Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 95179 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Old Lawrence Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	916	1	345310 391817
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (NW)	0	8	344835 392706
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NW)	0	-	344835 392706
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	196	1	344813 392958
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	201	1	344925 392948
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	206	1	345000 392932
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	238	1	344649 392981
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	244	1	344526 392550
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	62	1	345000 392706
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (NW)	0	1	344835 392706

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Contemporary Trade Directory Entries Name: Shell Eg Earlsfield Services Location: 2 M57 Junction Huyton, Liverpool, Merseyside, L36 8HL Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A14SW (E)	252	-	345189 392703
140	Contemporary Trade Directory Entries Name: Sweep & Sparkle Location: 81, Hazel Road, Liverpool, L36 8ES Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	341	-	344737 392325
141	Contemporary Trade Directory Entries Name: Johnson Cleaners (Uk) Ltd Location: LYDIA HOUSE,Kings Business Park,Kings Dr, Prescot, Merseyside, L34 1PJ Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A9NW (SE)	446	-	345268 392366
142	Contemporary Trade Directory Entries Name: Action Pest Control Facilities Ltd Location: 433, Liverpool Road, Huyton, Liverpool, L36 8HT Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	469	-	344650 392215
143	Contemporary Trade Directory Entries Name: Mersey Care N H S Foundation Trust Location: V7 Building,Kings Business Park, Prescot, Merseyside, L34 1PJ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	514	-	345336 392342
143	Contemporary Trade Directory Entries Name: Alfred H Knight International Ltd Location: Pegasus House Kings Business Park,Kings Drive, Prescot, Merseyside, L34 1PJ Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	514	-	345336 392342
144	Contemporary Trade Directory Entries Name: Longview Hardware Location: 64, Hillside Road, Huyton, Liverpool, L36 8BJ Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	519	-	344414 392271
145	Contemporary Trade Directory Entries Name: E S S Test & Measurement Location: 7 Puma Court,Kings Drive, Prescot, Merseyside, L34 1BD Classification: Testing, Inspection & Calibration Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	573	-	345163 392127
146	Contemporary Trade Directory Entries Name: Air Tech Innovations Ltd Location: 13 Tiger Court,Kings Business Park, Prescot, Merseyside, L34 1BD Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	616	-	345271 392140
146	Contemporary Trade Directory Entries Name: Mac Clinical Research Location: 11 Tiger Court,Kings Drive, Prescot, Merseyside, L34 1BH Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	650	-	345268 392098
147	Contemporary Trade Directory Entries Name: P T B Electrical Services Location: 41, Morcroft Road, Liverpool, L36 8BQ Classification: Electrical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	661	-	344332 392155

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	Contemporary Trade Directory Entries Name: E S S Test & Measurement Location: 7 Puma Court, Kings Drive, Prescot, L34 1BD Classification: Testing, Inspection & Calibration Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	695	-	345257 392039
148	Contemporary Trade Directory Entries Name: Test & Measurement Hire Ltd Location: 7 Puma Court, Kings Drive, Prescot, L34 1BD Classification: Testing, Inspection & Calibration Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	695	-	345257 392039
149	Contemporary Trade Directory Entries Name: J Ross Location: Nyland Rd, Liverpool, L36 3TE Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (SW)	807	-	344058 392237
150	Contemporary Trade Directory Entries Name: Huyton Lane Garage Location: BROOKBRIDGE GARAGE, LIVERPOOL ROAD, PRESCOT, L34 1NL Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	815	-	345751 392636
151	Contemporary Trade Directory Entries Name: Right Choice Binders Ltd Location: 17, Whiston Lane, Huyton, Liverpool, L36 1TX Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	842	-	345314 391902
152	Contemporary Trade Directory Entries Name: B Rooney Location: 8, Chorley Road, Prescot, Merseyside, L34 1NT Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	898	-	345826 392557
153	Contemporary Trade Directory Entries Name: Beesley & Fildes Location: Nursery & Garden Centre, Liverpool Road, Prescot, Merseyside, L34 3LX Classification: Builders' Merchants Status: Active Positional Accuracy: Manually positioned within the geographical locality	A15NW (E)	930	-	345864 392787
154	Contemporary Trade Directory Entries Name: Kensol Enviromental Location: 9, Butleigh Road, Liverpool, L36 3SN Classification: Recycling Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	973	-	343917 392148
155	Fuel Station Entries Name: Eg Knowsley Earlsfield Services Location: A57 B5194, Junction 2, M57 , Liverpool, Merseyside, L36 8HL Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A14NW (E)	251	-	345188 392705
156	Fuel Station Entries Name: Bluebell Service Station Location: Liverpool Road , Huyton , Liverpool, Merseyside, L36 3RW Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Approximate location provided by supplier	A7NE (SW)	715	-	344434 392031
157	Fuel Station Entries Name: Superclean Location: Liverpool Road , , Prescot, Merseyside, L34 1NN Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A14SE (E)	815	-	345751 392637

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	Points of Interest - Commercial Services Name: McLean Valets Location: 114 Barford Road, Huyton, Liverpool, L36 8DQ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (SW)	141	9	344625 392589
159	Points of Interest - Commercial Services Name: Eg Knowsley Earlsfield Services Location: A57, B5194, Junction 2, M57, Liverpool, Merseyside, Liverpool, L36 8HL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14SW (E)	250	9	345187 392703
160	Points of Interest - Commercial Services Name: Action Pest Control Facilities Ltd Location: 433 Liverpool Road, Huyton, L36 8HT Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A8NW (S)	483	9	344634 392206
161	Points of Interest - Commercial Services Name: Independent Pest Control Ltd Location: 3 Beech Meadows, Prescott, L34 1PS Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A8NE (SE)	552	9	345081 392118
162	Points of Interest - Commercial Services Name: Huyton Lane Garage Location: Brookbridge Garage, Liverpool Road, Prescott, L34 1NL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	815	9	345751 392636
163	Points of Interest - Commercial Services Name: Kensol Enviromental Location: 9 Butleigh Road, Huyton, L36 3SN Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A7NW (SW)	973	9	343917 392148
164	Points of Interest - Manufacturing and Production Name: King's Business Park Location: L34 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	435	9	345251 392363
164	Points of Interest - Manufacturing and Production Name: King's Business Park Location: L34 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	443	9	345270 392373
165	Points of Interest - Manufacturing and Production Name: Workings (Dis) Location: L34 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	794	9	344645 393552
166	Points of Interest - Public Infrastructure Name: Eg Knowsley Earlsfield Services Location: A57, Junction 2, M57, Liverpool, L36 8HL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (E)	251	9	345188 392705
166	Points of Interest - Public Infrastructure Name: Shell E G Earlsfield Services Location: Junction 2 M5 Huyton, Liverpool, L36 8HL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14SW (E)	252	9	345189 392703
167	Points of Interest - Public Infrastructure Name: Sluice Location: L34 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	981	9	344411 393686

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	Points of Interest - Public Infrastructure Name: Sluice Location: L34 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	982	9	344412 393687
168	Points of Interest - Recreational and Environmental Name: Playground Location: Longview Lane, L36 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SW (S)	702	9	344808 391950
169	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	819	9	344219 392043
170	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	945	9	344742 391713
170	Points of Interest - Recreational and Environmental Name: Playground Location: Longview Lane, L36 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SW (S)	945	9	344742 391713

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A13NE (N)	136	6	344845 392898
172	Nitrate Vulnerable Zones Name: Alt Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (NW)	0	2	344835 392706
173	Nitrate Vulnerable Zones Name: Dittton Brook (Halewood To Mersey Estuary) Nvz Description: Surface Water Source: Environment Agency, Head Office	A14NW (E)	421	2	345350 392800

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office St Helens Metropolitan Borough Council - Environmental Protection Department West Lancashire District Council - Environmental Services Knowsley Metropolitan Borough Council - Department of Planning and Development Liverpool City Council - Liverpool Environmental Health & Trading Standards Division	November 2023 October 2017 October 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	April 2025	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	
Integrated Pollution Controls Environment Agency - North West Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - North West Region	April 2025	Quarterly
Local Authority Integrated Pollution Prevention And Control St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 October 2014	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 October 2014	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements St Helens Metropolitan Borough Council - Environmental Health Department Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division West Lancashire District Council - Environmental Health Department	December 2014 December 2015 January 2015 October 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	April 2025	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	
Historical Prosecutions Environment Agency, North West Region	March 2013	Not Applicable
Registered Radioactive Substances Environment Agency - Head Office Environment Agency - North West Region	May 2023 May 2023	
Substantiated Pollution Incident Register Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2025 April 2025	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	April 2025	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	As notified
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	December 2023	As notified
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2023	
Flood Water Storage Areas Environment Agency - Head Office	January 2024	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	
OS Water Network Lines Ordnance Survey	April 2025	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified
Water Framework Directive - Catchment Environment Agency - Head Office	July 2024	Annually
Water Framework Directive - Groundwater Environment Agency - Head Office	July 2024	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	April 2025	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	May 2025 May 2025	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2025 April 2025	Quarterly Quarterly
Local Authority Landfill Coverage Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Knowsley Metropolitan Borough Council Lancashire County Council - Waste Management Group Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council West Lancashire District Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - North Area Environment Agency - North West Region - South Area	June 2015 June 2015	

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2025	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Lancashire County Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council	April 2023 August 2015 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Knowsley Metropolitan Borough Council Lancashire County Council St Helens Metropolitan Borough Council West Lancashire District Council Liverpool City Council	August 2015 February 2016 February 2016 February 2016 January 2016	Variable Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2025	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	November 2024	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	November 2024	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2025	Quarterly
Fuel Station Entries Green Street Advisor (UK) Ltd	May 2025	Quarterly
Points of Interest - Commercial Services PointX	March 2025	Quarterly
Points of Interest - Education and Health PointX	March 2025	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2025	Quarterly
Points of Interest - Public Infrastructure PointX	March 2025	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2025	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	March 2025	Bi-Annually
Areas of Adopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council West Lancashire District Council	July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	May 2025	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	March 2025	Bi-Annually
Marine Nature Reserves Natural England	February 2025	Bi-Annually
National Nature Reserves Natural England	January 2025	Bi-Annually
National Parks Natural England	September 2024	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2023	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 November 2024	Annually
Ramsar Sites Natural England	February 2025	Bi-Annually
Sites of Special Scientific Interest Natural England	May 2025	Bi-Annually
Special Areas of Conservation Natural England	January 2025	Bi-Annually
Special Protection Areas Natural England	May 2025	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Knowsley Metropolitan Borough Council - Environmental Health and Consumer Protection Division Municipal Buildings, Cherryfield Drive, Kirkby, Knowsley, Merseyside, L32 1TX	Telephone: 0151 443 4731 Fax: 0151 289 7488 Website: www.knowsley.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.co.uk
6	Knowsley Metropolitan Borough Council Archway Road, Huyton, Liverpool, Merseyside, L36 9YU	Telephone: 0151 489 6000 Fax: 0151 443 2298 Website: www.knowsley.gov.uk
7	Merseyside Waste Disposal Authority 2nd Floor, North House, 17 North John Street, Liverpool, Merseyside, L2 5QY	Telephone: 0151 2551444 Fax: 0151 2271848 Email: enquiries@merseysidewda.gov.uk
8	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
9	PointX 5-6 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	St Helens Metropolitan Borough Council Town Hall, Corporation Street, St Helens, Merseyside, WA10 1HP	Telephone: 01744 456000 Fax: 01744 733337 Website: www.sthelens.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Landmark Information Group, Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0330 036 6618 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk

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

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	TILLD	Till, Devensian	Clay, Sandy, Gravelly, Cobbly	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CHES	Chester Formation	Sandstone	Not Supplied - Olenekian
	CHES	Chester Formation	Sandstone, Pebbly (Gravelly)	Not Supplied - Olenekian
	WLSF	Wilmslow Sandstone Formation	Sandstone	Not Supplied - Early Triassic
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMR	Pemberton Rock	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	OL	Old Lawrence Rock	Sandstone	Not Supplied - Westphalian
	RHR	Ravenhead Rock	Sandstone	Not Supplied - Westphalian
	MLRS	Milnrow Sandstone	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone	Not Supplied - Westphalian
		Rock Segments		
		Faults		

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Geology 1:50,000 Maps

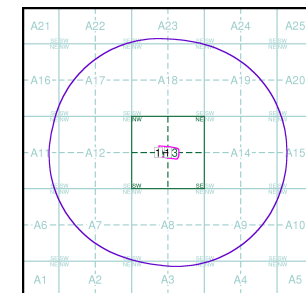
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 097
Map Name: Runcorn
Map Date: 1977
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Not Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

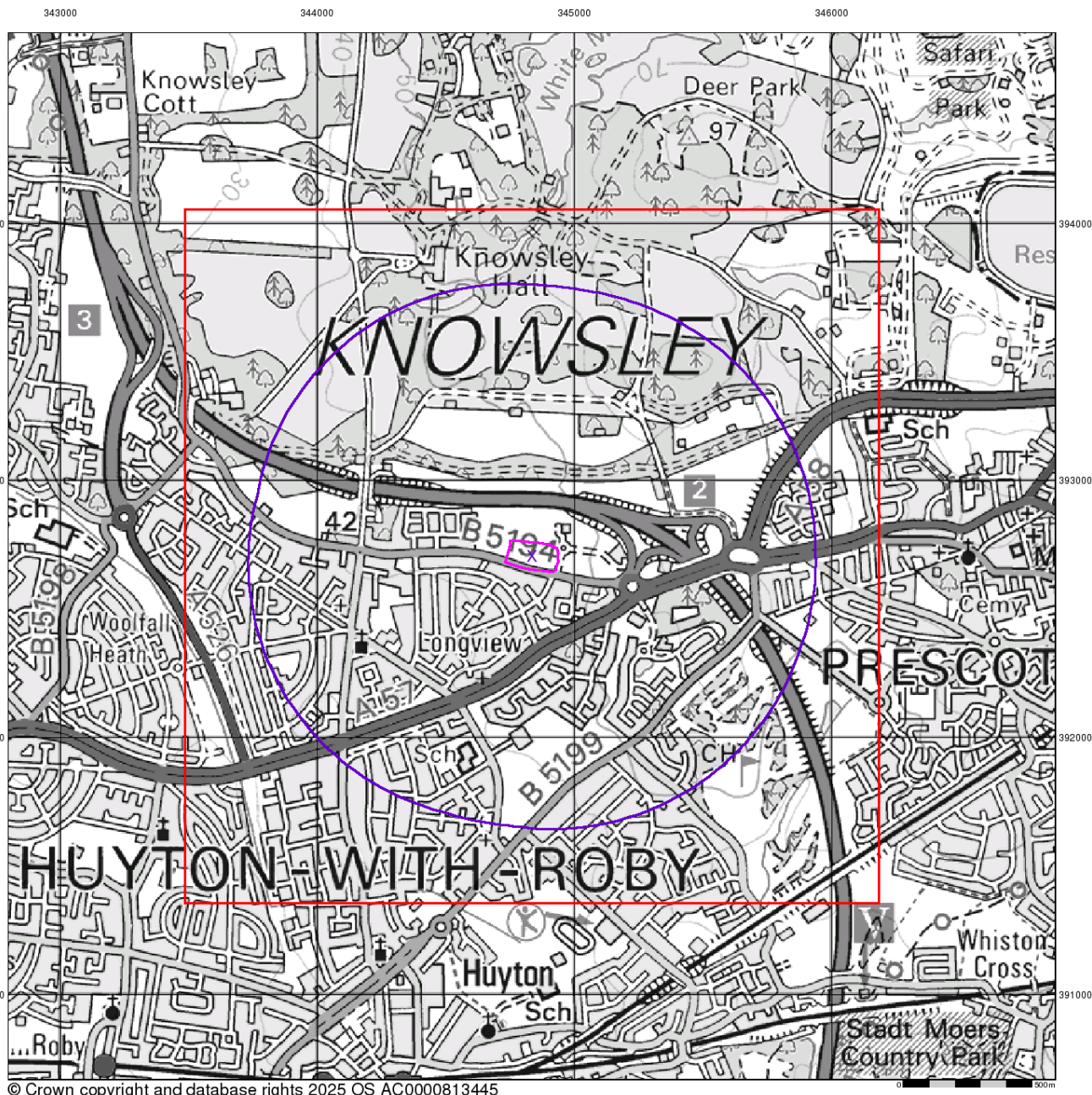
Order Number: 379206808_1_1
Customer Reference: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details:

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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



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Artificial Ground and Landslip

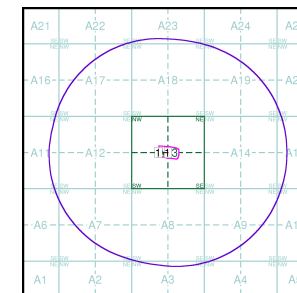
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

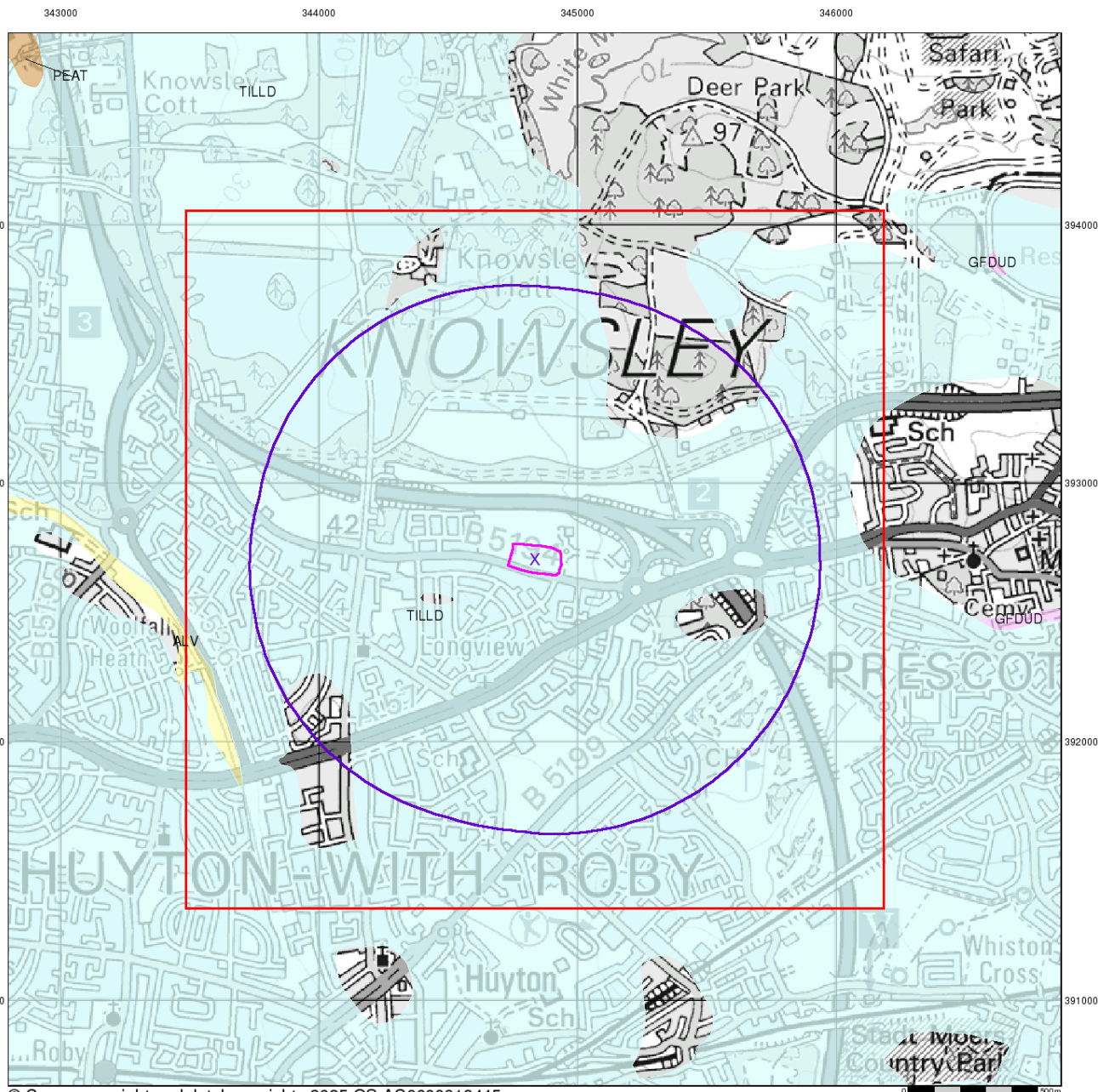
Order Number: 379206808_1_1
Customer Reference: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

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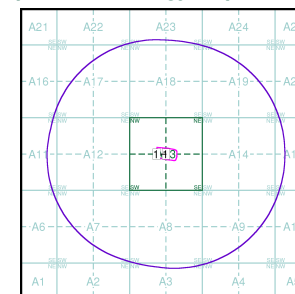
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

Order Number: 379206808_1_1
 Customer Reference: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
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Site Details:

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 Web: www.envirocheck.co.uk

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Page 3 of 5

Curtins

Bedrock and Faults

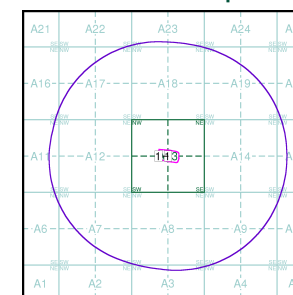
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 379206808_1_1
Customer Reference: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details:

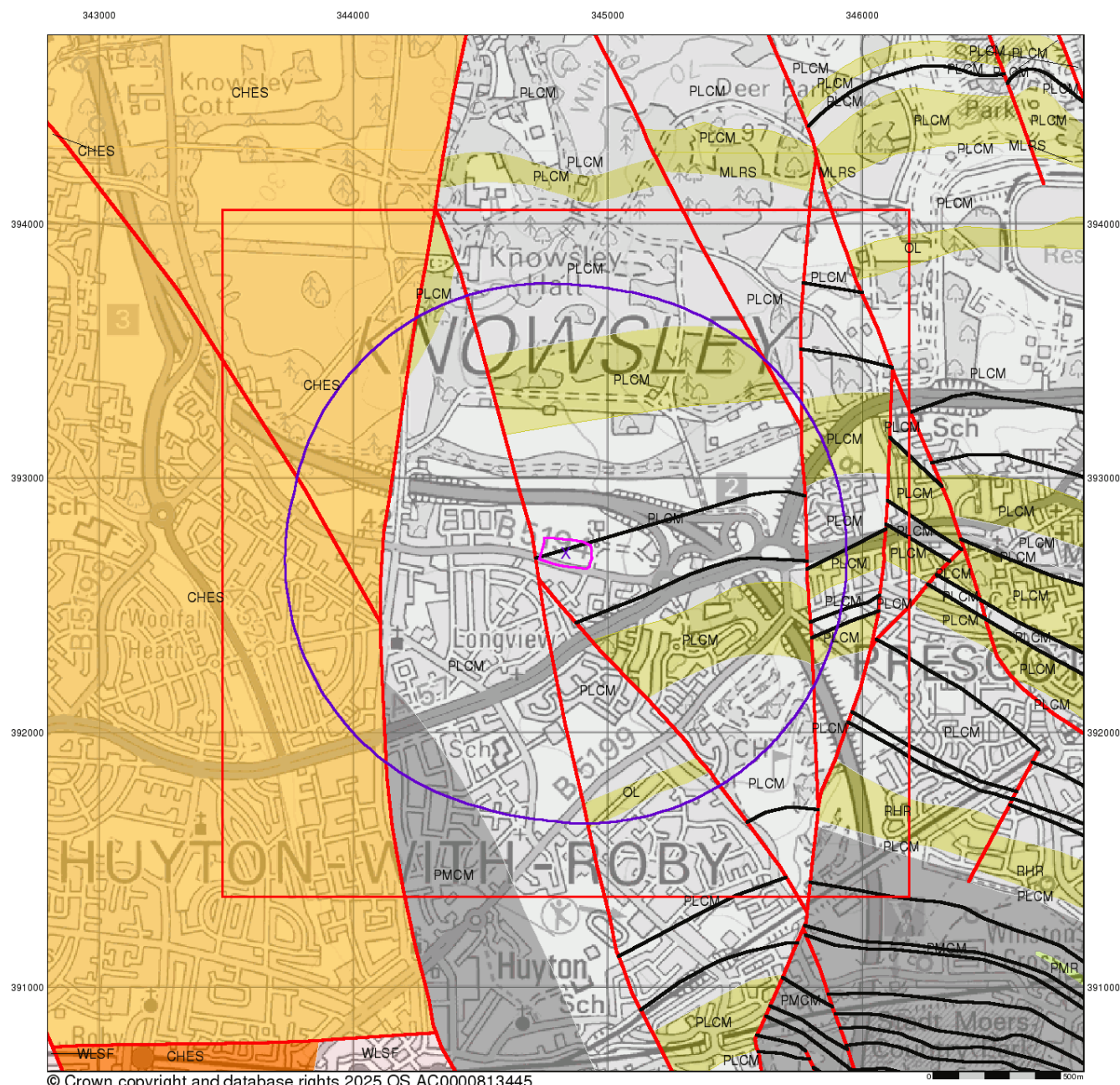
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Page 4 of 5



