

HALSNEAD FARM

PHASE 1 PRELIMINARY RISK ASSESSMENT WITH COAL MINING RISK ASSESSMENT

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EXECUTIVE SUMMARY

Appointment	Curtins were instructed by Starship Group to undertake a Phase 1 Preliminary Risk Assessment with Coal Mining Risk Assessment (PRA/CMRA) at Halsnead Farm, Fox's Bank Lane, Whiston, L35 3SU. The site is approximately centred on 347620, 389610 and covers an area of approximately 3.43 Ha. It is understood that the development project consists of a proposal of 88 modular residential units with appropriate infrastructure to accompany.
Current Site Status	The site is currently comprised of agricultural land including fields, barns and yards with the addition of a single dwelling. The site can be accessed off Fox's Bank Lane which runs along the eastern boundary of site.
Site History	The earliest available mapping (1849) shows the site as agricultural fields with a pond recorded onsite. Between 1937 and 1990 structures have been recorded onsite associated with agricultural practice, including a tank. The pond has been infilled by early 1980s. The site has remained Halsnead Farm with associated buildings onsite and agricultural land since 1950's. In early mapping, the immediate surrounding area comprised agricultural fields with Sour Hey Pit recorded 500m west and Potter Pit 500m west which were opencast mines. From 1927 the Mineral Railway is recorded 500m southwest of the site and the Cronton Colliery is recorded 200m south of the site which encompasses three shafts, railway sidings, reservoir and pumping house. The colliery undergoes expansion from 1937 including a baths, sewage works and filter beds. A brick works is recorded 400m south of the site from 1950s. The M62 has been developed between 1960s and 1980s which is recorded immediately north of the site. By 1977, the Mineral Railway and railway sidings have been demolished. By 1980, two large lakes within the colliery are recorded 100m and 250m south of the site. During the 1980's works at Cronton Colliery ceased and was demolished during the 1990's. Former Cronton Colliery site has undergone significant development since 2022 with the construction of a logistical unit.
Geology	BGS mapping indicates the site is underlain by Glacial Till for the majority of the site and Alluvium for the eastern edge (superficial) and the Kinnerton Sandstone Formation (bedrock). The site is in a lower probability radon area where <1% to 3% of homes are estimated to be at or above the radon Action Level.
Non-Coal Mining	The closest BGS recorded mineral site was 'The Old Delf' located 612m west of the site where Sandstone of the Pennine Middle Coal Measures was extracted. 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.
Coal Mining Risk Assessment	Pennine Middle Coal Measures are recorded c. 50m west of the site on BGS Geological Mapping. A cross-section shows that coal measures are present beneath the Kinnerton Sandstone Formation bedrock underlying the site, displaced by the Eccleston West Fault. The Mining Remediation Authority records indicate the site is within a coal mining reporting area however, is not situated within a Development High Risk Area. There are no recorded shallow (<30m bgl) coal mine workings or probably shallow coal mine workings beneath the site, therefore the risk from shallow coal mining has been assessed as low. Deep coal mining (>30m bgl) occurred beneath the site within the Rushy Park seam at a depth of 397m bgl, any collapse of coal mine workings at this depth would not propagate to the surface due to sufficient rock cover, and therefore the risk to site from deep coal mining was assessed as low. There are 3 No. mine entries located between 215-260m from the site boundary. The Mining Remediation Authority advised that previous Mine Gas remedial works have been carried out on the three mine shafts within the historic Colliery. Knowsley Council planning portal confirms Mine shaft treatment and grouting of the mine shafts and colliery. It is unlikely that mine gas emissions sourced from unrecorded worked coal seams beneath the site will occur during future drilling or construction. Coal measures formation bedrock is located at depth beneath the site, underlying the Kinnerton Sandstone Formation, due to vertical displacement caused by the Eccleston West Fault located west of the site. 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..
Hydrogeology	The site is underlain by a Principal Aquifer associated with the bedrock formation, and a Secondary Undifferentiated Aquifer associated with Glacial Till deposits and a Secondary A aquifer associated with the Alluvium within the superficial deposits. The site is not located within a Zone 3 Source Protection Zone (SPZ). There are no recorded potable groundwater abstractions within 500m of the site.
Hydrology	The nearest surface water feature is an unnamed river, located 37m southwest of the site. The closest recorded active surface water abstraction point is located 419m south-west of the site, operated by C.White Limited Cooling & Boiler Feed & Coal Washing & Dust Suppression.

Landfill and Pollution	There one discharge consent within 250m of the site boundary located 37m southwest and is operated by North West Development Agency. No pollution incidents or substantiated pollution incidents have been recorded within 250m of the site within the last 10 years.
	There are no currently operational BGS recorded landfill sites or historical landfills located within 500m of the site. There are no licensed waste management facility located within 500m of the site. There are no active Local Authority Pollution Prevention and Control Permits located within 500m of the site.
	The site is recorded to be 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 ground investigation works is assessed as Low. 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.
Unexploded Ordnance (UXO)	
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 88 residential properties, therefore, hardstanding removing the direct contact pathway. Limited sources of volatile contamination have been identified. 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 surface water is considered to be Low due to the anticipated presence of cohesive soils breaking the migration pathway. Should evidence of gross contamination be encountered during future ground investigation, groundwater samples should be obtained to further assess the risk the surface water features. Due to the anticipated presence of cohesive breaking the migration pathway to the underlying Principal Aquifer within the bedrock deposits, the risk posed to groundwater is Low. The risk posed to site end-users from ground generating gases arising from organic / putrescible soils (Made Ground, infilled pond on site) and potentially unrecorded nearby worked coal seams is considered to be Moderate / Low.
	Ground stability hazards (collapsible ground, ground dissolution, landslide, running sand or shrinking/swelling clay) on site are generally recorded as Very Low to No Hazard. A moderate risk rating for compressible ground has been noted for the east of the site where the site is underlain by Alluvium deposits. This should be confirmed by site reconnaissance and ground investigation. There may be subsurface obstructions, voids and relic foundations associated with historical buildings.
Ground Engineering Considerations	
Recommendations	The following recommendations are made: • Undertake an intrusive ground investigation to collect chemical and geotechnical samples to inform human health risk assessment and geotechnical assessment. • Install monitoring wells to allow for monitoring sub-surface conditions, including ground gas and groundwater monitoring. • Where evidence of gross contamination or groundwater contamination is identified, groundwater samples may be required to further assess the risk to human health or controlled waters. • Undertake a GQRA as part of the ground investigation to determine contaminated land risks.

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1 INTRODUCTION

1.1 Project Background

Curtins were instructed by Starship Group to undertake a Phase 1 Preliminary Risk Assessment with Coal Mining Risk Assessment (PRA/CMRA) at Halsnead Farm, Fox's Bank Lane, Whiston, L35 3SU.

It is understood that the development project consists of up to 90 residential dwellings with appropriate infrastructure to accompany.

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 consideration of the proposed demolition and construction works.

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 redevelopment; and
- f) The location of above-surface features that may affect the proposed redevelopment.

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

1.3 Historical Reporting

Curtins have undertaken a Foursite report previously (Ref. 087052-CUR-XX-XX-T-Z-00001) for the site which details a multi disciplinary summary in respect to the subject site dated January 2025.

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	Land West of Fox's Bank Lane, Whiston, L35 3SU
NGR	347620, 389610
Area of Site	Approximately 3.43 Ha.
Current Site Use and Description	The site is currently comprised of agricultural land including fields, barns and yards with the addition of a single dwelling. The site can be accessed off Fox's Bank Lane which runs along the eastern boundary of site.

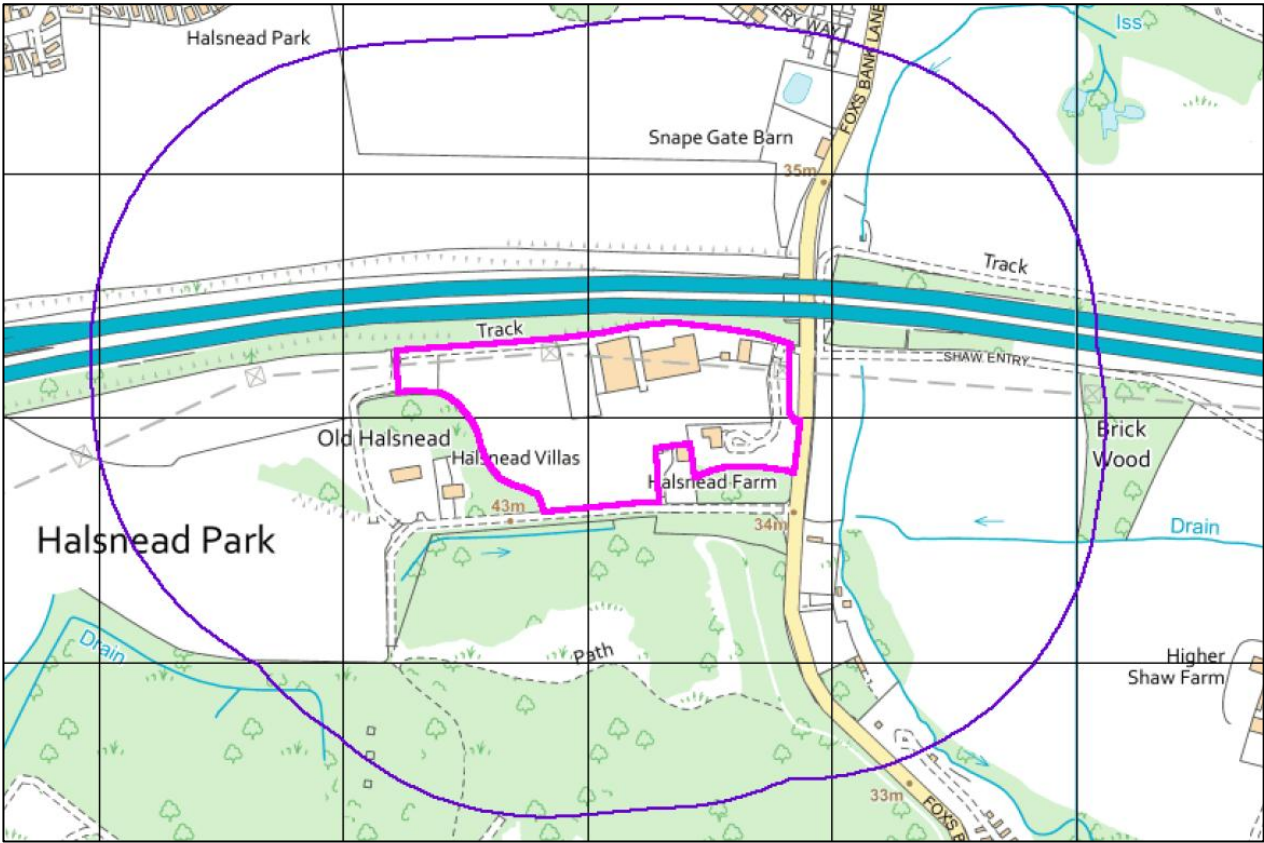


Figure 1 – Site Location Plan, site boundary shown in pink, 250m buffer in purple.

2.2 Surrounding Area Details

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

Table 2 – Surrounding Area

Surrounding Area	N	M62 Motorway.
	E	Fox's Bank Lane.
	S	Four residential properties and a new logistics hub for Yodel.
	W	Agricultural land.

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
1849 – 1900's	Earliest available mapping (1849) shows the site as undeveloped agricultural fields, with land use largely occupied by open fields with a forested area noted in the northeast of the site. By the 1890's a pond feature is recorded in the northeast of the site. In early mapping, the surrounding area comprised of largely undeveloped agricultural land. During this period features described as Sour Hey Pit and Ravenhurst Pit are recorded approximately 500m and 600m southwest respectively, and Potter Pit approximately 500m west. It is possible that these pits are associated with the opencast extraction of coal. By 1890's a farmhouse noted immediately southwest of the site and roads are present at the sites southern and eastern boundary (now recorded as Fox Bank Lane).	• Potential for organic rich soils due to pond on site. • Potential for uncontrolled deposition of Made Ground during the construction of nearby farmhouse and roads.
1900's – 1950's	By 1937 two small buildings are recorded in the southeast of the site and then by 1959 the site has been partially developed with large agricultural buildings constructed in the northeast of the site. All new structures are connected to the existing road at the sites' southern boundary with a vertical path that runs in a north to south direction. In 1927, Cronton Colliery is recorded approximately 200m south of the development site. The Colliery comprises of four large structures with several smaller associated buildings and chimneys. 1927 mapping records three shafts located in the centre of the colliery, approximately 215m, 235m and 260m from the site. A Railway recorded as the 'Mineral Railway' is present approximately 500m southwest of the site with associated railway sidings present at Cronton Colliery located 250m south of the development site. During this period a reservoir and associated pumping house is recorded approximately 500m south of the site. By 1937, the colliery has been expanded to the north, with a building recorded as baths and a sewage works with associated filter beds now recorded approximately 100m south of the site. By the 1950's a brick works is recorded immediately adjacent to Cronton Colliery approximately 400m south of the site. A large slag heap associated with the colliery works is recorded approximately 250m south of the site by 1951.	• Potential for uncontrolled deposition of Made Ground during the construction of buildings onsite. • Potential for uncontrolled deposition of Made Ground during the construction and expansion of the colliery. • Potential for mine gases associated with the shafts within the colliery. • Potential for slag heaps and Made Ground from Railway sidings associated with the mineral railway within the colliery.
1960's – 2000's	By 1975, agricultural building located in the northeast of the site have been demolished and replaced by two large rectangular structures. An overhead electric cable with two pylons are recorded in the north of the site running in a west to east direction. By 1981, the pond within the northeast of the site has been infilled and a tank is recorded in the northeast of the site and is assumed to be associated with agricultural practice. During this period, the existing Halsnead Farmhouse has been constructed in the southeast of the site and a bungalow has been constructed immediately south.	• Potential for uncontrolled deposition of Made Ground during demolition onsite, including asbestos due to the age of the building. • Potential for ground gas due to infilled pond on site. • Potential for uncontrolled deposition of Made Ground during the demolition of the colliery and railway line. • Potential Made Ground from M62 motorway development.

Date	Description	Potential Sources of Contamination
2000's – Present	Between 1960s and 1980s the M62 Motorway has been constructed immediately north of the site and runs in a west to east direction. By 1977, the Mineral Railway and associated railway sidings have been demolished. By 1980, two large lakes associated with the colliery works are recorded 100m and 250m south of the site boundary. During the 1980's works at Cronton Colliery ceased and the site was demolished during the 1990's and left vacant.	
	The site has remained largely unchanged since the 1980's and is currently occupied by Halsnead Farm as a horse breeding stable. The former Cronton Colliery site has undergone significant development since 2022 with the construction of the Yodel logistical unit. The site is currently undergoing construction works. Additionally, former agricultural land located approximately 100m north is Currently being developed by Taylor Wimpey into a residential housing, with works having commenced in 2022. By 2024, the reservoir located south is no longer recorded.	• No significant new sources recorded. • Potential for uncontrolled deposition of Made Ground during the construction of the Yodel logistical unit.

Potential sources of on-site contamination are further discussed in *Section 7*.

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 97) (Ref. 3 & 4) and BGS Geoindex (Ref. 5) indicates the following geological and hydrogeological succession underlying the site:

Table 4 – Geological / Hydrogeological Succession

Geology		Associated Hydrogeological Classification
BGS Records do not indicate the presence of Made Ground beneath the site. However, it is considered likely that Made Ground will be present.		N/A
Majority of the site	Glacial Till ¹	Secondary Undifferentiated Aquifer ⁴
Eastern edge of the site	Alluvium ²	Secondary A Aquifer ⁵
Kinnerton Sandstone Formation ³		Principal Aquifer ⁶

Notes:

1. A heterogenous mixture of clay, sand, gravel, and boulders varying widely in size and shape.
2. Alluvium is unconsolidated material, like clay, silt, sand, and gravel, deposited by flowing water.
3. Sandstone, red-brown to yellow, generally pebble-free, fine- to medium-grained, cross-stratified.
4. 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.
5. Secondary A aquifers comprise permeable layers that can support local water supplies and may form an important source of base flow to rivers.
6. Principal aquifers provide significant quantities of drinking water, and water for business needs. They may also support rivers, lakes and wetlands.

Although Made Ground is not recorded on BGS records, it is likely that Made Ground will be present at the site due to construction of the Halsnead Farm house onsite.

Pennie Middle Coal Measures are recorded approximately 90m southwest of the site.

The site is recorded to be above a Medium Vulnerability Secondary Aquifer associated with the superficial deposits. The bedrock deposits are associated with a Principal Aquifer.

The site is recorded within a Zone 3 Source Protection Zone (SPZ). There are no groundwater abstraction within 500m of the site.

There are no available BGS borehole records located on site. There are two BGS boreholes records available within 100m of the site. These records are detailed within Table 5 below.

Table 5 – BGS Borehole Records

Record Number	Location	Details (Depth to top of strata (m bgl), Description and Thickness)	
SJ48NE321	15m North (347760, 389680)	0.00	Medium dense brown fine to medium grained sand with some angular gravel of sandstone with some wood and roots. (1.00m)
		01.00	Medium dense fine to medium grained sand and subrounded fine to coarse gravel of sandstone. (0.40m)
		1.40	Dense orange fine to medium grained sand with occasional angular fine to coarse gravel of sandstone (2.10m)
		3.50	Very weak orange sandstone (recovered as angular fine to coarse gravel) (0.50m)
		4.00	Moderately weak to moderately strong purple, orange and light grey interlaminated to very thinly interbedded fine to medium rounded grained sandstone. (6.44m)
		Borehole completed at 10.44m bgl	
SJ48NE303	60m North (347760, 389730)	0.00	Topsoil: Dark brown very sandy silt with some fine roots and some subrounded fine to medium gravel. (0.20m)
		0.20	Very dense orange-brown sand with some angular fine to coarse gravel of sandstone, becoming weak sandstone, highly to completely weathered recovered as angular fine to coarse gravel. (1.20m)
		1.40	Moderately weak to moderately strong brown orange thickly laminated silty rounded grained sandstone. (8.76m)
		Borehole completed at 10.16m bgl	
SJ48NE624	Approx. 200m southwest (347428, 389337)	0.00m	Made Ground (2.00m)
		2m	Green/Brown stiff clays/hard mudstone (3.00m)
		5m	Brown clays (4.00m)
		9m	Grey clay medium hard brown mudstone (5.00m)
		14m	Medium hard brown mudstone (1.50m)
		15m	Grey clay/brown mudstone (0.50m)
		16m	Brown mudstone with siltstone (2.00m)
		18m	Hard white sandstone (2.00m)
		20m	Brown mudstone with siltstone (1.00m)
		21m	Hard grey sandstone with some coal measures (9.00m)
		30m	Hard grey sandstone (9.00m)
		39m	Medium hard black COAL (1.00m)
		40m	Hard grey sandstone (5.50m)
		45.5m	Medium hard black COAL (0.50m)
		46m	Medium soft brown/grey mudstone (68.00m)
		114m	Grey clay (2.00m)
		116m	Grey clay mudstone (4.00m)
		120m	Medium soft grey/brown mudstone (4.00m)
		124m	Medium hard black COAL (8.00m)
		132m	Medium soft grey/brown mudstone (5.00m)
		137m	Medium hard black COAL (2.00m)
		139m	Medium soft light brown mudstone (1.00m)
		140m	Medium hard black COAL (2.00m)
		142m	Medium soft grey/brown mudstone (5.00m)
		147m	Medium hard black COAL (0.5.00m)
		147.5m	Medium soft grey/brown mudstone (17.50m)
		165m	Medium hard black COAL (1.00m)
		166m	Medium soft grey/brown mudstone (17.00m)
		183m	Hard light brown sandstone (6.00m)
		189m	Higher Florida seam working (1.00m)
		Borehole completed at 190.00m bgl.	

There are no BGS recorded fault lines located on site. The nearest fault line is present approximately 90m west of the site (Eccleston West Fault Line), which separates the Kinnerton Sandstone from the Pennine Middle Coal Measure Formation (sandstone and mudstone). The fault downthrows in an western direction away from the subject site.

4.1.1 Coal Mining

The Mining Remediation Authority's online interactive mapping (Ref. 6) for the area indicates that the site is located within a coal mining reporting area. However, is not located within a Development High Risk Area. The area is highlighted in Figure 2.

CL:AIRE (Ref. 12) suggests the site is located within a low risk area, where any past coal mining activity has taken place at sufficient depth that it poses a low risk to new development.



Figure 2 – Mining Remediation Authority Recorded Development High Risk Area (Left) Highlighted in Black Hatching. Mining Remediation Authority Area of Probable Shallow Coal Mine Workings (Right) Highlighted in Purple Hatching. Site Boundary in Red.

Review of the Mining Remediation Authorities interactive mapping does not indicate the presence of shallow coal mine workings, probable shallow coal mine workings or coal outcrops located on site. The interactive map does note a coal outcrop approximately 150m southwest of the site which is recorded to be a location of probable shallow coal mine workings. As such this area, is designated as Development High Risk Area with regards to historic coal mining. Mining Remediation Authority Interactive mapping records three mine entries located approximately 250m south of the site

Further discussion on the Coal Mining risk is presented in Section 6.

4.1.2 Non-Coal Mining

The Envirocheck Report (Ref. 2) confirms that the closest BGS recorded (non-coal) mineral site was 'The Old Delf' located 612m west of the site where Sandstone of the Pennine Middle Coal Measures Formation was extracted.

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**.

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
Collapsible Ground	Very Low
Compressible Ground	No Hazard for the majority of the site. A Moderate rating is given east of the site potentially linked to the alluvium.

Ground Stability Hazard	Hazard Potential On-site
Ground Dissolution (Soluble Rocks)	No Hazard
Landslide	Very Low
Running Sand	Very Low to Low
Shrinking or Swelling Clay	Very Low

Intrusive ground investigation works will 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 an low to intermediate probability radon area (<1% to 3% of homes are estimated to be at or above the radon action level). The radon online interactive maps (Ref. 7) sets the site within an elevated 10-30% radon area, however the Envirocheck report is based within a smaller scale and therefore more accurate. It is therefore No radon protection measures are likely to be required. Should the new development include construction of a basement the advice of a specialist radon assessor must be obtained.

4.2 Hydrology

The Envirocheck Report indicates that the closest surface water feature is an unnamed river, located 37m southwest of the site.

No pollution incidents or substantiated pollution incidents have been recorded within 250m of the site within the last 10 years.

The closest recorded active surface water abstraction point is located 419m south-west of the site, operated by C.White Limited Cooling & Boiler Feed & Coal Washing & Dust Suppression.

There is one discharge consent within 250m of the site boundary located 37m southwest and is operated by North West Development Agency. The discharge type is recorded as sewage discharge.

4.3 Landfill and Pollution

There are no Historical or BGS Recorded Landfill sites located within 500m of the site.

There are no licenced waste management facilities within 500m of the site boundary.

There are no active Local Authority Pollution Prevention and Control Permits located within 500m of the site.

The Envirocheck (Ref. 2) records one potentially infilled land (non-water) recorded within 250m of the site. This feature is located 241m south and is likely associated with Cronton Colliery.

There is one record of potentially infilled land (water) recorded within 250m site. This feature is located on site and is likely the pond feature discussed in the site history section of the report.

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. 8).

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. 9), 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 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. 3).
- BGS Borehole Records (opensource website) (Ref. 5).
- Mining Remediation Authority Interactive Mapping (Opensource website) (Ref. 6)
- Mining Remediation Authority Coal Mining Consultants Report Document Ref. 51003471944001 (Appendix C) (Ref. 10)
- Good Practice for Risk Assessment for Coal Mine Gas Emissions, CL:AIRE (Ref. 12)

6.2 Geological Setting

A summary of the geological setting for the proposed development site is presented in Section 4.

An extract from BGS Mapping for the area is presented in Figure 3.

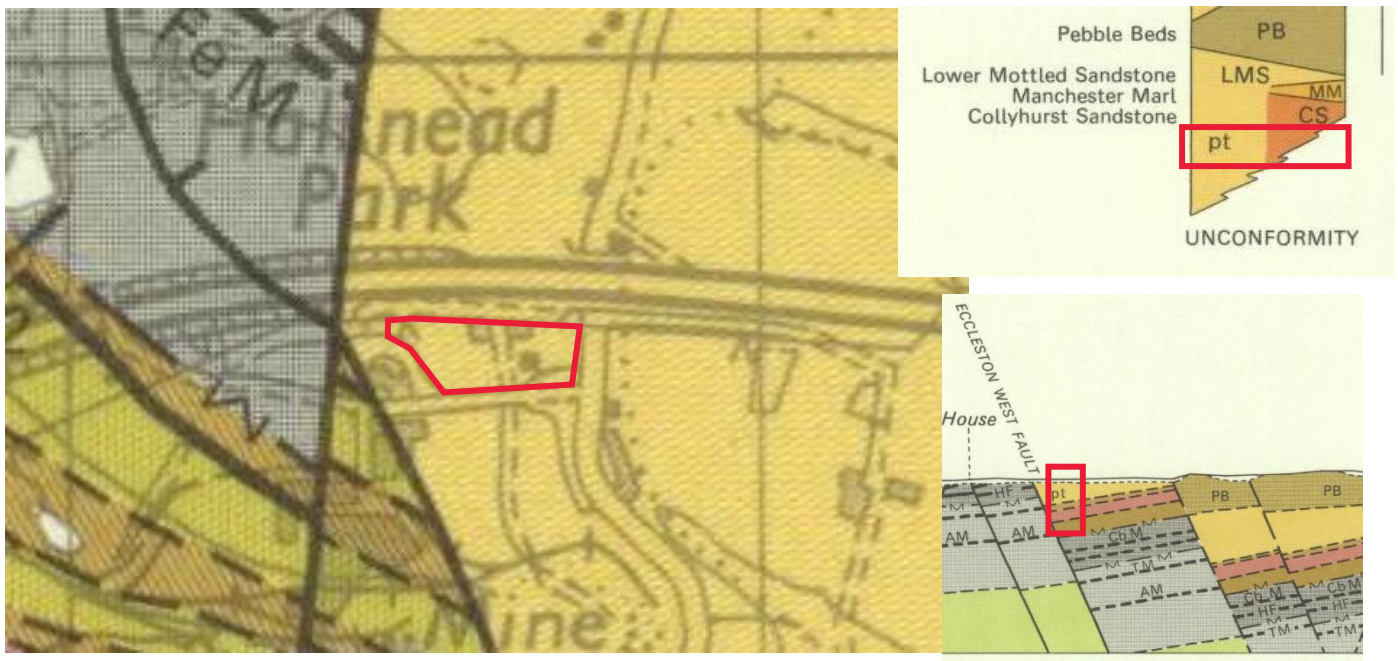


Figure 3 – (1) BGS Geological Mapping extract, 1:50,000 Runcorn (1980) Sheet 097
 (2) Extract from stratigraphic column relating to rocks underlying the site included on the right hand side.
 (3) Section showing geology.
 Approximate Site Boundary in Red.

Pennine Middle Coal Measures are recorded c. 50m west of the site on BGS Geological Mapping. A cross-section shows that coal measures are present beneath the Kinnerton Sandstone Formation bedrock underlying the site, displaced by the Eccleston West Fault.

Borehole Ref. SJ48NE624 located approximately 200m south-west, west of the Eccleston West Fault (immediately underlain by Pennine Middle Coal Measures bedrock) noted sandstone with coal measures from a depth of 30m bgl. It is likely that due to the vertical displacement caused by the Eccleston West Fault, coal measures bedrock will be located much deeper beneath this site.

6.3 Borehole Records

The nearest deep (>30m) available BGS borehole is recorded approximately 200m southwest of the site. The details of this borehole record is given in Table 7.

Table 7 - Location and strata details of relevant borehole nearby.

Record Number	Location	Details (Depth to top of strata (m bgl), Description and Thickness)	
SJ48NE624	Approx. 200m southwest (347428, 389337)	0m	Made Ground (2.00m)
		2m	Green/Brown stiff clays/hard mudstone (3.00m)
		5m	Brown clays (4.00m)
		9m	Grey clay medium hard brown mudstone (5.00m)
		14m	Medium hard brown mudstone (1.50m)
		15m	Grey clay/brown mudstone (0.50m)
		16m	Brown mudstone with siltstone (2.00m)
		18m	Hard white sandstone (2.00m)
		20m	Brown mudstone with siltstone (1.00m)
		21m	Hard grey sandstone with some coal measures (9.00m)
		30m	Hard grey sandstone (9.00m)
		39m	Medium hard black COAL (1.00m)
		40m	Hard grey sandstone (5.50m)
		45.5m	Medium hard black COAL (0.50m)
		46m	Medium soft brown/grey mudstone (68.00m)
		114m	Grey clay (2.00m)
		116m	Grey clay mudstone (4.00m)
		120m	Medium soft grey/brown mudstone (4.00m)
		124m	Medium hard black COAL (8.00m)
		132m	Medium soft grey/brown mudstone (5.00m)
		137m	Medium hard black COAL (2.00m)
		139m	Medium soft light brown mudstone (1.00m)
		140m	Medium hard black COAL (2.00m)
		142m	Medium soft grey/brown mudstone (5.00m)
		147m	Medium hard black COAL (0.5.00m)
		147.5m	Medium soft grey/brown mudstone (17.50m)
		165m	Medium hard black COAL (1.00m)
		166m	Medium soft grey/brown mudstone (17.00m)
		183m	Hard light brown sandstone (6.00m)
		189m	Higher Florida seam working (1.00m)
Borehole completed at 190.00m bgl.			

This borehole record indicates Made Ground from ground level to 2.00m bgl onto Glacial Till deposits to 9.00m bgl, with deposits indicative of Pennine Middle Coal Measures of Mudstone, Siltstone and Sandstone bedrock encountered from 9.00m bgl. Coal measures are recorded in bands throughout the bedrock with the first recorded at 21.00m bgl.

The Higher Florida seam working is recorded at 189.00m bgl. It should be noted that this borehole record is located west (the horst block) of the Ecclestone West Fault, with coal measures bedrock immediately underlying superficial soils. This is unlikely to be the sequence of stratigraphy on this site, where coal measures are underlying the Kinnerton Sandstone Formation.

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. 6) indicates the site is located within a coal mining reporting area. However, is not located within an area with past and probable shallow coal mine workings or within a Development High Risk Area, as illustrated in Figure 4.



Figure 4 – Mining Remediation Authority Recorded Development High Risk Area (Left) Highlighted in Black Hatching. Mining Remediation Authority Area of Probable Shallow Coal Mine Workings (Right) Highlighted in Purple. Site Boundary in Red.