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Combined Surface Geology

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

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

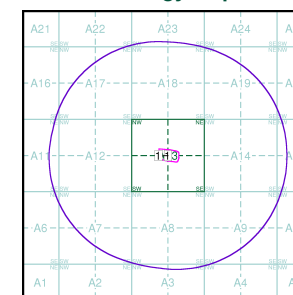
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 379206808_1_1
Customer Reference: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details:

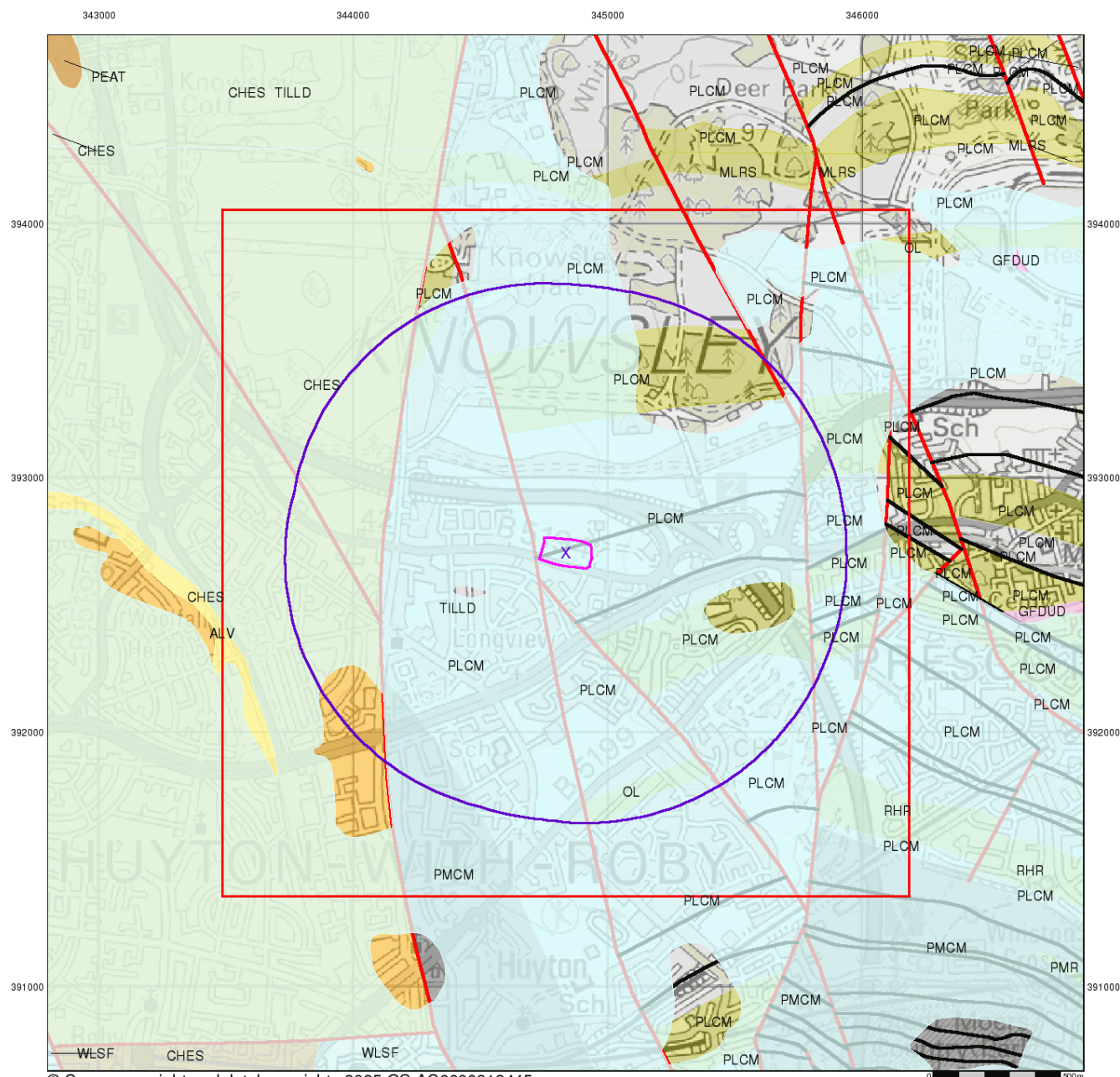
Knowsley Lane, Liverpool, L36 8HN

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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

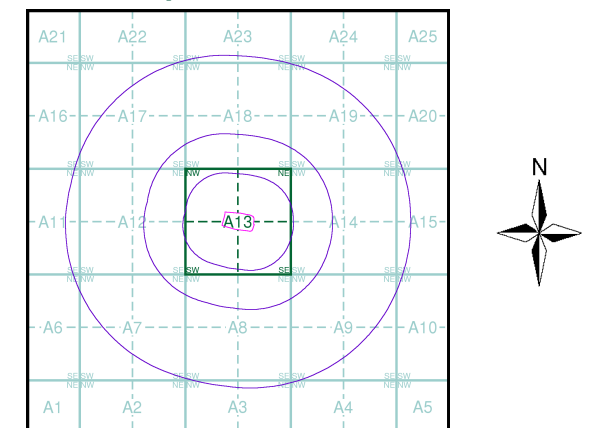
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1908 - 1909	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Lancashire And Furness	1:10,560	1951 - 1952	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1965 - 1966	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1978	13
St Helens	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1990 - 1991	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2024	18

Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Fireproof Building

Prominent Fireproof Building

Non-fireproof Building

Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys

Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale

Hydroelectric Power Station

Radio Station, drawn to scale

Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry

Open-pit Salt Mine

Pit

Oil Deposit or Well

Oil Seepage

Tailings Pile

Fuel Storage Tanks

Natural Gas Tank

Bench Mark

Drill Hole

Burial Mound

Triangulation Point on Burial Mound

Single-track Railroad

Double-track Railroad

Small Bridge

Double-track Railroad with First Class Station

Pipe (Culvert)

Coniferous Forest

Deciduous Forest

Mixed Forest

Lawns

Citrus Orchard

Wet Ground

Scattered Vegetation

243.8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0.2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings

Military and Industrial Buildings

Military and Communication Areas

Subway Entrance

Partly Demolished Buildings

Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant

Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building

Prominent Industrial Building

Individual Dwelling, Fireproof

Ruins of an Individual Dwelling

Factory or Mill Chimney

Factory or Mill with Chimney

Factory or Mill without Chimney

Mine or Open Pit Mine

Operating Shaft or Mine

Non-Operating Shaft or Mine

Salt Mine

Tailings Pile

Pit

Stone Quarry

Gas Pump or Service Station

Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick

Small Hydroelectric Power Station

Power Station

Transformer Station

Cemetery

Burial Mound (height in metres)

Triangulation Point on Burial Mound

Triangulation Point

Bench Mark

Bench Mark (monumented)

Telegraph Office

Telephone Station

Radio Station

Radio Tower

Airfield or Seaplane Base

Landing Strip

Cut, Fill, Km Post, Plantings

Telegraph/Telephone Lines

Main Highway

Highway under Construction

Improved Dirt Road (former truck road)

Small Bridge, Pipe (Culvert), Tunnel

Double-track Railroad with First Class Station

Dismantled Railroad

Railroad Under Construction

Shore Embankment

River or Ditch with Embankment

Direction and velocity of current

Water Gauge

Water Level Mark

Well

Water Reservoir or Rain Water Pit

Spring

Isobath with value

Heavy (Index) Contour Line

Contour Line and Value

Half Contour Line

Spot Elevation Value

Coniferous

Deciduous

Mixed

Scrub

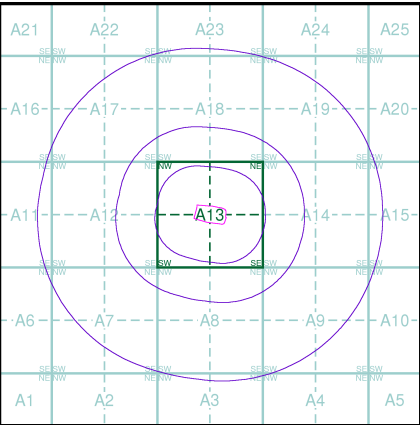
Key to Numbers on Mapping

Curtins

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1850	3
Lancashire And Furness	1:10,560	1894	4
Lancashire And Furness	1:10,560	1908 - 1909	5
Lancashire And Furness	1:10,560	1928	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Lancashire And Furness	1:10,560	1951 - 1952	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1965 - 1966	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1978	13
St Helens	1:10,000	1984	14
Ordnance Survey Plan	1:10,000	1990 - 1991	15
10K Raster Mapping	1:10,000	1999	16
10K Raster Mapping	1:10,000	2006	17
VectorMap Local	1:10,000	2024	18

Russian Map - Slice A



Order Details

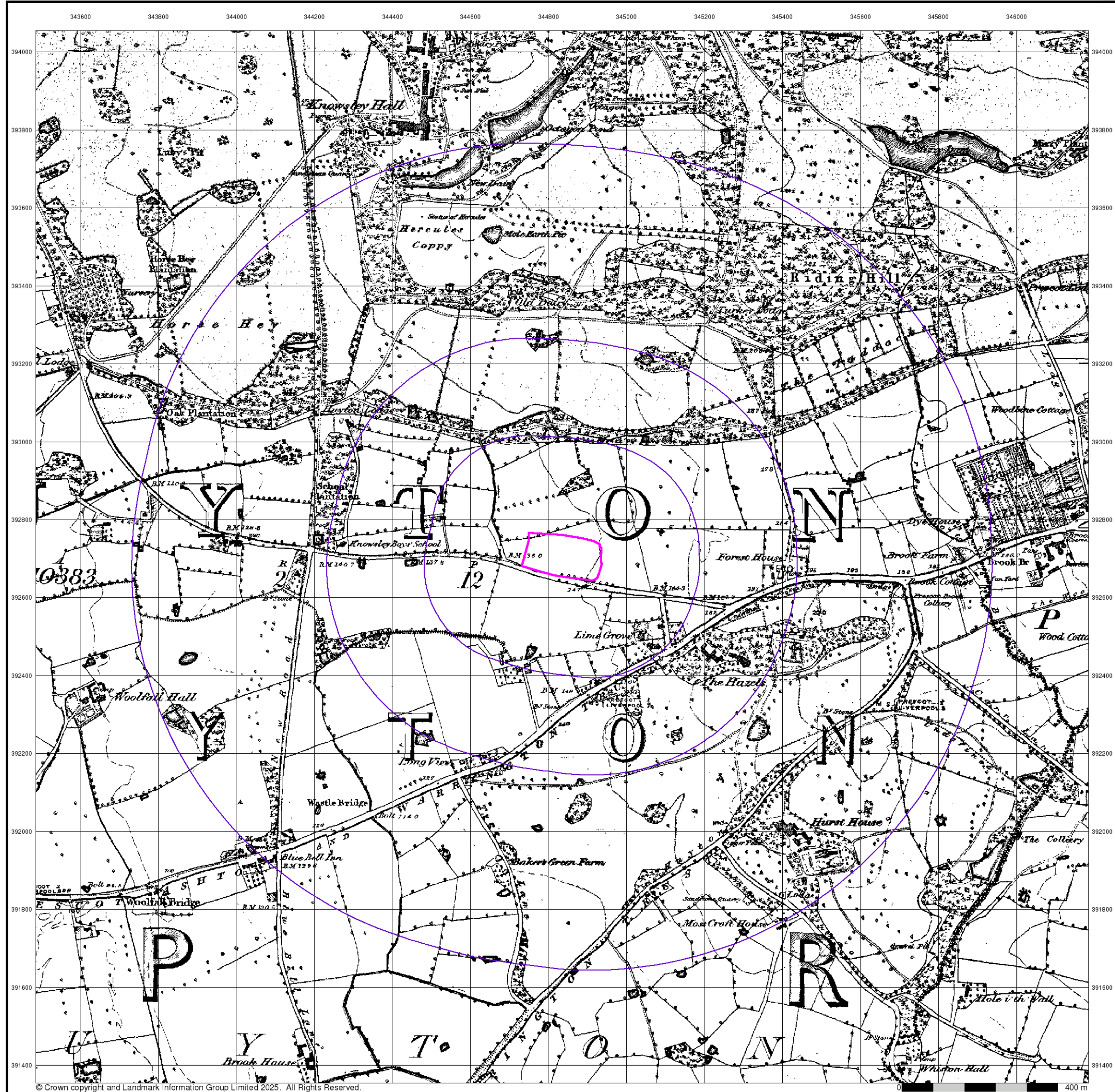
Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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



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Curtins

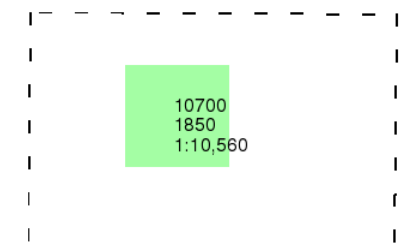
Lancashire And Furness

Published 1850

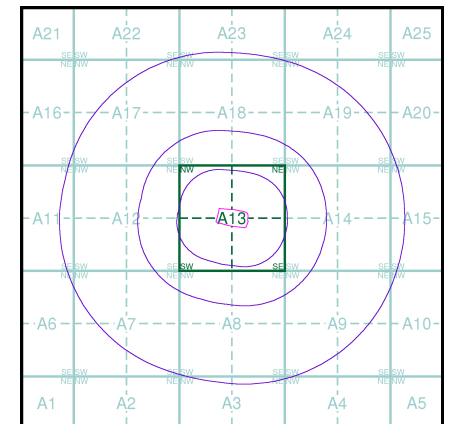
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
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Curtins

Lancashire And Furness

Published 1894

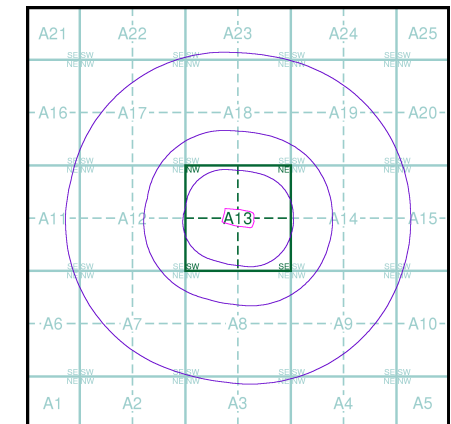
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

107NW 1894 1:10,560	107NE 1894 1:10,560
107SW 1894 1:10,560	107SE 1894 1:10,560

Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
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Site Details

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INFORMATION GROUP

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

Curtins

Lancashire And Furness

Published 1928

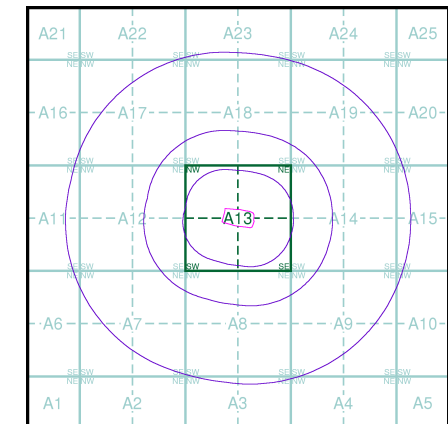
Source map scale - 1:10,560

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)

107NW 1928 1:10,560	107NE 1928 1:10,560
107SW 1928 1:10,560	107SE 1928 1:10,560

Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

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Web: www.envirocheck.co.uk

Curtins

Lancashire And Furness

Published 1928

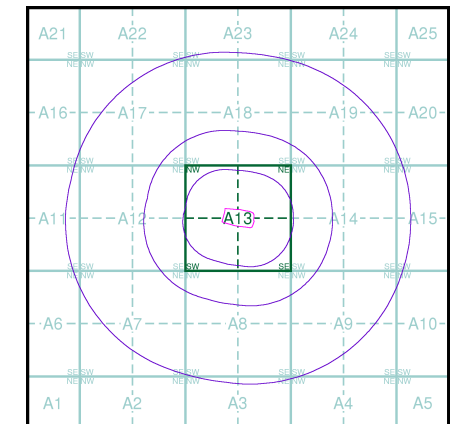
Source map scale - 1:10,560

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)

107NW 1928 1:10,560	107NE 1928 1:10,560
107SW 1928 1:10,560	

Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

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INFORMATION GROUP

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Curtins

Lancashire And Furness

Published 1938

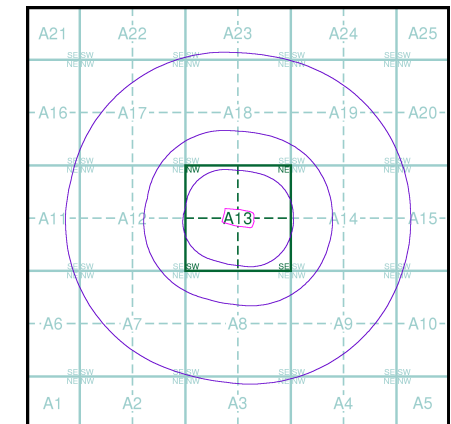
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

107NW 1938 1:10,560	107NE 1938 1:10,560
107SW 1938 1:10,560	107SE 1938 1:10,560

Historical Map - Slice A



Order Details

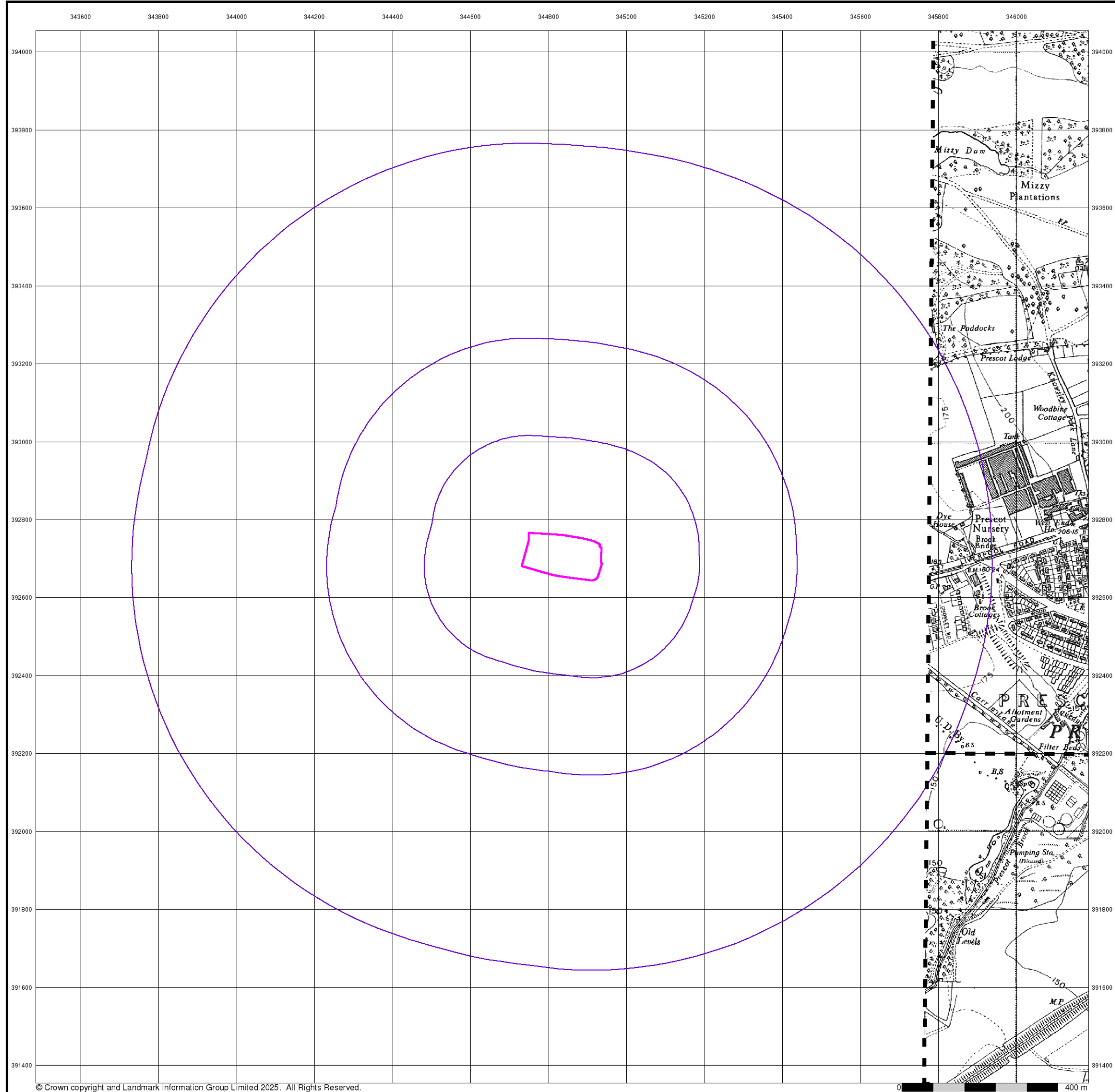
Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

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Curtins

Lancashire And Furness

Published 1951 - 1952

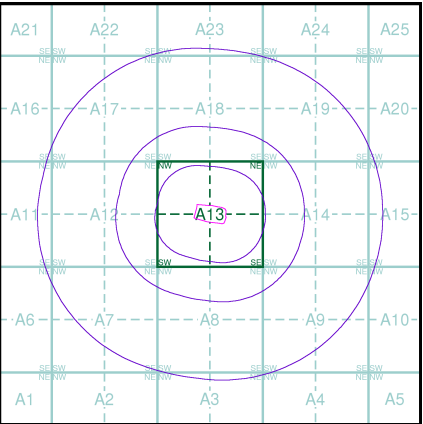
Source map scale - 1:10,560

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)

107NE 1952 1:10,560
107SE 1951 1:10,560

Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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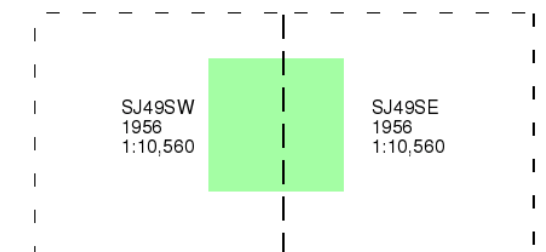
Ordnance Survey Plan

Published 1956

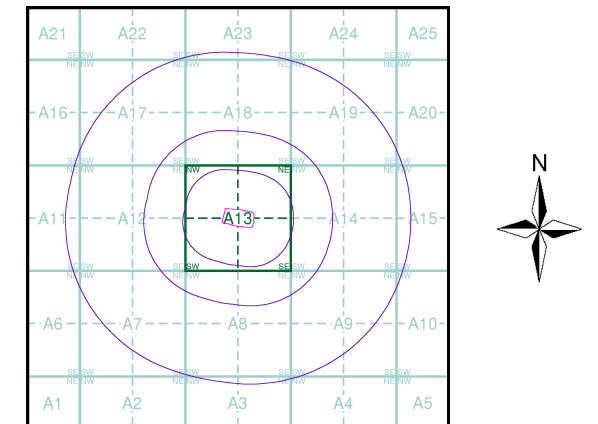
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

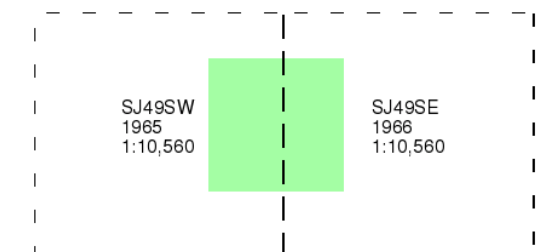
Ordnance Survey Plan

Published 1965 - 1966

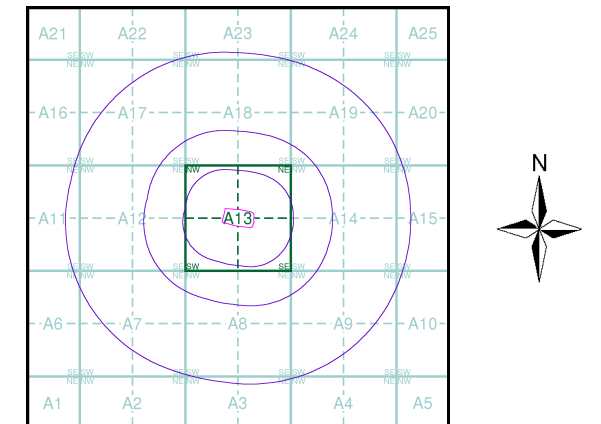
Source map scale - 1:10,000

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: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Curtins

Liverpool

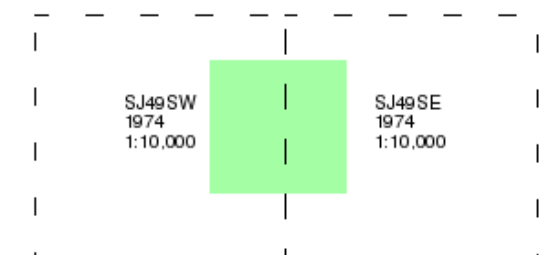
Published 1974

Source map scale - 1:10,000

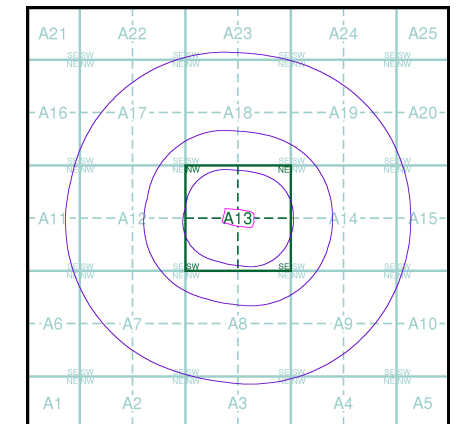
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use.

They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)



Russian Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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

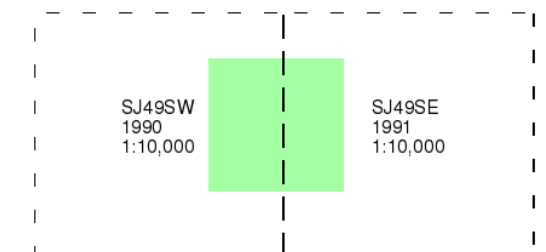
Ordnance Survey Plan

Published 1990 - 1991

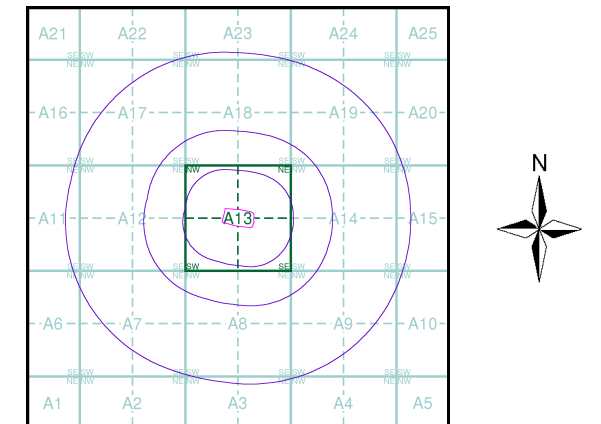
Source map scale - 1:10,000

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: 379206808_1_1
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National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

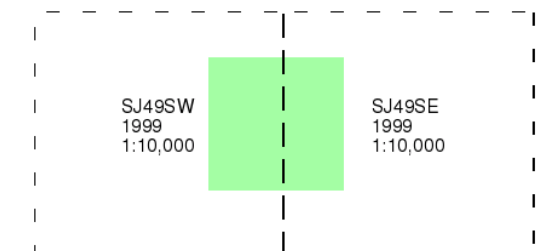
10k Raster Mapping

Published 1999

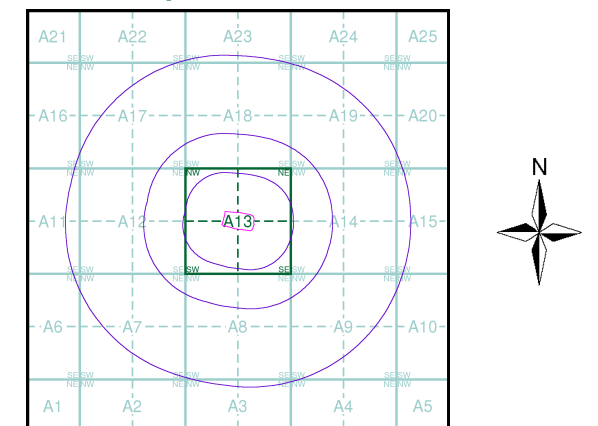
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

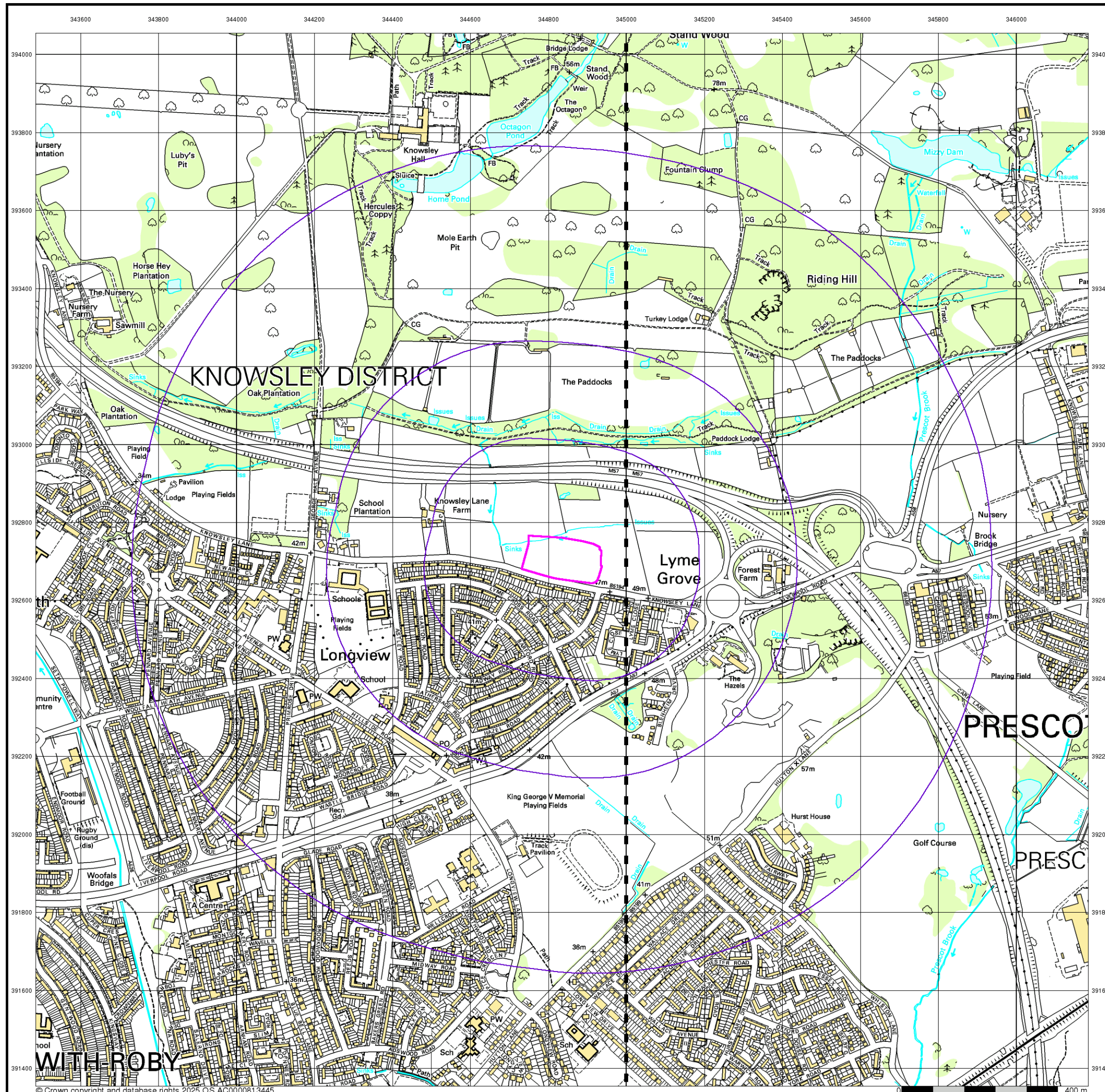


Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



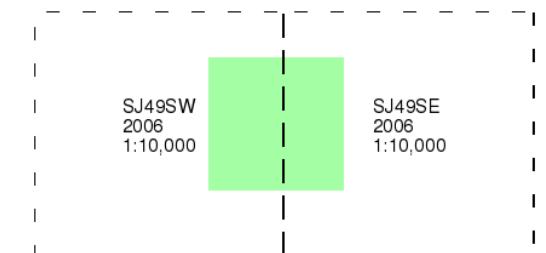
10k Raster Mapping

Published 2006

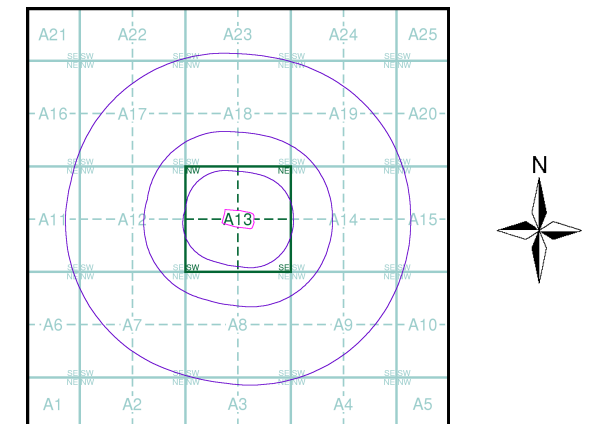
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A

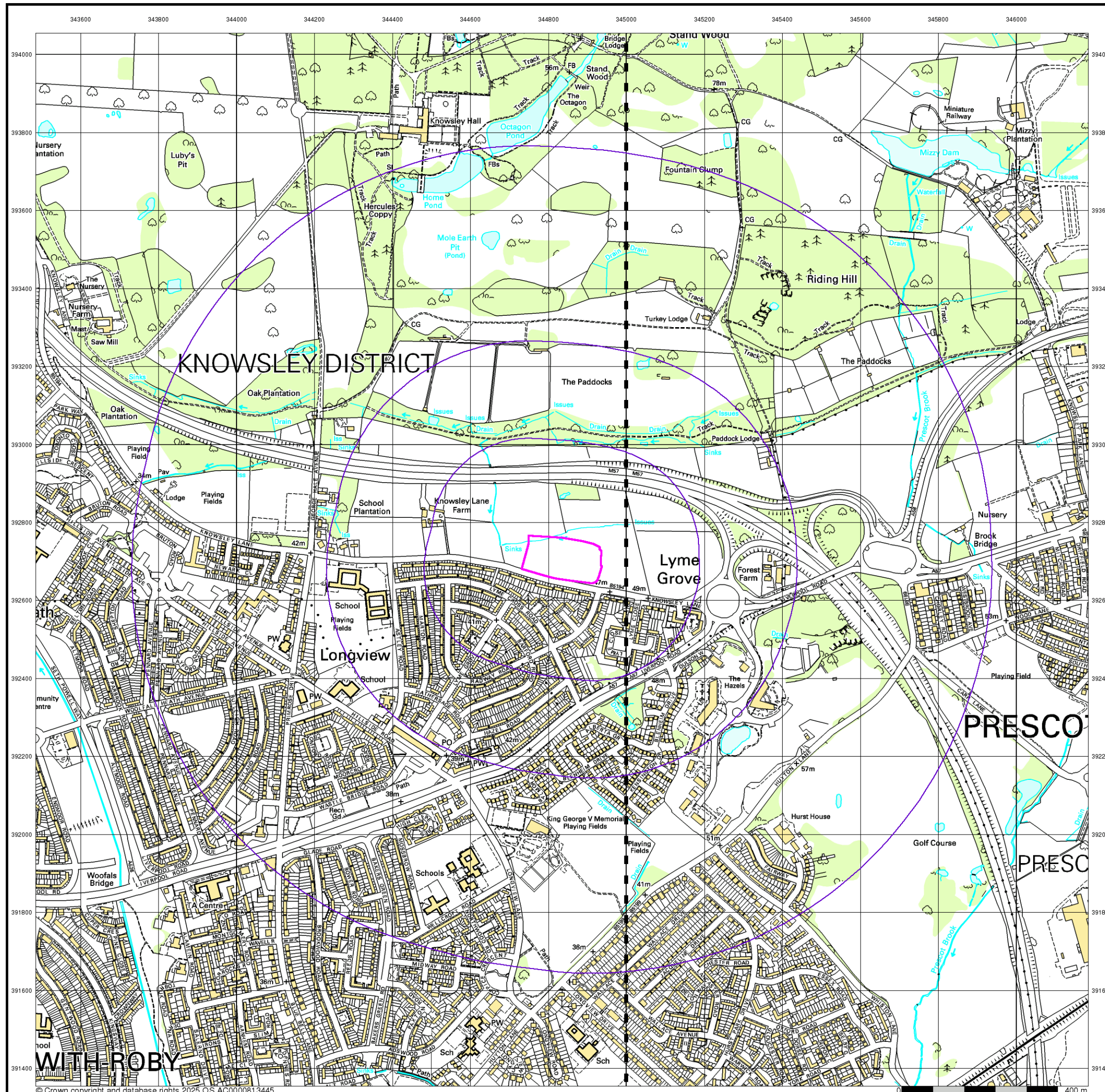


Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



Curtins

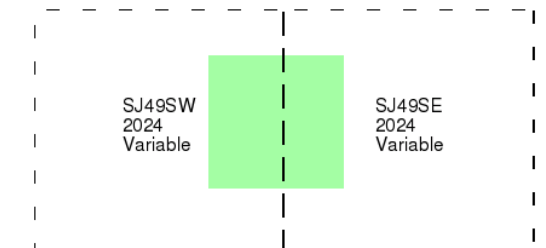
VectorMap Local

Published 2024

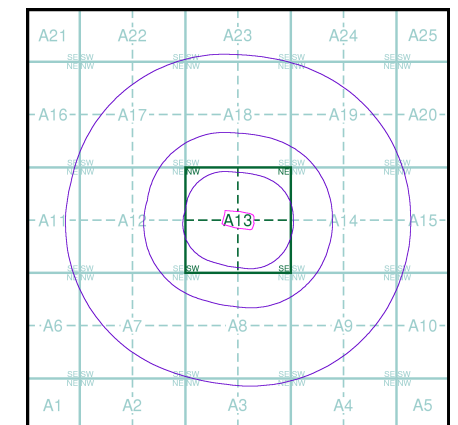
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

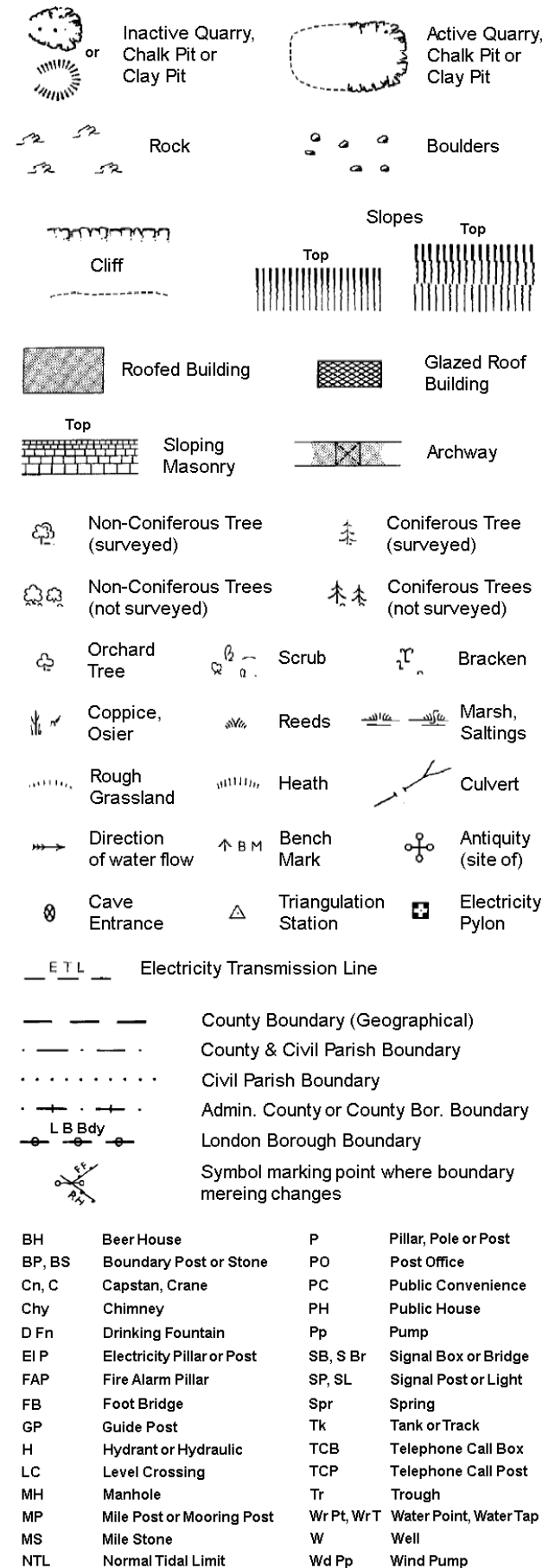
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Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Historical Mapping Legends

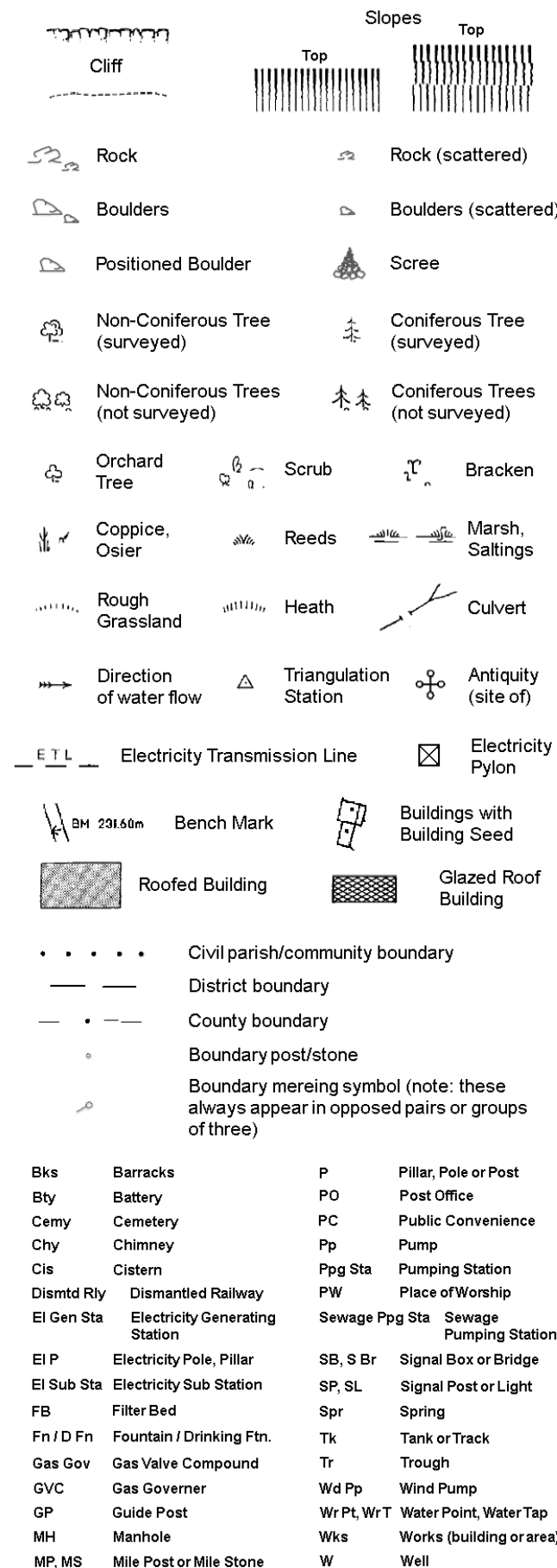
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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

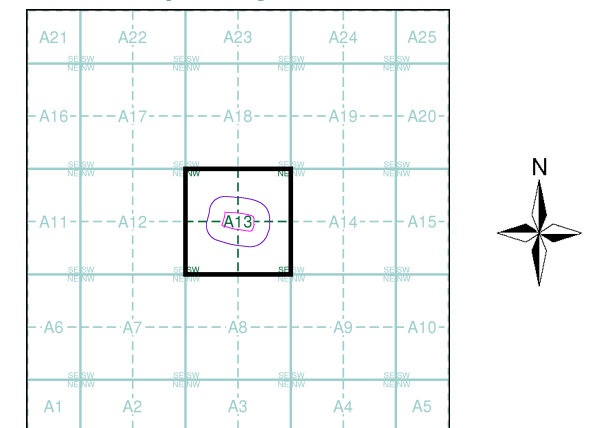


Curtins

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	1927	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1951 - 1955	6
Ordnance Survey Plan	1:2,500	1952 - 1961	7
Additional SIMs	1:2,500	1961 - 1984	8
Ordnance Survey Plan	1:1,250	1963 - 1976	9
Ordnance Survey Plan	1:1,250	1975	10
Additional SIMs	1:1,250	1983 - 1985	11
Additional SIMs	1:1,250	1983	12
Additional SIMs	1:2,500	1987	13
Large-Scale National Grid Data	1:1,250	1993	14
Large-Scale National Grid Data	1:2,500	1993	15
Large-Scale National Grid Data	1:1,250	1993 - 1995	16
Large-Scale National Grid Data	1:1,250	1995	17
Large-Scale National Grid Data	1:1,250	1996	18
Historical Aerial Photography	1:2,500	2000	19

Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

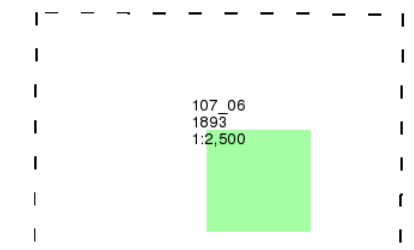
Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

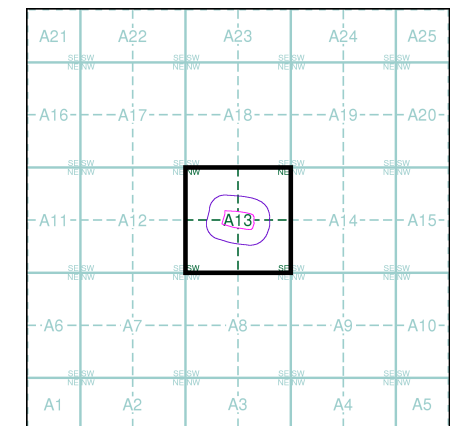
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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

Map Name(s) and Date(s)