A Mining Remediation Authority Consultants Mining Report was procured (Ref. 10) (Included within *Appendix C*). The findings are summarised below.

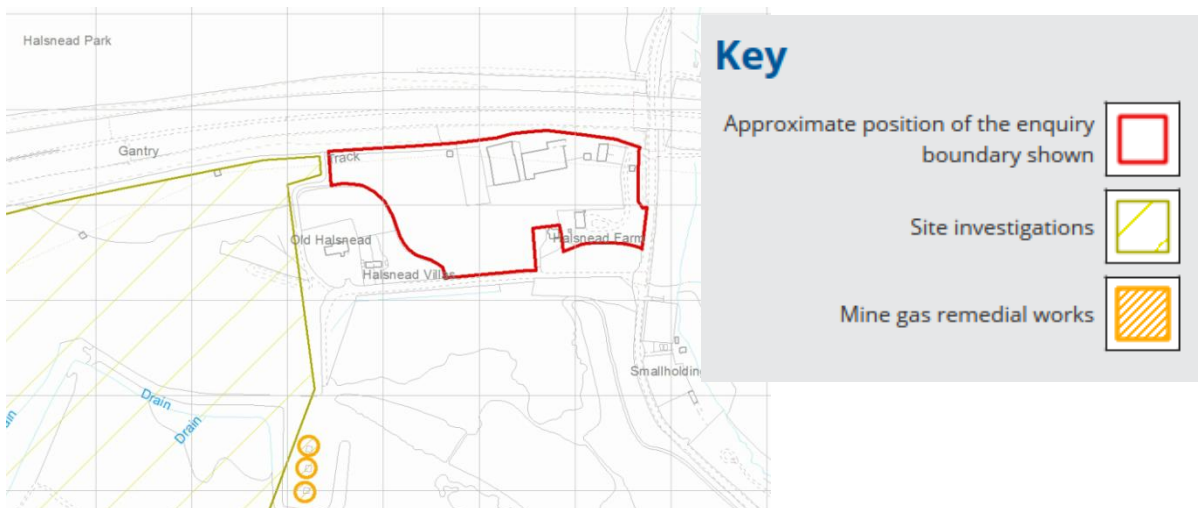


Figure 5 - Extract of Mining Remediation Authority Consultants Coal Mining Report (Ref. 51003471944001) (Box = approximate site location).

The Mining Remediation Authority Report (Ref. 10) and Figure 5 identifies three mine gas remedial works which correlates with the distances of the three mine shaft located within the historic Cronton Colliery southwest of the site.

No mine entries, coal outcrops or Probable Unrecorded Shallow Workings are noted within the Mining Remediation Authority Consultants Coal Mining Report, correlating with their interactive mapping.

The interactive map notes a Coal Outcrop approximately 150m west/south-west of the site which is recorded to be a location of probable shallow coal mine workings and is designated as a Development High Risk Area. This Coal Outcrop is noted to be located west/south-west of the site, and the dipped direction of the seam worked is to the south-west (away from site).

This Coal Outcrop is noted to be located west of the Eccleston West Fault, which vertically displaces coal measures on the downthrown side deeper beneath the Halsnead Farm site, underlying the shallower Kinnerton Sandstone Formation.

Shallow coal mining is mining that has occurred less than 30m below ground level, it is likely that coal measures are located at a depth greater than 30m bgl – therefore shallow coal mining is unlikely to pose a risk to the site.

6.4.1 Outcrops On Site and Past Underground Coal Mining

No outcrops are recorded onsite.

Past underground coal mining is recorded beneath the site within the Rushy Park seam, noted to be at a depth of 397m bgl.

The Coal Authority Consultants Coal Mining Report has confirmed several records of past underground mining both beneath the development site and within the surrounding area, details of which are summarised below in Table 8.

Table 8 – Underground Mining Records

Seam	Coal Authority Ref	Depth (m)	Direction to Working	Dipping Rate of Seam Worked (Degrees)	Dipping Direction of Seam	Extraction Thickness (cm)
RAMS	3033	128	West	12.7	Southwest	180
Higher Florida	3036	131	West	8.5	Southwest	180
Higher Pigeon House	303T	185	West	8.5	Southwest	140
Higher Florida	3039	216	South	12.8	Southwest	180
Rushy Park	304M	397	Beneath Property	10.9	Southwest	130
Rushy Park	304L	435	North	13.4	Southwest	130
Rushy Park	304N	449	Southeast	9.6	Southwest	130

There is only 1 No. record of underground mining beneath the site, located at a depth of 397m below ground level within the Rushy Park Seam, noted to have an extraction thickness of 130cm. In the event of coal mine workings collapse, there is sufficient rock cover above this worked seam which would prevent any subsidence propagating to the ground surface and affecting any future development at the site. Therefore, the risk posed by deep coal mining workings is considered low.

6.4.2 Mine Entries

There are no mine entries recorded within 100m of the site boundary.

Mining Remediation Authority Interactive mapping records three mine entries located approximately 250m south of the site which is associated with the historic Cronton Colliery located 200m from the southern site boundary.

6.4.3 Mine Gas

The site is located within an area of previous interest, as it is close to a site where the Mining Remediation Authority has received previous site investigation information. The Mining Remediation Authority has also investigated and subsequently remediated the effects of mine or ground gas emission following reported hazards, located between 216m and 257m south-west of the site. These mine gas incidents/subsequent remediation locations are likely related to the colliery located c. 200m south of the site, it is sensible to suggest this would not affect the site given the change

in geology onsite (due to vertical displacement by the Ecclestone West Fault) and the expected depth of coal mine workings (397m beneath the site) and any subsequent mine gases associated with these workings.

The Consultants Coal Mining report states that the site requires further investigation and that a Coal Authority Mine Gas Emission Report is recommended to be obtained for further information about the hazard.

The Knowsley Council Planning Portal has confirmed that grouting and Mine Shaft Treatment Works have been undertaken within the historic Cronton Colliery (Condition 41, report ref. TE1789-TE-00-XX-RP-GE-002-V01), noting the Mine Shafts have been grouted. In addition, any underlying cohesive non-porous deposits within the anticipated Glacial Till superficial soils will reduce the risk of mine gases. It is considered very unlikely that following the grouting treatment and with the geology beneath site that migration of mine gases from these remediated areas would be able to migrate onto site.

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. Spontaneous combustion is noted in the Higher, Florida, Lower Florida and Trencherbone seams which are not noted to be present beneath the site.

6.4.4 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.

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 CMRA Conclusions and Recommendations

The Coal Mining Risk Assessment has been prepared with reference to the proposed development of site, understood to consist of 88 modular residential units at land at Halsnead Farm.

The site is not identified within a Development High Risk Area however an assessment of available data suggests it is likely that there are probable unrecorded shallow workings are beneath the site. A summary of the mining risks pertaining to the development site is summarised in Table 9.

Table 9 - Summary of Mining Risks

Scenario	Hazard Rating	Likelihood	Risk	Comments	Proposed Action
Deep Mining (Shafts)	Medium	Low likelihood	Low	3 No. mine entries are recorded approximately between 216m and 257m south-west of the site boundary however these were treated in January 2025.	No further action required.
Deep Mining (Voids, broken ground)	Medium	Low likelihood	Low	The Mining Remediation Authority records deep coal mining (>30m bgl) within the Rushy Park Seam noted to be located 397m bgl, with an extraction thickness of 130cm. There is sufficient rock cover above this worked seam which would prevent any subsidence propagating to the ground surface and affecting any future development at the site. Therefore, the risk posed by deep coal mining workings is considered low.	
Shallow Mining (Voids, broken ground)	Medium	Likely	Low	Review of the Mining Remediation Authority Interactive Map and Consultants Mining Report does not indicate any past shallow coal mine workings (<30m bgl) beneath the site, or any probable shallow coal mine workings beneath the site. A review of BGS mapping records and borehole logs indicates that the nearest recorded coal outcrop is located approximately 150m west/south-west of the site, which is noted to be dipping south-west away from the site. This Coal Outcrop is noted to be located west of the Ecclestone West Fault, which vertically displaces coal measures on the downthrown side deeper beneath the Halsnead Farm site, underlying the shallower Kinnerton Sandstone Formation. The Cronton Colliery was located approximately 200m south of the site. Knowsley Council Planning Portal records confirm that this site has been treated via grouting on a grid basis, and 3 No. mine shafts were treated..	No further action required.
Mine Gases	Medium	Likely	Low	The Mining Remediation Authority Consultants Mining Report suggests the site is within an area of previous interest in regard to mine gas remedial works with the presence of mine gases within 500m of the site with 3 No. of gas incidents/remediation recorded from the historic colliery located 200m southwest of the site. These three shafts have been treated within a coal mining ground investigation in January 2025. It is considered unlikely that following treatment of the Cronton Colliery, and the anticipated cohesive Glacial Till deposits beneath site, that migration of mine gases from known coal mine workings onto site will occur.	Ground Investigation is unlikely to penetrate Pennine Coal Measures bedrock given the proposed development (Residential), however, ground gas monitoring wells should be installed during intrusive works.
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.	No further action required.

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*.

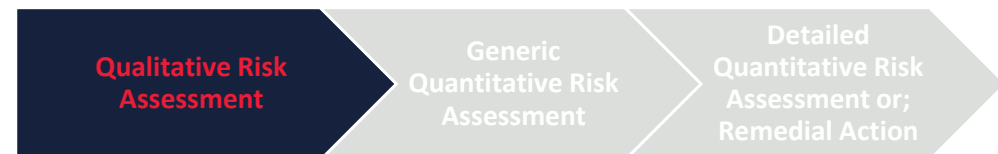
The 'risk rating' within the QRA refers to the risk that the source, pathway, receptor linkage or PPL is complete. Unless specifically stated it does not necessarily refer to an immediate risk and is intended to be used as a tool to assess the necessity for further assessment/investigation.

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.
- 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. 11) 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 from uncontrolled deposition of materials onsite during the construction of the Farmhouse and agricultural buildings. • Buildings were constructed and maintained during a period when asbestos containing materials may have been used, and may be encountered in Made Ground soils, as well as existing building materials Off-site Sources of Potential Contamination: • Uncontrolled deposition of Made Ground during nearby construction works associated with the M62 motorway, Colliery and Mineral Railway line.	Direct contact, ingestion, inhalation (dust and vapours)	End user of site	Medium <i>Chronic health risk</i>	Low Likelihood Based on the age of structures present on site Asbestos Containing Materials (ACMs) may be present in site soils. Development proposals include the construction of up to 90 dwellings, the presence of hardstanding will break the source pathway receptor linkage for direct contact. Limited potential vapour sources identified.	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) Principal Aquifer associated with the bedrock deposits. Site is located within a Zone 3 Source Protection Zone No potable groundwater abstraction within 500m of the site.	Medium <i>Pollution of sensitive water resources</i>	Unlikely Although there is a Principal Aquifer below the site within the Kinnerton Sandstone Formation, BGS records glacial till deposits underlying the site containing cohesive soils which would limit the potential for vertical migration of contaminants of concern. Therefore breaking the source-pathway-receptor linkage.	Low	Ground Investigation. Should evidence of gross contamination be identified during the ground investigation, groundwater samples should be obtained to reassess the potential risks to groundwater
	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) Unnamed river located 37m southwest.	Medium <i>Pollution of sensitive water resources</i>	Unlikely Limited potential sources of groundwater contamination, generally potential localised sources. Shallow ground conditions anticipated to include cohesive soils, limiting the potential for horizontal migration of potential contamination within shallow Made Ground Soils.	Low	Ground Investigation. Should evidence of gross contamination be identified during the ground investigation, groundwater samples should be obtained to reassess the potential risks to the nearby river.
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. • Potential for ground gas due to infilled pond noted on historical mapping. • Mine gas sourced within potential unrecorded mine workings close to the site.	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. Potential for ground gas generation in the area of infilled pond. Ground gas emissions from mine workings beneath the site are unlikely due to recent grouting treatments of nearby site and mine shafts.	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 varied 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:

- Undertake an intrusive ground investigation to collect chemical and geotechnical samples to inform human health risk assessment and geotechnical assessment.
- Install monitoring wells to allow for monitoring sub-surface conditions, including ground gas and groundwater monitoring.
- Where evidence of gross contamination or groundwater contamination is identified, groundwater samples may be required to further assess the risk to human health or controlled waters.
- 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 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; PCBs in close proximity to the sub-station, 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.

8.2 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).
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10. Mining Remediation Authority (2024) Coal Mining Consultants Report (Report Ref. 51003471944001)
11. Health and Safety Executive (2015) Construction (Design and Management) Regulations.
12. CL:AIRE (2021) Good practice for risk assessment for coal mine gas emissions. (ISBN: 978-1-905046-39-3).

10 APPENDICES

Appendix A – Drawings

Appendix B – Envirocheck Report

Appendix C – Mining Remediation Authority Records

Appendix D – Qualitative Risk Assessment Rationale

Appendix A – Drawings



Appendix B – Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

366631170_1_1

Customer Reference:

087052

National Grid Reference:

347620, 389610

Slice:

A

Site Area (Ha):

3.43

Search Buffer (m):

1000

Site Details:

Halsnead Farm, Foxs Bank Lane

Whiston

PRESCOT

L35 3SU

Client Details:

Mr R Taylor

Curtins Consulting Ltd

Merchant Exchange

17-19 Whitworth Street West

Manchester

M1 5WG

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Data Currency	63
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Introduction

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

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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		1	8	11
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7		Yes		
Pollution Incidents to Controlled Waters	pg 7		1		8
Historical Prosecutions					
Registered Radioactive Substances					
Substantiated Pollution Incident Register					
Water Abstractions	pg 9			1	2 (*29)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 17	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 17	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Source Protection Zones	pg 17	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 18		8	37	185
Water Framework Directive - Catchment	pg 43	Yes			Yes
Water Framework Directive - Groundwater	pg 43	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)	pg 45				1
Licensed Waste Management Facilities (Locations)	pg 45				1
Local Authority Landfill Coverage	pg 45	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 45		1		4
Potentially Infilled Land (Water)	pg 45	1		1	3
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 47	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 47	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 55		1	2	9
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 57	Yes	n/a	n/a	n/a
Mining Instability	pg 57	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 57	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 58	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 58	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 58	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 58	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 58	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 59				4
Fuel Station Entries					
Points of Interest - Commercial Services	pg 59				2
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 59	2		3	5
Points of Interest - Public Infrastructure	pg 60		1		5
Points of Interest - Recreational and Environmental	pg 60				3
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	pg 62			1	1
Areas of Adopted Green Belt	pg 62		2		
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 62	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	0	1	347616 389611
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	44	1	347400 389650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	50	1	347400 389600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	63	1	347400 389700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	70	1	347450 389550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	105	1	347400 389750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	145	1	347300 389611
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	186	1	347500 389350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	244	1	347200 389650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	249	1	347400 389900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	313	1	347200 389850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	323	1	347616 390000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	344	1	347450 390000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	345	1	347100 389611
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	346	1	347100 389600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	364	1	347400 389200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	379	1	347500 389150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	379	1	347300 389250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	383	1	347150 389900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	391	1	347450 389150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	393	1	347450 390050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	401	1	347150 389350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	404	1	347200 389300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	424	1	347600 389100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	429	1	347500 389100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	439	1	347100 389350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	439	1	347450 389100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	449	1	347250 389200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	453	1	347150 390000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	453	1	347100 389950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (W)	467	1	347000 389800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	474	1	347150 389250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	497	1	347400 390150
1	Discharge Consents Operator: North West Development Agency Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Halsnead Properties Cronton Colliery (Disused), Cronton Road, Knowsley, Merseyside Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 016993406 Permit Version: 1 Effective Date: 30th May 2001 Issued Date: 30th May 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Foxes Bank Brook (Trib Of) Receiving Water: Foxes Bank Brook (Trib Of) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	37	2	347530 389510
2	Discharge Consents Operator: English Partnerships Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Cronton Colliery Cronton Road, Cronton, Near Widnes, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990204 Permit Version: 3 Effective Date: 2nd October 1991 Issued Date: Not Supplied Revocation Date: 26th October 2015 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Foxes Bank Brook Receiving Water: Foxes Bank Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A8NW (S)	379	2	347500 389150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: English Partnerships Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Cronton Colliery Cronton Road, Cronton, Near Widnes, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016990204 Permit Version: 1 Effective Date: 1st June 1980 Issued Date: Not Supplied Revocation Date: 8th August 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NW (S)	379	2	347500 389150
2	Discharge Consents Operator: English Partnerships Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Cronton Colliery Cronton Road, Cronton, Near Widnes, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016990204 Permit Version: 2 Effective Date: 9th August 1991 Issued Date: Not Supplied Revocation Date: 1st October 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8NW (S)	379	2	347500 389150
2	Discharge Consents Operator: Balfour Beatty Civil Eng. Ltd Property Type: MINING OF COAL + LIGNITE Location: Cronton Colliery Treatment Plant Cronton Road, Cronton, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016992597 Permit Version: 1 Effective Date: 28th January 1994 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Ditton Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Manually corrected supplier location	A8NW (S)	384	2	347500 389145
3	Discharge Consents Operator: Land Restoration Trust Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Park Villa Properties Cronton Colliery (Disused), Cronton Road, Cronton, Knowsley Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993405 Permit Version: 3 Effective Date: 1st September 2006 Issued Date: 27th February 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook (Trib Of) Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (S)	445	2	347720 389090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: North West Development Agency Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Park Villa Properties Cronton Colliery (Disused), Cronton Road, Cronton, Knowsley Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993405 Permit Version: 2 Effective Date: 4th December 2003 Issued Date: 4th December 2003 Revocation Date: 31st August 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook (Trib Of) Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A8NE (S)	445	2	347720 389090
3	Discharge Consents Operator: North West Development Agency Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Park Villa Properties Cronton Colliery (Disused), Cronton Road, Cronton, Knowsley Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016993405 Permit Version: 1 Effective Date: 30th May 2001 Issued Date: 30th May 2001 Revocation Date: 3rd December 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook (Trib Of) Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NE (S)	445	2	347720 389090
4	Discharge Consents Operator: English Partnerships Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Hanshead Cottages Cronton Colliery, Cronton, Near Widnes, Cheshire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016890810 Permit Version: 1 Effective Date: 5th September 1986 Issued Date: Not Supplied Revocation Date: 19th May 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	491	2	347850 389070
5	Discharge Consents Operator: Liverpool Sun And Air Society Limited Property Type: HOLIDAY ACCOM/CAMP SITE/CARAVAN SITE/HOTEL/HOSTEL Location: Liverpool Sun And Air Society Sunnyside, Fox'S Bank Lane, Whiston, Prescot, Merseyside, L35 3st Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Eprhb3396ee Permit Version: 1 Effective Date: 26th February 2018 Issued Date: 26th February 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Fox'S Bank Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	520	2	348088 389144

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: National Coal Board (North West Division) Property Type: MINING OF COAL + LIGNITE Location: Cronton Colliery Te, Whiston, Near Prescot, Merseyside Authority: Environment Agency, North West Region Catchment Area: Dibbinsdale Brook Reference: 0165/38 Permit Version: 2 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fox'S Bank Brook Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	537	2	347278 389070
7	Discharge Consents Operator: Tritax Symmetry Merseyside 1 Ltd Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Unit 1 Former Cronton Colliery, Cronton Road, Knowsley, L35 1qr Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Eprwb3499rl Permit Version: 1 Effective Date: 28th June 2023 Issued Date: 28th June 2023 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fox'S Bank Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	543	2	347186 389131
8	Discharge Consents Operator: National Coal Board Western Area Property Type: MINING OF COAL + LIGNITE Location: Cronton Colliery Spoil Heaps Cronton Road, Prescot, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990205 Permit Version: 1 Effective Date: 1st June 1980 Issued Date: Not Supplied Revocation Date: 25th February 1988 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	719	2	346950 389100
8	Discharge Consents Operator: National Coal Board Western Area Property Type: MINING OF COAL + LIGNITE Location: Cronton Colliery Spoil Heaps Cronton Road, Prescot, Liverpool, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 016990205 Permit Version: 2 Effective Date: 26th February 1988 Issued Date: Not Supplied Revocation Date: 23rd March 1991 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Foxes Bank Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	719	2	346950 389100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Unknown Operator Property Type: Not Given Location: 3 Dwellings At High Carrs Roby Road , Huyton , KNOWSLEY Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016993250-01 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Septic tank Discharge: Freshwater Stream/River Environment: Receiving Water: Treated Sewage Effluent; Outlet To Watercourse; Tributary Ditton Brook Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	741	2	348340 390130
10	Discharge Consents Operator: Mr Robin Seddon Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Shirebrook Fox'S Bank Lane, Rainhill, ., Merseyside, L35 3ss Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Eprbb3795af Permit Version: 1 Effective Date: 7th November 2014 Issued Date: 7th November 2014 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Fox'S Bank Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	789	2	348235 390295
11	Discharge Consents Operator: Maro Developments Limited Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Mercury 62 Cronton Road, Tarbock, Prescot, Merseyside, L35 1qr Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: Eprzb3692vp Permit Version: 1 Effective Date: 5th February 2024 Issued Date: 5th February 2024 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Chapel Brook Status: New issued under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	890	2	346623 389282
12	Discharge Consents Operator: A Molyneux Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: 102 Blundells Lane Stp, Rainhill, Merseyside Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 016990254 Permit Version: 1 Effective Date: 9th January 1981 Issued Date: Not Supplied Revocation Date: 8th March 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Mill Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	920	2	348300 390410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Laing O'Rourke Infrastructure Limited Property Type: Undefined Or Other Location: Laing O'Rourke Infrastructure Ltd M62 Jnt6 Improvment Office, Windy Arbour Road, Tarbock, Merseyside, L35 1rb Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: 016993930 Permit Version: 1 Effective Date: 3rd May 2007 Issued Date: 3rd May 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Logwood Mill Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A11SE (W)	951	2	346500 389520
14	Discharge Consents Operator: Miss Sheila Berry Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 2 Properties At Carr House Windy Arbour Road, Whiston, Merseyside, Merseyside, L35 1br Authority: Environment Agency, North West Region Catchment Area: Ditton Brook Reference: Npswqd005904 Permit Version: 1 Effective Date: 28th January 2009 Issued Date: 28th January 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Groundwaters Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A11NE (W)	990	2	346467 389815
	Nearest Surface Water Feature	A13SE (S)	19	-	347622 389509
15	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: Cromer Road, Northwood, HANLEY Authority: Environment Agency, Midlands Region Pollutant: Rubble/Litter Or Solids Note: Caldon Canal; Dumping On Canal Banks Some Going To Watercourse Incident Date: 4th May 1999 Incident Reference: 2705747 Catchment Area: Trent Catchment : Upper Trent Receiving Water: Canal Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (E)	141	2	347900 389500
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Domestic Waste & Rubbish Incident Date: 12th January 1993 Incident Reference: 93440004 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SE (NE)	555	2	347900 390200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Big Water Incident Date: 3rd February 1992 Incident Reference: 92440022 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	562	2	347001 390001
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Foxes Bank Brook Incident Date: 25th September 1994 Incident Reference: 94742144 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NE (SW)	613	2	347000 389200
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Tributary Dog Clogg Brk Incident Date: 11th November 1993 Incident Reference: 93440152 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SW (S)	824	2	347600 388700
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Blood And Offal Note: Foxes Bank Brook Incident Date: 14th May 1991 Incident Reference: 91440028 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	830	2	346800 389100
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Fox's Bank Brook Incident Date: 20th August 1992 Incident Reference: 92440116 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	831	2	348600 389500
22	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident In Transit Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Foxes Bank Brook Incident Date: 22nd October 1993 Incident Reference: 93440133 Catchment Area: Ditton Brook Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	832	2	348600 389700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Agriculture: Other Tanks - [Fixed] Location: Mellars Pool Off, Windy Arbou Authority: Environment Agency, North West Region Pollutant: Metals & Scrap : Other Note: Not Supplied Incident Date: 28th March 1999 Incident Reference: 1248 Catchment Area: Mersey - Tidal Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NW (NW)	844	2	346900 390300
24	Water Abstractions Operator: C.White Limited Licence Number: 2569028002 Permit Version: Not Supplied Location: Reservoir Fed By Fox's Bank Brook, Cronton Colliery, Whiston, LIVERPOOL Authority: Environment Agency, North West Region Abstraction: Cooling & Boiler Feed & Coal Washing & Dust Suppression Abstraction Type: Not Supplied Source: River Daily Rate (m3): 1309 Yearly Rate (m3): 454600 Details: Additional Purposes: Boiler feed; Coal washing; Dust suppression; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	419	2	347300 389200
25	Water Abstractions Operator: C.White Limited Licence Number: 2569028015 Permit Version: Not Supplied Location: Chapel Brook, Cronton Colliery, Merseyside Authority: Environment Agency, North West Region Abstraction: Mining Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1964 Yearly Rate (m3): 227300 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	874	2	346600 389400
26	Water Abstractions Operator: T H Critchley & Son Licence Number: 2569028018 Permit Version: 100 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescott Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 6 Yearly Rate (m3): 2098 Details: Tarbock Hall Farm, Tarbock, Prescott, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	993	2	346600 389100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 103 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Raonhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 103 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Rainhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th November 2018 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 102 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Raonhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 102 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Rainhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 101 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Raonhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 101 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Rainhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 19th February 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 100 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 192 Yearly Rate (m3): 21967 Details: Land & Premises At Blundells Hill Golf Club, Raonhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th September 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340
	Water Abstractions Operator: Blundells Hill Golf Club Ltd Licence Number: 2569028021 Permit Version: 100 Location: B/Hole At Blundells Hill Golf Club, Blundells Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Blundells Hill Golf Club, Rainhill, Nr. St. Helens Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th September 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19NE (NE)	1037	2	348550 390340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Belpool Developments Ltd Licence Number: 2569028018 Permit Version: 102 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescott Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Tarbock Hall Farm, Tarbock, Prescott, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st January 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	1461	2	346400 388600
	Water Abstractions Operator: Belpool Developments Ltd Licence Number: 2569028018 Permit Version: 101 Location: Ochre And Dog Clog Brooks Tarbock Hall Farm Prescott Authority: Environment Agency, North West Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 6 Yearly Rate (m3): 2098 Details: Tarbock Hall Farm, Tarbock, Prescott, Merseyside Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2005 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	1461	2	346400 388600
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1620	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024r01 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2015 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1620	2	347880 387926

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1620	2	347880 387926
	Water Abstractions Operator: Mr C S Morphet Licence Number: 2569028024 Permit Version: 2 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1620	2	347880 387926
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1626	2	347880 387920
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028024 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Private Water Undertaking: Water Bottling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Tan House Farm, Cronton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd December 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1626	2	347880 387920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: C S Morphet & Sons Ltd Licence Number: 2569028023 Permit Version: 1 Location: Borehole At Alder Lane, Cronton, Widnes Authority: Environment Agency, North West Region Abstraction: Slaughtering: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land At Alder Lane, Cronton, Widnes Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th March 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1626	2	347880 387920
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028008 Permit Version: 100 Location: 2 Wells + Connecting B/Holes, Cumber La, Whiston, Merseyside Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2046 Yearly Rate (m3): 746680 Details: Wells And Connected Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1671	2	348100 391300
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Childwall Mill And Dog Clog Brks, Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Licence Status : Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1724	2	347600 387800
	Water Abstractions Operator: T & O Harrison Licence Number: 2569028017 Permit Version: Not Supplied Location: Mill And Dog Clog Brks Attarbock, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Childwall Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SW (SW)	1752	2	346700 388000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Elis Uk Limited Licence Number: 2569028020 Permit Version: 104 Location: Borehole At Stoney Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Stoney Lane, Rainhill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th June 2024 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1769	2	348100 391400
	Water Abstractions Operator: Elis Uk Limited Licence Number: 2569028020 Permit Version: 103 Location: Borehole At Stoney Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Stoney Lane, Rainhill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1769	2	348100 391400
	Water Abstractions Operator: Berendsen Uk Limited Licence Number: 2569028020 Permit Version: 102 Location: Borehole At Stoney Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Stoney Lane, Rainhill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd July 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1769	2	348100 391400
	Water Abstractions Operator: The Sunlight Services Group Ltd Licence Number: 2569028020 Permit Version: 101 Location: Borehole At Stoney Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises At Stoney Lane, Rainhill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th October 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1769	2	348100 391400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Spring Grove Services Ltd Licence Number: 2569028020 Permit Version: 100 Location: Borehole At Stoney Lane, Rainhill Authority: Environment Agency, North West Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 545 Yearly Rate (m3): 118182 Details: Land & Premises At Stoney Lane, Rainhill Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1769	2	348100 391400
	Water Abstractions Operator: United Utilities Water Ltd Licence Number: 2569028011 Permit Version: 101 Location: B/Holes (2) At Water La Pumping Station, Whiston, Merseyside Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1840	2	346700 387900
	Water Abstractions Operator: United Utilities Water Plc Licence Number: 2569028011 Permit Version: 100 Location: B/Holes (2) At Water La Pumping Station, Whiston, Merseyside Authority: Environment Agency, North West Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 11400 Yearly Rate (m3): 1750000 Details: Boreholes (2) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1973 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1840	2	346700 387900
	Water Abstractions Operator: R A Humphries Licence Number: 2569028019 Permit Version: Not Supplied Location: Dog Clog Brook, Marklands Farm, Tarbock Green, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 255 Yearly Rate (m3): 5910 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1843	2	347300 387700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: R A Humphries Licence Number: 2569028019 Permit Version: Not Supplied Location: Dog Clog Brook, Marklands Farm, Tarbock Green, PRESCOT, Merseyside Authority: Environment Agency, North West Region Abstraction: Agricultural Spray Irrigation (Summer) Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 255 Yearly Rate (m3): 5910 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1SE (SW)	1980	2	346300 388000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13NE (NE)	0	3	347616 389611
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: >70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13NE (E)	0	3	347748 389611
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A13NE (NE)	0	3	347616 389611
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (E)	0	3	347748 389611
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13NE (NE)	0	3	347616 389611
27	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.	A13NE (NE)	0	2	347616 389611
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (S)	19	4	347622 389509
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 126.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (E)	44	4	347815 389562
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (SE)	53	4	347810 389519
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 616.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (SE)	53	4	347810 389519
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 100.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13NE (E)	58	4	347825 389643
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 228.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SE (SE)	62	4	347820 389519
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 305.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13NE (NE)	103	4	347825 389744
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SW (SW)	234	4	347377 389374