Historical Map - Segment A13

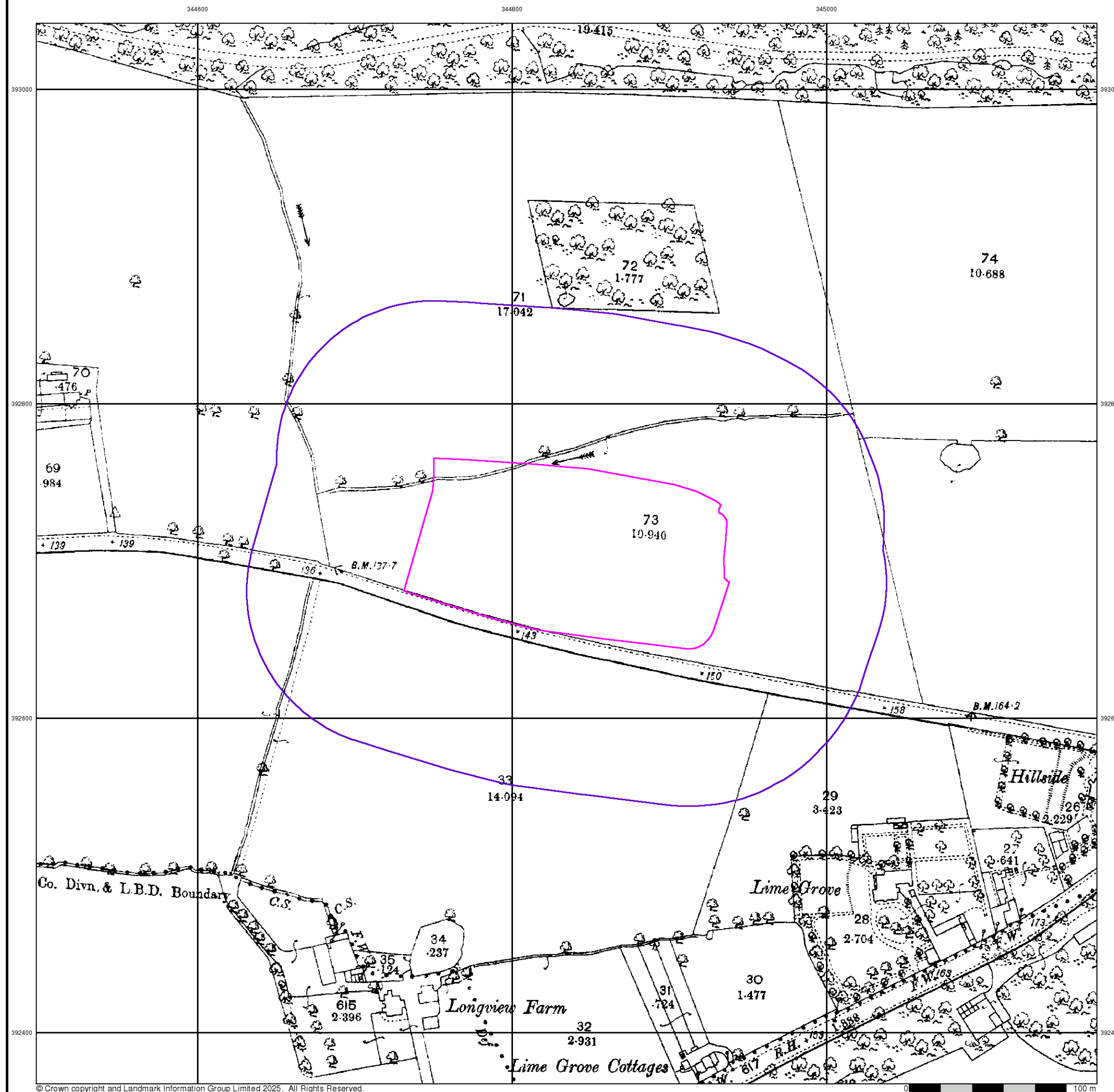


Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

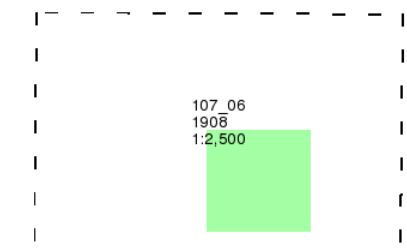
Site Details

Knowsley Lane, Liverpool, L36 8HN

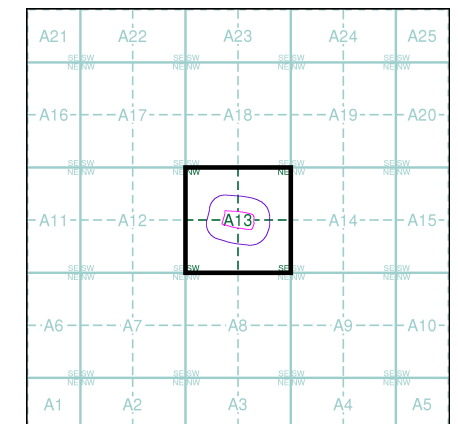


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A13

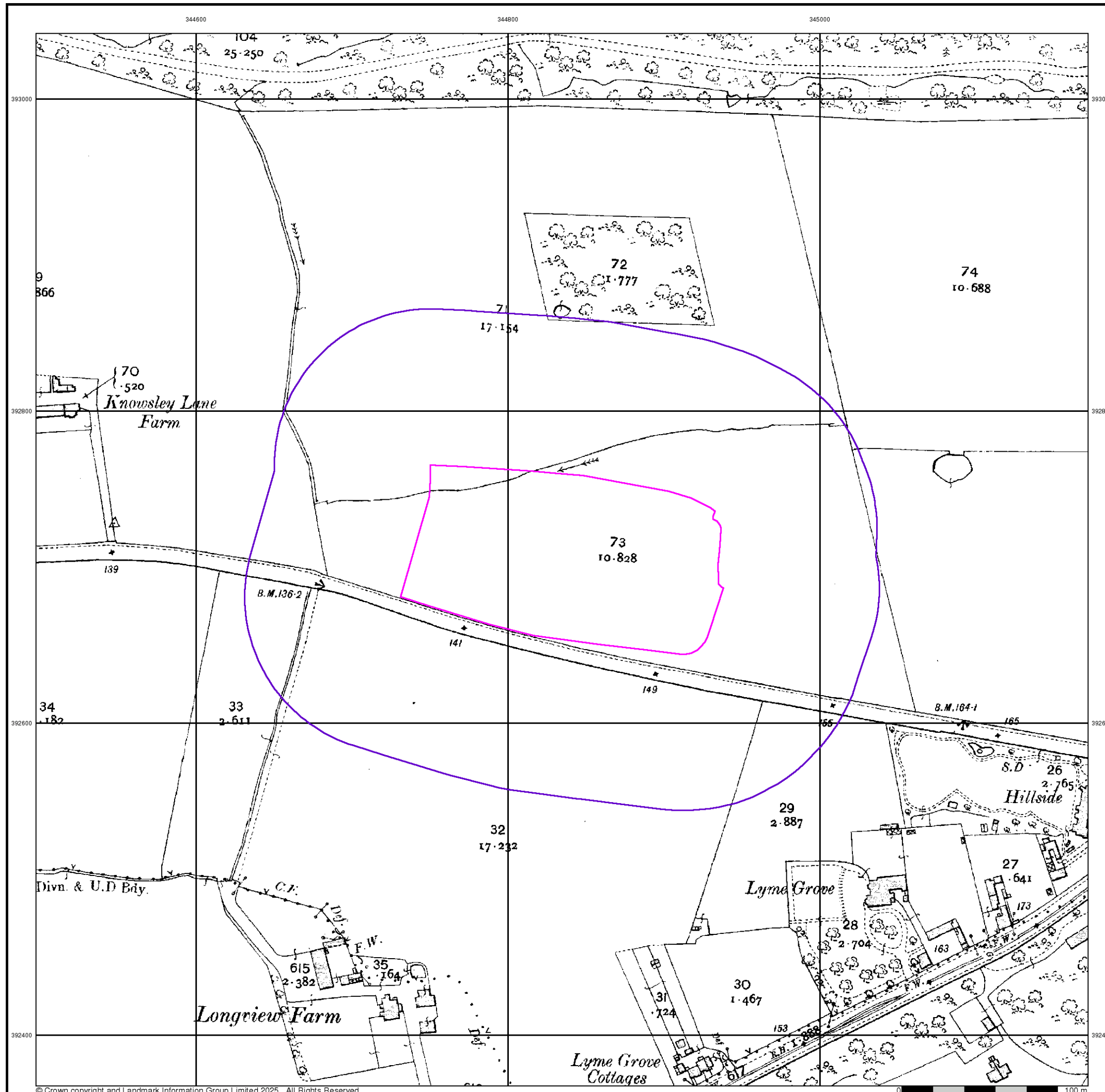


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Slice: A
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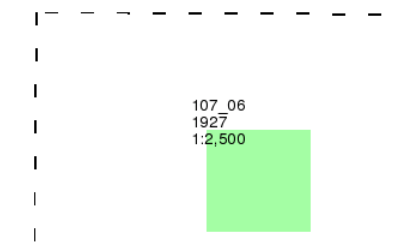
Site Details

Knowsley Lane, Liverpool, L36 8HN

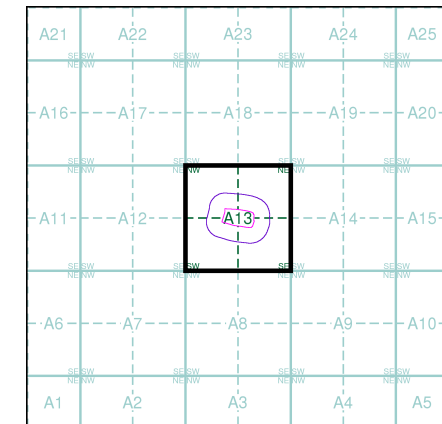


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A13

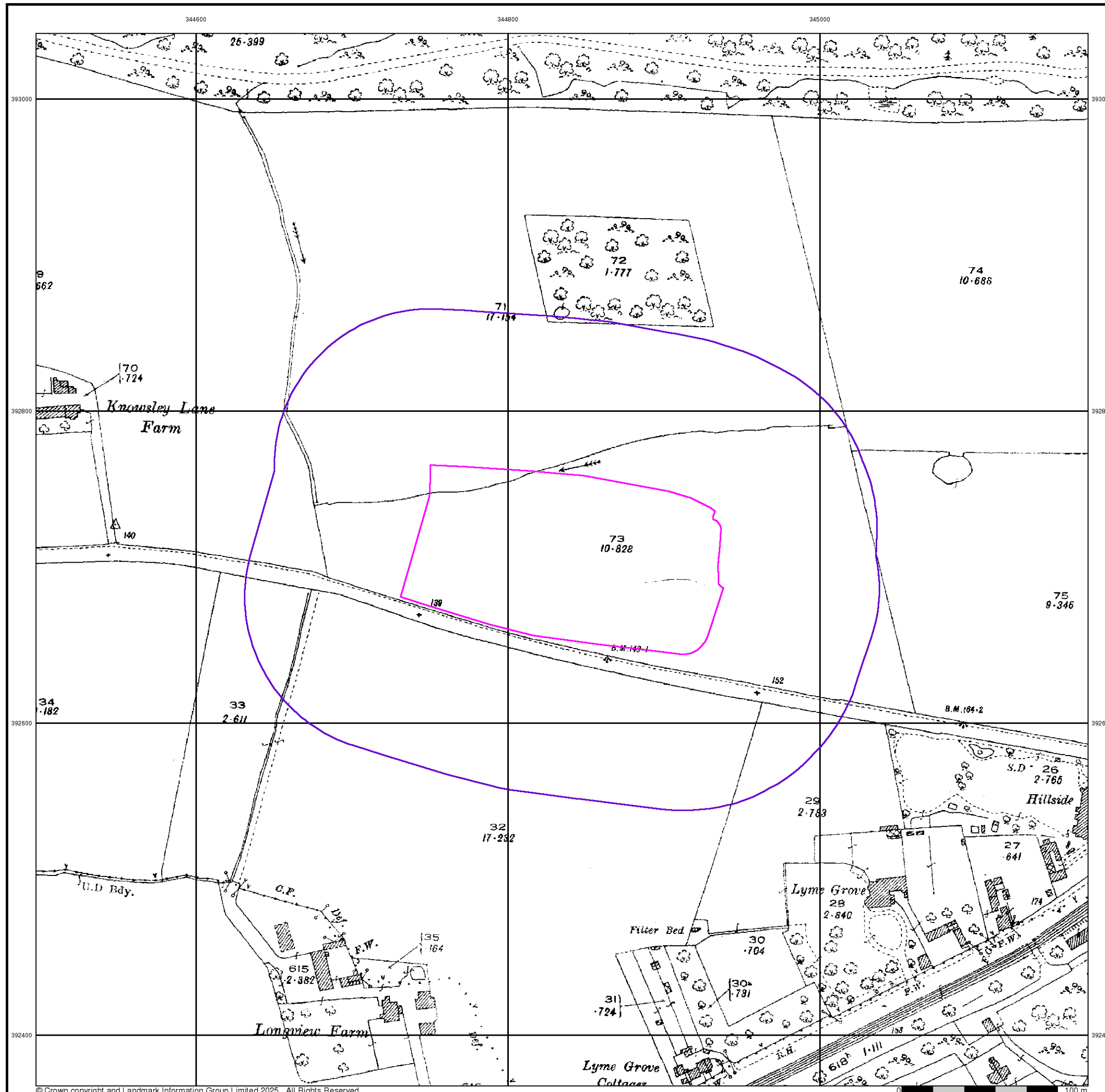


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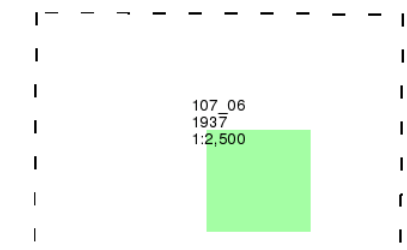
Site Details

Knowsley Lane, Liverpool, L36 8HN

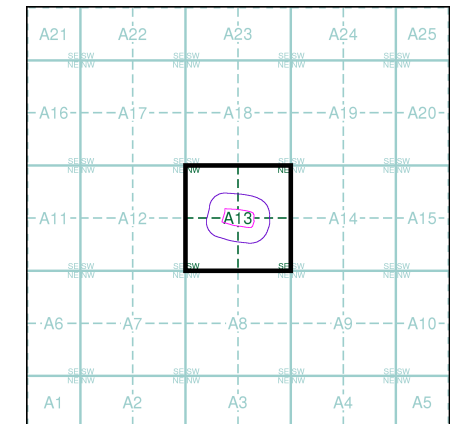


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Map Name(s) and Date(s)



Historical Map - Segment A13

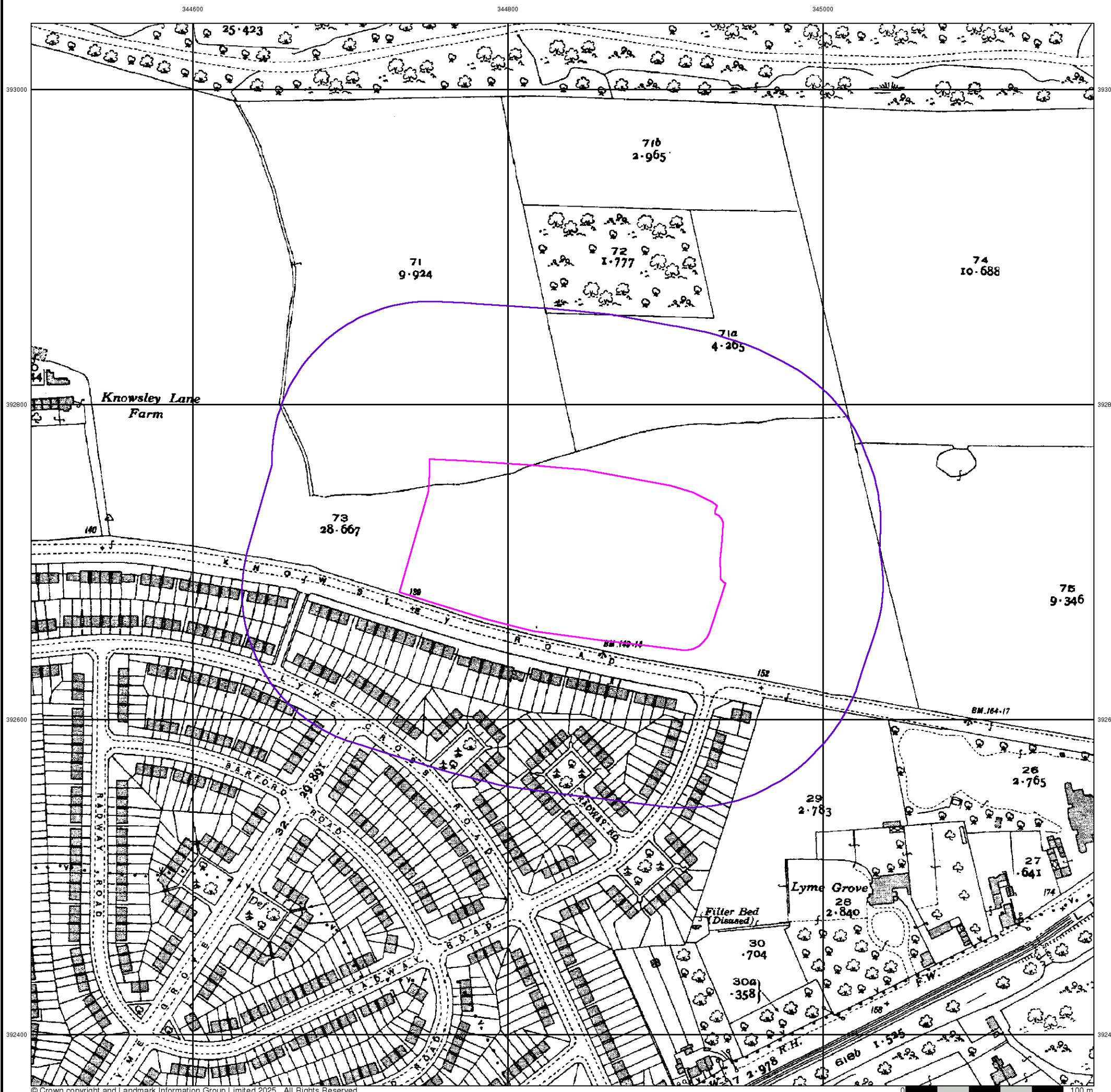


Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN



Ordnance Survey Plan

Published 1951 - 1955

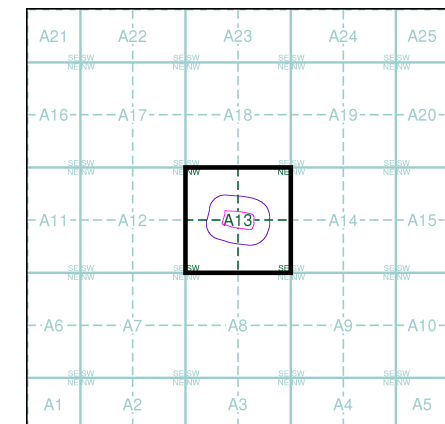
Source map scale - 1:1,250

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)

SJ4492NW 1951 1:1,250	SJ4492NE 1951 1:1,250	SJ4592NW 1955 1:1,250
SJ4492SW 1951 1:1,250	SJ4492SE 1951 1:1,250	SJ4592SW 1955 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

Ordnance Survey Plan

Published 1952 - 1961

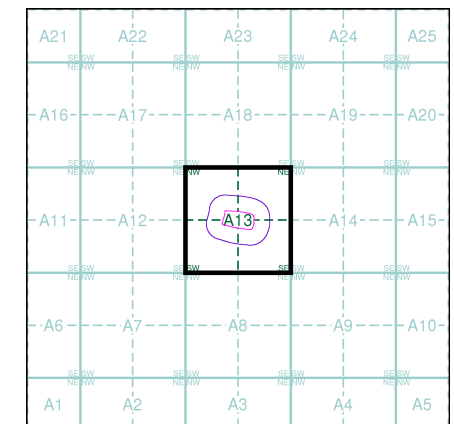
Source map scale - 1:2,500

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)

SJ4493 1961 12,500	SJ4593 1961 12,500
SJ4492 1952 12,500	SJ4592 1955 12,500

Historical Map - Segment A13

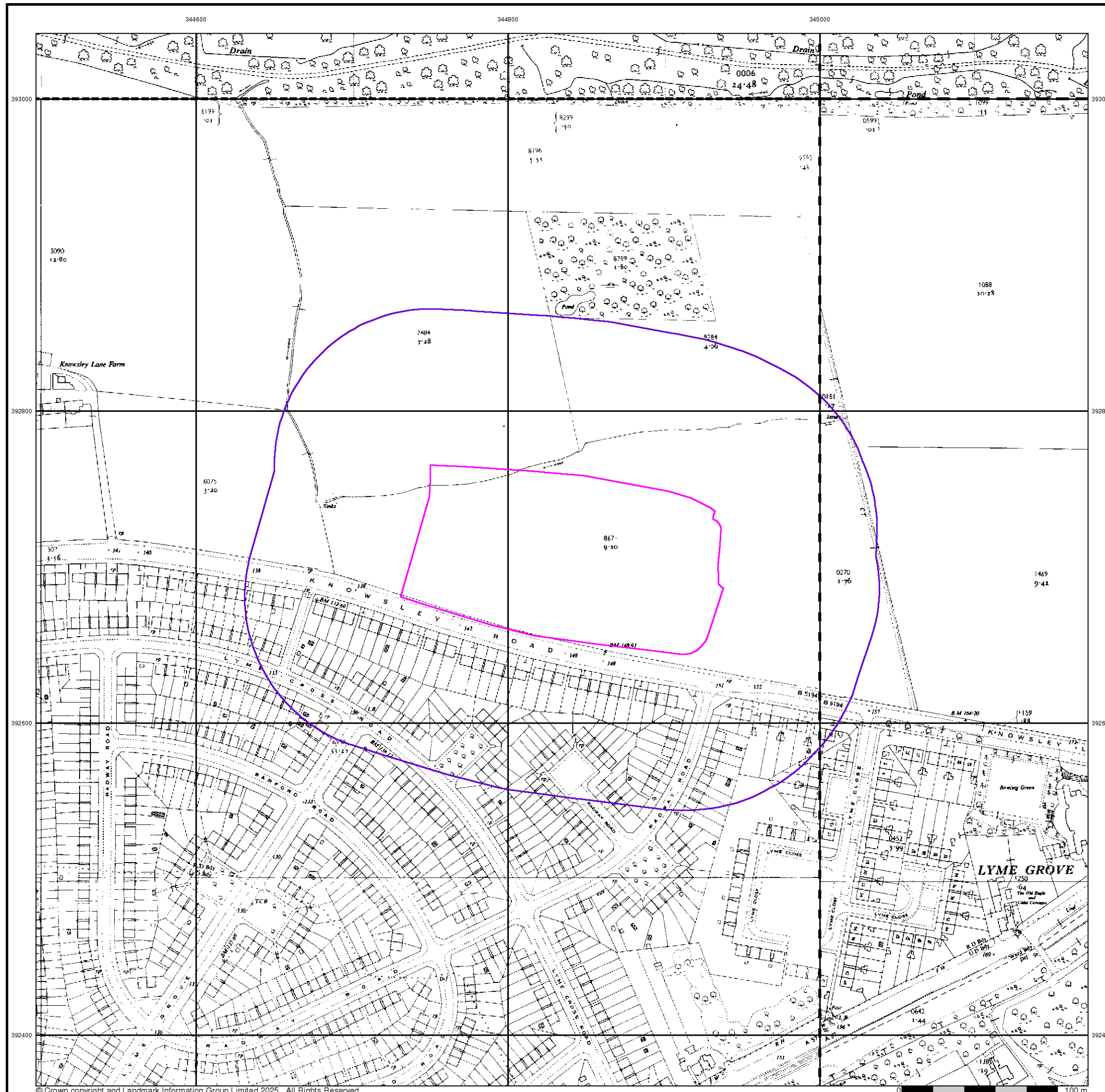


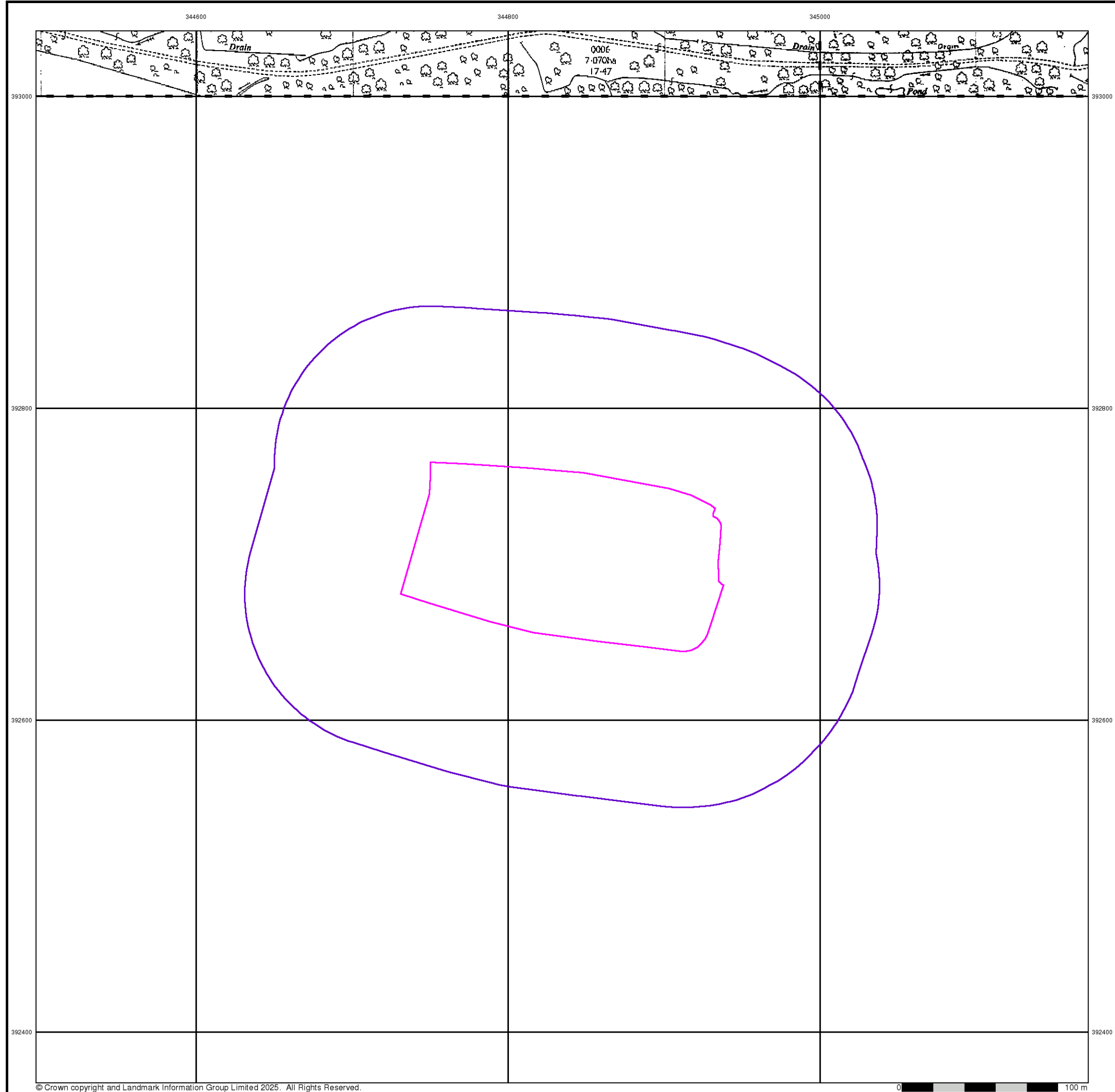
Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN





Curtins

Additional SIMs

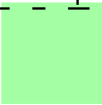
Published 1961 - 1984

Source map scale - 1:2,500

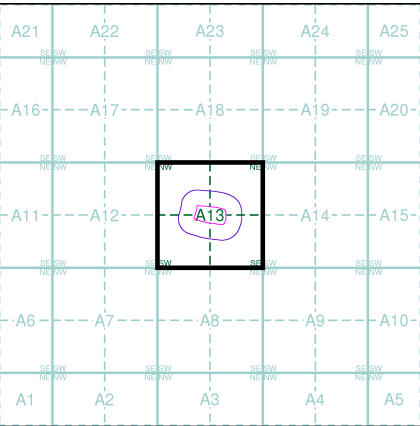
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ4493 1961 1:2,500	SJ4593 1984 1:2,500
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Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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Ordnance Survey Plan

Published 1963 - 1976

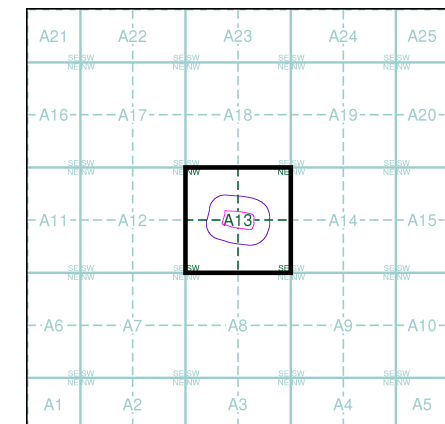
Source map scale - 1:1,250

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)

SJ4492NW 1963 1:1,250	SJ4492NE 1975 1:1,250	SJ4592NW 1976 1:1,250
SJ4492SW 1966 1:1,250	SJ4492SE 1968 1:1,250	SJ4592SW 1973 1:1,250

Historical Map - Segment A13

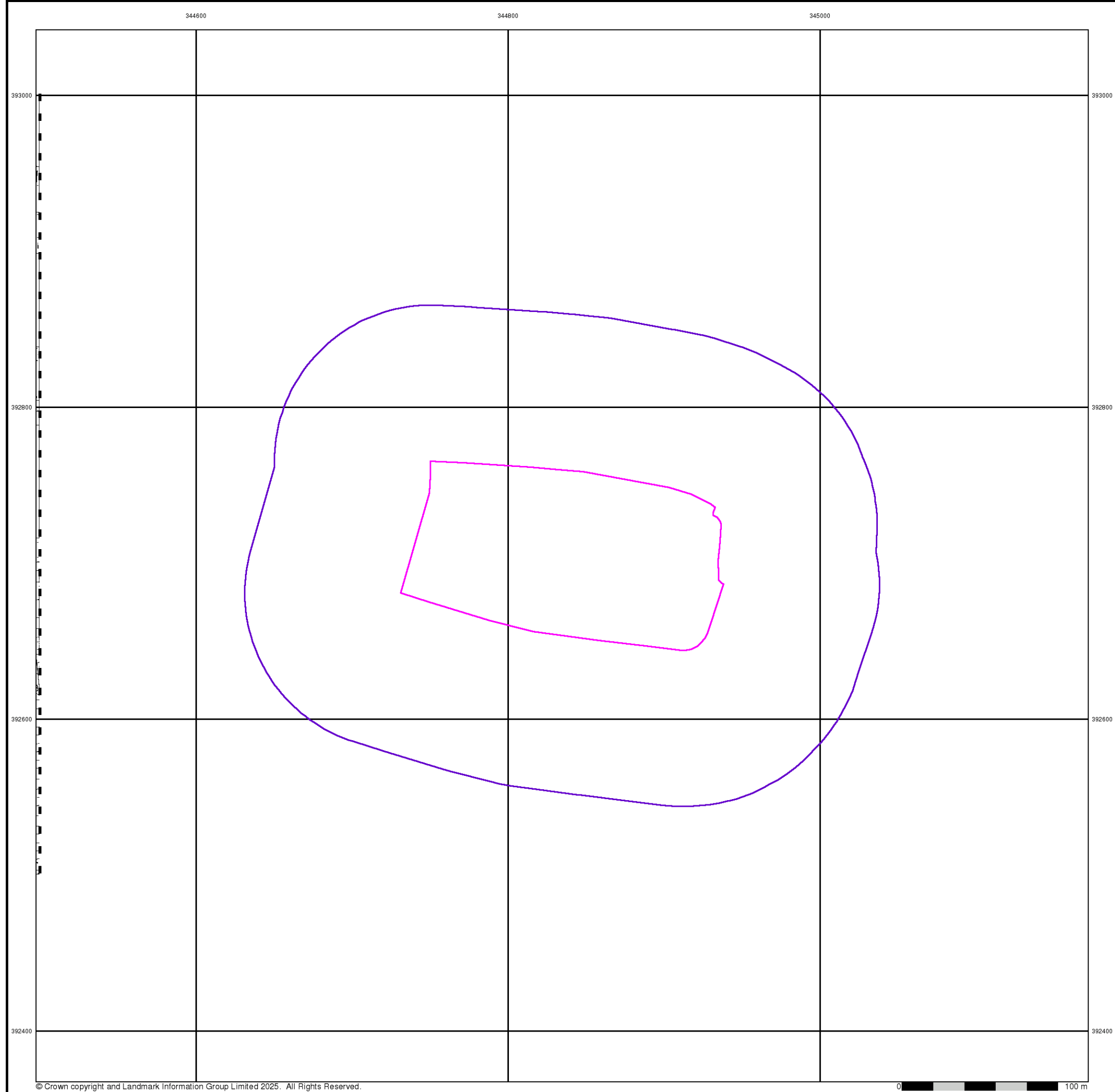


Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN



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0 100 m

Curtins

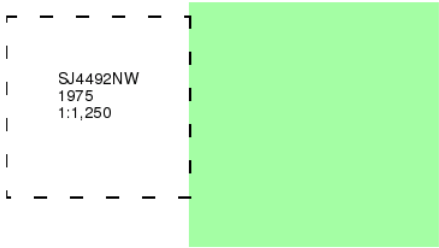
Ordnance Survey Plan

Published 1975

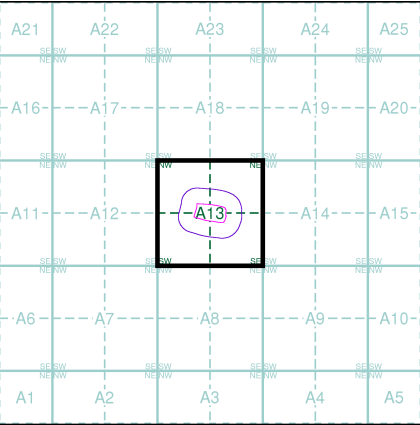
Source map scale - 1:1,250

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)



Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
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National Grid Reference: 344840, 392710
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Site Area (Ha): 1.94
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Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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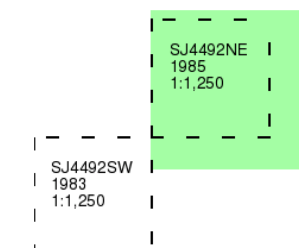
Additional SIMs

Published 1983 - 1985

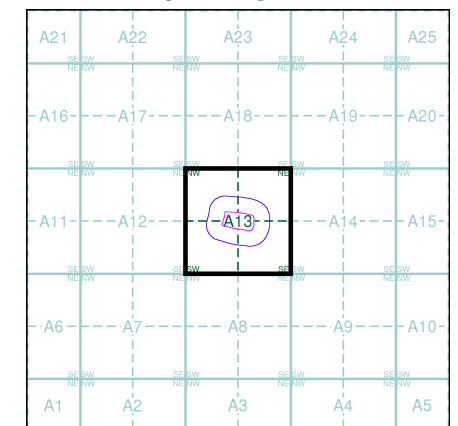
Source map scale - 1:1,250

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 A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

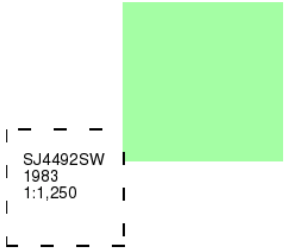
Additional SIMs

Published 1983

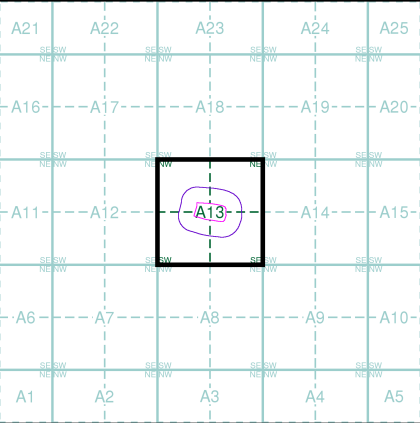
Source map scale - 1:1,250

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 A13

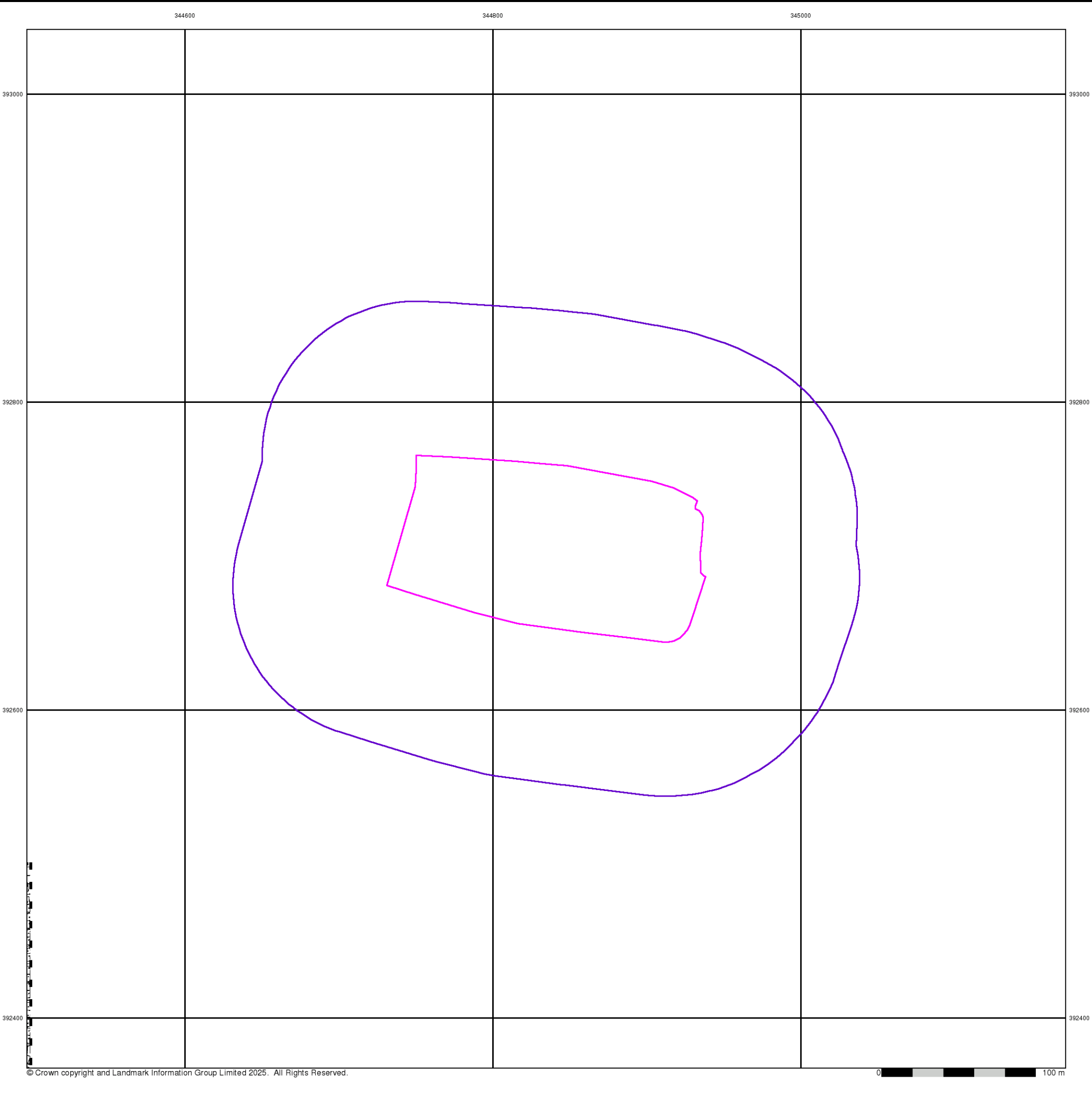


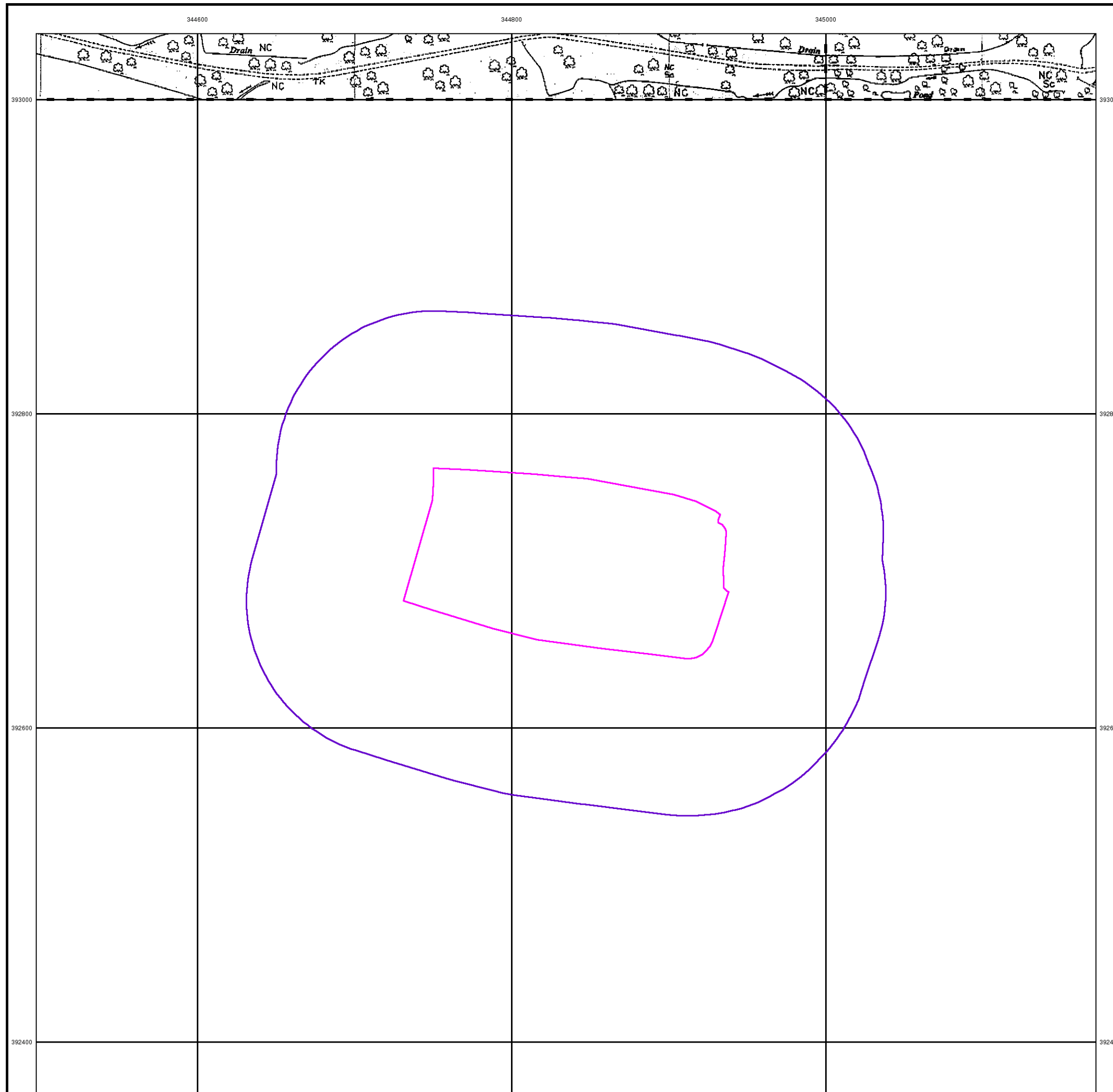
Order Details

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Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN





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0 100 m

Curtins

Additional SIMs

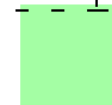
Published 1987

Source map scale - 1:2,500

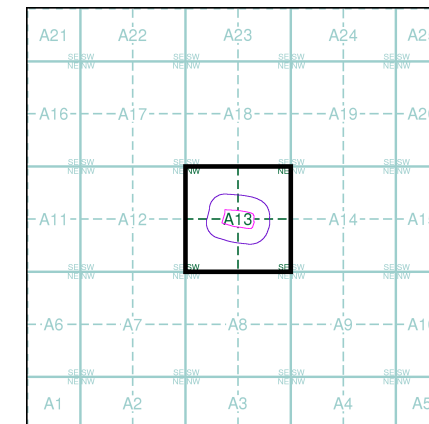
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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

Map Name(s) and Date(s)

SJ4493 1987 1:2,500	SJ4593 1987 1:2,500
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Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
Fax: 0844 844 9951
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Large-Scale National Grid Data

Published 1993

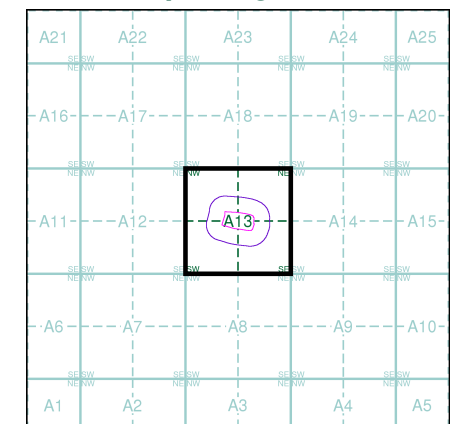
Source map scale - 1:1,250

'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)

SJ4492NW 1993 1:1,250	SJ4492NE 1993 1:1,250	SJ4592NW 1993 1:1,250
	SJ4492SE 1993 1:1,250	SJ4592SW 1993 1:1,250

Historical Map - Segment A13

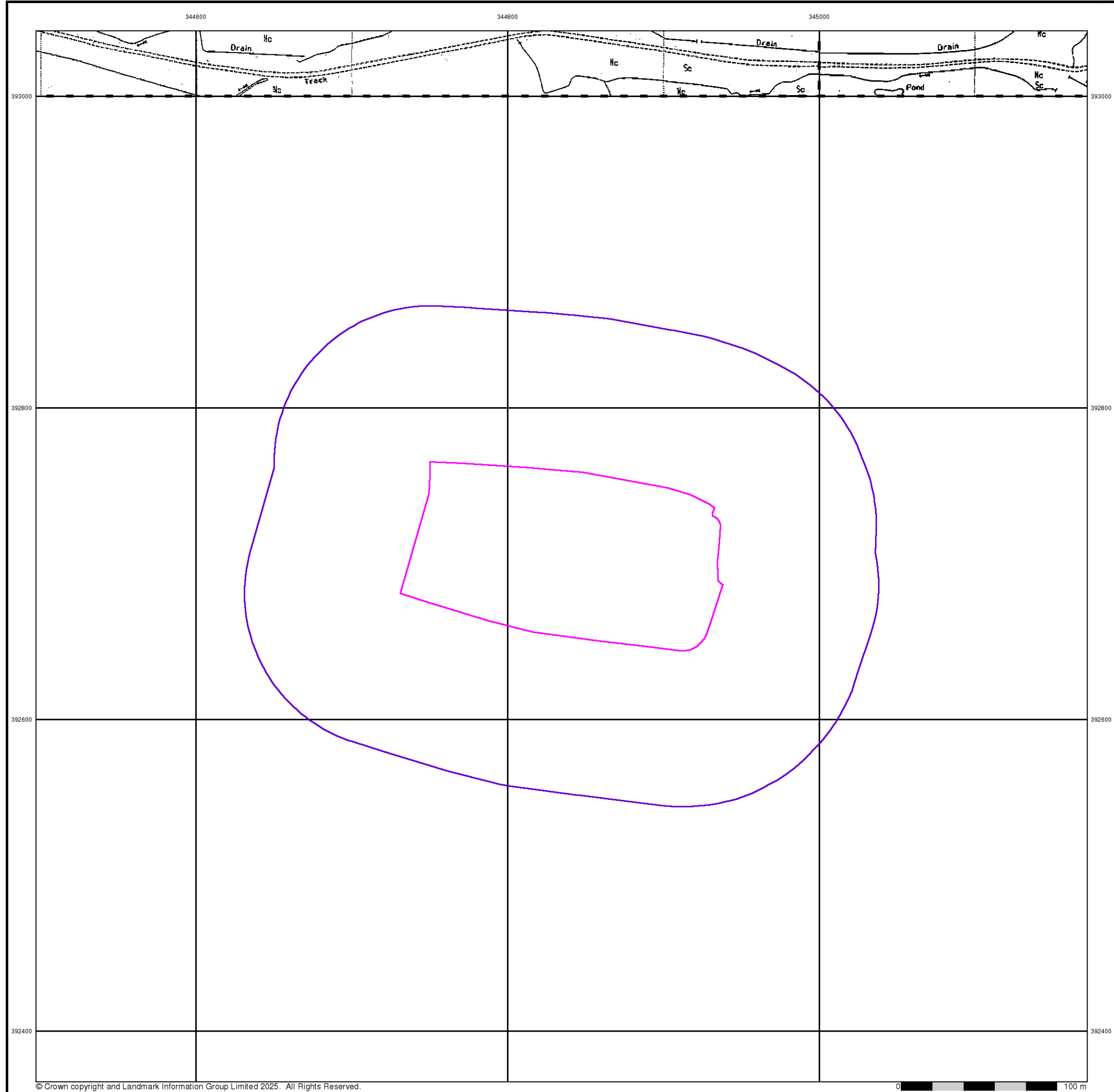


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Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN