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SW (SW)	275	4	347315 389378
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A13SW (SW)	275	4	347315 389378
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (E)	277	4	348041 389500
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	283	4	347502 389248
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	286	4	347502 389245
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 85.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	291	4	347502 389239
42	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A14NW (NE)	308	4	348003 389858
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SE (SW)	314	4	347196 389430
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A14NW (NE)	318	4	348009 389865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 253.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	318	4	347629 389209
46	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 8.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	323	4	348028 389850
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 267.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SE (W)	327	4	347163 389455
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SW (N)	328	4	347582 389997
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	331	4	348032 389857
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SE (SW)	339	4	347170 389424
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	342	4	348024 389886
52	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 25.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A18SE (N)	343	4	347672 390020
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 693.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	356	4	347997 389930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	356	4	347997 389930
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	366	4	347523 389160
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	374	4	347519 389153
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NW (S)	380	4	347516 389147
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8NE (S)	388	4	347732 389150
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SW (E)	394	4	348158 389493
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NE (SE)	467	4	347844 389093
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NE (SE)	467	4	347844 389093
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (NE)	481	4	348202 389864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NE (SE)	481	4	347875 389085
64	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	485	4	348225 389821
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 174.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NE (SE)	489	4	347882 389079
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	490	4	347267 389135
67	OS Water Network Lines Watercourse Form: Transfer Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: False Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	490	4	347267 389135
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	491	4	347264 389136
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	495	4	347256 389138
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 149.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	498	4	347250 389138
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 605.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NE (S)	498	4	347784 389049

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	499	4	348228 389851
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	501	4	348239 389828
74	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 37.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	501	4	347056 389972
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 94.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	503	4	347211 389162
76	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	504	4	348241 389832
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	505	4	348235 389848
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	505	4	348235 389848
79	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 194.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Big Water Catchment Name: Ditton Primacy: 1	A12NE (W)	506	4	346972 389836
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SE (SW)	509	4	347079 389267

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A8NW (SW)	509	4	347337 389069
82	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	521	4	348274 389781
83	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	524	4	348269 389808
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SE (SW)	526	4	347055 389269
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	526	4	347009 389950
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	526	4	347014 389957
87	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	527	4	347054 390009
88	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 150.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	527	4	347054 390009
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	528	4	348268 389826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	528	4	348268 389826
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	528	4	348280 389783
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	528	4	347029 389982
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	529	4	347025 389977
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	530	4	348273 389817
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	533	4	348276 389819
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	533	4	348284 389788
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	535	4	348286 389790
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	543	4	348291 389802

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	545	4	348294 389800
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 166.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	547	4	348296 389798
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 103.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NW (E)	548	4	348284 389842
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	548	4	346905 389755
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	556	4	346894 389735
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NW (SE)	560	4	348016 389052
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	562	4	347990 389038
106	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	565	4	347121 389158
107	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	566	4	347107 389167

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	569	4	348103 389093
109	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	570	4	347109 389161
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NW (SE)	571	4	348105 389092
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NW (SE)	571	4	348105 389092
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	572	4	346872 389656
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12NW (W)	572	4	346872 389656
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	574	4	347109 389156
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 193.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	585	4	347105 389145
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NW (SE)	589	4	348141 389098

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NW (SE)	595	4	348153 389100
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	624	4	348386 389458
119	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	635	4	346819 389517
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	635	4	347042 390146
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 330.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	636	4	347972 388952
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9NW (SE)	636	4	347972 388952
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	638	4	346817 389511
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	646	4	346807 389525
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	648	4	348417 389685

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	648	4	348417 389685
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A17SE (NW)	653	4	347043 390170
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	666	4	346969 389155
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	667	4	346817 389401
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	673	4	346800 389430
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	673	4	346795 389449
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	678	4	346791 389447
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	680	4	346991 389114
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.0 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	682	4	346968 389134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	682	4	346787 389445
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	682	4	348429 389823
137	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 18.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (NE)	683	4	348392 389935
138	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 22.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	689	4	348433 389836
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 66.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	694	4	348468 389630
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	695	4	346775 389440
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	696	4	348393 389962
142	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	697	4	348461 389722
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	698	4	346965 389115

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	701	4	346961 389114
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	701	4	348407 389946
146	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 42.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	705	4	348413 389944
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	706	4	346949 389118
148	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 14.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	713	4	348445 389879
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NE (SW)	717	4	346943 389110
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	719	4	348445 389899
151	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 19.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	719	4	348446 389895
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	724	4	348458 389876

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 150.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	730	4	348504 389574
154	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	730	4	348462 389882
155	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	736	4	348465 389892
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	741	4	348468 389897
157	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 25.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	746	4	348473 389902
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	749	4	346933 389074
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 378.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A9NE (SE)	754	4	348350 389074
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	758	4	346714 389424
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	761	4	346909 389081

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	772	4	348496 389913
163	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 23.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	774	4	348533 389769
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A14SE (E)	774	4	348533 389432
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	776	4	348535 389766
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NE (SW)	782	4	347020 388958
167	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: Ditton Primacy: 1	A19SE (NE)	784	4	348354 390180
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	785	4	348497 389949
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	787	4	348497 389953
170	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	793	4	348561 389700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	801	4	346880 389053
172	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 30.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	801	4	348516 389943
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	801	4	348516 389942
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	813	4	348509 389992
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	816	4	348510 389997
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	817	4	346864 389048
177	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	818	4	346657 389404
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	818	4	346657 389404
179	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	819	4	348555 389882

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	820	4	348557 389879
181	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	820	4	348527 389967
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	821	4	346860 389046
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 417.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SW (S)	827	4	347282 388747
184	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SE (SE)	832	4	348290 388906
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	833	4	348543 389962
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (E)	834	4	348545 389961
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 453.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A14SE (E)	843	4	348589 389357
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 317.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	845	4	348114 388783

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SE (SE)	847	4	348299 388893
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A14SE (E)	847	4	348605 389420
191	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A14SE (E)	847	4	348605 389420
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	851	4	348611 389428
193	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14SE (E)	851	4	348611 389428
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A7NW (SW)	855	4	346922 388945
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 271.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Fox's Bank Brook Catchment Name: Ditton Primacy: 1	A7NW (SW)	855	4	346831 389027
196	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	855	4	346831 389027
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A12SW (W)	857	4	346660 389279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 266.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7NW (SW)	858	4	346822 389031
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (S)	866	4	347965 388711
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19SE (NE)	866	4	348533 390064
201	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 21.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	871	4	348595 389931
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	884	4	348280 388832
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	886	4	348279 388830
204	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 152.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Chapel Brook Catchment Name: Ditton Primacy: 1	A12SW (W)	886	4	346617 389308
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	890	4	348038 388706
206	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 102.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A14NE (E)	890	4	348616 389929

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 111.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A14NE (E)	890	4	348616 389929
208	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Chapel Brook Catchment Name: Ditton Primacy: 1	A7NW (W)	895	4	346627 389258
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 139.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Chapel Brook Catchment Name: Ditton Primacy: 1	A11SE (W)	906	4	346568 389395
210	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (S)	912	4	348003 388673
211	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SE (S)	912	4	347655 388616
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	913	4	348265 388788
213	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	917	4	348263 388782
214	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ochre Brook Catchment Name: Ditton Primacy: 1	A7NW (W)	920	4	346627 389202
215	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	922	4	348268 388779

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 244.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A9SW (SE)	927	4	348273 388776
217	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	928	4	347190 388675
218	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 10.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	929	4	347174 388681
219	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	930	4	347151 388691
220	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 16.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	931	4	347152 388689
221	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SE (S)	934	4	347935 388635
222	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: Ditton Primacy: 1	A11SE (W)	934	4	346552 389352
223	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SE (S)	935	4	347680 388595
224	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SE (S)	935	4	347680 388595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	935	4	347164 388679
226	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 11.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15SW (E)	935	4	348686 389372
227	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A8SE (S)	940	4	347676 388590
228	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	944	4	347176 388664
229	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15SW (E)	945	4	348696 389365
230	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	950	4	347164 388663
231	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15NW (E)	950	4	348718 389710
232	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: Ditton Primacy: 1	A15NW (E)	951	4	348719 389708
233	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15NW (E)	951	4	348722 389688

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15NW (E)	951	4	348722 389688
235	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	953	4	347763 388584
236	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 144.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	954	4	347766 388583
237	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	954	4	347766 388583
238	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 66.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	955	4	347765 388582
239	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15SW (E)	959	4	348708 389360
240	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A6NE (W)	963	4	346562 389237
241	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A15NW (E)	966	4	348706 389887
242	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15SW (E)	967	4	348739 389527

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	968	4	347121 388664
244	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	969	4	347117 388664
245	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 27.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	969	4	347117 388664
246	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A7SE (SW)	970	4	347118 388663
247	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Chapel Brook Catchment Name: Ditton Primacy: 1	A11SE (W)	974	4	346479 389502
248	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NW (S)	975	4	347302 388585
249	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NW (S)	977	4	347306 388582
250	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	979	4	347669 388550
251	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: Ditton Primacy: 1	A15SW (E)	979	4	348752 389533

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A15SW (E)	982	4	348755 389535
253	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19NW (NE)	985	4	348278 390502
254	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 153.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A19NW (NE)	988	4	348274 390508
255	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 161.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A10NW (E)	991	4	348716 389259
256	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 20.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 2	A15NW (E)	996	4	348740 389869
257	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ditton Primacy: 1	A3NE (S)	997	4	347663 388531
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Prescott Brook (Logwood Mill Brook) WaterBody ID: GB112069060710 Operational Catchment: Ditton Management Catchment: Mersey Lower Catchment Name: Lower Mersey	A13NE (NE)	0	2	347616 389611
	Water Framework Directive - Catchment Class Code: River Catchment WaterBody Name: Dog Clog Brook (including Mill Brook) WaterBody ID: GB112069060690 Operational Catchment: Ditton Management Catchment: Mersey Lower Catchment Name: Lower Mersey	A8SE (S)	651	2	347860 388910
	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	A13NW (W)	0	2	347565 389619

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	A13NE (NE)	0	2	347616 389611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
258	Licensed Waste Management Facilities (Landfill Boundaries) Name: Cronton Quarry Licence Number: 400986 Location: GRUNDY & CO EXCAVATIONS LIMITED, Cronton Quarry, Dacre's Bridge Lane, Tarbock, Prescott, Merseyside, L35 1QZ Licence Holder: Grundy & Co Excavations Limited Authority: Environment Agency - North West Region, South Area Site Category: Inert LF Max Input Rate: Not Supplied Licence Status: Issued Issued: 3rd April 2014 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8NW (SW)	625	2	347317 388950
259	Licensed Waste Management Facilities (Locations) Licence Number: 400986 Location: Cronton Quarry, Dacre's Bridge Lane, Tarbock, Prescott, Merseyside, L35 1QZ Operator Name: GRUNDY & CO EXCAVATIONS LIMITED Operator Location: Not Supplied Authority: Environment Agency - North West Region, South Area Site Category: Inert LF Licence Status: Issued Issued: 3rd April 2014 Last Modified: 3rd April 2014 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	862	2	346930 388930
	Local Authority Landfill Coverage Name: Knowsley Metropolitan Borough Council - Has supplied landfill data		0	5	347616 389611
	Local Authority Landfill Coverage Name: Merseyside Waste Disposal Authority - Has supplied landfill data		0	6	347616 389611
	Local Authority Landfill Coverage Name: St Helens Metropolitan District Council - Landfill data has been supplied by another authority		27	7	347787 389680
260	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SE (S)	241	-	347740 389293
261	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17SE (NW)	658	-	347099 390216
262	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SW (NW)	946	-	346606 390095
263	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17NE (N)	955	-	347271 390594
264	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A19NW (N)	960	-	348020 390586
265	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NE (E)	0	-	347706 389643
266	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	385	-	347532 389140
267	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SE (SW)	522	-	347024 389314
268	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A11NE (W)	990	-	346455 389641

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
269	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A23SE (N)	1000	-	347918 390652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Permian Rocks (Undifferentiated)	A13NE (NE)	0	1	347616 389611
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A13NW (W)	0	1	347572 389601
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: <15 mg/kg	A13NE (E)	0	1	347748 389611
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	0	1	347616 389500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	0	1	347616 389611
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 200 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	51	1	347814 389529
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: 100 - 200 mg/kg Nickel Concentration: <15 mg/kg	A13SE (SE)	55	1	347745 389500

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 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	65	1	347806 389500
	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:	A13SW (SW)	100	1	347434 389512
	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:	A14NW (E)	226	1	348000 389611
	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:	A14SW (E)	237	1	348000 389500
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (E)	239	1	348012 389573
	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:	A14SW (E)	263	1	348026 389500

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 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	277	1	347439 389278
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NW (NE)	291	1	347997 389838
	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:	A14NW (NE)	319	1	348000 389877
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	323	1	347616 390000
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SW (N)	340	1	347500 390000
	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 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A14SW (SE)	341	1	348000 389303

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 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (NE)	354	1	347942 389967
	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 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A14NW (NE)	357	1	348000 389930
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (SW)	381	1	347392 389185
	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:	A19SW (NE)	398	1	347973 390000
	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:	A19SW (NE)	412	1	348000 390000
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	436	1	347481 389096

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:	A19SW (NE)	439	1	348000 390032
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	444	1	347000 389627
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NE (W)	445	1	347000 389611
	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:	A8NE (S)	524	1	347616 389000
	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 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A8NE (S)	549	1	347800 389000
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NE (SW)	556	1	347237 389075

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 - 2.2 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SE (NW)	562	1	347000 390000
	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:	A8NW (SW)	585	1	347305 389000
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	589	1	347979 389000
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	607	1	346851 389500
	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:	A7NE (SW)	617	1	347207 389021
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	743	1	346713 389500

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 60 - 90 mg/kg Concentration: Lead Concentration: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	822	1	347460 390480
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	837	1	347500 390500
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	842	1	347456 390500
	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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	846	1	347398 390500
	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: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (W)	887	1	346628 390000
	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: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17SW (NW)	902	1	346737 390215

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 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	905	1	346609 389277
	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:	A20SW (E)	906	1	348623 389957
	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:	A19SE (NE)	917	1	348577 390090
	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 40 - 60 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel <15 mg/kg Concentration:	A7NW (SW)	923	1	346663 389131
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	930	1	346676 389099
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (W)	939	1	346600 389213

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: 200 - 300 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11SE (W)	940	1	346513 389500
	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 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A11NE (W)	944	1	346500 389625
	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 90 - 120 mg/kg Concentration: Lead Concentration: 300 - 600 mg/kg Nickel 15 - 30 mg/kg Concentration:	A17NE (NW)	955	1	347000 390500
	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:	A11NE (W)	959	1	346500 389822
270	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 3 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259948 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	245	1	347398 389345
270	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 2 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259947 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	265	1	347396 389320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 1 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259946 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	282	1	347395 389299
271	BGS Recorded Mineral Sites Site Name: The Old Delf Location: Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 241389 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	612	1	346833 389664
272	BGS Recorded Mineral Sites Site Name: Fox'S Bank Location: Cronton, Widnes, Cheshire Source: British Geological Survey, National Geoscience Information Service Reference: 10974 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Sandstone Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	694	1	348000 388900
273	BGS Recorded Mineral Sites Site Name: Cronton Claypit Location: Cronton, Widnes, Cheshire Source: British Geological Survey, National Geoscience Information Service Reference: 5792 Type: Opencast Status: Active Operator: Ibstock Brick Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Etruria Marl) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	833	1	347111 388825
274	BGS Recorded Mineral Sites Site Name: Parren'S Covert Sand Pit Location: Whiston, Prescott, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 206488 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Silica Sand Positional Accuracy: Located by supplier to within 10m	A19NW (N)	952	1	347960 390595
275	BGS Recorded Mineral Sites Site Name: Stone Quarry Plantation Location: Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 95183 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NE (N)	966	1	347261 390604

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
276	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 3 Pit Location: Whiston Lane Ends, Whiston, Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187635 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	969	1	346598 390126
277	BGS Recorded Mineral Sites Site Name: Parren'S Covert Sand Pit Location: Whiston, Prescot, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 206489 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	978	1	348046 390597
278	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 2 Pit Location: Whiston Lane Ends, Whiston, Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187634 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A16SE (NW)	982	1	346565 390093
278	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 1 Pit Location: Whiston Lane Ends, Whiston, Prescot, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187633 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A16SE (NW)	995	1	346535 390060
	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 (NE)	0	8	347616 389611
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	-	347616 389611
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611

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 (NE)	0	1	347616 389611
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	47	1	347726 389506
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	122	1	347511 389414
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	347814 389529
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347725 389611
	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 (NE)	0	1	347616 389611
	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 (E)	0	1	347725 389611
	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 (NE)	0	1	347616 389611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
279	Contemporary Trade Directory Entries Name: Masterclutch Location: 9, Lake View, Halsnead Park, Prescott, Merseyside, L35 3PX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	527	-	347177 390109
280	Contemporary Trade Directory Entries Name: Anro International Ltd Location: Shirebrook, Foxs Bank Lane, Whiston, Prescott, Merseyside, L35 3SS Classification: Freight Forwarders Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19SW (NE)	645	-	348003 390260
281	Contemporary Trade Directory Entries Name: Black Frost Location: 53, Martock, Whiston, Prescott, Merseyside, L35 3TA Classification: Greeting Card Publishers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	870	-	347718 390545
282	Contemporary Trade Directory Entries Name: B C Neill Air Conditioning Ltd Location: Cronton Road, Tarbock, Prescott, Merseyside, L35 1QU Classification: Air Conditioning Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	922	-	348015 388666
283	Points of Interest - Commercial Services Name: Masterclutch Location: 9 Lake View, Halsnead Park, Prescott, L35 3PX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	527	9	347177 390109
284	Points of Interest - Commercial Services Name: Anro International Ltd Location: Shirebrook, Foxs Bank Lane, Whiston, Prescott, L35 3SS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A19SW (NE)	645	9	348003 390260
285	Points of Interest - Manufacturing and Production Name: Halsnead Farm Location: Halsnead Farm, Foxs Bank Lane, Whiston, Prescott, L35 3SU Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13SE (E)	0	9	347705 389584
285	Points of Interest - Manufacturing and Production Name: Tank Location: L35 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (E)	0	9	347720 389654
286	Points of Interest - Manufacturing and Production Name: Workings (Dis) Location: L35 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	455	9	347557 389069
287	Points of Interest - Manufacturing and Production Name: James Patten & Sons Location: Higher Shaw Farm, Penny Lane, Widnes, WA8 5PT Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A14SW (E)	492	9	348231 389383
287	Points of Interest - Manufacturing and Production Name: James Patten & Sons Location: James Patten and Sons-Higher Shaw Farm, Penny Lane, Cronton, WA8 5PT Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A14SW (E)	492	9	348230 389382
288	Points of Interest - Manufacturing and Production Name: Quarry Location: L35 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	775	9	347145 388873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	Points of Interest - Manufacturing and Production Name: Quarry Location: L35 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	816	9	347133 388832
289	Points of Interest - Manufacturing and Production Name: Quarry Location: L35 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	874	9	346968 388882
290	Points of Interest - Manufacturing and Production Name: Works Location: L35 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	933	9	348026 388658
290	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A9SW (SE)	934	9	348026 388656
291	Points of Interest - Public Infrastructure Name: Slag Heap Location: L35 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	212	9	347554 389312
292	Points of Interest - Public Infrastructure Name: Slag Heap Location: L35 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	545	9	347549 388979
293	Points of Interest - Public Infrastructure Name: Heap (Dis) Location: L35 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A12SE (SW)	562	9	346999 389280
294	Points of Interest - Public Infrastructure Name: Cemetery Location: L35 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A18NE (N)	775	9	347862 390433
294	Points of Interest - Public Infrastructure Name: Knowsley Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	778	9	347879 390434
294	Points of Interest - Public Infrastructure Name: Knowsley Cemetary Location: L35 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to address or location	A18NE (N)	842	9	347852 390503
295	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	A17SW (NW)	850	9	346800 390209
295	Points of Interest - Recreational and Environmental Name: Playground Location: Windy Arbor Road, L35 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A17SW (NW)	850	9	346800 390210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
296	Points of Interest - Recreational and Environmental Name: Play Area Location: L35 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	946	9	347338 390595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
297	Ancient Woodland Name: Skilgate Wood Reference: 1109008 Area(m²): 284343.37 Type: Ancient and Semi-Natural Woodland	A12NE (W)	478	10	346973 389730
298	Ancient Woodland Name: West Hill Woods Reference: 1109009 Area(m²): 261291.94 Type: Ancient and Semi-Natural Woodland	A12SW (W)	552	10	346901 389530
299	Areas of Adopted Green Belt Authority: Knowsley Metropolitan Borough Council Plan Name: Proposal Map Status: Adopted Plan Date: 6th January 2016	A13NE (E)	12	5	347786 389606
300	Areas of Adopted Green Belt Authority: St Helens Metropolitan Borough Council Plan Name: St Helens Unitary Development Plan Status: Adopted Plan Date: 2nd July 1998	A13NE (E)	26	7	347786 389681
301	Nitrate Vulnerable Zones Name: Dittton Brook (Halewood To Mersey Estuary) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (NE)	0	3	347616 389611

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Halton Borough Council - Environmental Health Department St Helens Metropolitan Borough Council - Environmental Protection Department 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	October 2024	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	October 2024	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 Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 November 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 Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 November 2014	Annual Rolling Update Annually Annual Rolling Update Not Applicable
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 Halton Borough Council - Environmental Health Department	December 2014 December 2015 January 2015 November 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	October 2024	
Pollution Incidents to Controlled Waters Environment Agency - Midlands Region Environment Agency - North West Region	December 1999 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 - South Area	October 2024	Quarterly
Water Abstractions Environment Agency - North West Region	October 2024	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	October 2024	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	October 2024	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - South Area	November 2024	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - South Area	October 2024	Quarterly
Local Authority Landfill Coverage Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council	February 2003 February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Halton Borough Council - Environmental Health Department Knowsley Metropolitan Borough Council Liverpool City Council - Liverpool Environmental Health & Trading Standards Division Merseyside Waste Disposal Authority St Helens Metropolitan Borough Council	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 - South Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - South Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - South Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2024	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 Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council Halton Borough Council	August 2015 February 2016 January 2016 March 2023	Variable Variable Variable Variable
Planning Hazardous Substance Consents Halton Borough Council Knowsley Metropolitan Borough Council St Helens Metropolitan Borough Council Liverpool City Council	August 2015 August 2015 February 2016 January 2016	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	March 2024	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	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	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	December 2024	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2024	Quarterly
Points of Interest - Commercial Services PointX	December 2024	Quarterly
Points of Interest - Education and Health PointX	December 2024	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2024	Quarterly
Points of Interest - Public Infrastructure PointX	December 2024	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2024	Quarterly
Underground Electrical Cables National Grid	January 2024	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	November 2024	Bi-Annually
Areas of Adopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council	July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Halton Borough Council Knowsley Metropolitan Borough Council Liverpool City Council St Helens Metropolitan Borough Council	July 2024 July 2024 July 2024 July 2024	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	November 2024	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2023	
Forest Parks Forestry Commission	May 2023	Not Applicable
Local Nature Reserves Natural England	August 2024	Bi-Annually
Marine Nature Reserves Natural England	August 2024	Bi-Annually
National Nature Reserves Natural England	August 2024	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	Bi-Annually
Ramsar Sites Natural England	August 2024	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2024	Bi-Annually
Special Areas of Conservation Natural England	October 2024	Bi-Annually
Special Protection Areas Natural England	November 2024	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	

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

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

Fenced

Minor Roads

Un-Fenced

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

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

R.D. Bdy. 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

Coppice

Bracken

Heath

Rough Grassland

Marsh

Reeds

Saltings

Building

Glasshouse

Direction of Flow of Water

Shingle

Sand

Sloping Masonry

Pylon

Electricity Transmission Line

Pole

Cutting

Embankment

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
Shown only when not coincident with other boundaries

Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS Boundary Post or Stone

Ch Church

CH Club House

F E Sta Fire Engine Station

FB Foot Bridge

Fn Fountain

GP Guide Post

MP Mile Post

MS Mile Stone

Pol Sta Police Station

PO Post Office

PC Public Convenience

PH Public House

SB Signal Box

Spr Spring

TCB Telephone Call Box

TCP Telephone Call Post

W 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

MHW(S) Mean high water (springs)

MLW(S) Mean low water (springs)

Telephone line (where shown)

Electricity transmission line (with poles)

Bench mark (where shown)

Triangulation station

Point feature (e.g. Guide Post or Mile Stone)

Pylon, flare stack or lighting tower

Site of (antiquity)

Glasshouse

General Building

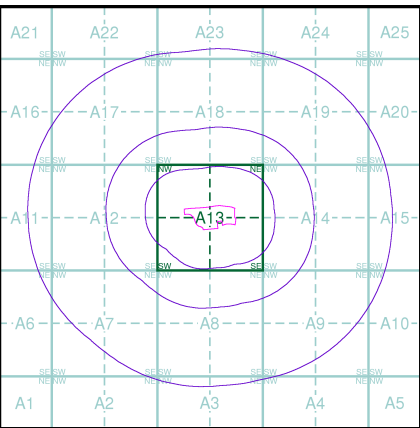
Important Building



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1908	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Lancashire And Furness	1:10,560	1951	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1966 - 1967	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1977 - 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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

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 and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

243.8 Values for prominent elevations

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

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

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

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

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

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

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

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

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

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

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

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

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

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

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

Well Water Reservoir or Rain Water Pit Spring Isobath with value

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

Coniferous Deciduous Mixed Scrub

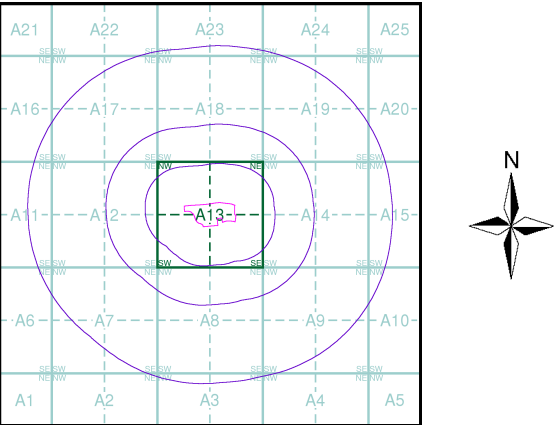
Key to Numbers on Mapping



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:10,560	1849 - 1850	3
Cheshire	1:10,560	1881	4
Lancashire And Furness	1:10,560	1894	5
Lancashire And Furness	1:10,560	1908	6
Lancashire And Furness	1:10,560	1928	7
Lancashire And Furness	1:10,560	1938	8
Lancashire And Furness	1:10,560	1951	9
Ordnance Survey Plan	1:10,000	1955 - 1956	10
Ordnance Survey Plan	1:10,000	1966 - 1967	11
Liverpool	1:10,000	1974	12
Ordnance Survey Plan	1:10,000	1977 - 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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



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Fax: 0844 844 9951
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Curtins

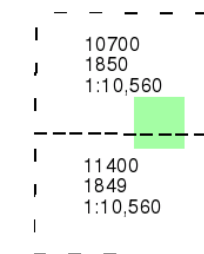
Lancashire And Furness

Published 1849 - 1850

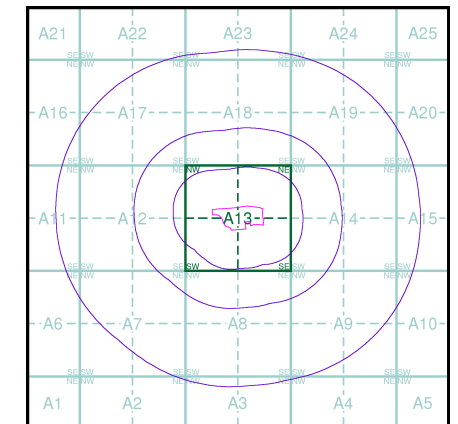
Source map scale - 1:10,560

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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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Curtins

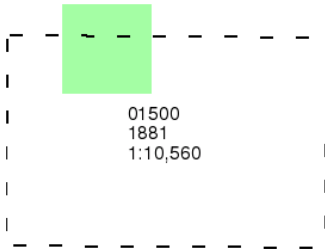
Cheshire

Published 1881

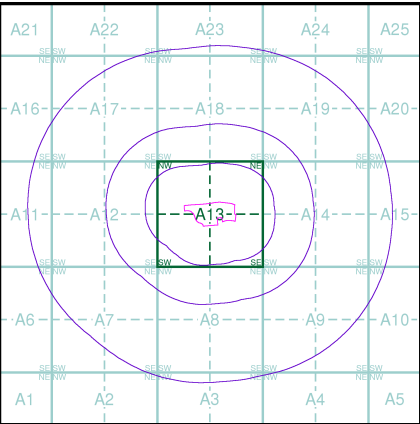
Source map scale - 1:10,560

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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

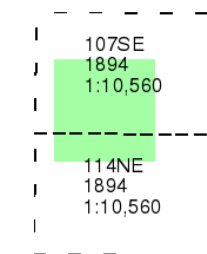
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark®
INFORMATION GROUP

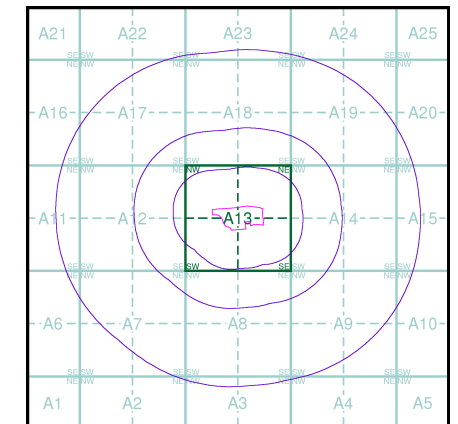
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Map Name(s) and Date(s)