Curtins

Large-Scale National Grid Data

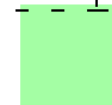
Published 1993

Source map scale - 1:2,500

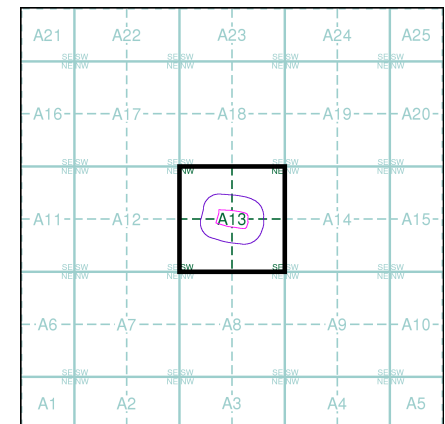
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

SJ4493 1993 1:2,500	SJ4593 1993 1:2,500
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Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
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Site Details

Knowsley Lane, Liverpool, L36 8HN

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Tel: 0844 844 9952
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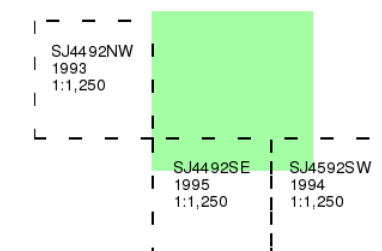
Large-Scale National Grid Data

Published 1993 - 1995

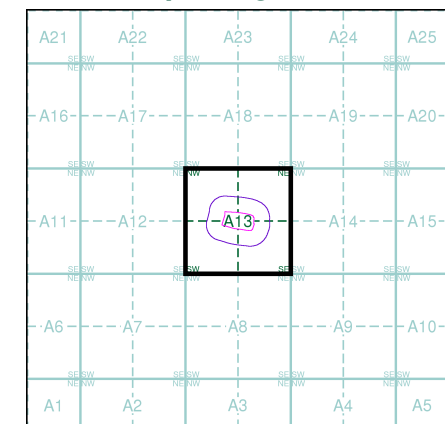
Source map scale - 1:1,250

'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)



Historical Map - Segment A13

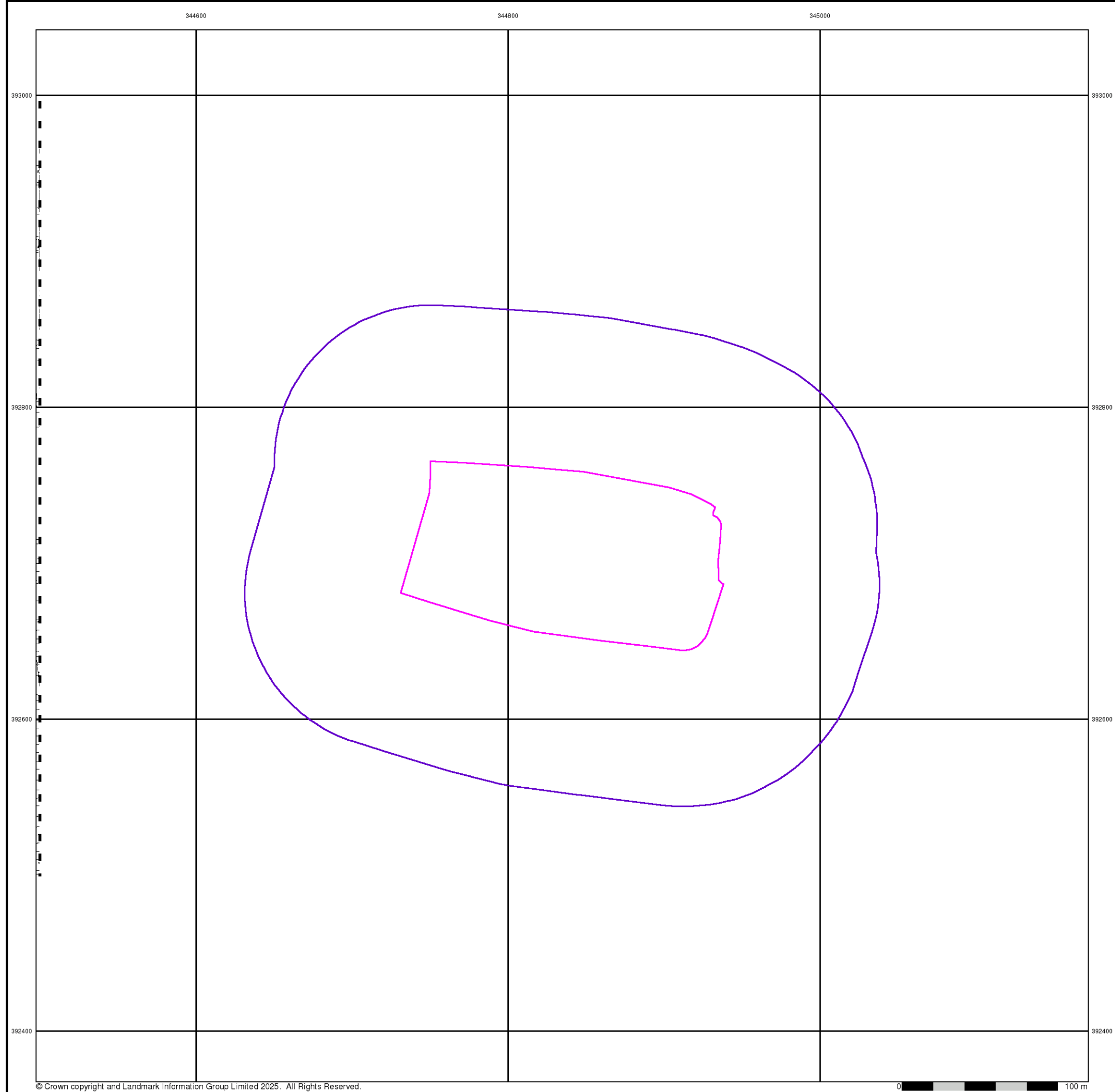


Order Details

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Customer Ref: 087955
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Site Details

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Curtins

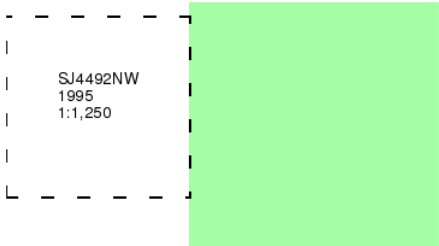
Large-Scale National Grid Data

Published 1995

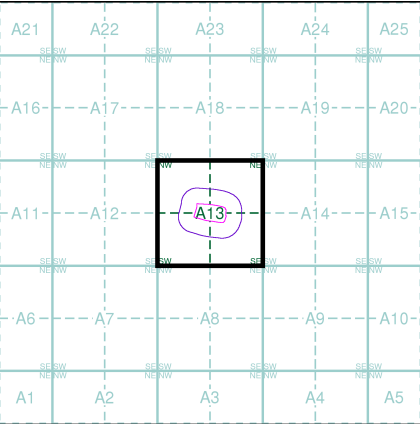
Source map scale - 1:1,250

'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)



Historical Map - Segment A13



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
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Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

Tel: 0844 844 9952
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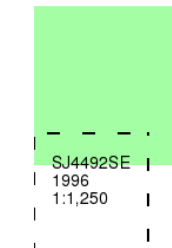
Large-Scale National Grid Data

Published 1996

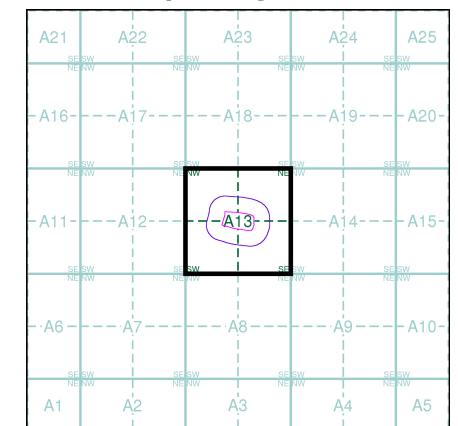
Source map scale - 1:1,250

'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.

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Search Buffer (m): 100

Site Details

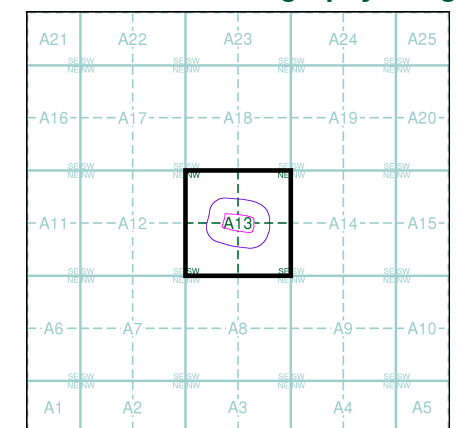
Knowsley Lane, Liverpool, L36 8HN

Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



Order Details

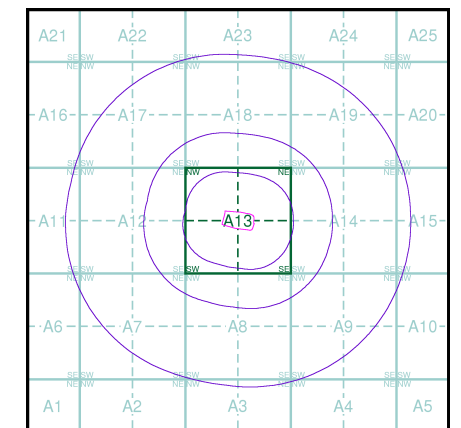
Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Historical Prosecutions
 - Prosecutions
 - Registered Radioactive Substance
 - River Network or Water Feature
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**

Site Sensitivity Map - Slice A

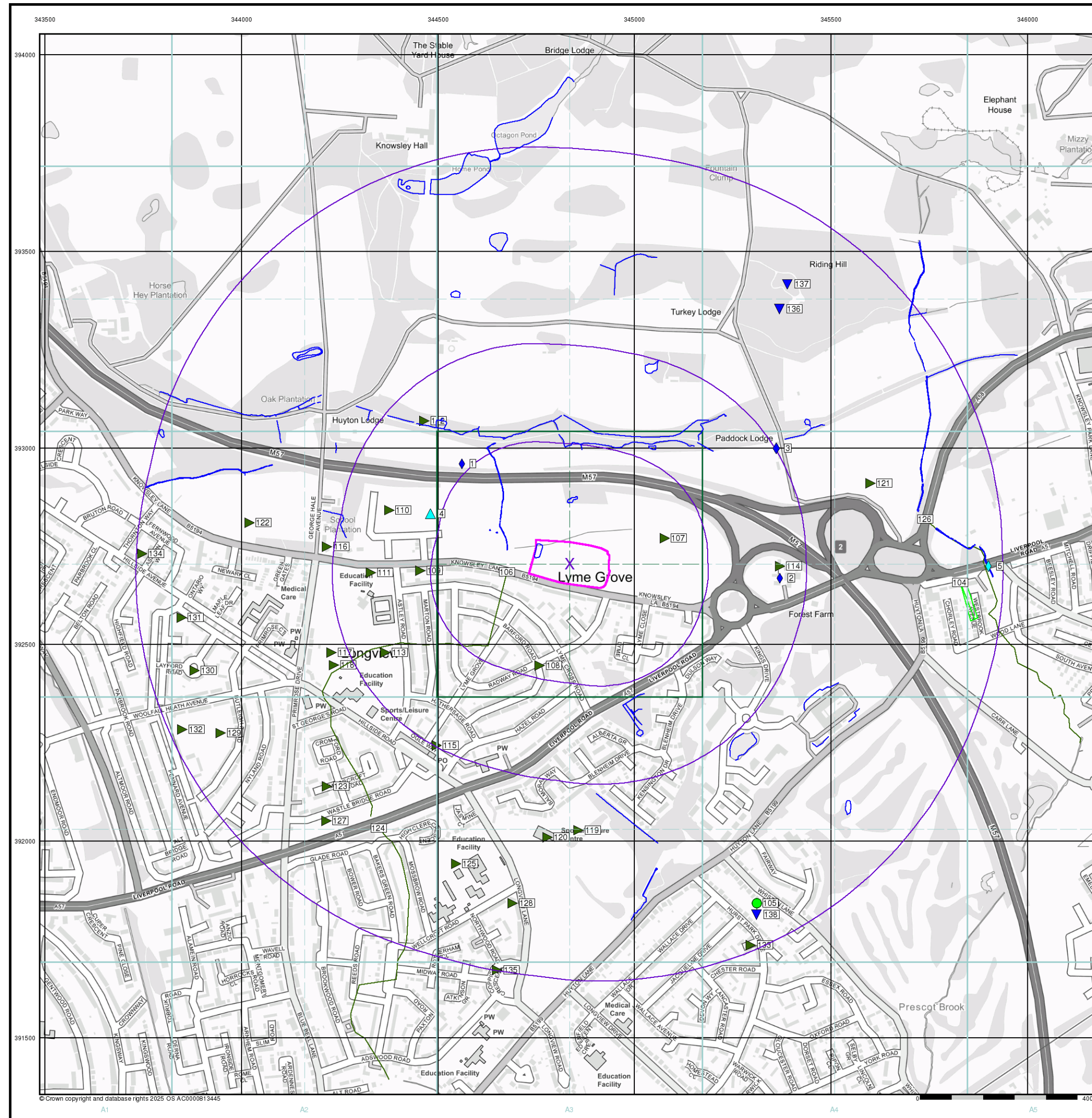


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



Industrial Land Use Map

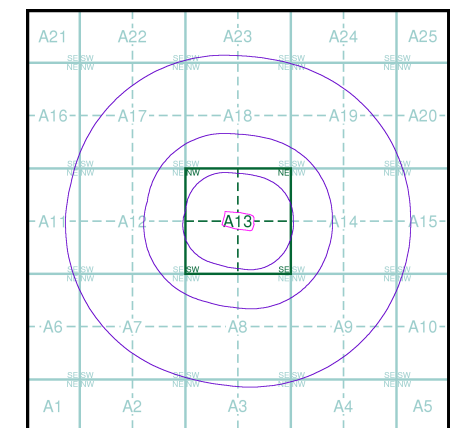
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

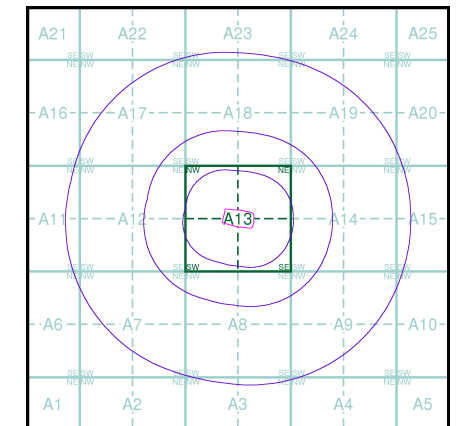
General

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

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

General

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

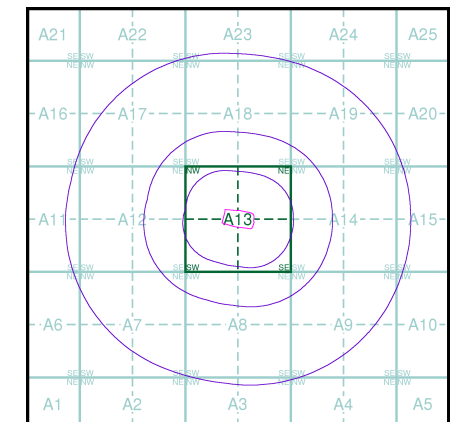
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

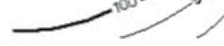
General

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

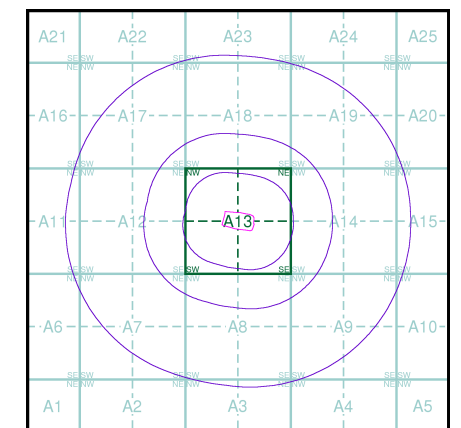
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |

Contours (height in meters)

- Standard Contour  MLW Mean Low Water
- Master Contour  MHV Mean High Water
- Spot Height 

OS Water Network Map - Slice A

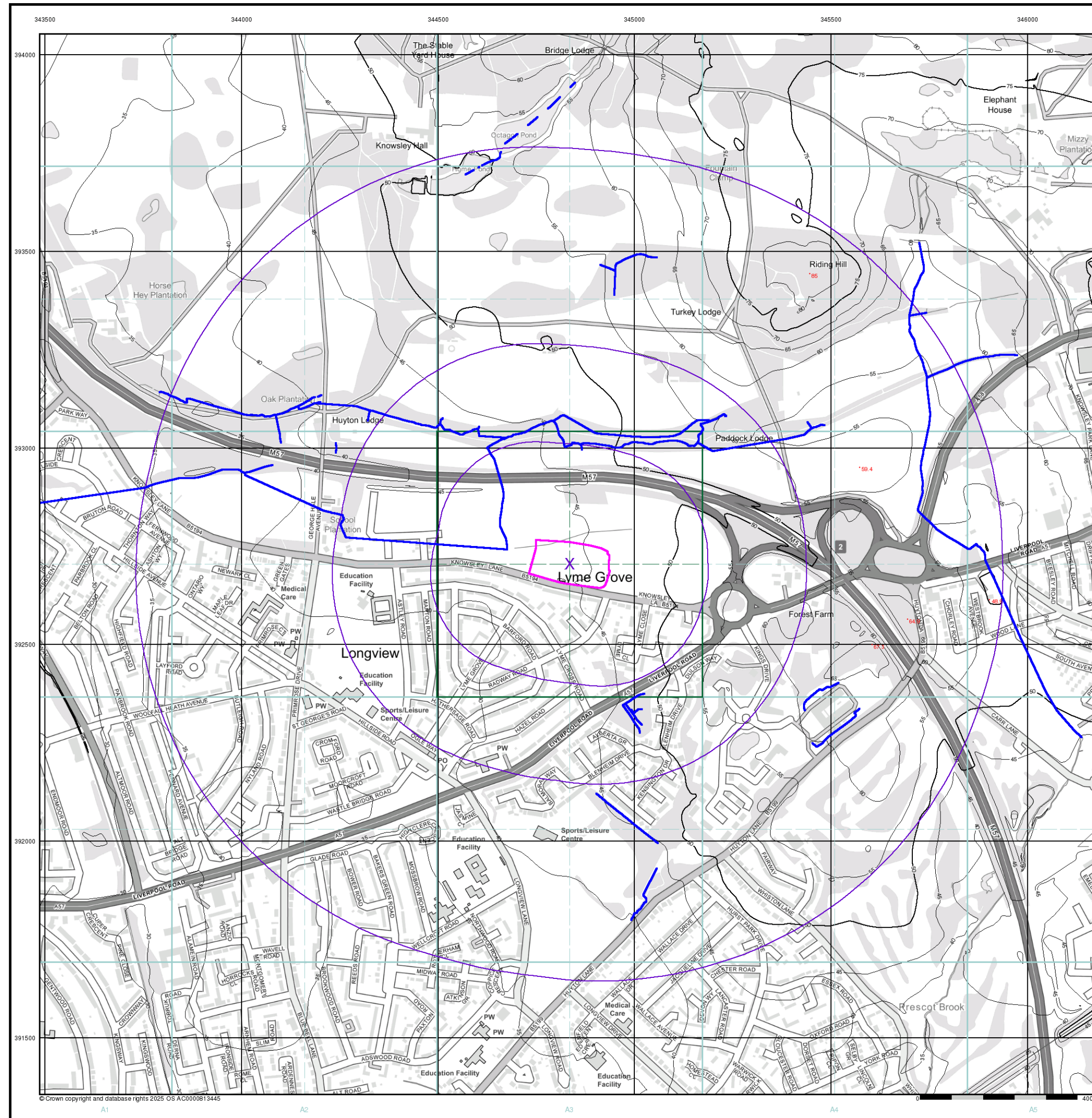


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



General

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

Risk of Flooding from Surface Water

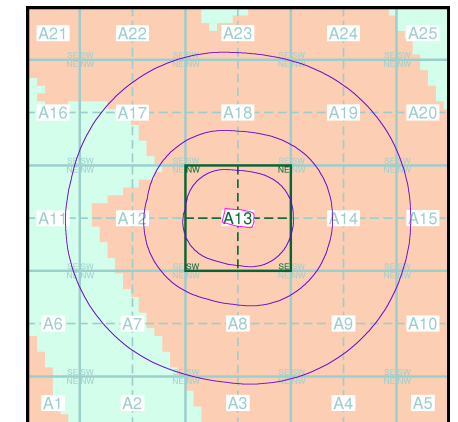
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

E/NRW Suitability Map - Slice A



Order Details

Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

WFD Surface Waters Map

General

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

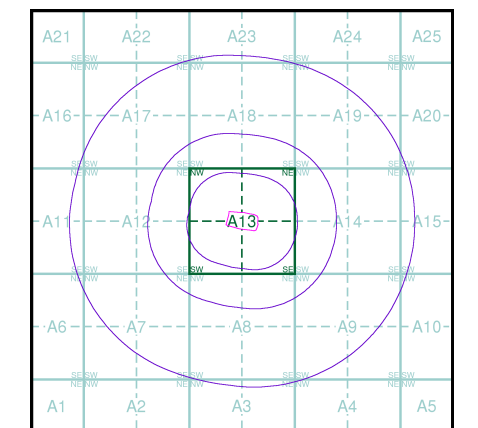
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