Historical Map - Slice A

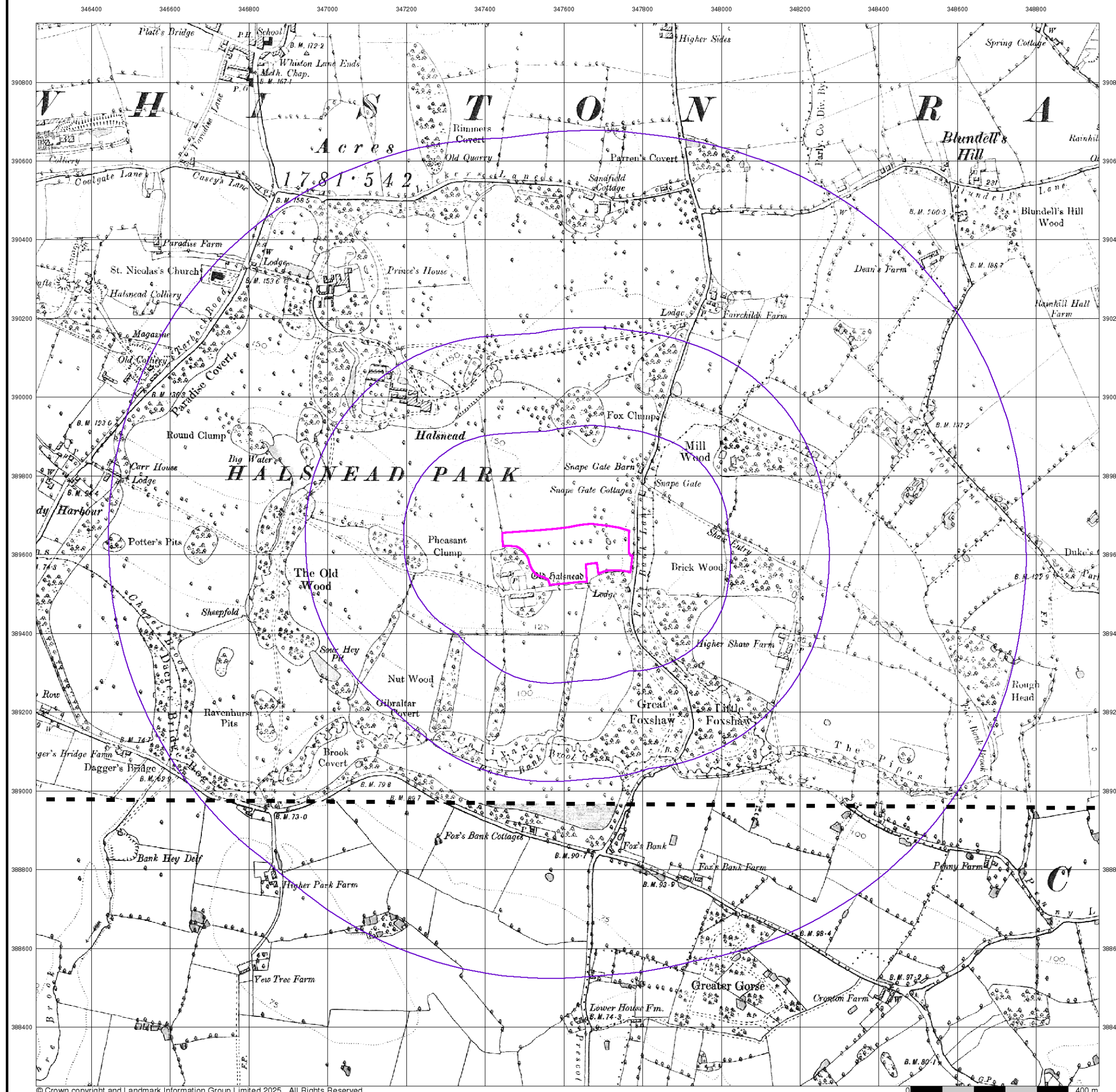


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

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Curtins

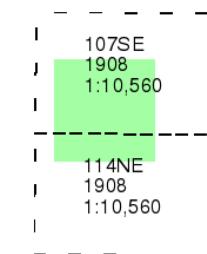
Lancashire And Furness

Published 1908

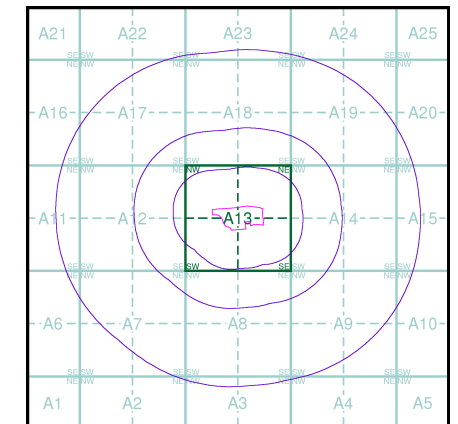
Source map scale - 1:10,560

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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

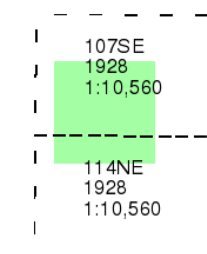
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

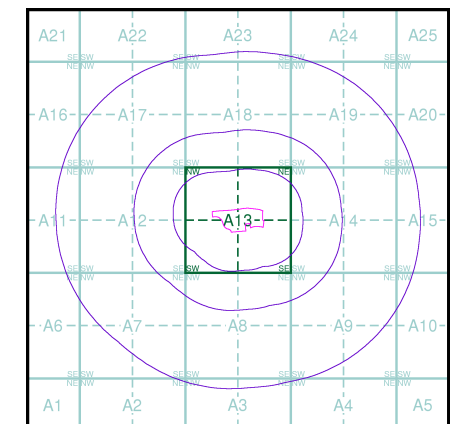
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A

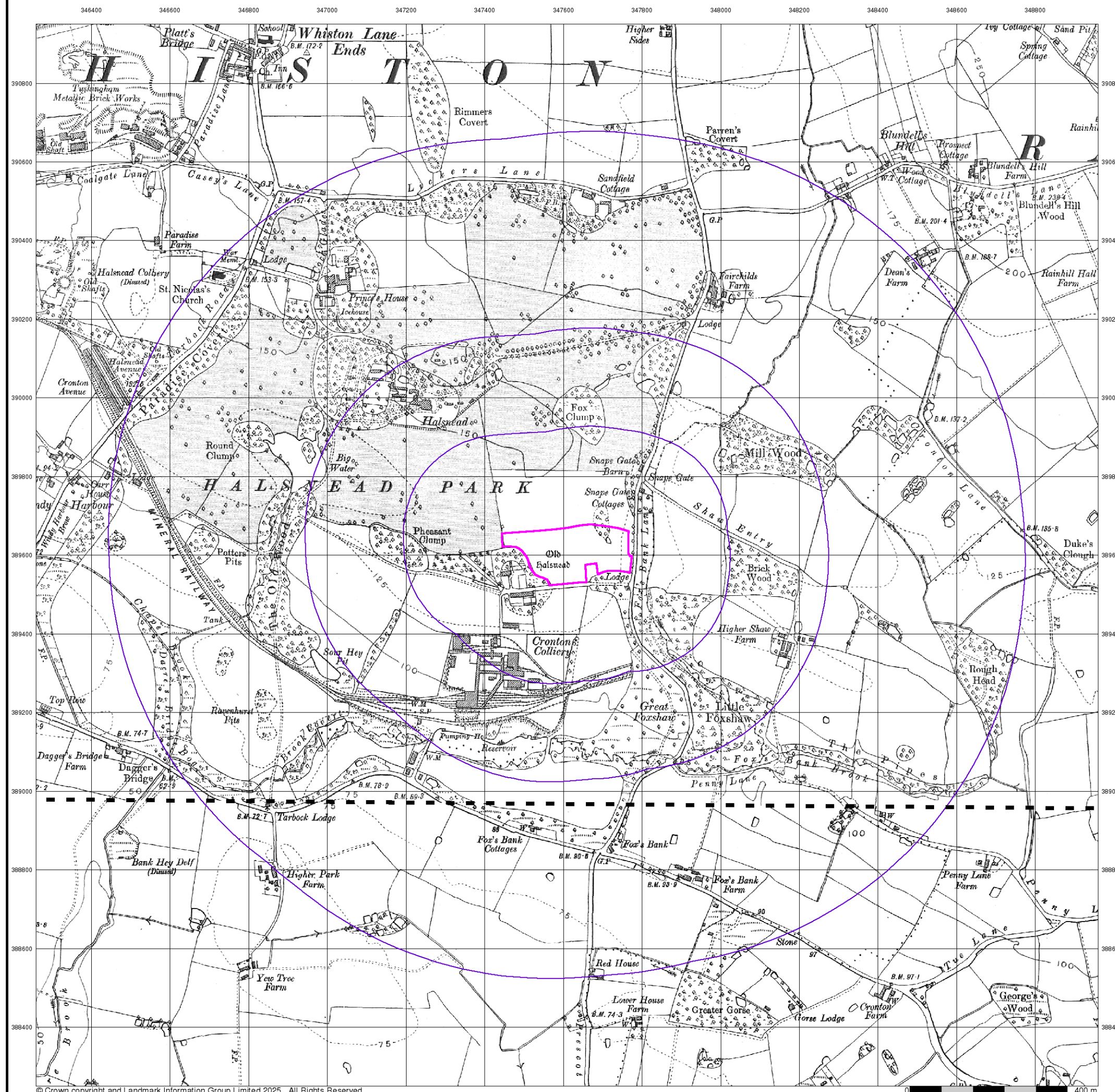


Order Details

Order Number: 366631170_1_1
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National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

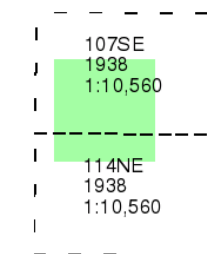
Site Details

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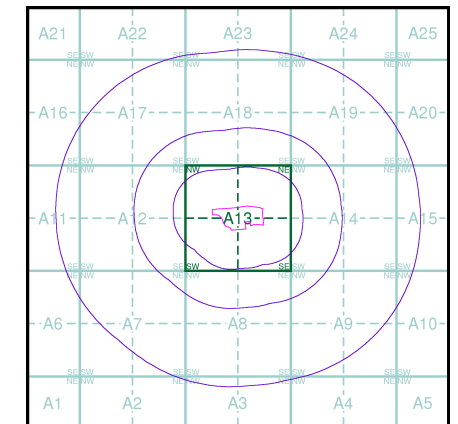


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)



Historical Map - Slice A

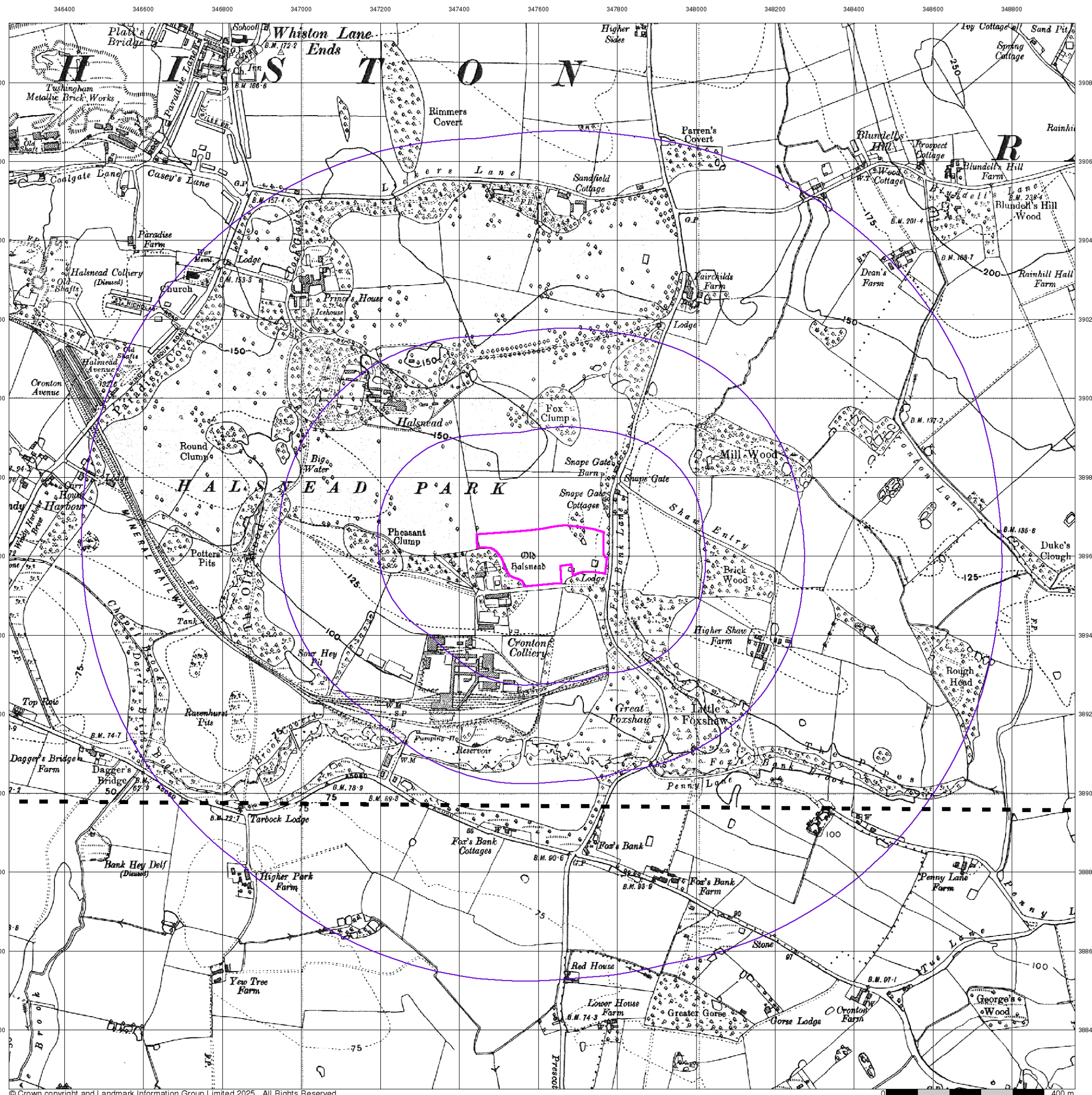


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Curtins

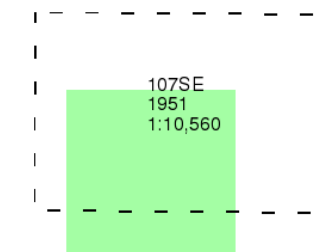
Lancashire And Furness

Published 1951

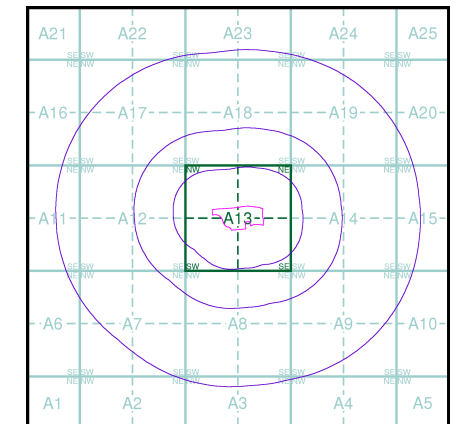
Source map scale - 1:10,560

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

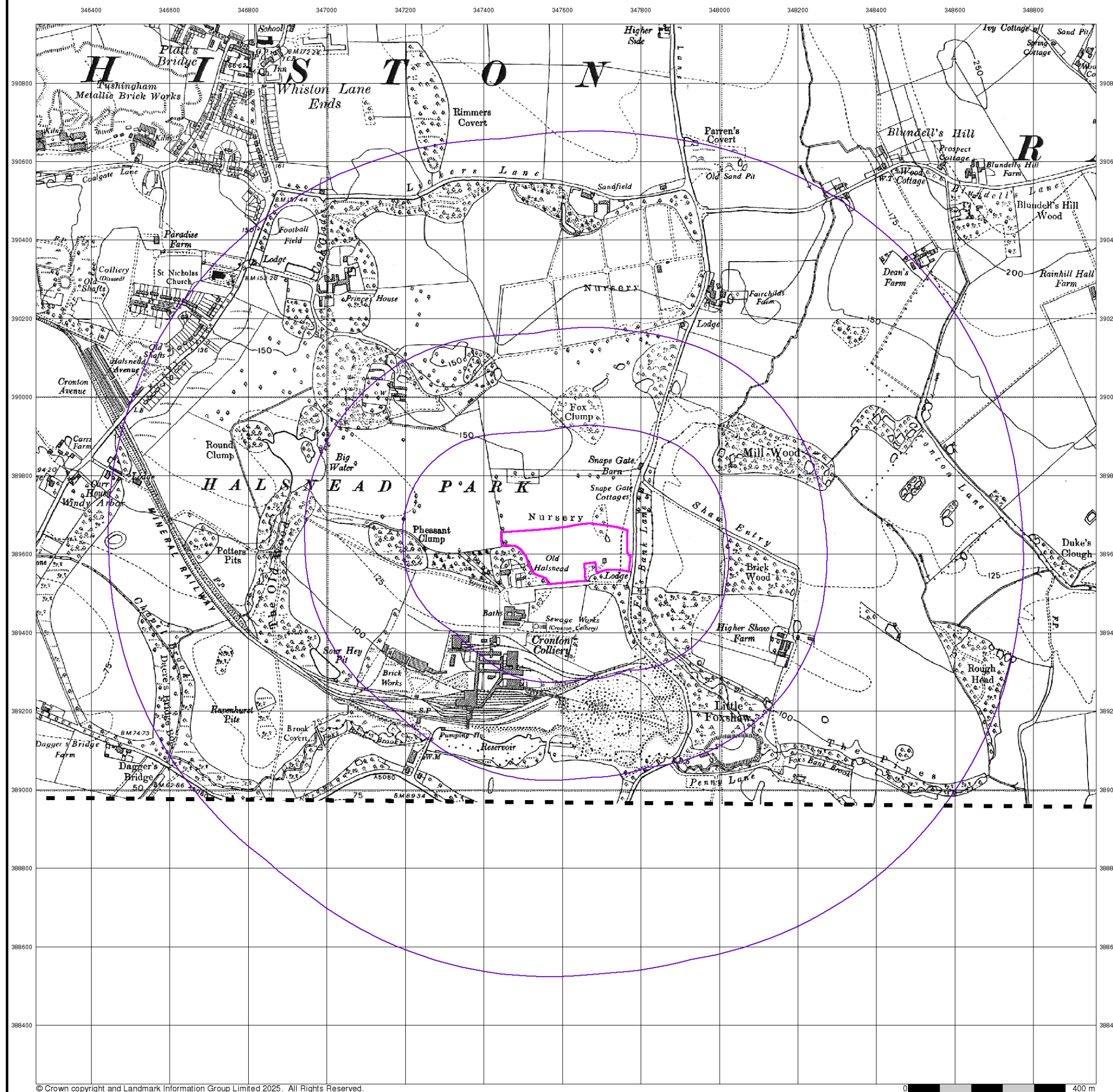
Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1955 - 1956

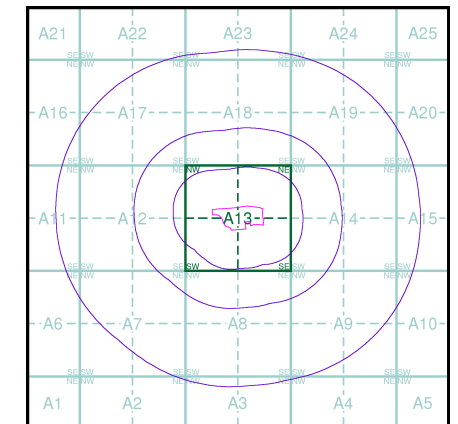
Source map scale - 1:10,000

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)

SJ49SE	1956
1:10,560	
SJ48NE	1955
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Ordnance Survey Plan

Published 1966 - 1967

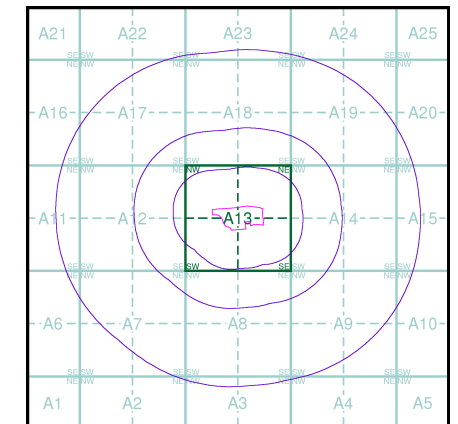
Source map scale - 1:10,000

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)

SJ49SE	1966
1:10,560	
SJ48NE	1967
1:10,560	

Historical Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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)

SJ49SE

1974

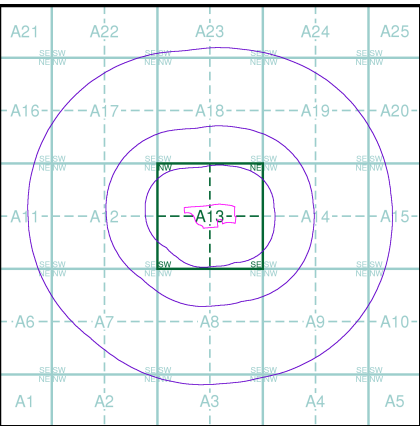
1:10,000

SJ48NE

1974

1:10,000

Russian Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1977 - 1978

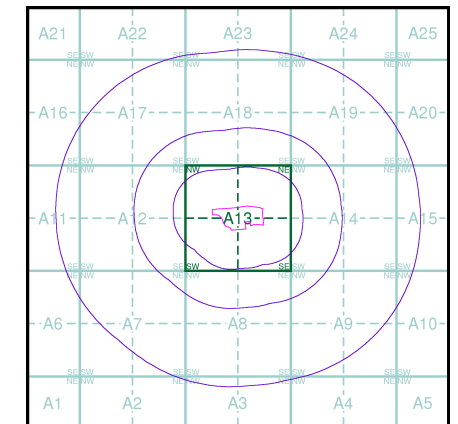
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SJ49SE	1978	1:10,000
SJ48NE	1977	1:10,000

Historical Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Curtins

St Helens

Published 1984

Source map scale - 1:10,000

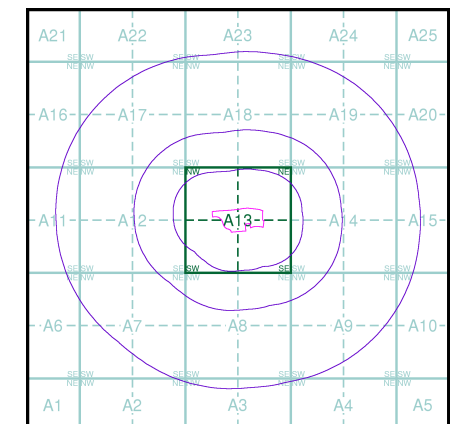
These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed 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)

SJ49SE
1984
1:10,000
SJ48NE
1984
1:10,000

Russian Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1990 - 1991

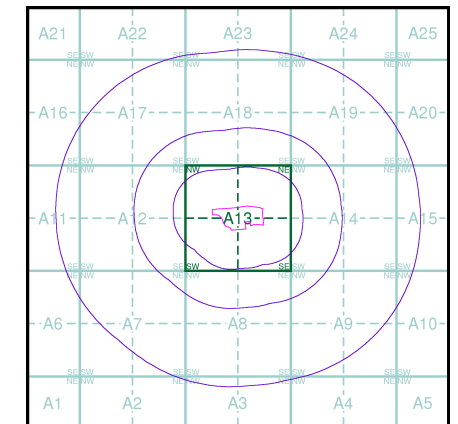
Source map scale - 1:10,000

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)

SJ49SE	1991	1:10,000
SJ48NE	1990	1:10,000

Historical Map - Slice A

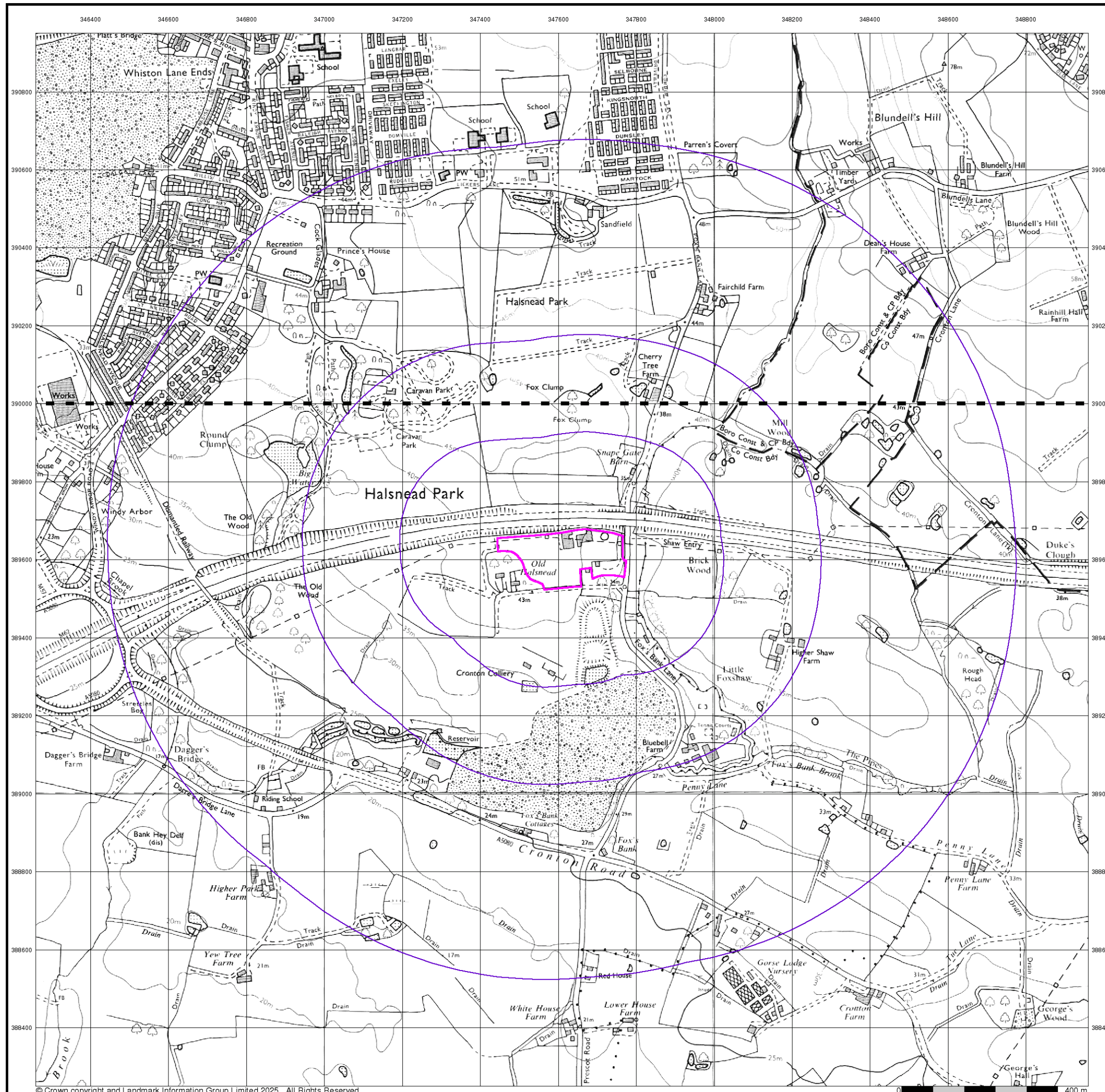


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Curtins

10k Raster Mapping

Published 1999

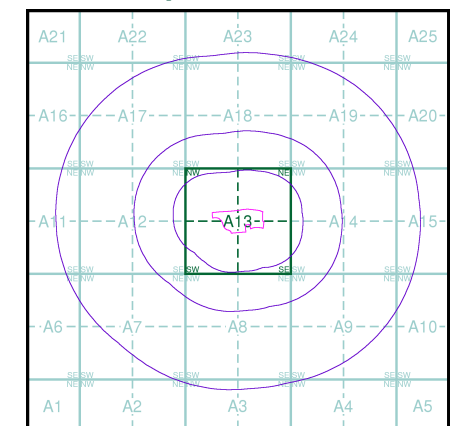
Source map scale - 1:10,000

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)

SJ49SE	1999	1:10,000
SJ48NE	1999	1:10,000

Historical Map - Slice A



Order Details

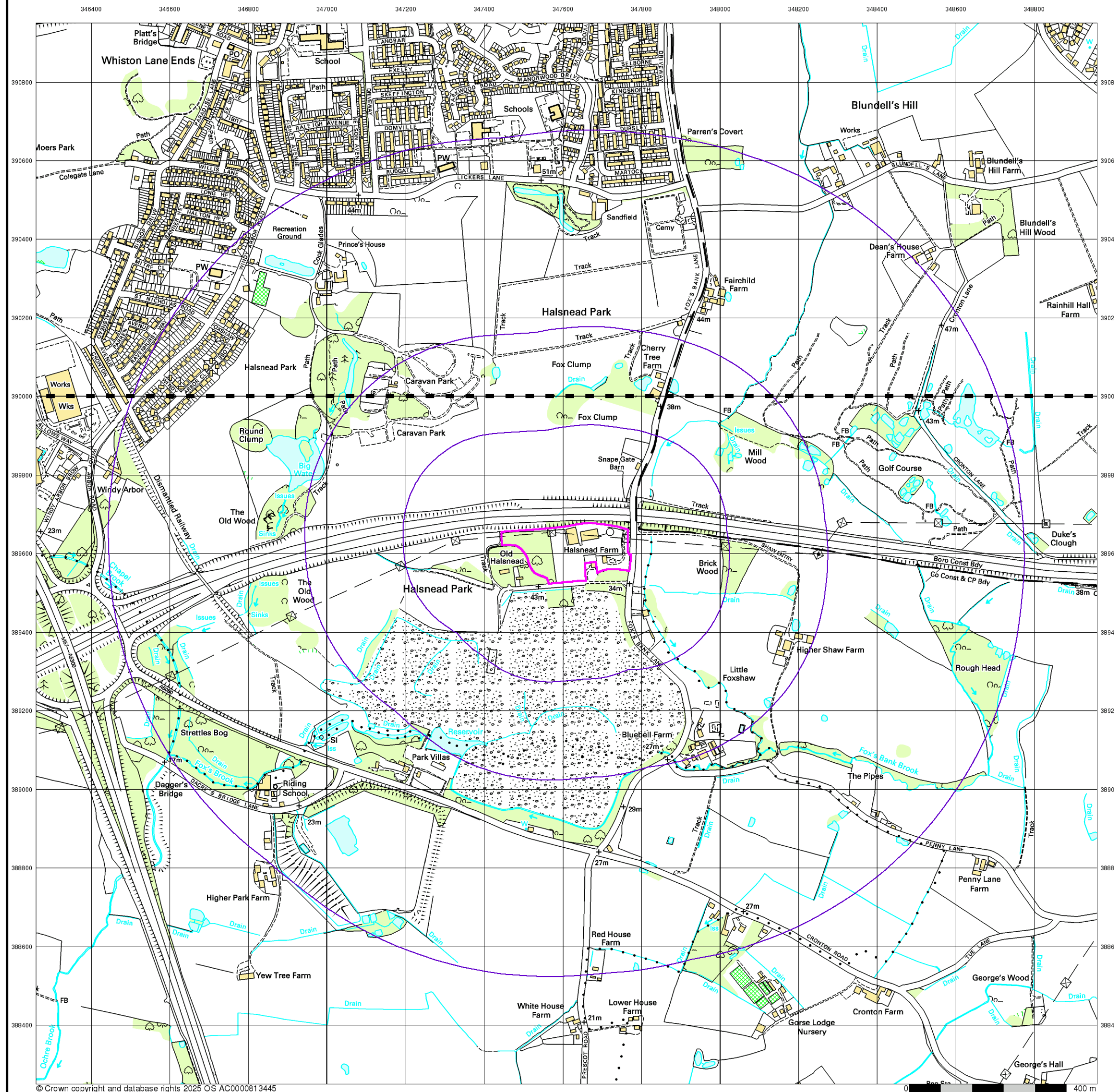
Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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