- Standard Contour Mean Low Water
- Master Contour Mean High Water
- Spot Height

WFD Surface Waters Map - Slice A

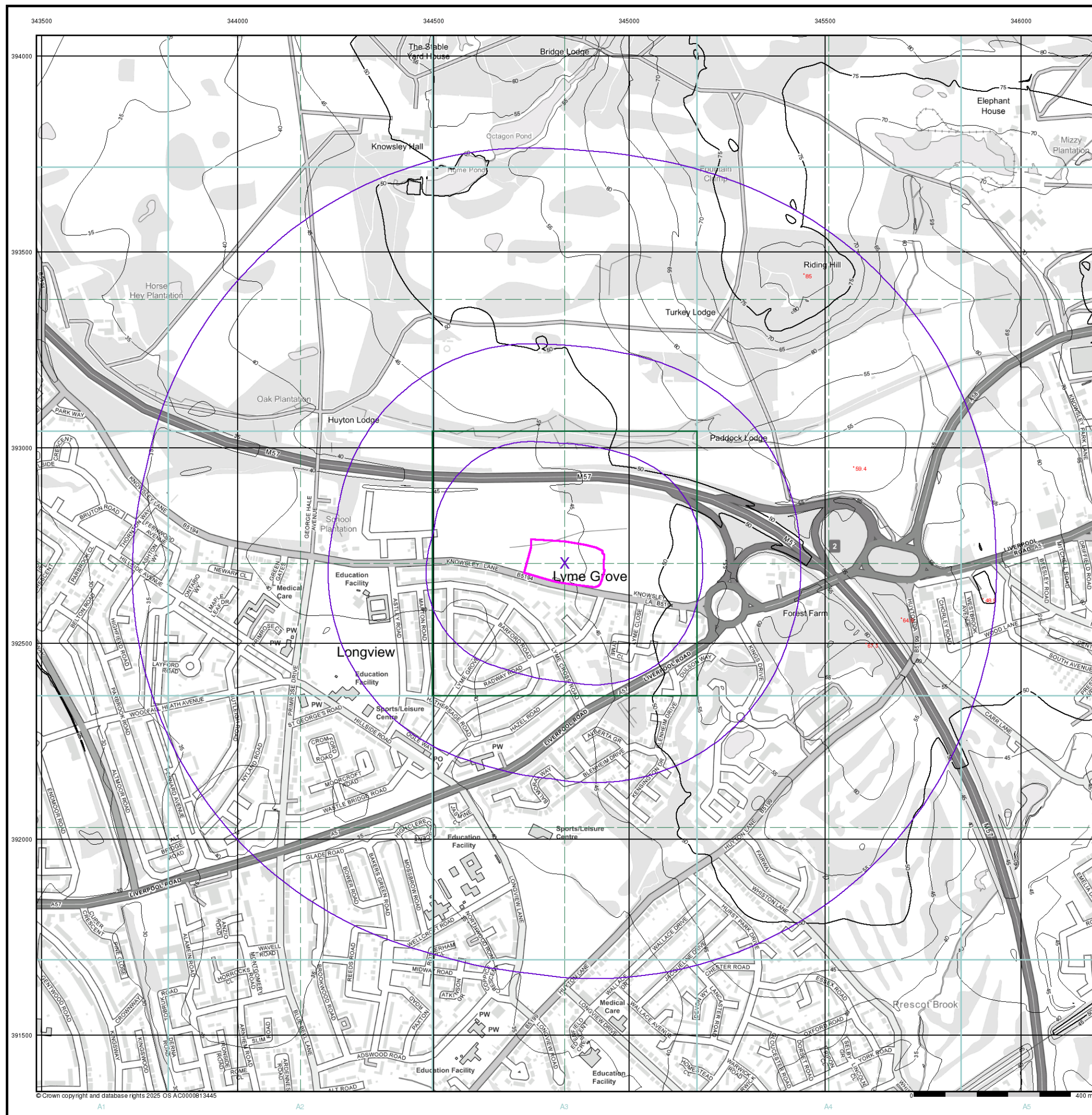


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

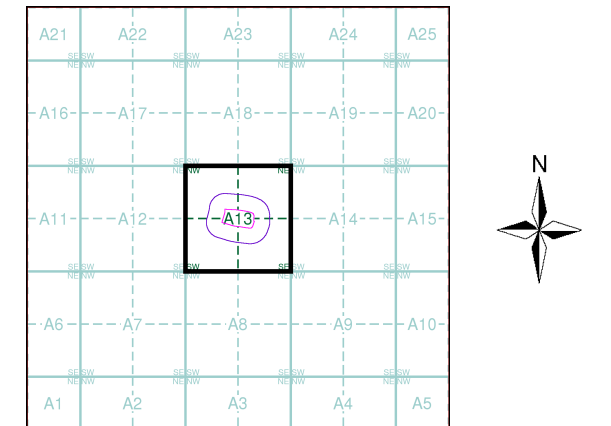
Knowsley Lane, Liverpool, L36 8HN



General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- ## Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Historical Prosecutions
 - Prosecutions
 - Registered Radioactive Substance
 - River Network or Water Feature
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ## Waste
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- ## Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- ## Geological
- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

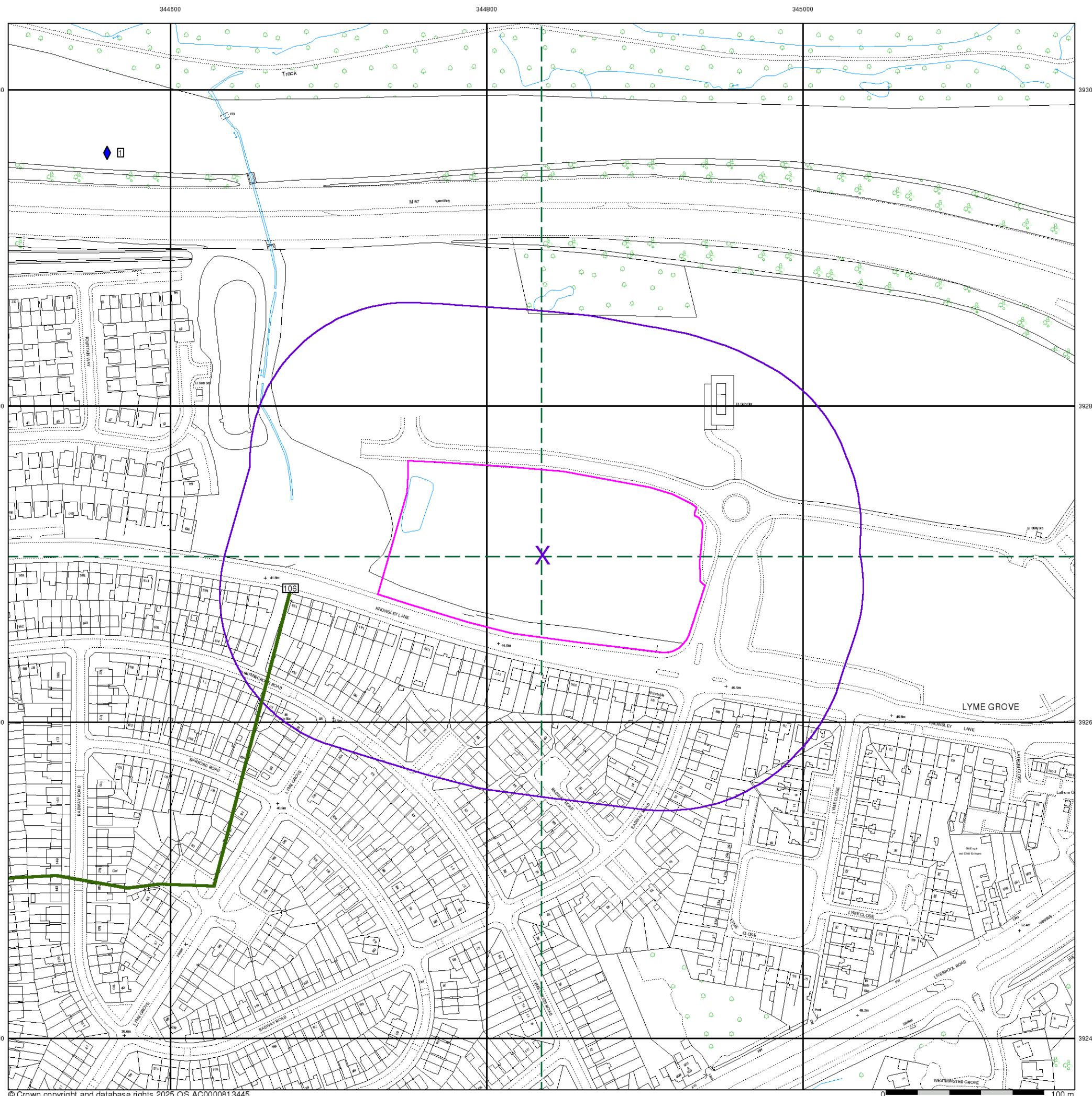


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Plot Buffer (m): 100

Site Details

Knowsley Lane, Liverpool, L36 8HN

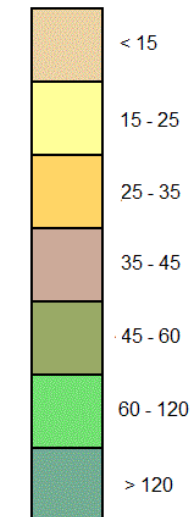


General

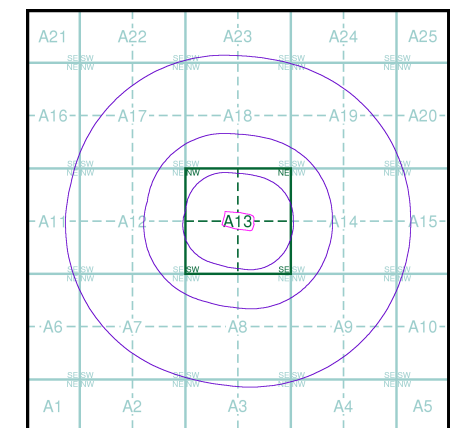
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

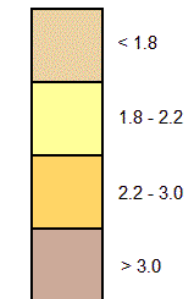
Knowsley Lane, Liverpool, L36 8HN

General

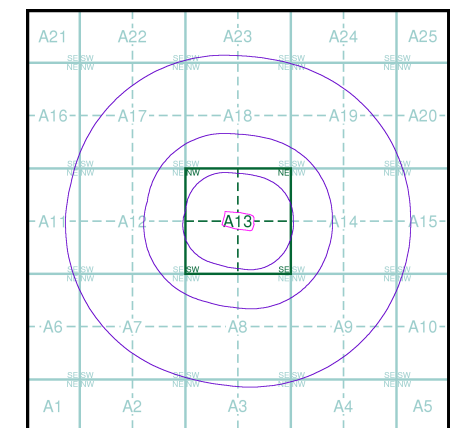
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

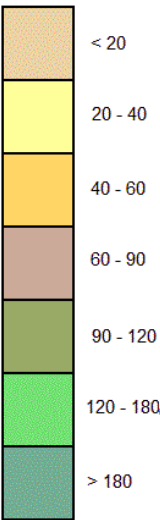
Knowsley Lane, Liverpool, L36 8HN

General

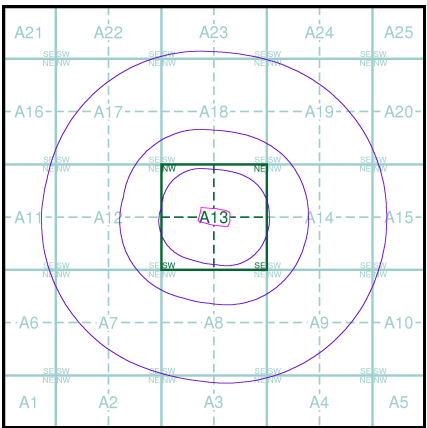
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

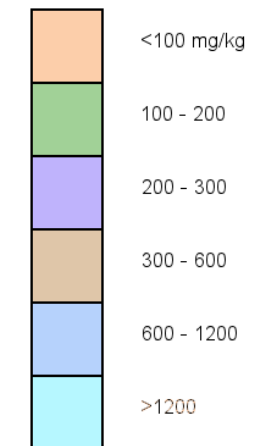
Knowsley Lane, Liverpool, L36 8HN

General

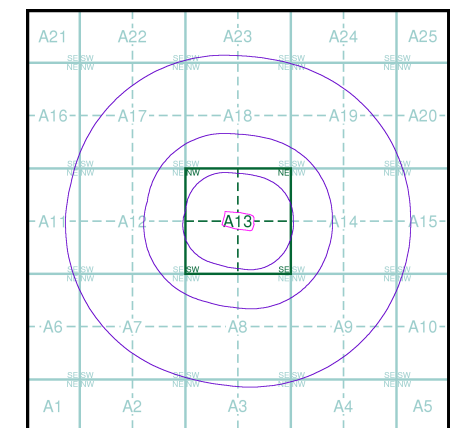
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

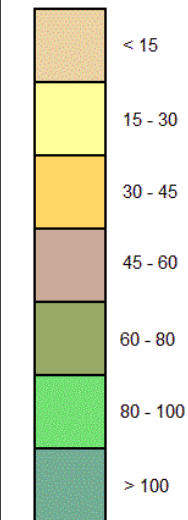
Knowsley Lane, Liverpool, L36 8HN

General

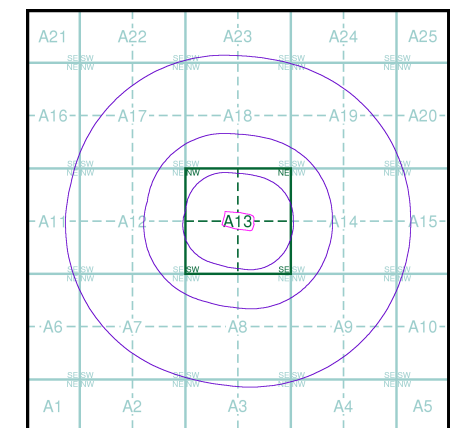
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

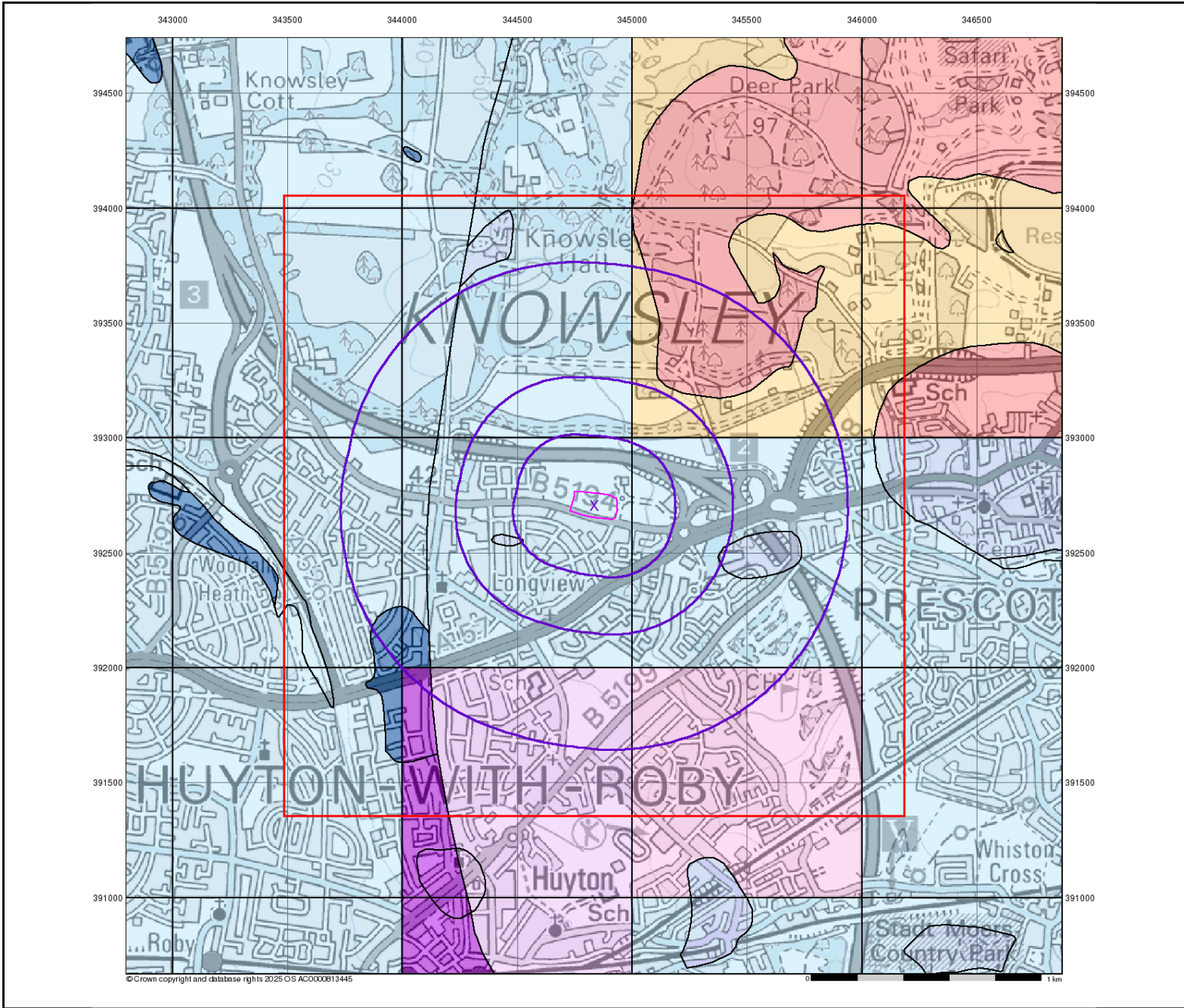


Order Details

Order Details: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



Curtins

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

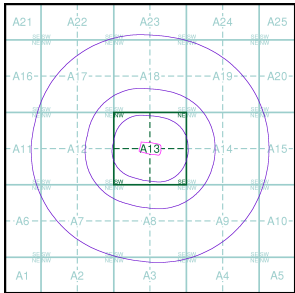
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

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

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

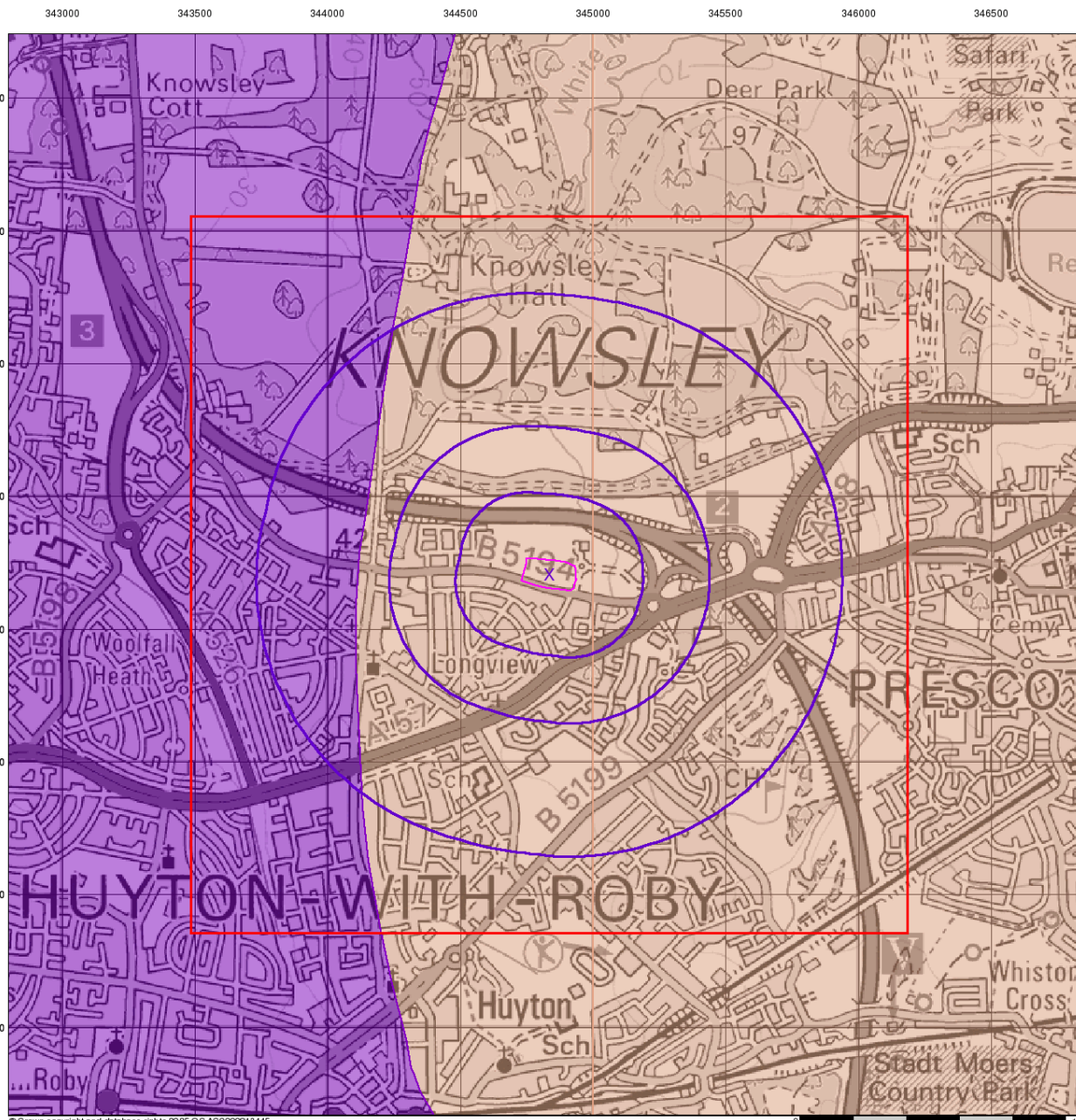
Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark[®]
INFORMATION GROUP

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



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Curtins

Bedrock Aquifer Designation

General

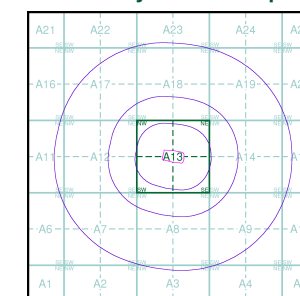
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

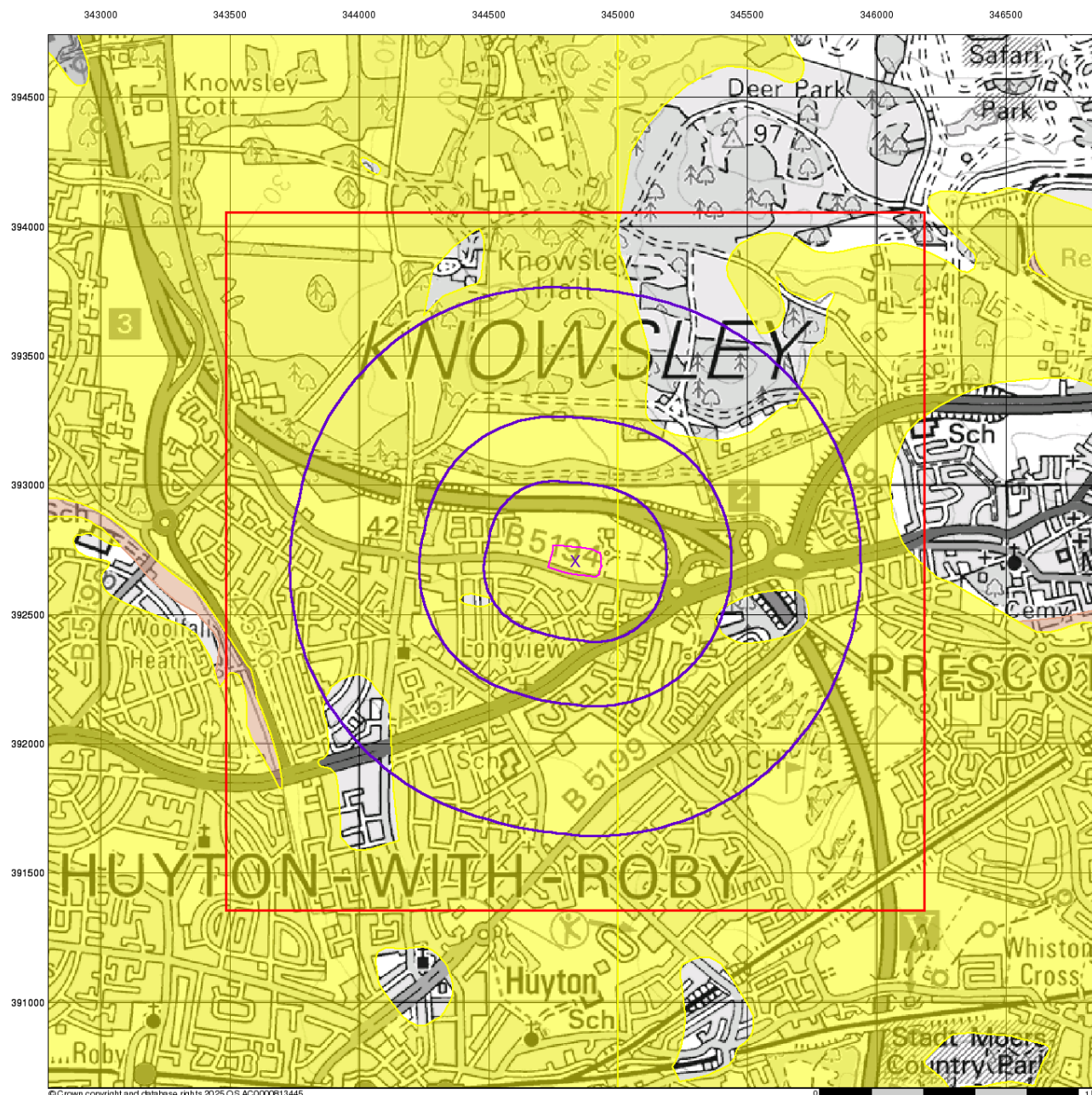
Order Number: 379206808_1_1
Customer Ref: 087955
National Grid Reference: 344840, 392710
Slice: A
Site Area (Ha): 1.94
Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
INFORMATION GROUP