Curtins

10k Raster Mapping

Published 2006

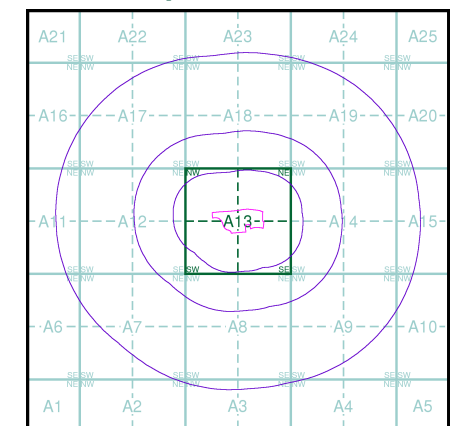
Source map scale - 1:10,000

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)

SJ49SE
2006
1:10,000
SJ48NE
2006
1:10,000

Historical Map - Slice A



Order Details

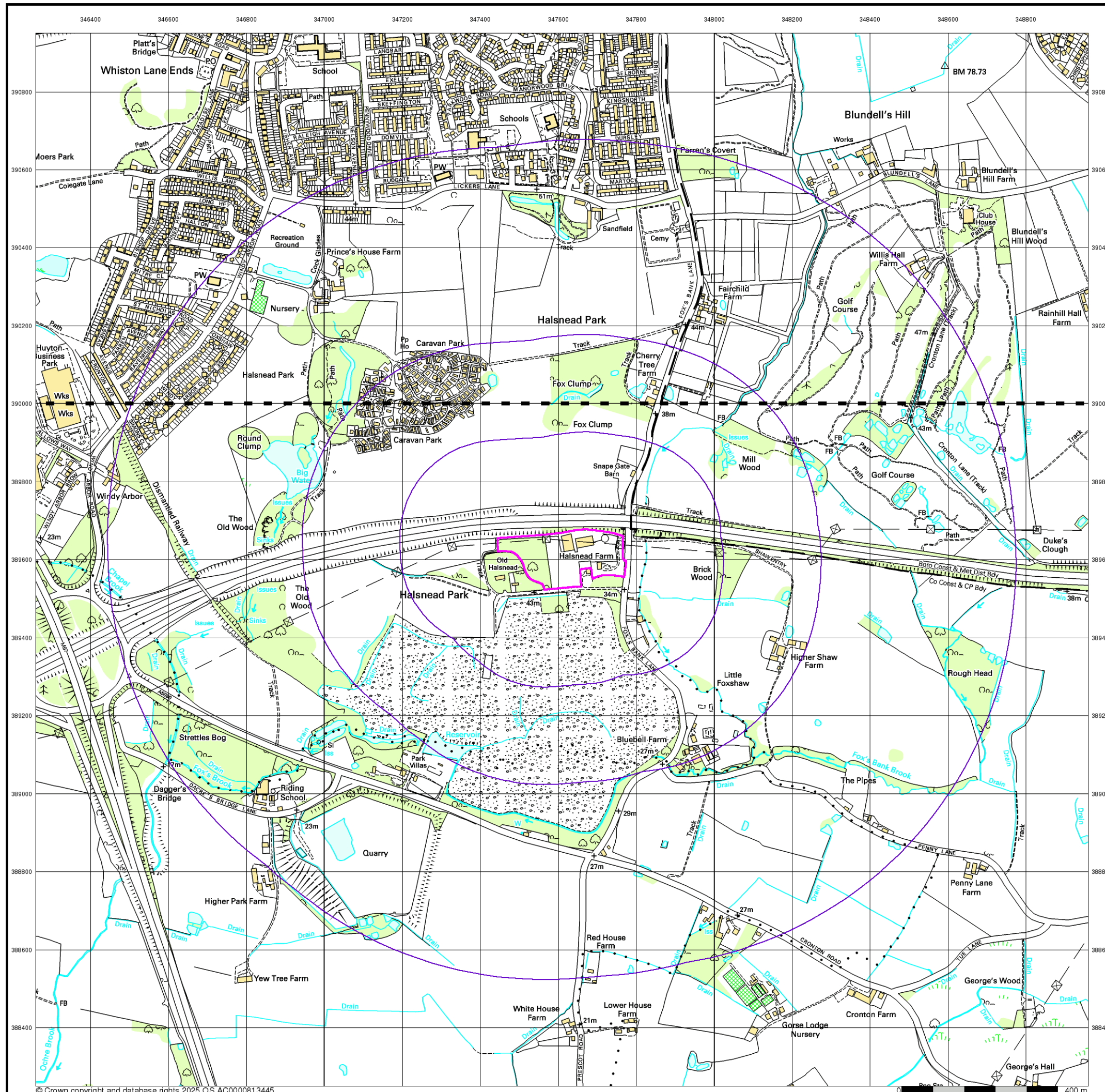
Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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



VectorMap Local

Published 2024

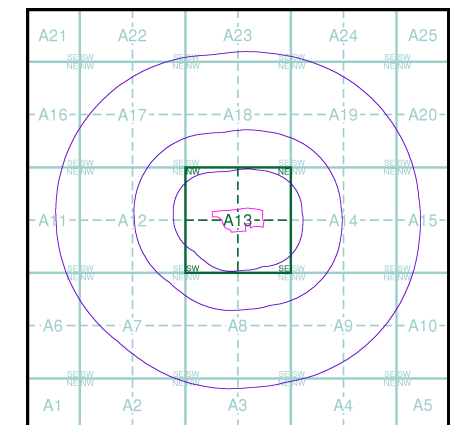
Source map scale - 1:10,000

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)

SJ49SE
2024
Variable
SJ48NE
2024
Variable

Historical Map - Slice A

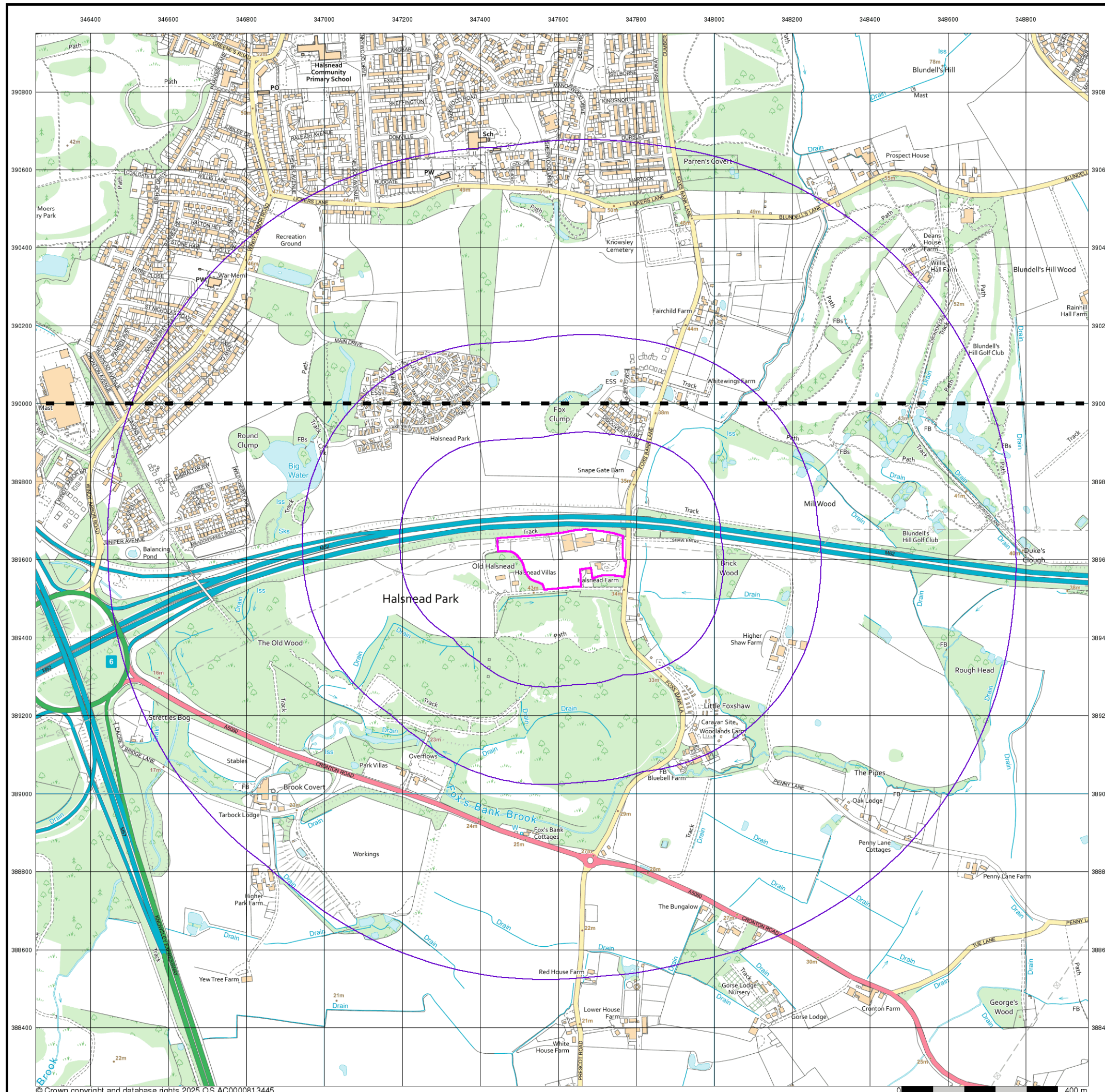


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



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

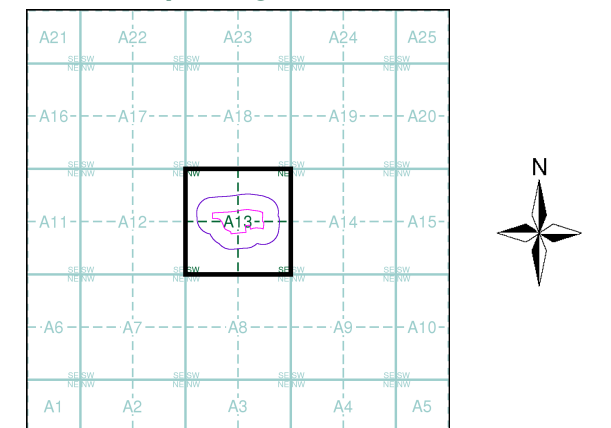


Curtins

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1892	2
Lancashire And Furness	1:2,500	1907	3
Lancashire And Furness	1:2,500	1927	4
Lancashire And Furness	1:2,500	1937	5
Ordnance Survey Plan	1:2,500	1959	6
Supply of Unpublished Survey Information	1:2,500	1975	7
Additional SIMs	1:2,500	1980	8
Ordnance Survey Plan	1:2,500	1981	9
Additional SIMs	1:2,500	1989	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:2,500	1996	12
Historical Aerial Photography	1:2,500	2000	13

Historical Map - Segment A13



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

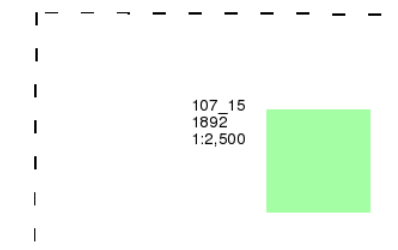
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

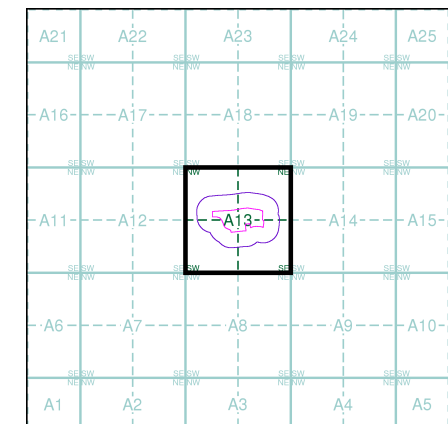
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

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

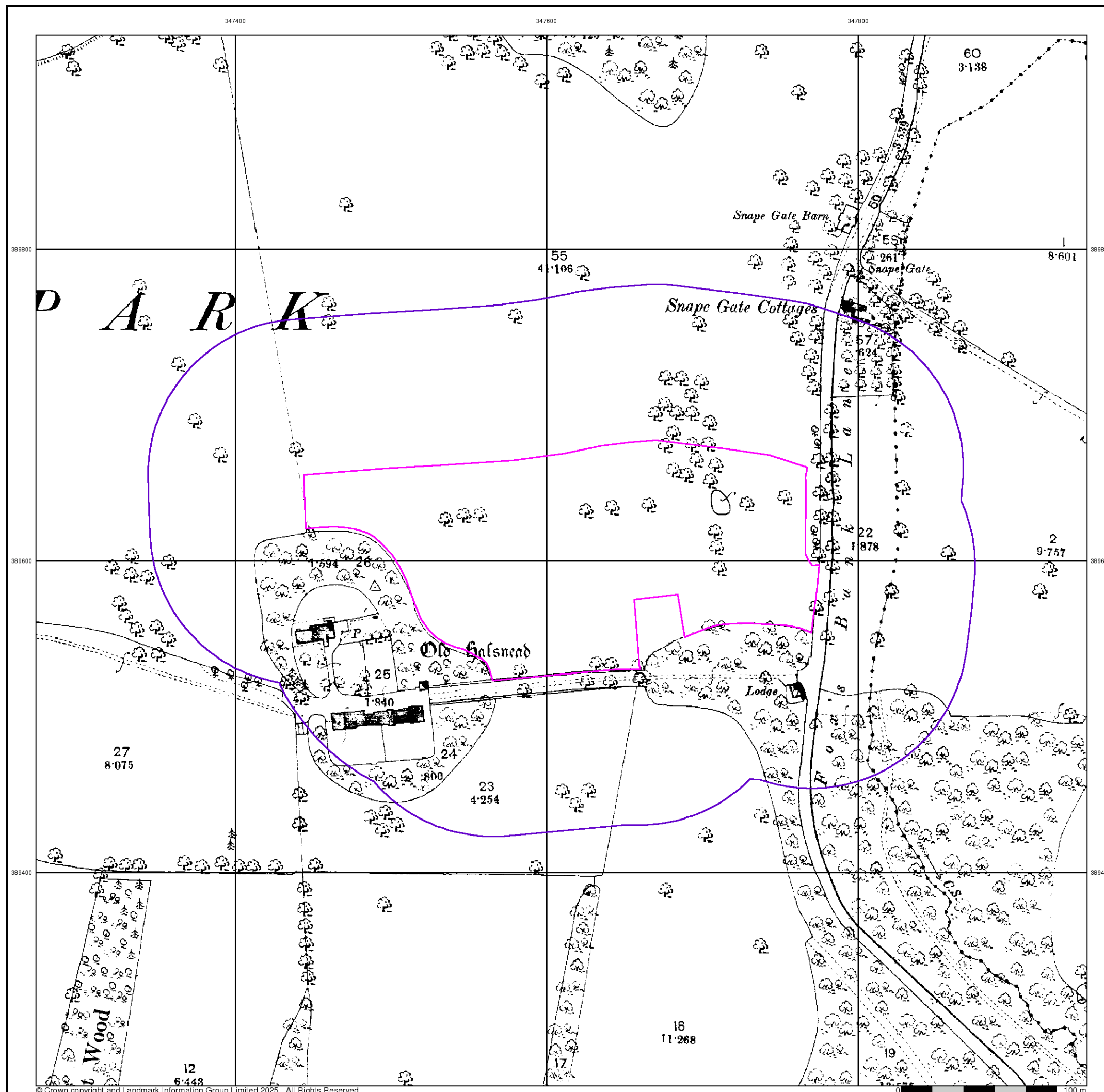


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

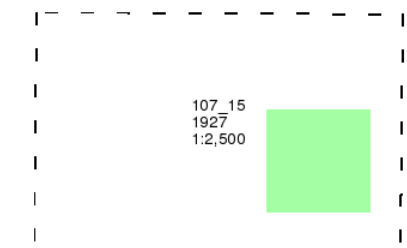
Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

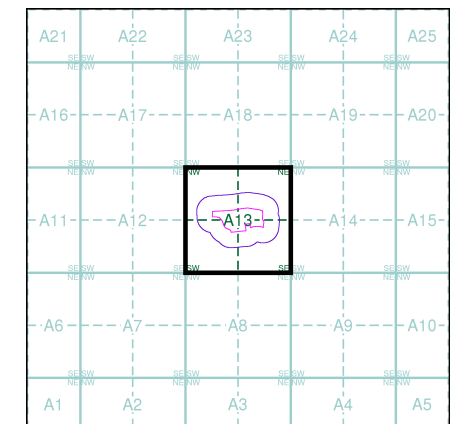


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)



Historical Map - Segment A13

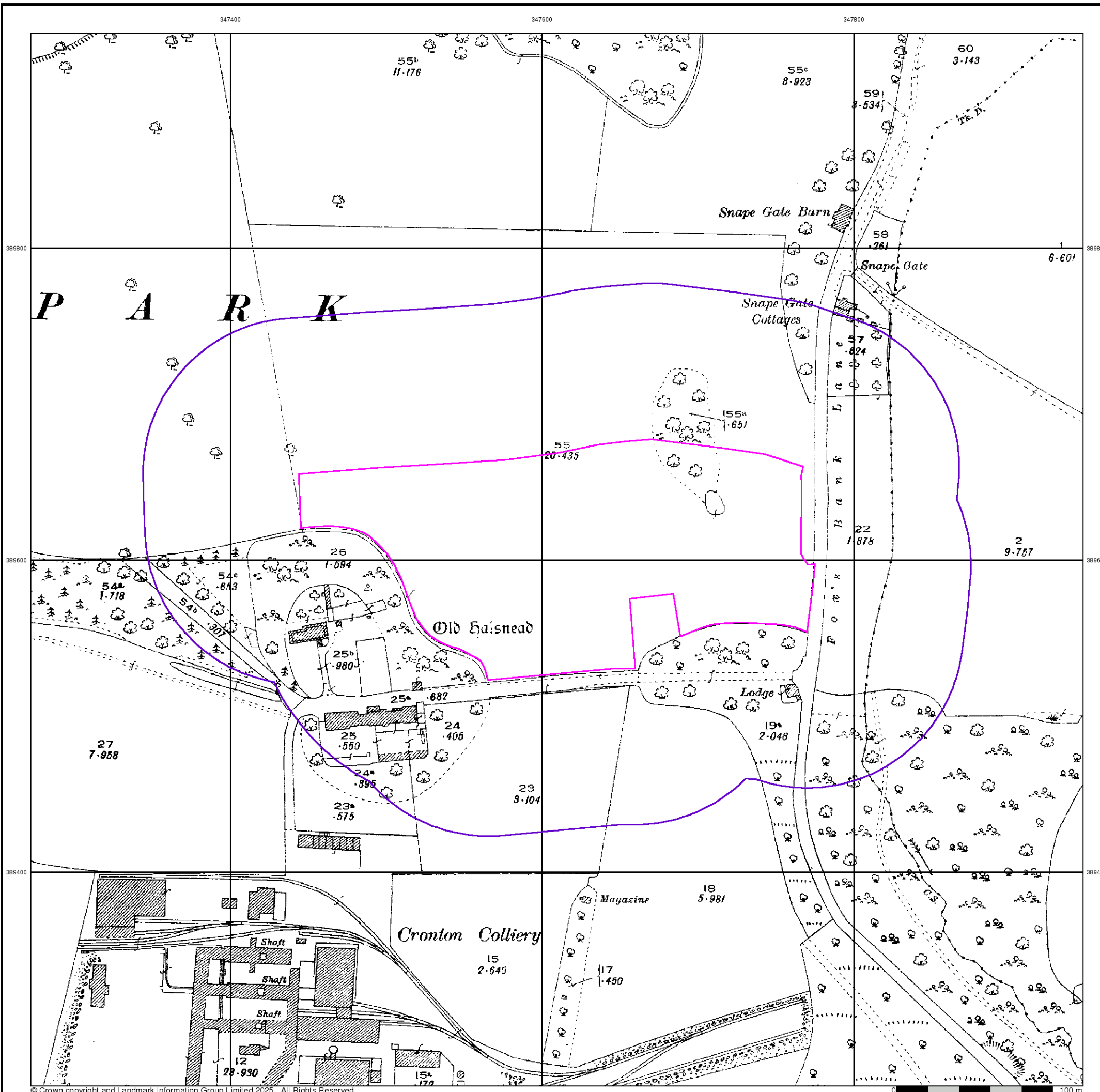


Order Details

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Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

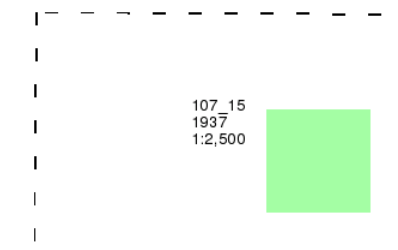
Site Details

Halshead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

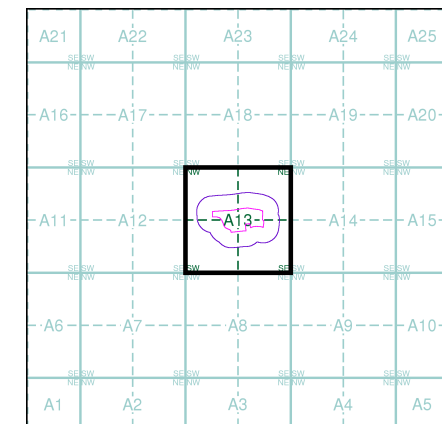


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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

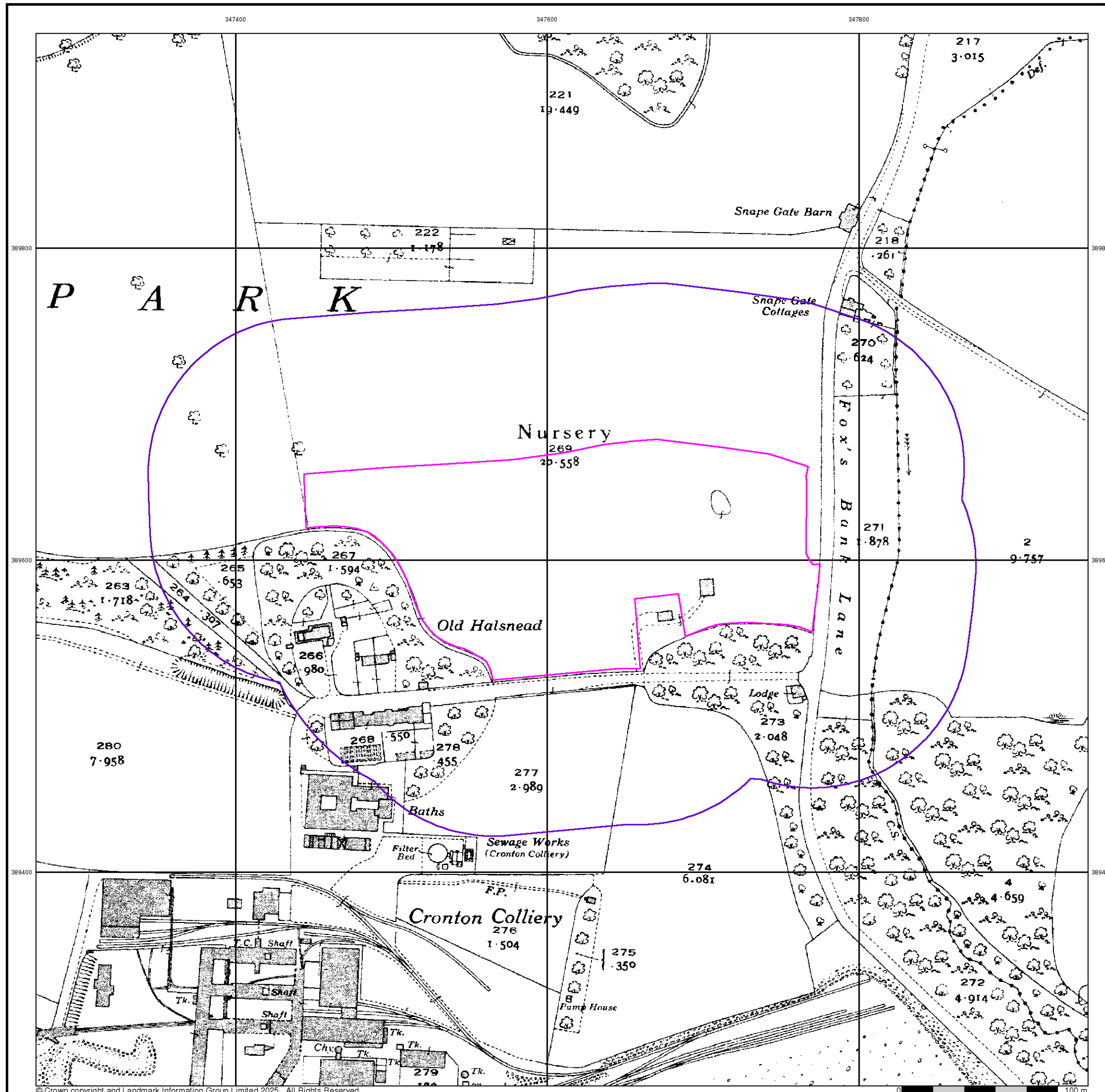


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halshead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



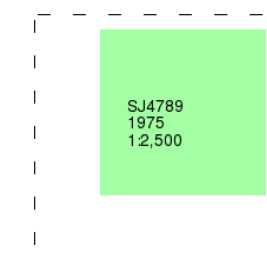
Supply of Unpublished Survey Information

Published 1975

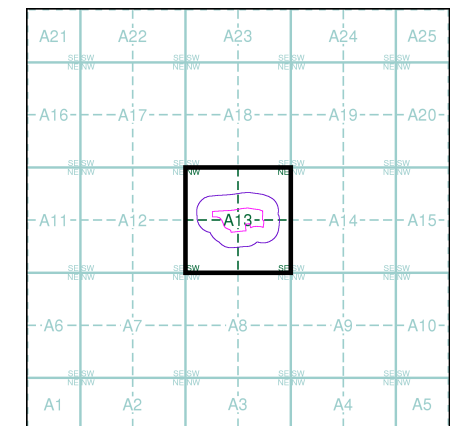
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

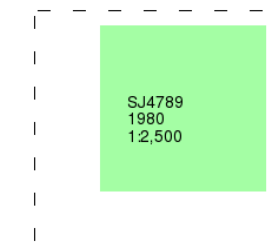
Additional SIMs

Published 1980

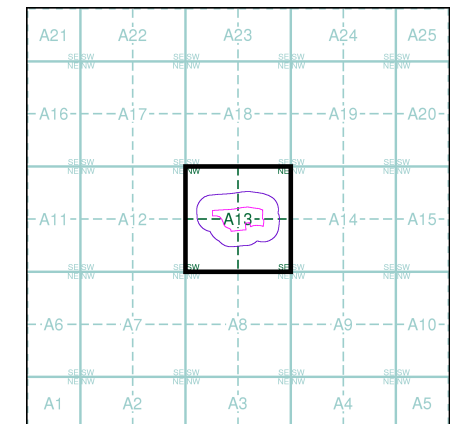
Source map scale - 1:2,500

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)



Historical Map - Segment A13

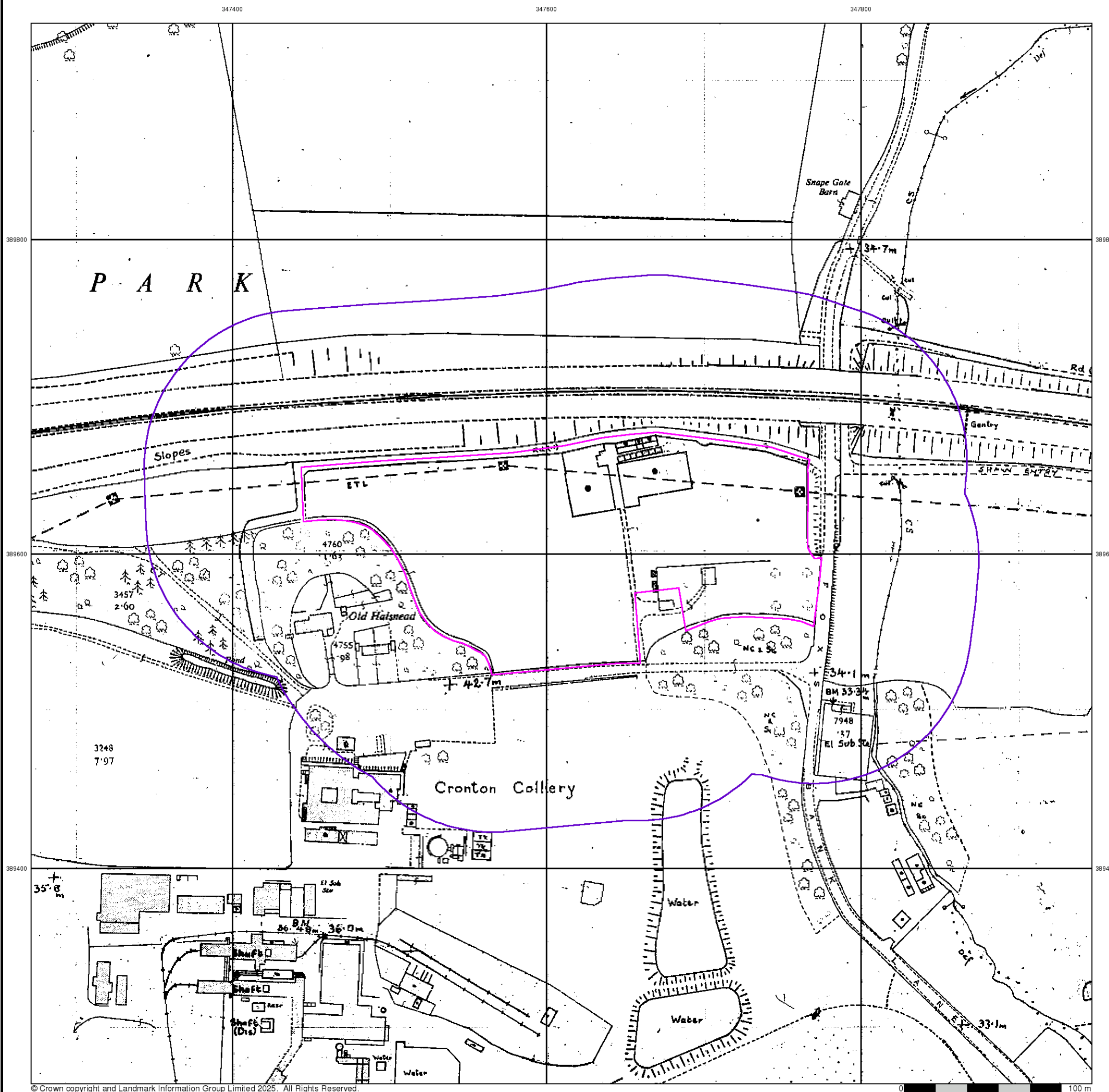


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



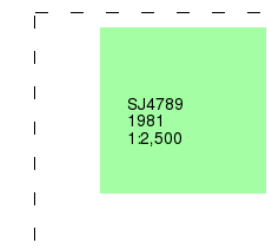
Ordnance Survey Plan

Published 1981

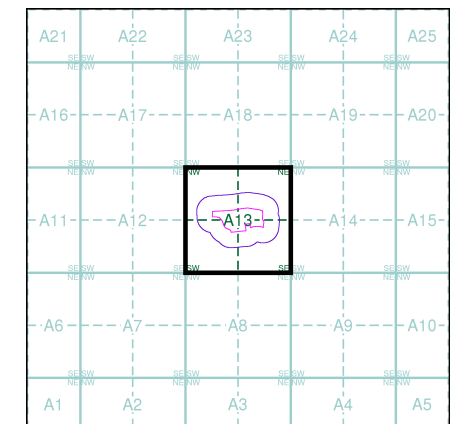
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

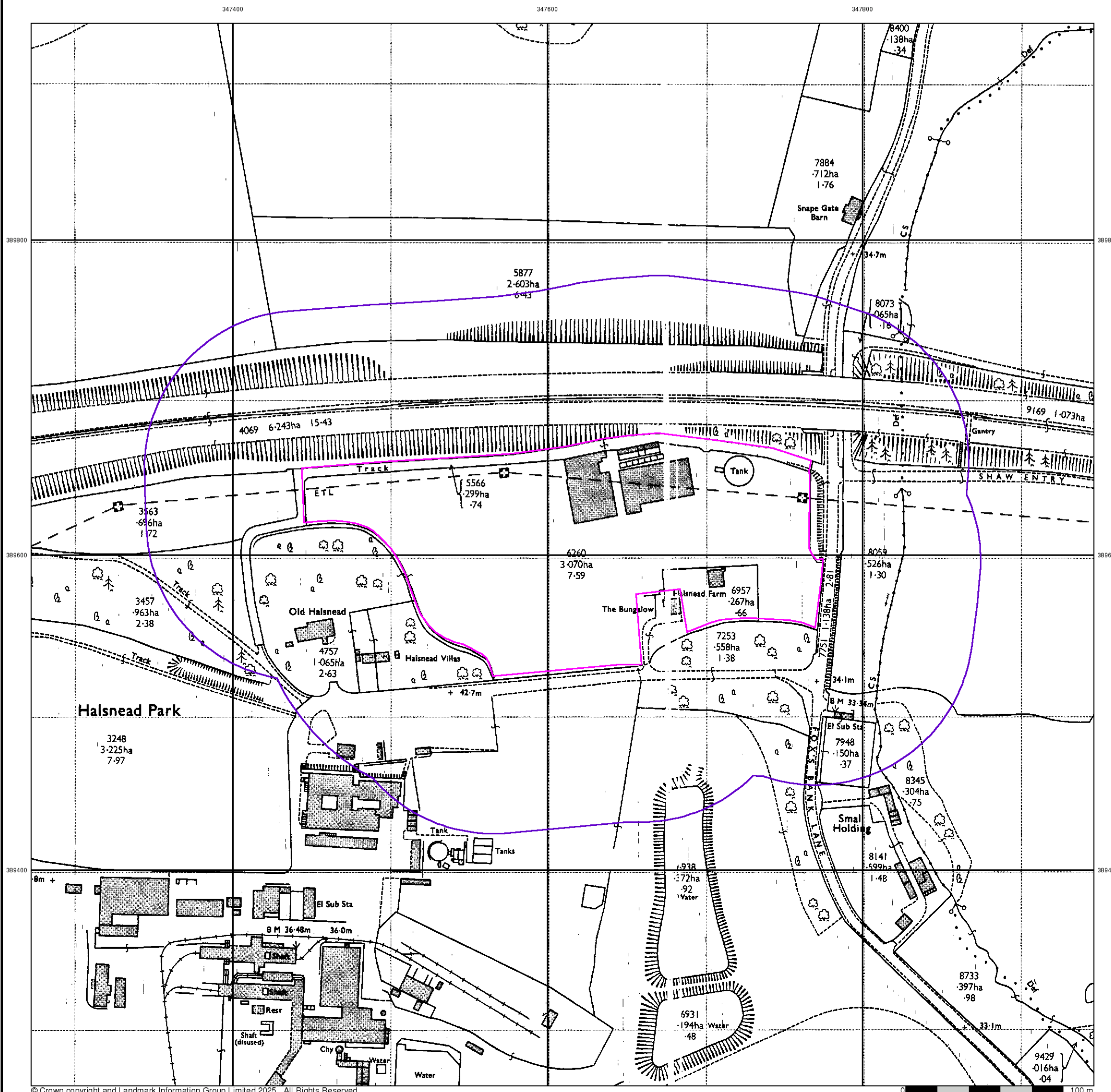


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



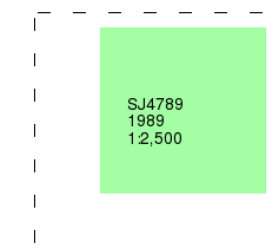
Additional SIMs

Published 1989

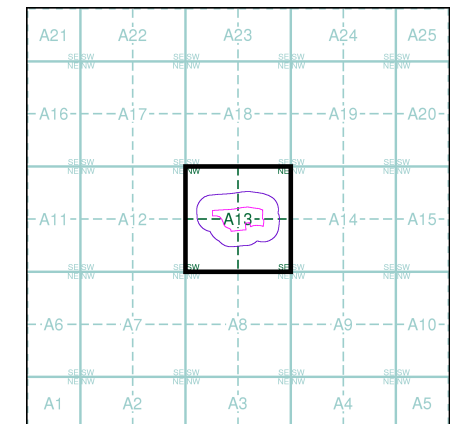
Source map scale - 1:2,500

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)



Historical Map - Segment A13

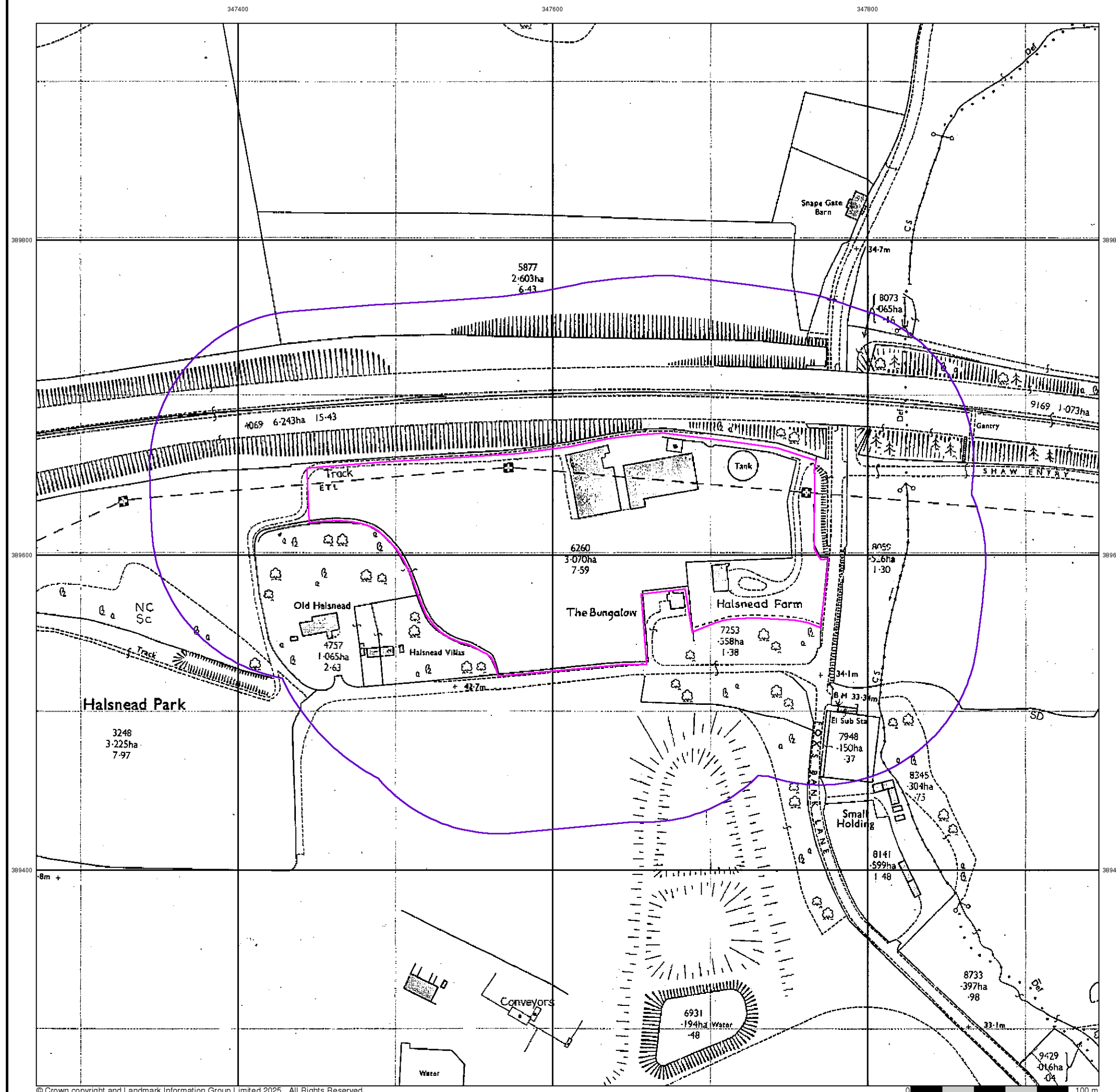


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



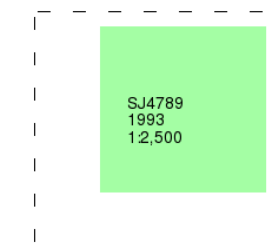
Large-Scale National Grid Data

Published 1993

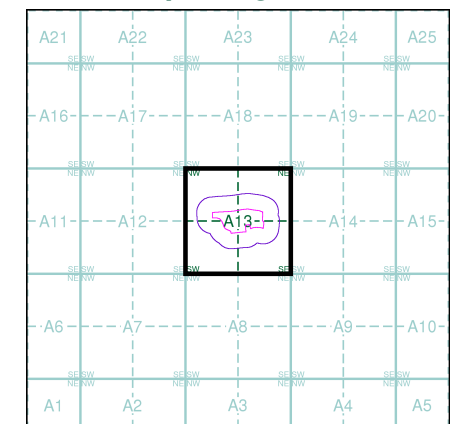
Source map scale - 1:2,500

'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)



Historical Map - Segment A13

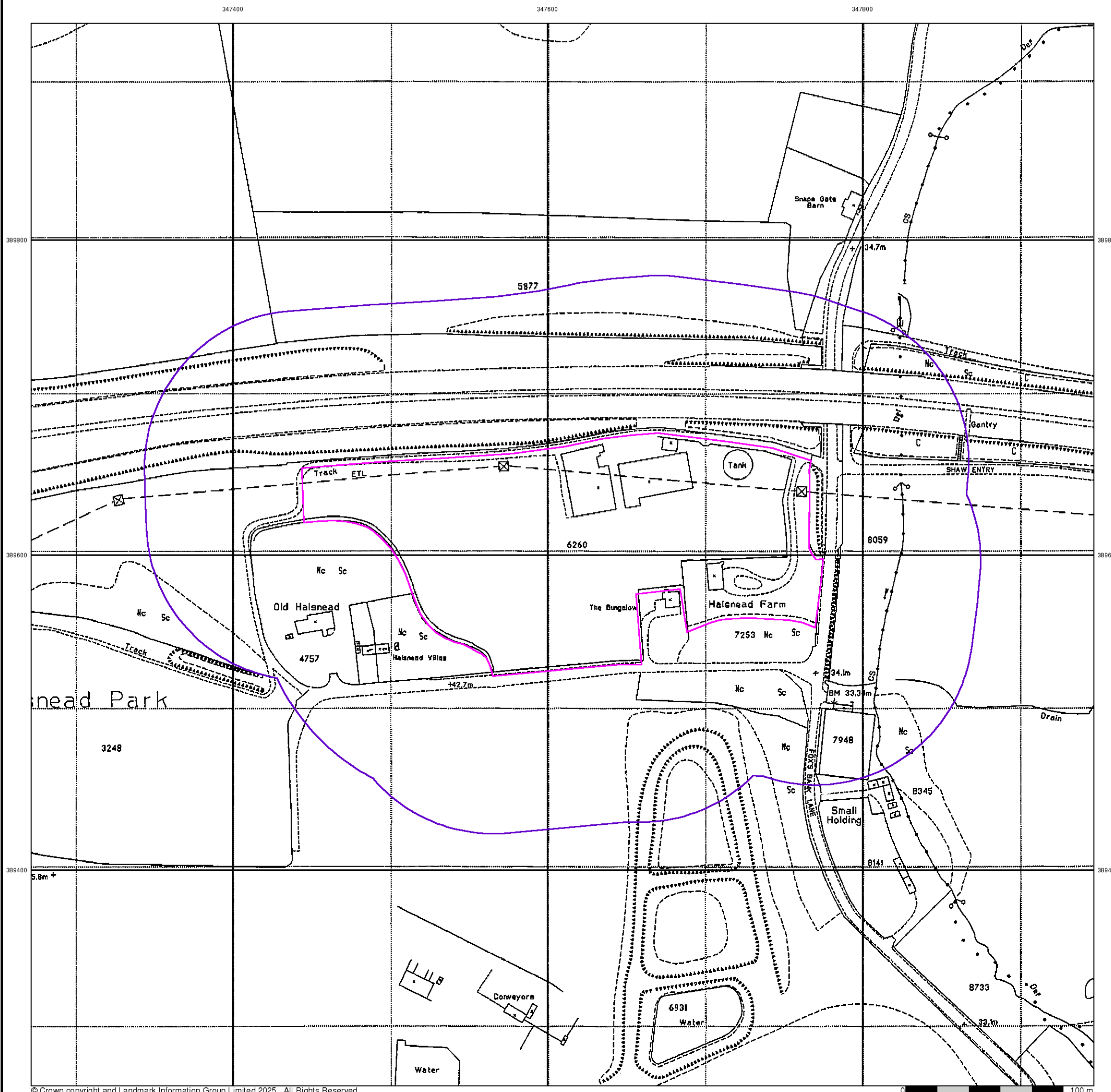


Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

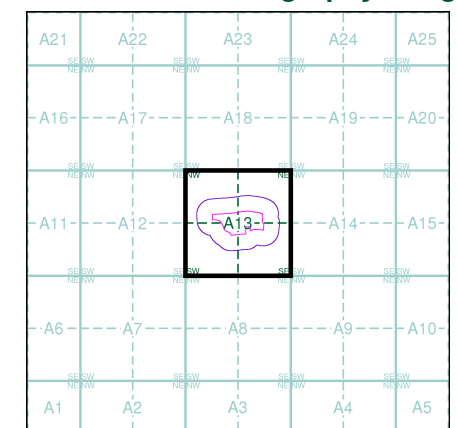


Historical Aerial Photography

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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

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

Curtins

Geology 1:50,000 Maps

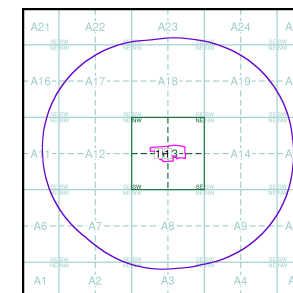
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

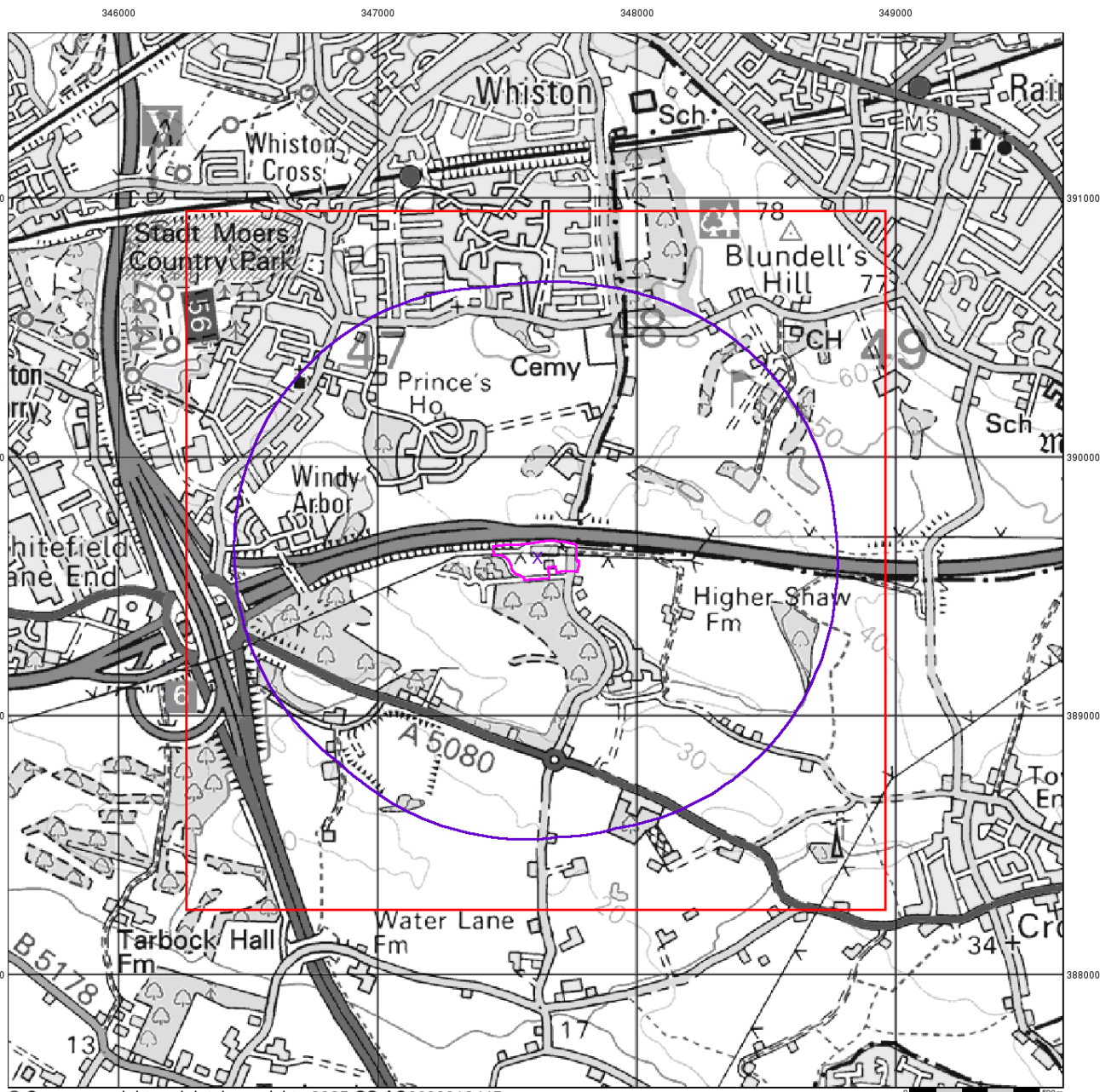
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Customer Reference:	087052
National Grid Reference:	347620, 389610
Slice:	A
Site Area (Ha):	3.43
Search Buffer (m):	1000

Site Details:

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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Fax: 0844 844 9951
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Curtins

Artificial Ground and Landslip

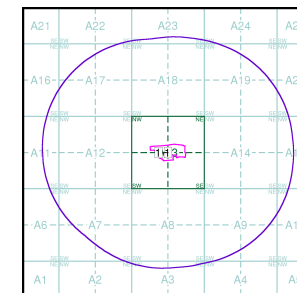
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions 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: 366631170_1_1
 Customer Reference: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details:

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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Page 2 of 5

Curtins

Bedrock and Faults

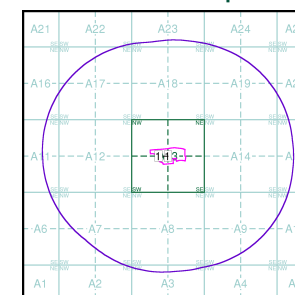
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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: 366631170_1_1
Customer Reference: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details:

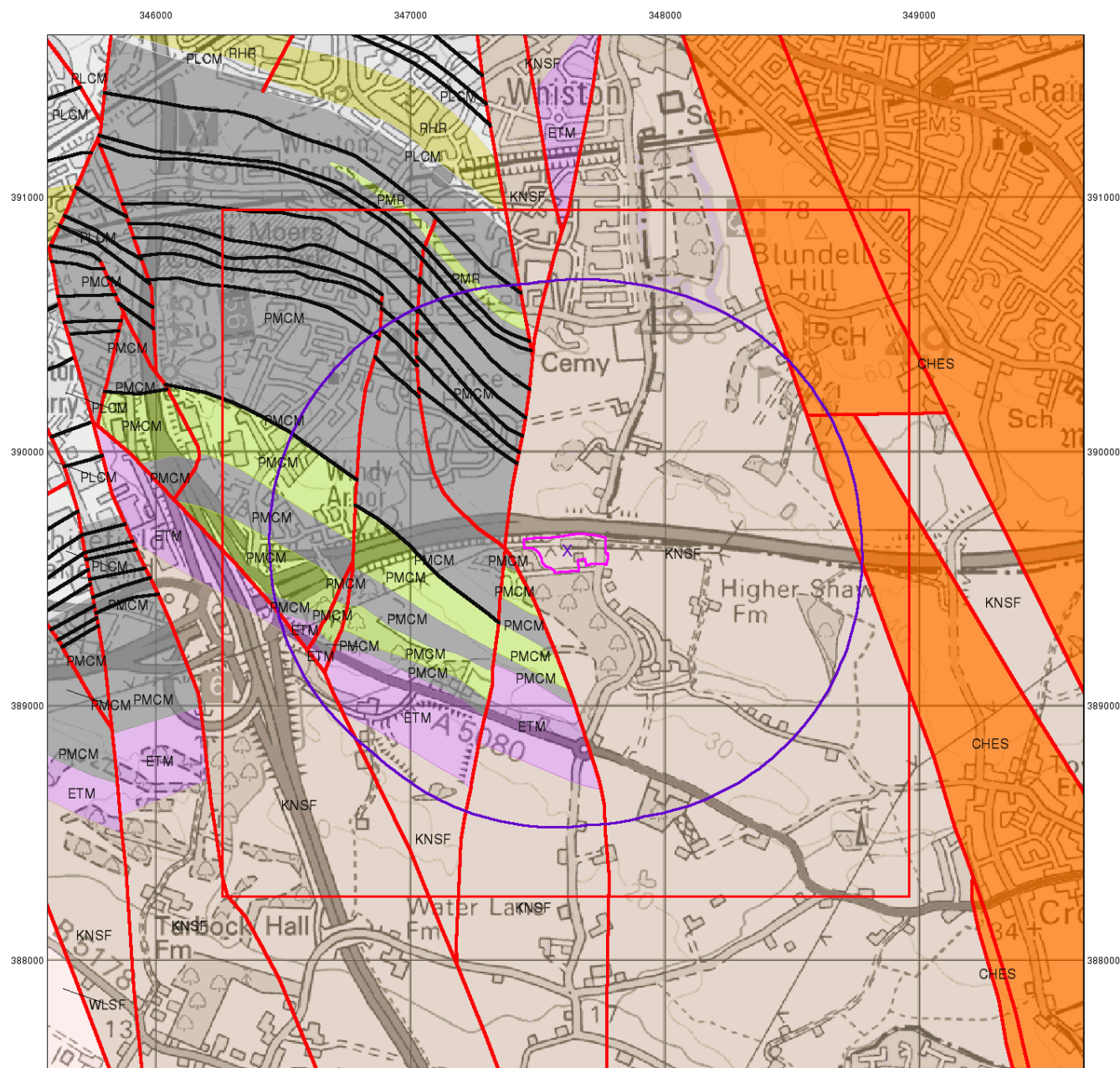
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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Curtins

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.

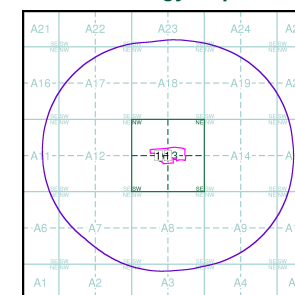
Additional Information

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: 366631170_1_1
Customer Reference: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details:

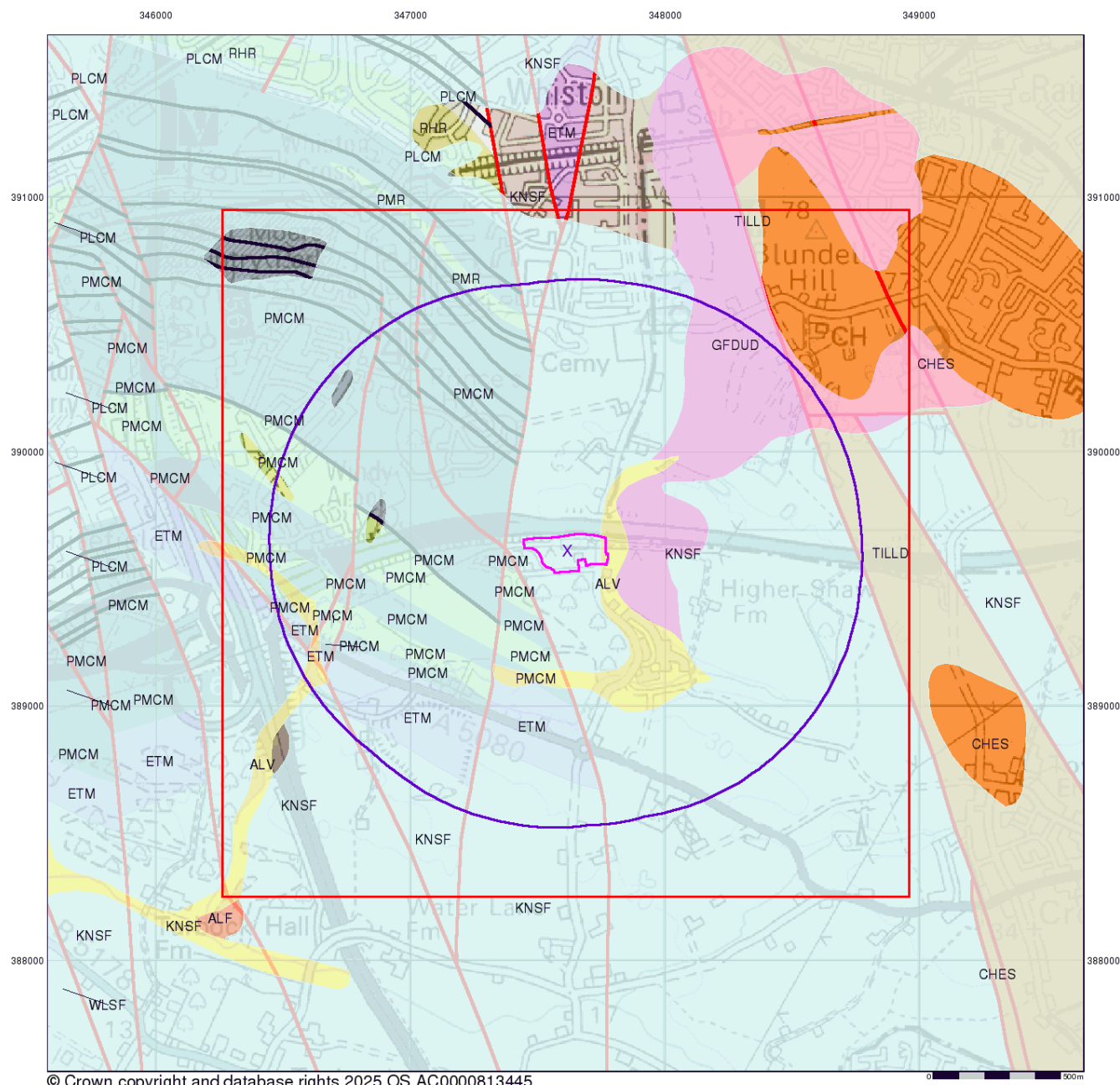
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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

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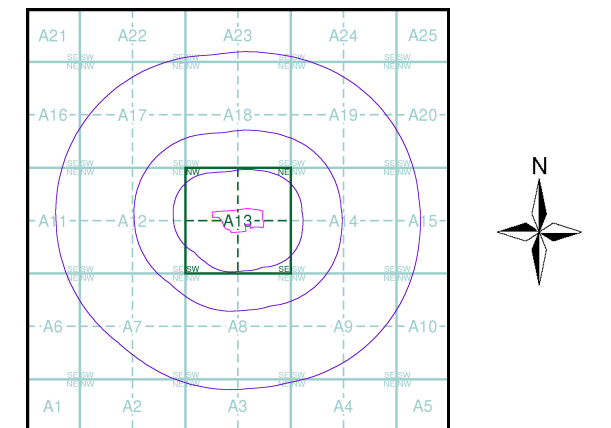
Page 5 of 5



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Site Sensitivity Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Industrial Land Use Map

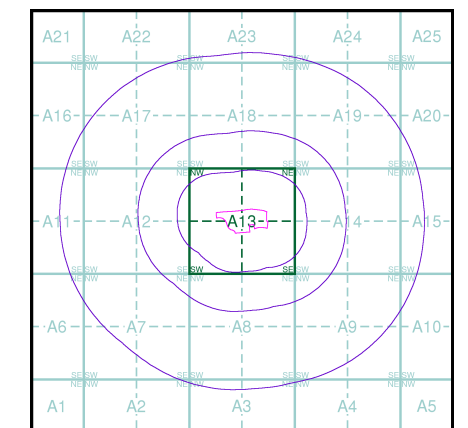
General

- 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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