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



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Curtins

Superficial Aquifer Designation

General

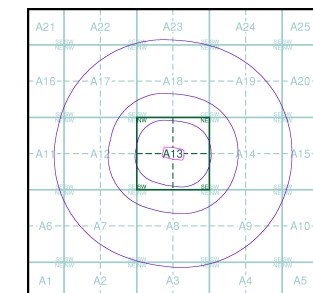
- Specified Site
 Specified Buffer(s)
 Bearing Reference Point
 Slice
 Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

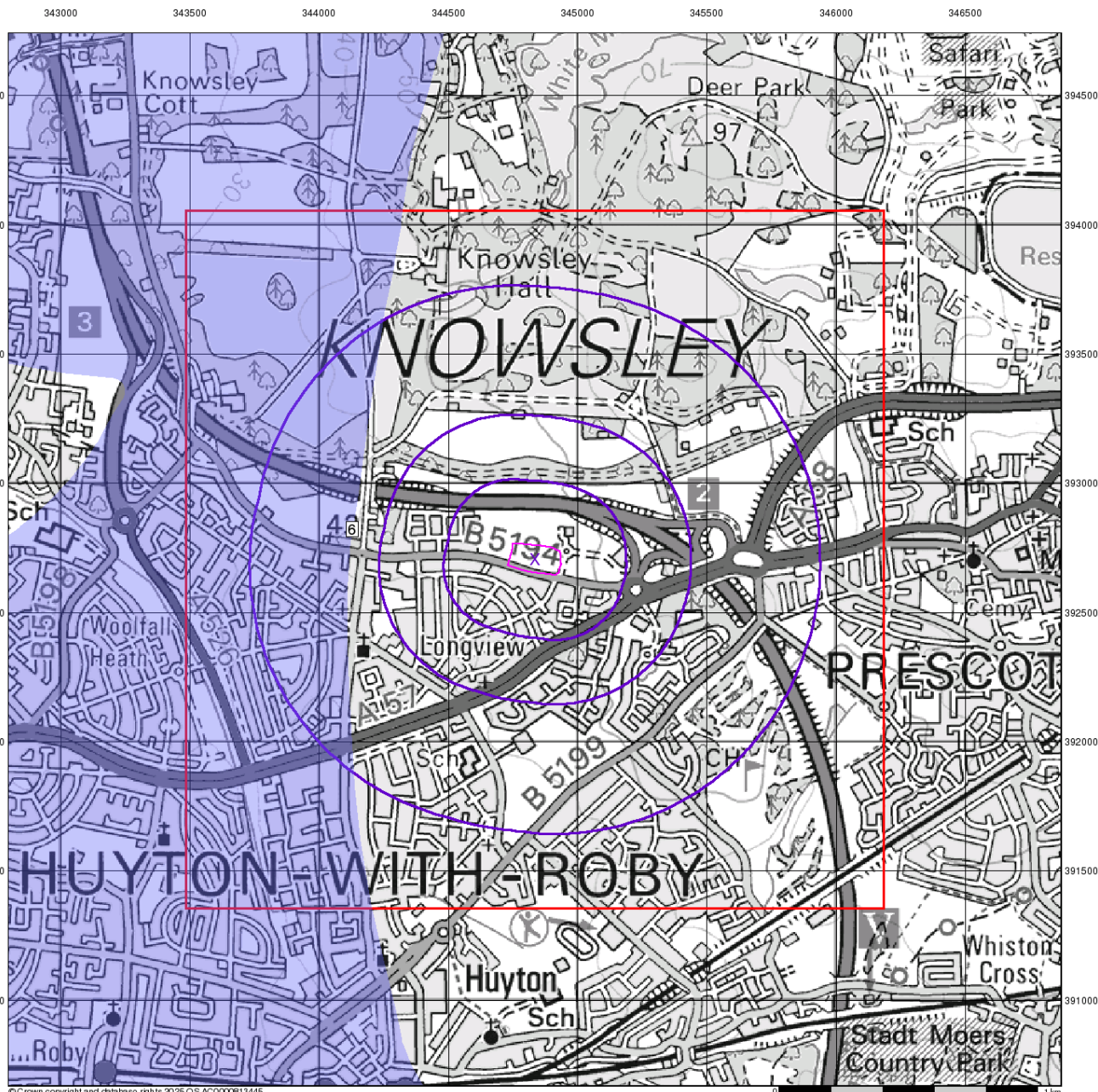
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Customer Ref:	087955
National Grid Reference:	344840, 392710
Slice:	A
Site Area (Ha):	1.94
Search Buffer (m):	1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

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INFORMATION GROUP

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



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Curtins

Source Protection Zones

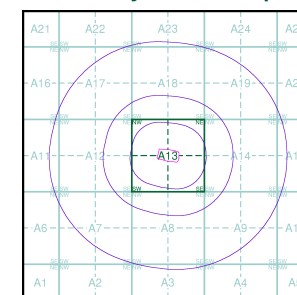
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN

Landmark
 INFORMATION GROUP

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

Sensitive Land Uses

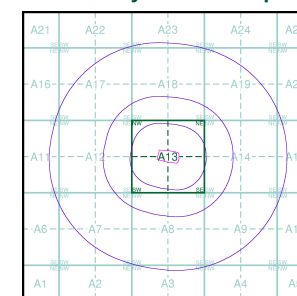
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A

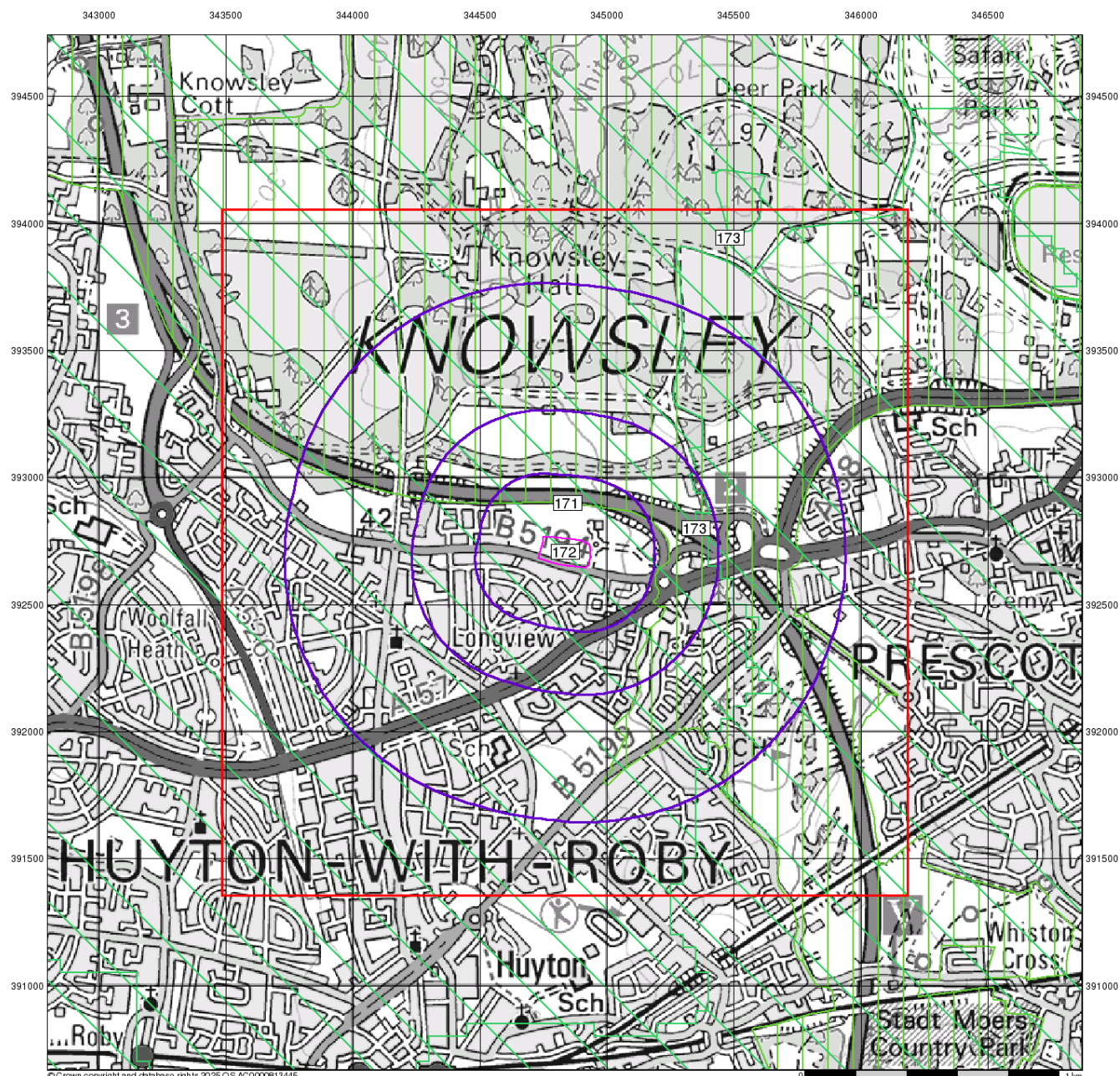


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



BGS Flood GFS Data

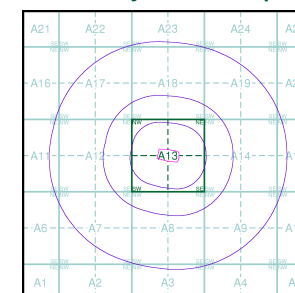
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A

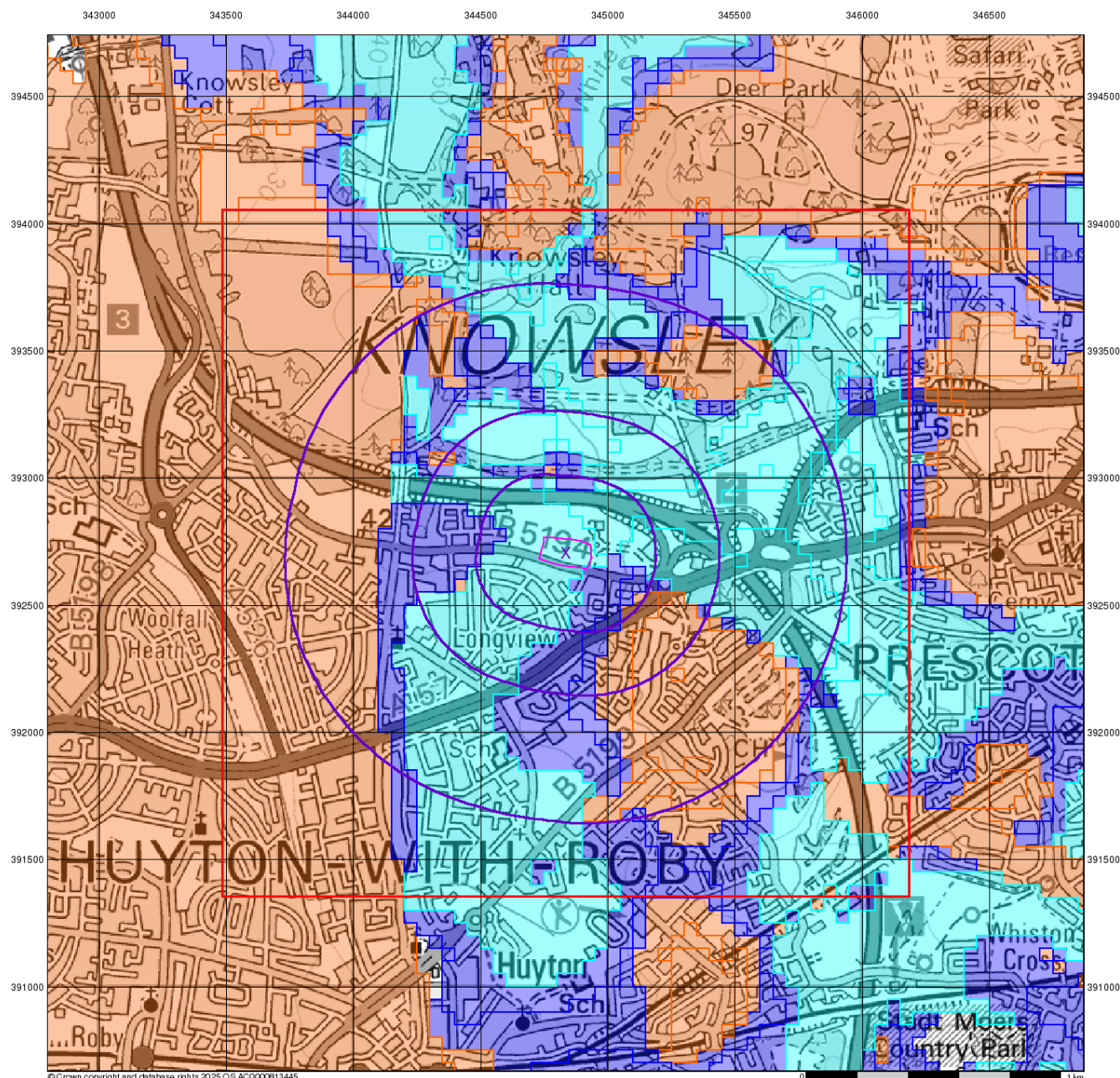


Order Details

Order Number: 379206808_1_1
 Customer Ref: 087955
 National Grid Reference: 344840, 392710
 Slice: A
 Site Area (Ha): 1.94
 Search Buffer (m): 1000

Site Details

Knowsley Lane, Liverpool, L36 8HN



Appendix C – Mining Remediation Authority Report and Correspondence



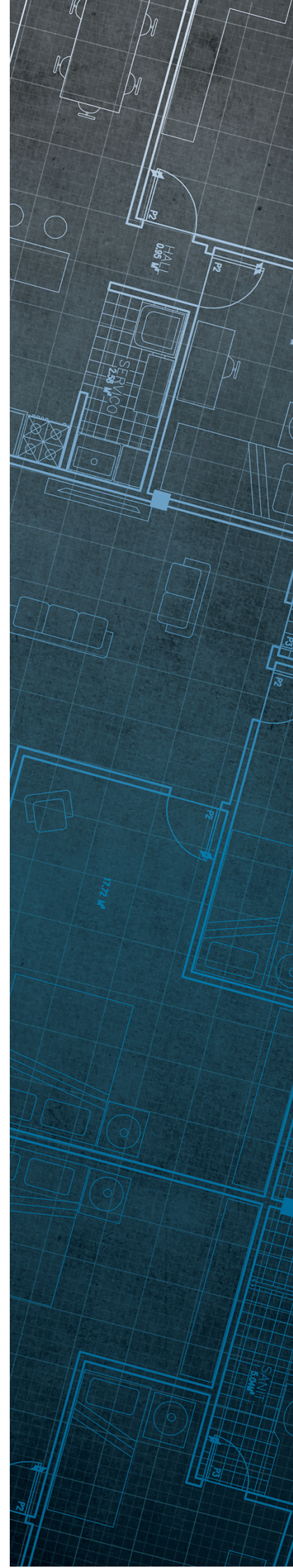
The Coal
Authority

Consultants Coal Mining Report

Knowsley Lane
Huyton
Knowsley
L34 4AH

Date of enquiry:	17 June 2025
Date enquiry received:	17 June 2025
Issue date:	17 June 2025

Our reference:	51003505615001
Your reference:	087955



Consultants

Coal Mining Report

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

Client name

Curtins

Enquiry address

Knowsley Lane
Huyton
Knowsley
L34 4AH

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

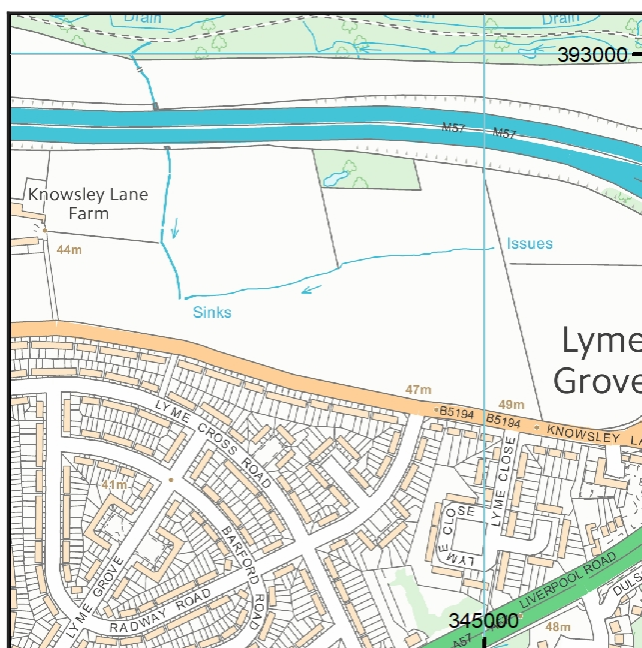
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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

No past mining recorded.

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	344392-009	344750 392702	Shaft discovered by M&J Drilling, under Permit 24912, in July 2022. The shaft was found to be backfilled to its base with colliery spoil.	Coal	

Abandoned mine plan catalogue numbers

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

16820		
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Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
ARLEY	Coal	Yes	Within	N/A	72

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

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

Site investigations

Distance to site investigation (m)	Direction
Within	N/A

See Section 4 for further information.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

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

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

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

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

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

Withdrawal of support notices

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

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

Payments to owners of former copyhold land

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

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

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

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

Site investigations

The site is within an area of previous interest. It is close to where the Coal Authority has received information relating to past site investigations.

The site requires further investigation and may influence how you approach your risk assessment.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

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

Past underground coal mining

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

Probable unrecorded shallow workings

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

Spine roadways at shallow depth

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

Mine entries

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

Abandoned mine plan catalogue numbers

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

Outcrops

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

Geological faults, fissures and breaklines

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

Opencast mines

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

Coal Authority managed tips

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

Site investigations

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

Remediated sites

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

Coal mining subsidence

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

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

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

Mine gas

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

Mine water treatment schemes

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

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

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

Future underground mining

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

Coal mining licensing

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

Court orders

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

Section 46 notices

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

Withdrawal of support notices

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

Payment to owners of former copyhold land

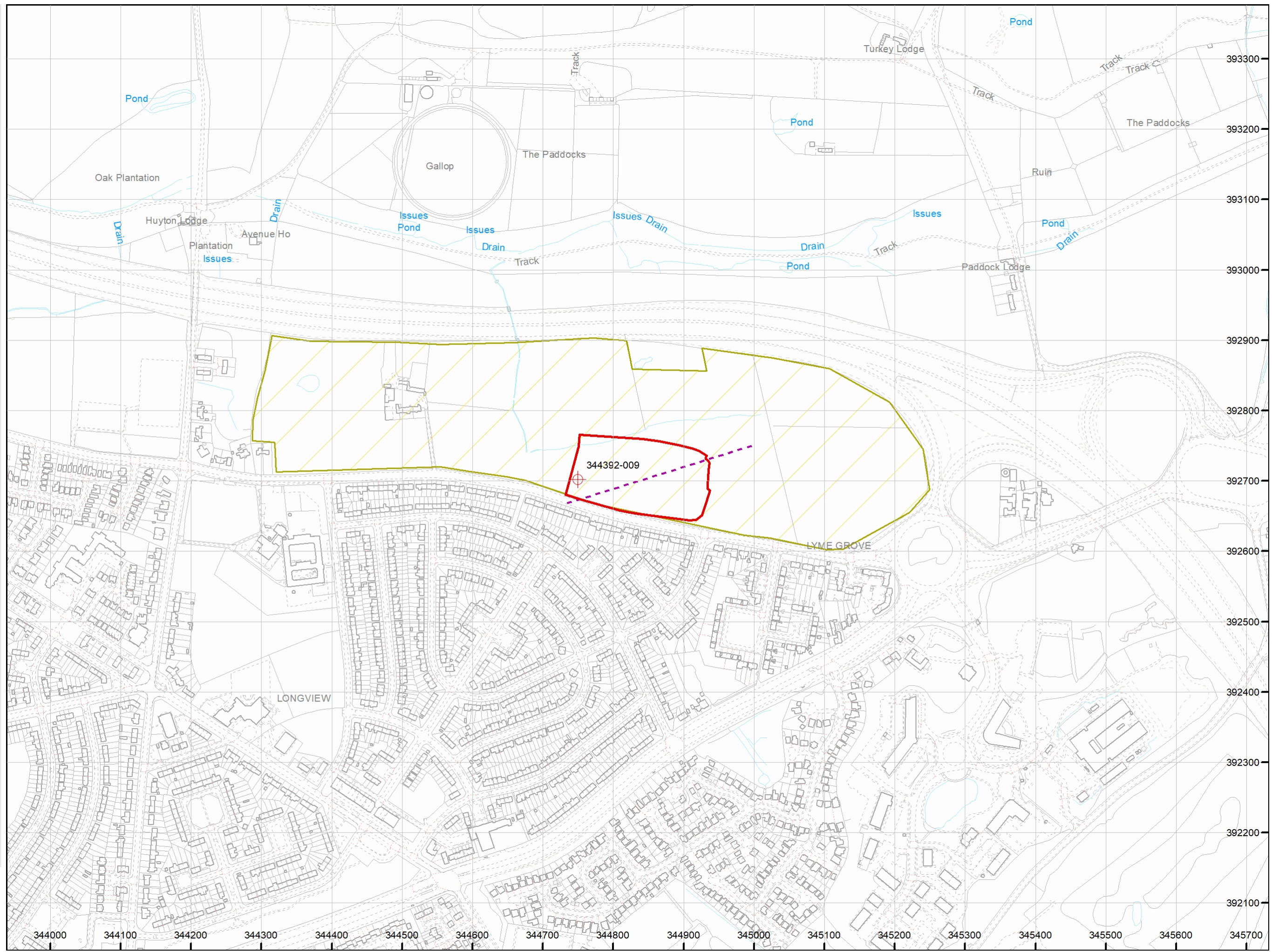
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown 
- Disused mine shaft 
- Outcrop (Conjectured) 
- Site investigations 

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



Appendix D – Qualitative Risk Assessment Rationale

The site-specific risk assessment, presented in this report, follows the principle of establishing whether there is a viable linkage between a contaminant source to a potential receptor, via an exposure pathway.

The risk assessment corresponds with the total site area and incorporates both descriptive (qualitative) and, where available, numerical (quantitative) lines of evidence.

Risk assessment is the process of collating known information on a hazard or set of hazards to estimate actual or potential risk to receptors. The receptor may be humans, a water resource, a sensitive local ecosystem, or future construction materials. Receptors can be connected to the source by one or several exposure pathways such as direct contact for example. Risks are managed by isolating the receptor or intercepting the exposure pathway or by isolating or removing the hazard.

Without the three essential components of a source, pathway, and receptor there can be no risk. Therefore, the presence of contaminant source on a site does not necessarily mean there is a risk.

The risk assessment considers the likelihood of a particular event taking place (accounting for the presence of the source and receptor and the viability of the exposure pathway) in conjunction with the severity of the potential consequence (accounting for the potential severity of the hazard and the sensitivity of the receptor).

In the risk assessment the consequence of the hazard has been classified as severe, medium, mild, or minor and the probability (likelihood) of the circumstances occurring classified as high likelihood or low likelihood or unlikely.

The consequences and probabilities are subsequently cross correlated to give a qualitative estimation of the risk using Department of the Environment risk classifications as detailed in the table below and as referenced in CIRIA C552.

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

In accordance with DoE guidance, the following categorisation of **consequence** has been developed.

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in “significant harm” as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to an ecosystem or organisation forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health. Pollution of sensitive water resources. A significant change in an ecosystem or organism forming part of such ecosystem.	Concentration of a contaminant from site exceeds the generic or site-specific assessment criteria. Leaching of contaminants from a site to a Principal or Secondary A aquifer. Death of a species within a designated nature reserve. Lesser toxic and asphyxiate effects
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures, and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater (Inc. Secondary B aquifers). Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). Easily repairable effects of damage to buildings, structures, and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

In accordance with DoE guidance, the following categorisation of **probability** has been developed.

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

In accordance with DoE guidance, the following categorisation of **risk** has been developed.

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

The term 'risk' in this instance refers to the risk that the source, pathway, receptor linkage for a given source of contamination is complete. It does not refer to immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.