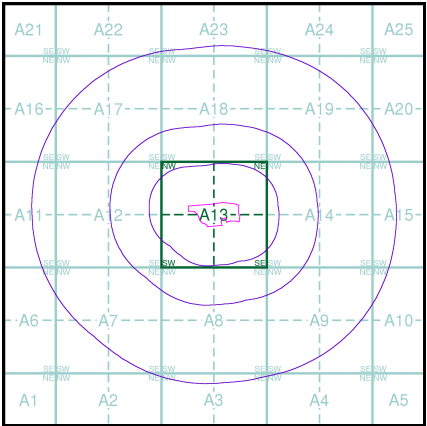
General

- 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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

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

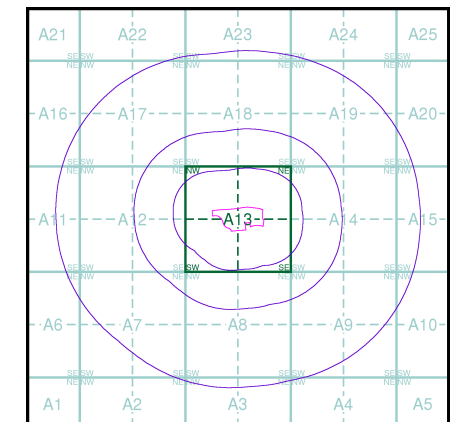
Agency and Hydrological (Boreholes)

- 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: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

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

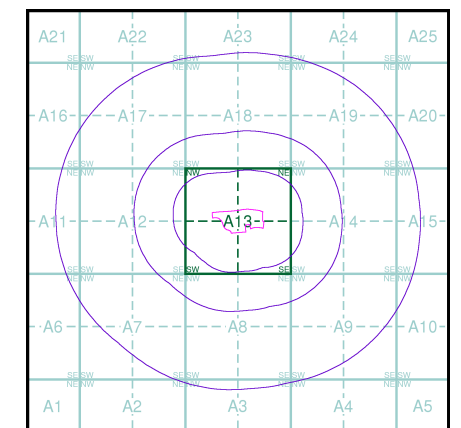
OS Water Network Data

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

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

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

Risk of Flooding from Surface Water

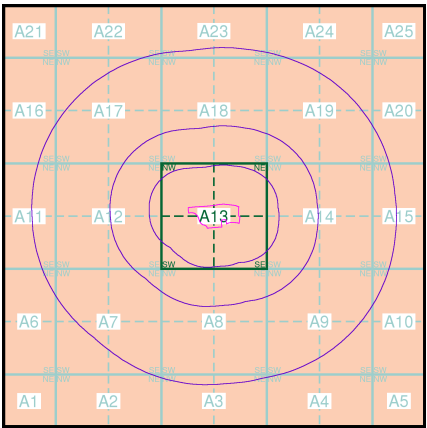
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EANRW Suitability Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

WFD Surface Waters Map

General

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

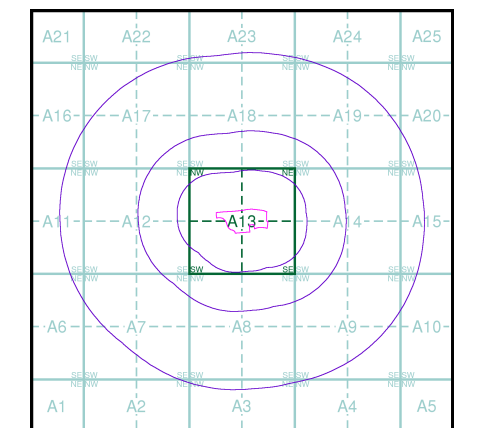
Water Framework Directive - Surface Water Quality

- High
- Good
- Moderate
- Poor
- Bad

Contours (height in meters)

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

WFD Surface Waters Map - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

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

Agency and Hydrological

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

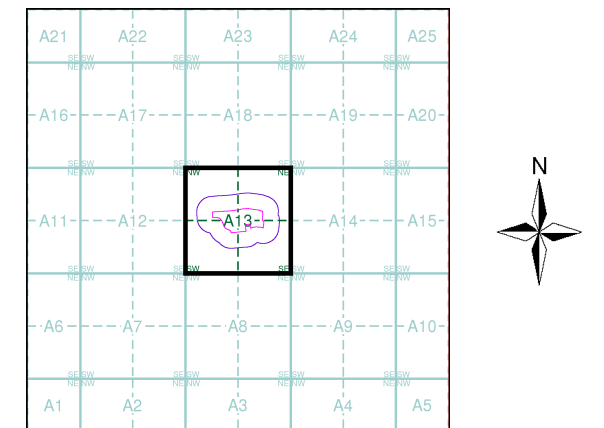
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Plot Buffer (m): 100

Site Details

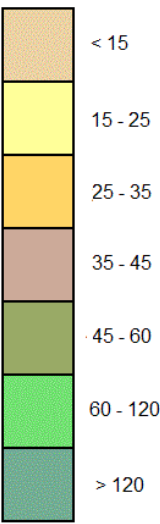
Halsnead Farm, Foxxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

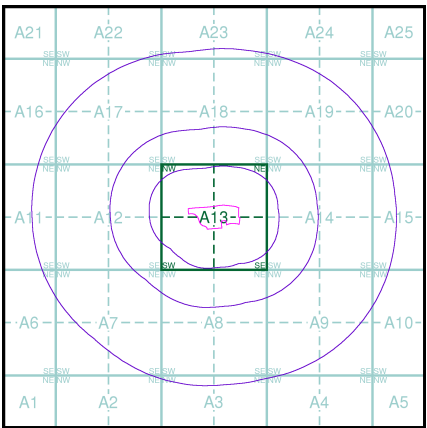
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

Order Details: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

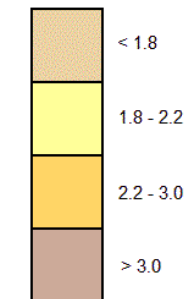
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

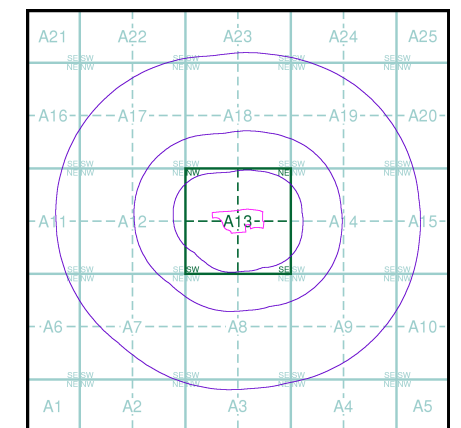
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

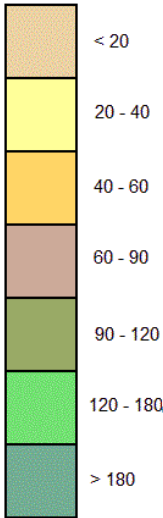
Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

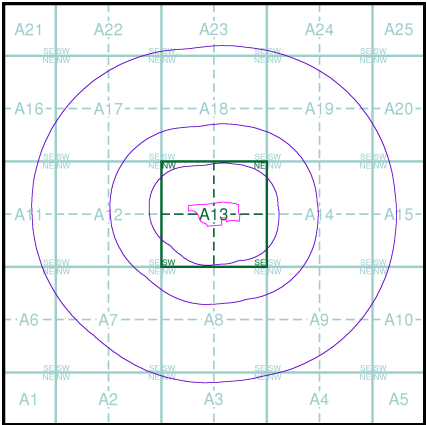
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

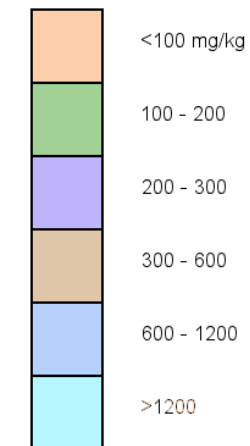
Curtins

General

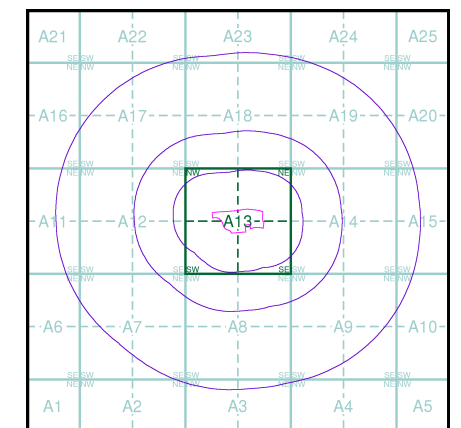
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

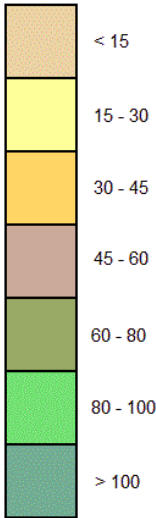
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

General

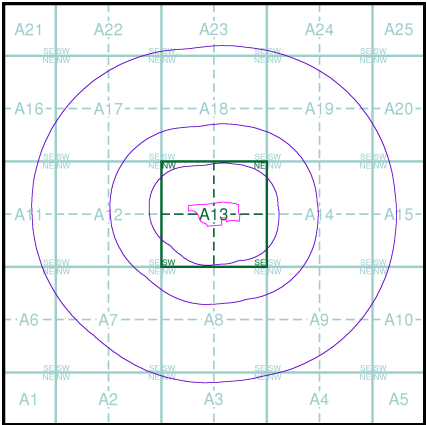
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Envirocheck[®] Report:

Mining and Ground Stability Datasheet

Order Details:

Order Number:

366631170_1_1

Customer Reference:

087052

National Grid Reference:

347620, 389610

Slice:

A

Site Area (Ha):

3.43

Search Buffer (m):

1000

Site Details:

Halsnead Farm, Foxs Bank Lane
Whiston
PRESCOT
L35 3SU

Client Details:

Mr R Taylor
Curtins Consulting Ltd
Merchant Exchange
17-19 Whitworth Street West
Manchester
M1 5WG

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).	
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	5
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.	
Historical Land Use Information (1:10,000)	6
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.	
Ground Stability Data (1:50,000)	7
The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.	
Historical Map List	8
The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.	
Data Currency	9
Data Suppliers	10
Useful Contacts	11

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		1	2	9
Coal Mining Affected Areas	pg 3	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 3	Yes	n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas	pg 3	4	4	1	3
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 5	1	1	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 6				1
Heap, unknown constituents	pg 6			1	
Mineral Railway	pg 6				1
Mining & quarrying general					
Mining of coal & lignite	pg 6		1		2
Quarrying of sand & clay, operation of sand & gravel pits	pg 6				1
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 6		1		4
Potentially Infilled Land (Water)	pg 6	1		1	3
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 7	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Report Version v53.0

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 3 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259948 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	245	1	347398 389345
1	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 2 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259947 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	265	1	347396 389320
1	BGS Recorded Mineral Sites Site Name: Cronton Colliery, No. 1 Pit Location: Cronton, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 259946 Type: Underground Status: Ceased Operator: Ncb North-Western Division, Area No. 3 (St. Helens) Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	282	1	347395 389299
2	BGS Recorded Mineral Sites Site Name: The Old Delf Location: Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 241389 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	612	1	346833 389664
3	BGS Recorded Mineral Sites Site Name: Fox'S Bank Location: Cronton, Widnes, Cheshire Source: British Geological Survey, National Geoscience Information Service Reference: 10974 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Sandstone Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	694	1	348000 388900
4	BGS Recorded Mineral Sites Site Name: Cronton Claypit Location: Cronton, Widnes, Cheshire Source: British Geological Survey, National Geoscience Information Service Reference: 5792 Type: Opencast Status: Active Operator: Ibstock Brick Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Etruria Marl) Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	833	1	347111 388825

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	BGS Recorded Mineral Sites Site Name: Parren'S Covert Sand Pit Location: Whiston, Prescott, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 206488 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Silica Sand Positional Accuracy: Located by supplier to within 10m	A19NW (N)	952	1	347960 390595
6	BGS Recorded Mineral Sites Site Name: Stone Quarry Plantation Location: Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 95183 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17NE (N)	966	1	347261 390604
7	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 3 Pit Location: Whiston Lane Ends, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187635 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	969	1	346598 390126
8	BGS Recorded Mineral Sites Site Name: Parren'S Covert Sand Pit Location: Whiston, Prescott, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 206489 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Kinnerton Sandstone Formation (Lower Mottled Sandstone) Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A19NW (NE)	978	1	348046 390597
9	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 2 Pit Location: Whiston Lane Ends, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187634 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A16SE (NW)	982	1	346565 390093
9	BGS Recorded Mineral Sites Site Name: Halsnead Colliery, No. 1 Pit Location: Whiston Lane Ends, Whiston, Prescott, Merseyside Source: British Geological Survey, National Geoscience Information Service Reference: 187633 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A16SE (NW)	995	1	346535 390060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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 (NE)	0	2	347616 389611
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	3	347616 389611
	Non Coal Mining Areas of Great Britain No Hazard				
10	Potential Mining Areas Name: Cronton Ceased Operation: 1933 Commodity: Coal; Felcroft or Potatoo Delph Reference: 10958 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	347616 389611
11	Potential Mining Areas Name: Cronton Ceased Operation: 1931 Commodity: Coal; Yard Reference: 10416 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	347616 389611
12	Potential Mining Areas Name: Cronton Ceased Operation: 1931 Commodity: Coal; Pasture; Earthy Delph; Burgy; Prescott Main Delph Reference: 11564 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	347616 389611
13	Potential Mining Areas Name: Cronton Ceased Operation: 1936 Commodity: Coal; Cheshire Reference: 11793 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (NE)	0	4	347616 389611
14	Potential Mining Areas Name: Whiston Ceased Operation: 1897 Commodity: Coal; Rushy Park Reference: Not Supplied Alternate: Not Supplied Name/Mine: Not Supplied Custodian: J. and P. Higson, Crown Buildings, 18 Booth Street, Manchester.	A13NE (N)	86	4	347618 389771
15	Potential Mining Areas Name: Prescott and Whiston Ceased Operation: 1897 Commodity: Coal; Rushy Park Reference: 3671 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (N)	86	4	347618 389771
16	Potential Mining Areas Name: Prescott and Whiston Ceased Operation: 1903 Commodity: Coal; Bastians; Tenlands Reference: 4441 Alternate: Not Supplied Name/Mine: Not Supplied Custodian: Not Supplied	A13NE (N)	94	4	347618 389771

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Potential Mining Areas Name: Halsnead and Whiston Ceased Operation: 1910 Commodity: Coal; Main Delf; Higher Bugg; Lower Bugg; Earthy Delf; Pasture; Felcroft; Yard; Discovery; Bastian; Little Delf; Tenlands Reference: Not Supplied Alternate Nos. 9, 10, 11 Name/Mine: Ridings Alternate Name/Mine: Custodian: J. and P. Higson, Crown Buildings, 18 Booth Street, Manchester.	A13NW (NW)	146	4	347360 389774
18	Potential Mining Areas Name: Halsnead; Old Ceased Operation: Not Supplied Commodity: Coal; Higher Bug Reference: Not Supplied Alternate Not Supplied Name/Mine: Custodian: Travers and Gale, Church Street, Leigh.	A12NE (W)	488	4	346956 389617
19	Potential Mining Areas Name: Halsnead; Old Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate Not Supplied Name/Mine: Custodian: Not Supplied	A12NE (W)	502	4	346958 389777
20	Potential Mining Areas Name: Carrs Ceased Operation: 1889 Commodity: Coal; Main Delf Reference: 2378 Alternate Not Supplied Name/Mine: Custodian: Not Supplied	A18SW (NW)	527	4	347363 390176
21	Potential Mining Areas Name: Halsnead Ceased Operation: 1895 Commodity: Coal; Pasture; Felcroft; Discovery; Yard; Lower Bug Reference: 2739 Alternate Not Supplied Name/Mine: Custodian: Not Supplied	A11NE (W)	898	4	346556 389781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Extractive Industries or Potential Excavations from 1950-1980 Use: Pond First Map Published 1959 Date: Last Map Published N/A Date:	A13NE (E)	0	-	347706 389637
23	Extractive Industries or Potential Excavations from 1950-1980 Use: Unspecified Pit First Map Published 1959 Date: Last Map Published N/A Date:	A13SW (SW)	97	-	347434 389517

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	General Quarrying Use: Not Supplied Date of Mapping: 1850	A17NE (N)	954	-	347268 390592
25	Heap, unknown constituents Use: Not Supplied Date of Mapping: 1990	A13SE (S)	255	-	347745 389281
26	Mineral Railway Use: Not Supplied Date of Mapping: 1928 - 1955	A7NE (SW)	503	-	347201 389170
27	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1928 - 1990	A13SE (SE)	4	-	347653 389527
28	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1850	A17SE (NW)	658	-	347099 390216
29	Mining of coal & lignite Use: Not Supplied Date of Mapping: 1850	A17SW (NW)	946	-	346606 390095
30	Quarrying of sand & clay, operation of sand & gravel pits Use: Not Supplied Date of Mapping: 1956	A19NW (N)	960	-	348020 390586
31	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A13SE (S)	241	-	347740 389293
32	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17SE (NW)	658	-	347099 390216
33	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1990	A17SW (NW)	946	-	346606 390095
34	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A17NE (N)	955	-	347271 390594
35	Potentially Infilled Land (Non-Water) Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A19NW (N)	960	-	348020 390586
36	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13NE (E)	0	-	347706 389643
37	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A8NW (S)	385	-	347532 389140
38	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A12SE (SW)	522	-	347024 389314
39	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A11NE (W)	990	-	346455 389641
40	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A23SE (N)	1000	-	347918 390652

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
41	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
42	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
43	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
44	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	47	1	347726 389506
45	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	122	1	347511 389414
46	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
47	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	0	1	347748 389611
48	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	347616 389611
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	51	1	347814 389529

The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Lancashire And Furness	107_15	1892
Lancashire And Furness	107_15	1907
Lancashire And Furness	107_15	1927
Lancashire And Furness	107_15	1937
Ordnance Survey Plan	SJ4789	1959

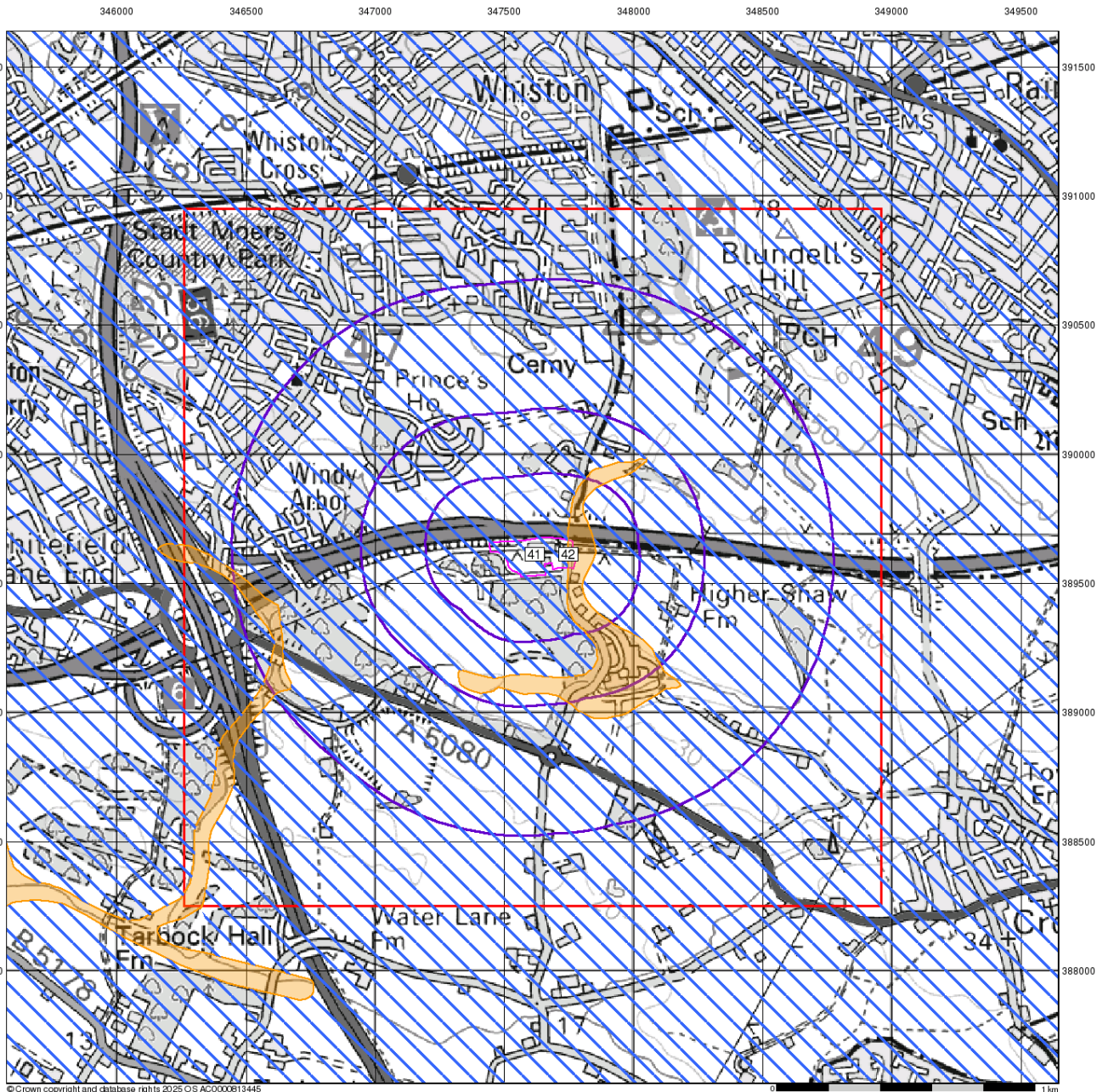
The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Lancashire And Furness	114_00	1849
Lancashire And Furness	107_00	1850
Cheshire	015_00	1881
Lancashire And Furness	107_SE	1894
Lancashire And Furness	114_NE	1894
Lancashire And Furness	107_SE	1908
Lancashire And Furness	114_NE	1908
Lancashire And Furness	107_SE	1928
Lancashire And Furness	114_NE	1928
Ordnance Survey Plan	SJ48NE	1955
Ordnance Survey Plan	SJ49SE	1956
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SJ48NE	1990
Ordnance Survey Plan	SJ49SE	1991

Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	March 2024	Bi-Annually
Coal Mining Affected Areas The Coal Authority - Property Searches	February 2023	Annual Rolling Update
Man Made Mining Cavities Stantec UK Ltd	December 2023	Bi-Annually
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities Stantec UK Ltd	December 2023	Bi-Annually
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features Landmark Information Group Limited	July 2023	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
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
Brine Subsidence Solution Area Johnson Poole & Bloomer	December 2020	

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
The Coal Authority	 The Coal Authority
Ove Arup	
Stantec UK Ltd	 Stantec
Wardell Armstrong	 wardell armstrong your earth our world
Johnson Poole & Bloomer	



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Curtins

Ground Stability Data (1:50,000)

General

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

Potential for Compressible Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Collapsible Ground Stability Hazards

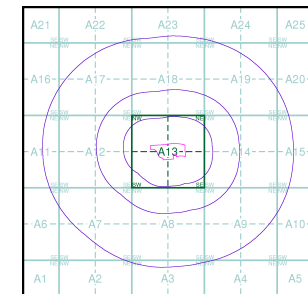
- High
- Moderate
- Low
- Very Low

Brine Pumping and Salt Mining

- Brine Pumping Related Feature
- Salt Mining Related Feature

- Point
- Polygon

Mining and Ground Stability - Slice A



Order Details

- Order Number: 366631170_1_1
- Customer Ref: 087052
- National Grid Reference: 347620, 389610
- Slice: A
- Site Area (Ha): 3.43
- Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
INFORMATION GROUP

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

Ground Stability Data (1:50,000)

General

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

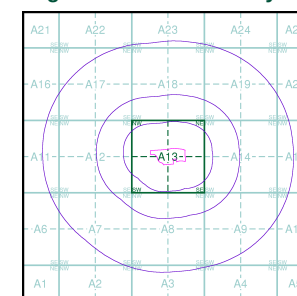
Potential for Landslide Ground Stability Hazards

- High
- Low
- Moderate
- Very Low

Potential for Ground Dissolution Stability Hazards

- ▨ High
- ▨ Low
- ▨ Moderate
- ▨ Very Low

Mining and Ground Stability - Slice A

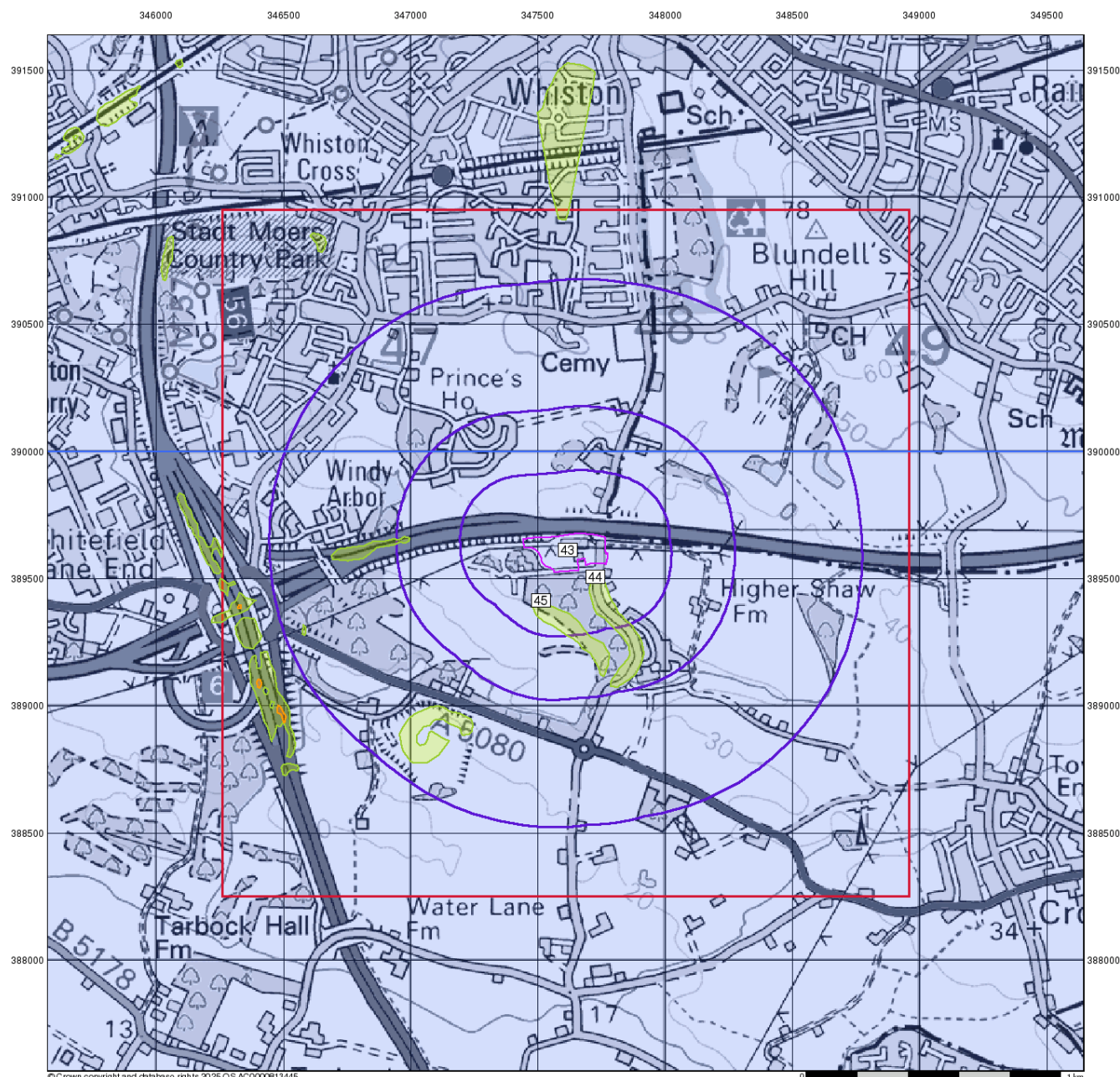


Order Details

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Ground Stability Data (1:50,000)

General

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

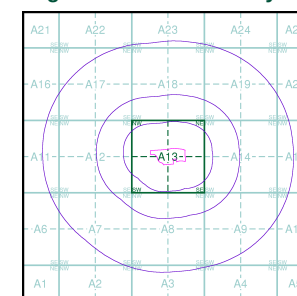
Potential for Running Sand Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Potential for Shrinking or Swelling Clay Ground Stability Hazards

- High
- Moderate
- Low
- Very Low

Mining and Ground Stability - Slice A

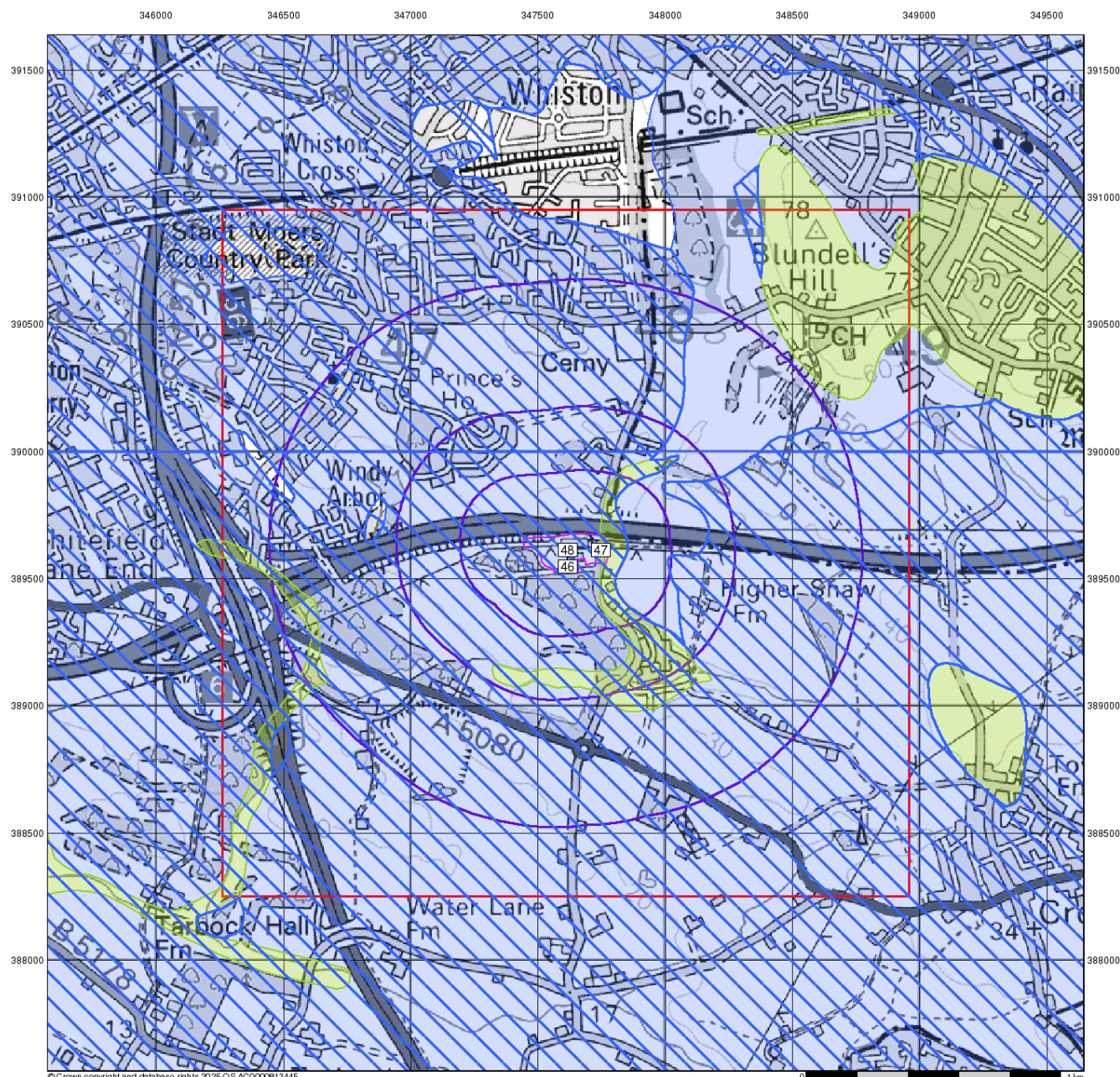


Order Details

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Historical Land Use Information (1:10,000)

General

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

Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

	Point	Line	Polygon
Air Shafts			
Disturbed Ground			
General Quarrying			
Heap, unknown constituents			
Mineral Railway			
Mining and Quarrying General			
Mining of Coal & Lignite			
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits			

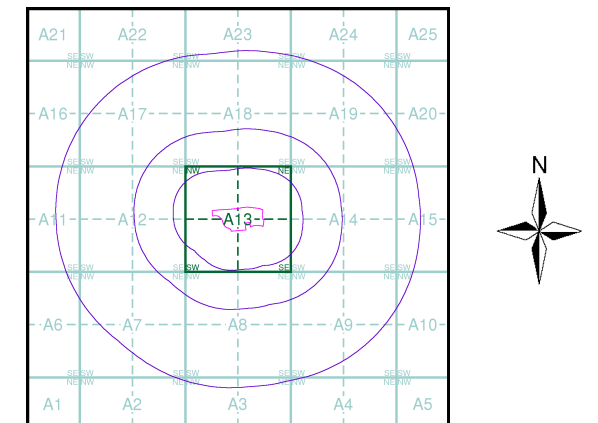
Historical Land Use

	Point	Line	Polygon
Potentially Infilled Land (Non-Water)			
Potentially Infilled Land (Water)			
Former Marsh			

Mining Data

- Potential Mining Area
BGS Recorded Mineral Site

Mining and Ground Stability - Slice A



Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

General

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

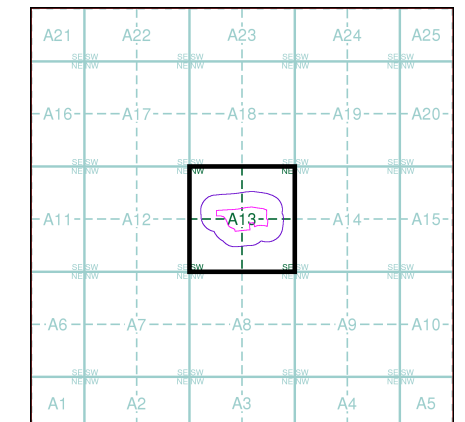
Potentially Contaminative Industrial Uses (Extractive Industries Activity)

	Point	Line	Polygon
Extractive Industries Activity from 1855 - 1909	▲	—	■
Extractive Industries Activity from 1893 - 1915	▲	—	■
Extractive Industries Activity from 1906 - 1937	▲	—	■
Extractive Industries Activity from 1924 - 1949	▲	—	■
Extractive Industries Activity from 1950 - 1980	▲	—	■

Subterranean Features

	Point	Line	Polygon
Subterranean Features	▼	---	■

Mining and Ground Stability - Segment A13



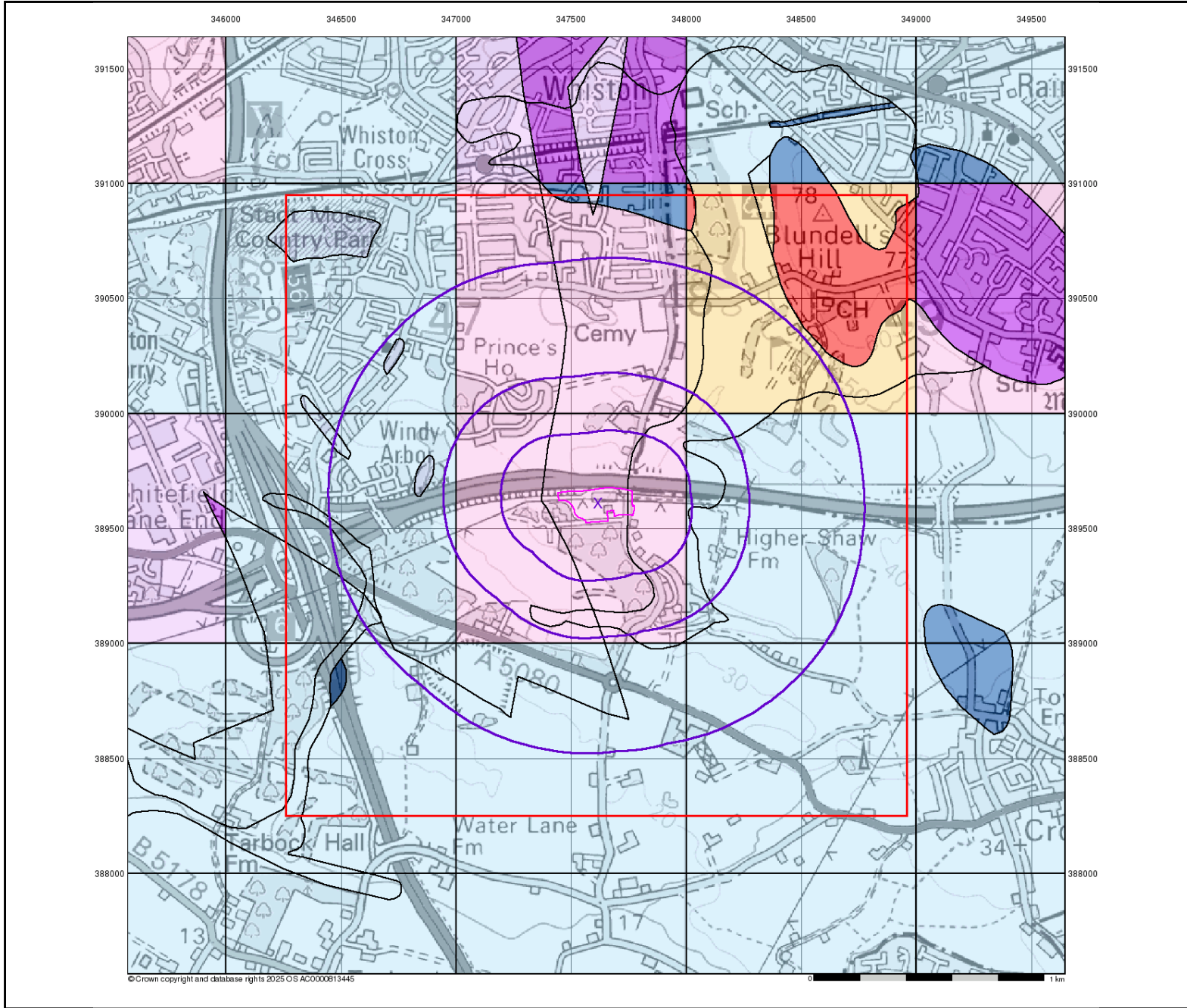
Order Details

Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Plot Buffer (m): 100

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU





Curtins

Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

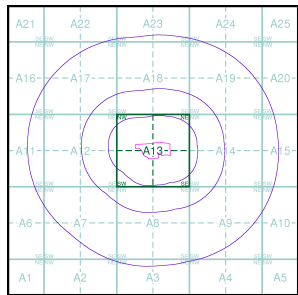
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

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

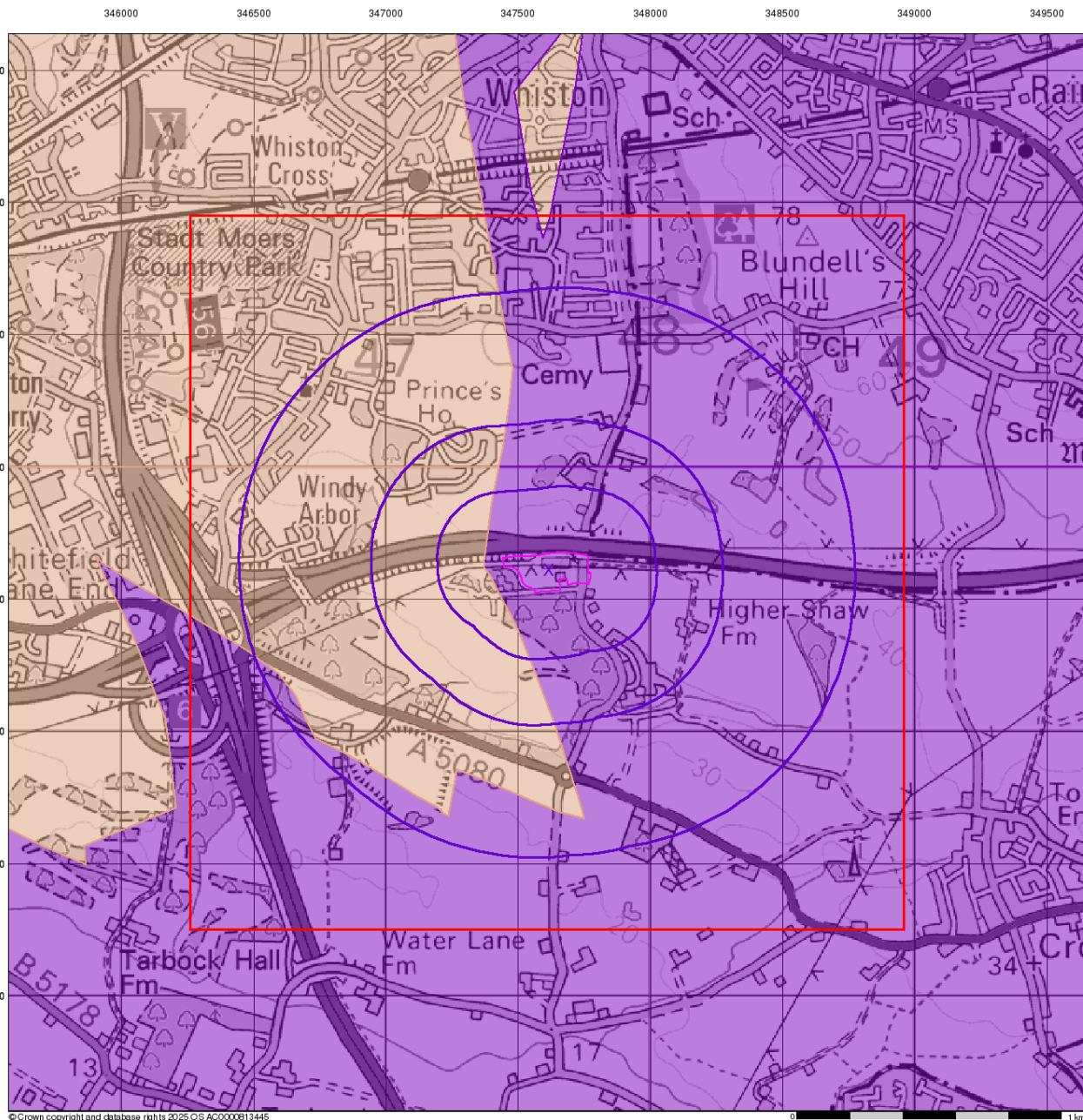
Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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

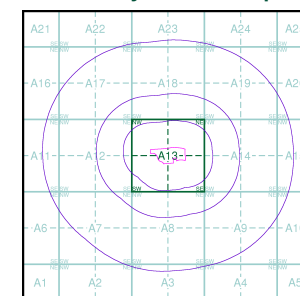
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

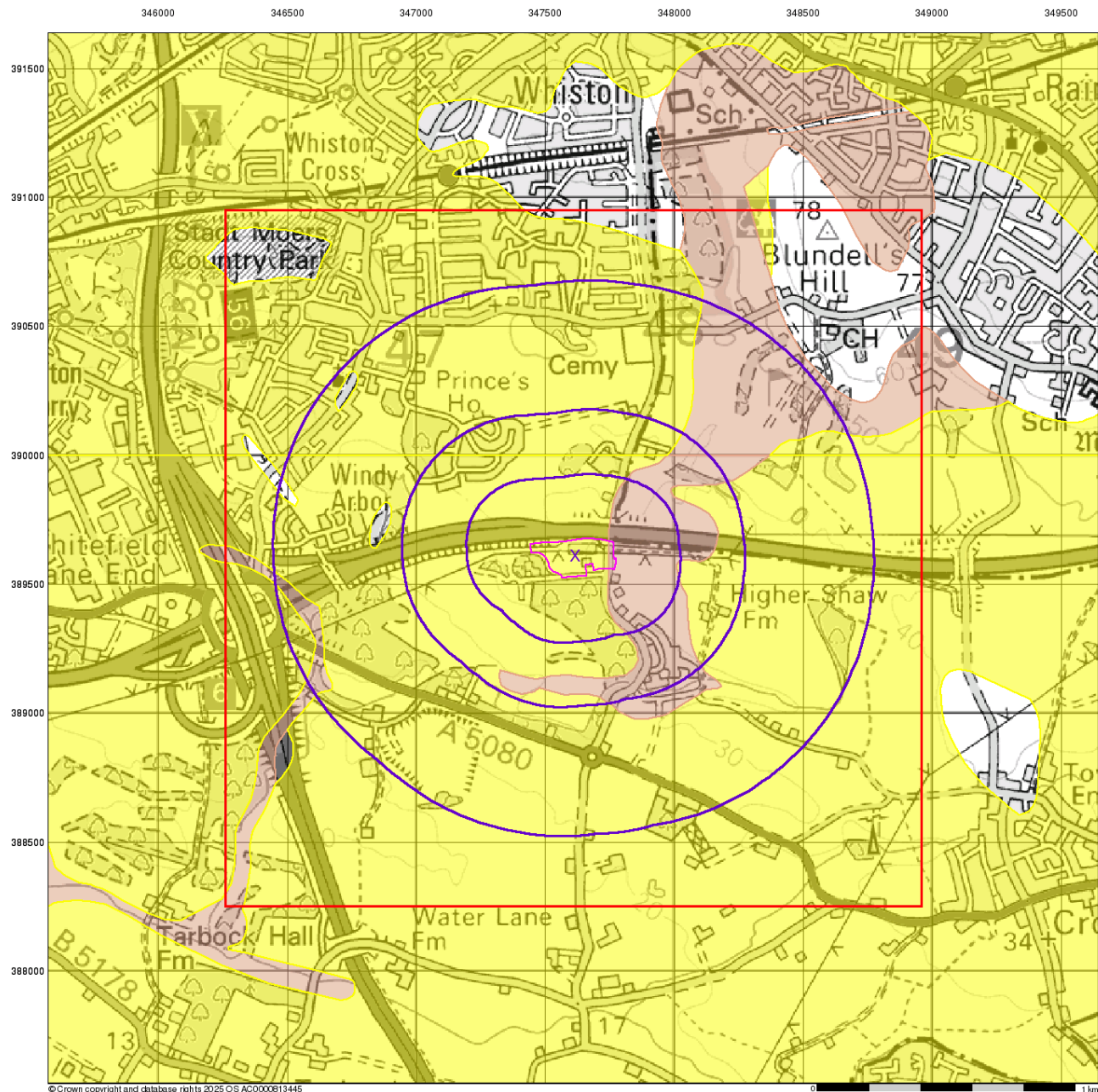
Order Number: 366631170_1_1
Customer Ref: 087052
National Grid Reference: 347620, 389610
Slice: A
Site Area (Ha): 3.43
Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

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Curtins

Superficial Aquifer Designation

General

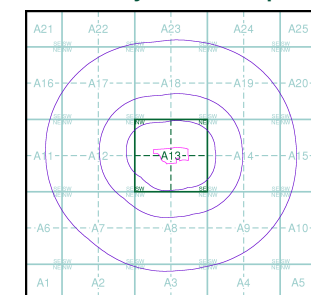
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU

Landmark
 INFORMATION GROUP

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

Source Protection Zones

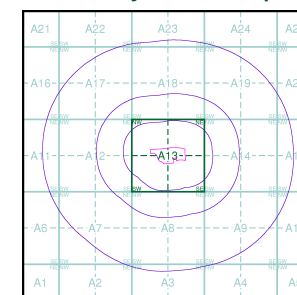
General

- 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

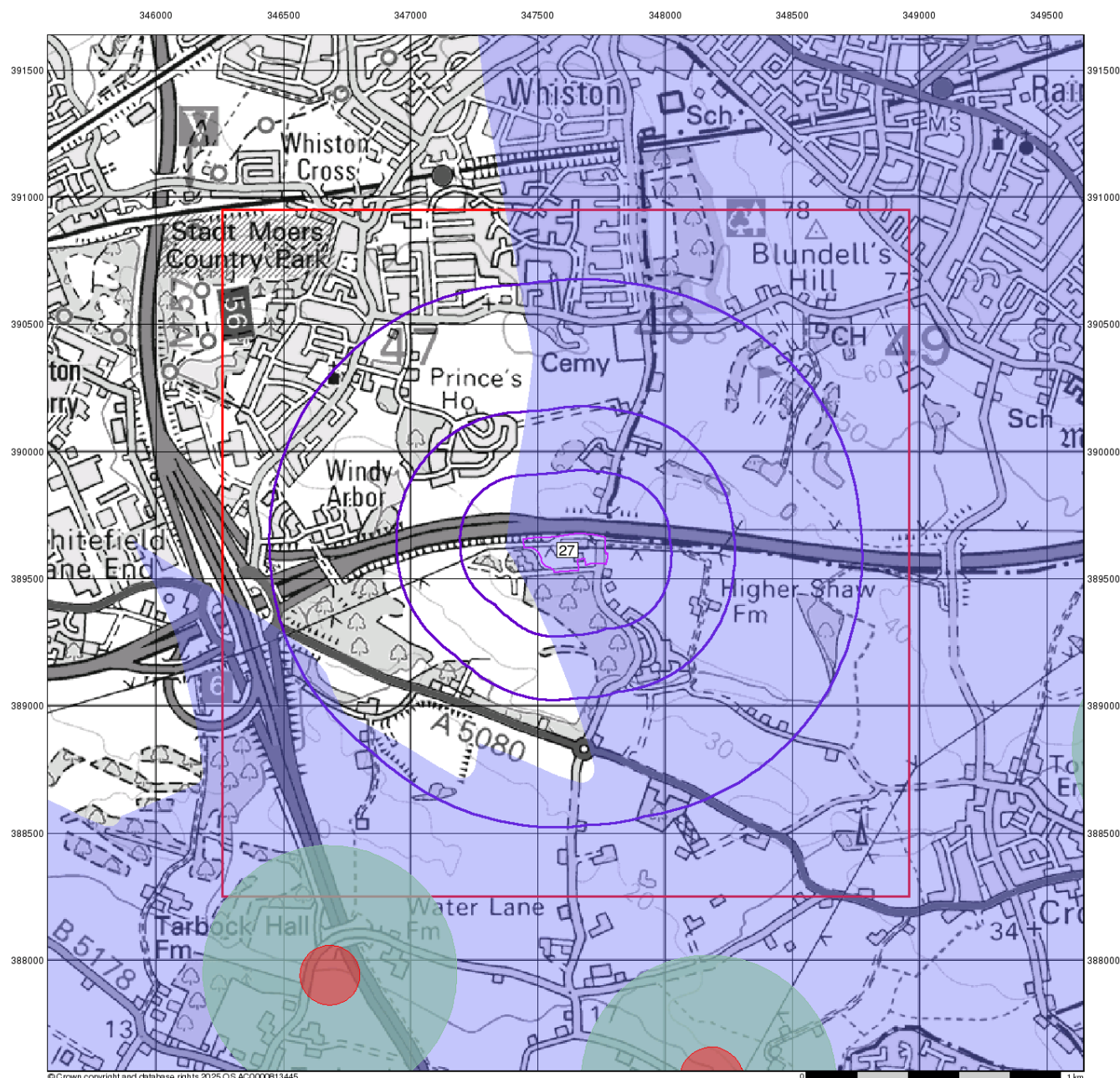


Order Details

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Sensitive Land Uses

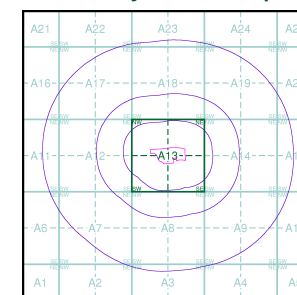
General

- 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

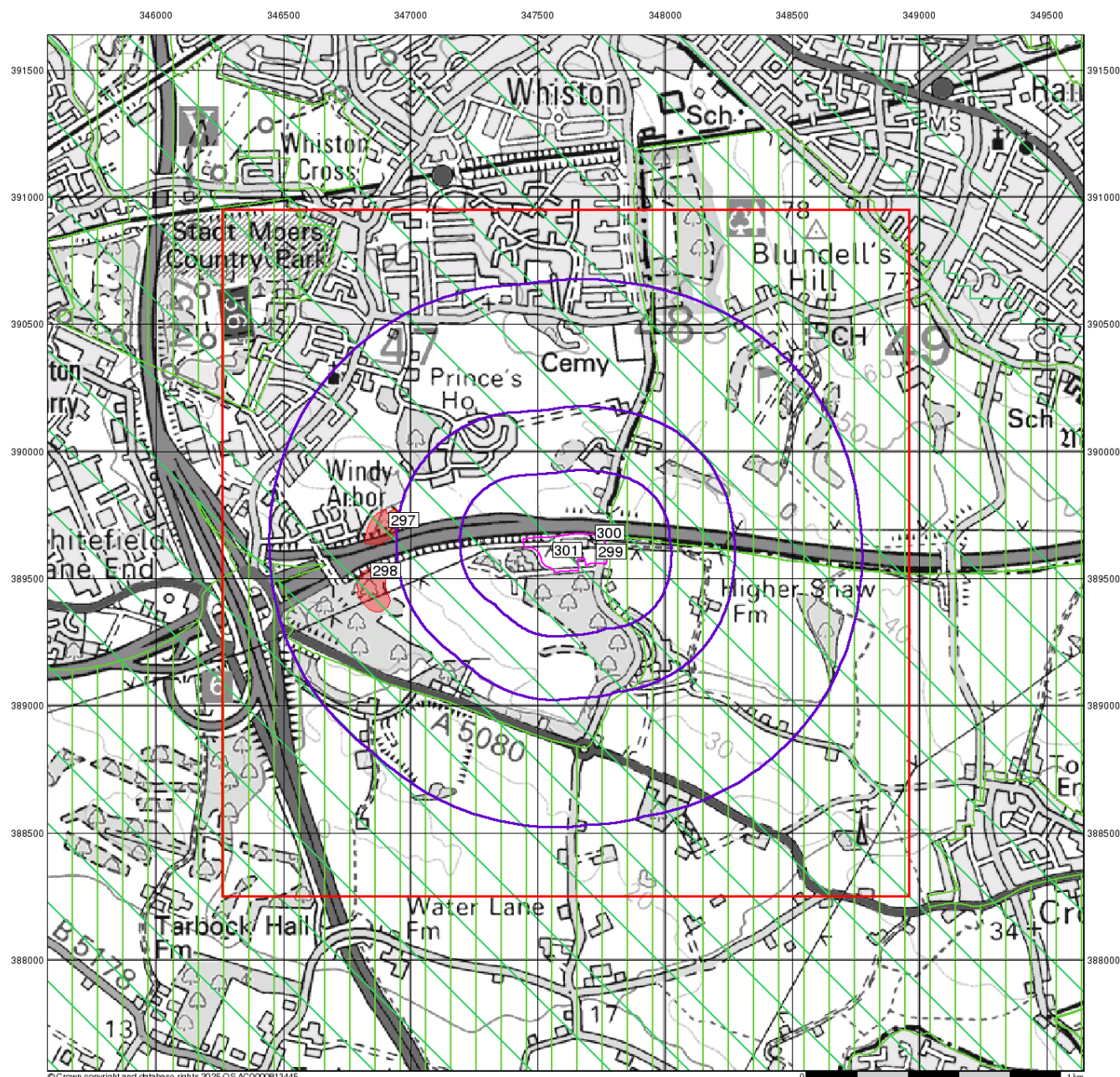


Order Details

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



BGS Flood GFS Data

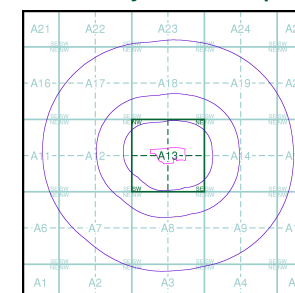
General

-  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

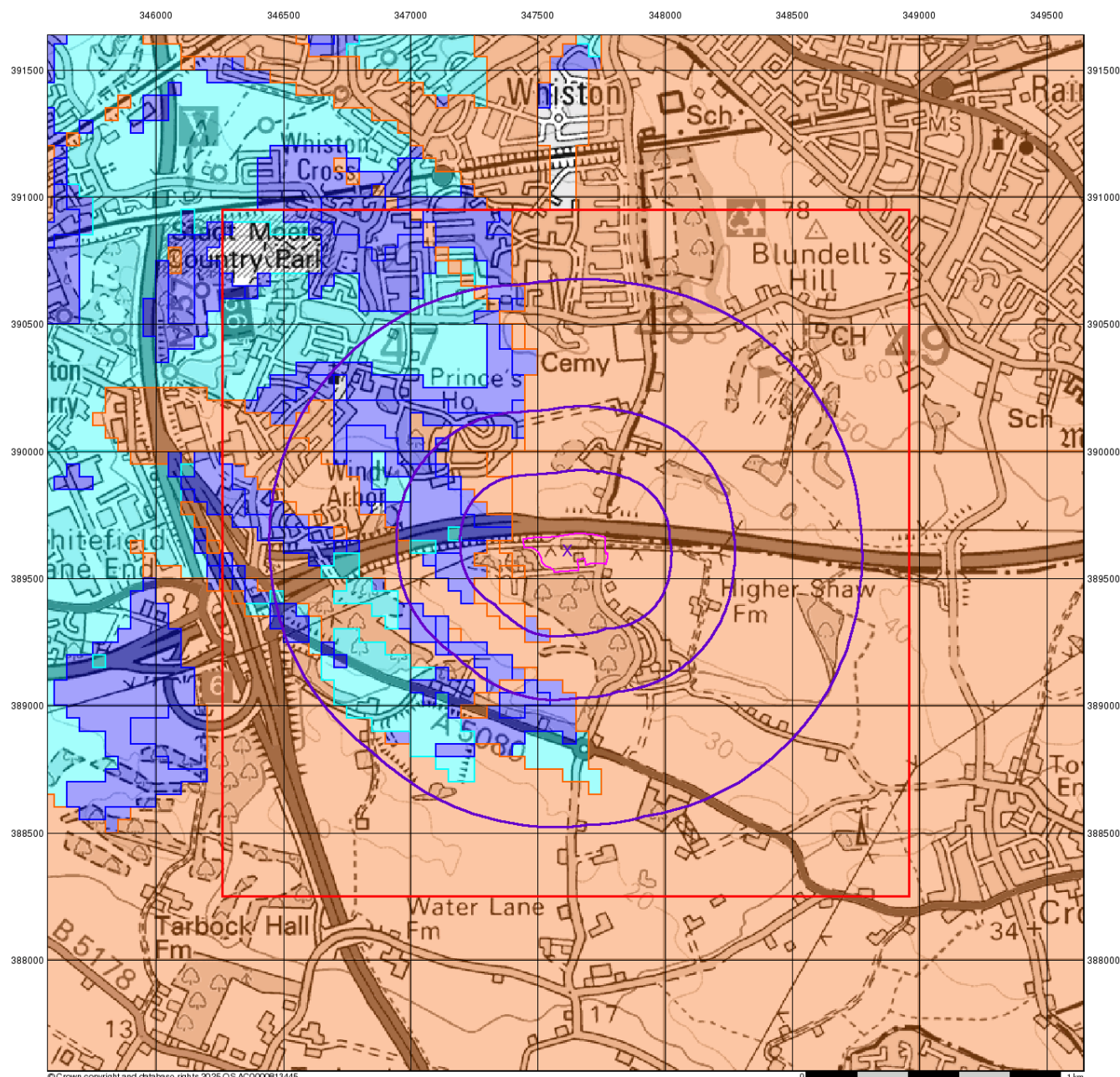


Order Details

Order Number: 366631170_1_1
 Customer Ref: 087052
 National Grid Reference: 347620, 389610
 Slice: A
 Site Area (Ha): 3.43
 Search Buffer (m): 1000

Site Details

Halsnead Farm, Foxs Bank Lane, Whiston, PRESCOT, L35 3SU



Appendix C – Mining Remediation Authority Records



The Coal
Authority

Consultants Coal Mining Report

Halsnead Farm
Foxs Bank Lane
Cronton
Knowsley
L35 3SU

Date of enquiry:	8 January 2025
Date enquiry received:	8 January 2025
Issue date:	8 January 2025

Our reference:	51003471944001
Your reference:	087052



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

Halsnead Farm
Foxs Bank Lane
Cronton
Knowsley
L35 3SU

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	RAMS	Coal	3033	128	West	12.7	South-West	180	1922
unnamed	HIGHER FLORIDA	Coal	3036	131	West	12.3	South-West	180	1924
unnamed	HIGHER PIGEON HOUSE (PIGEON HOUSE)	Coal	303T	185	West	8.5	South-West	140	1936
unnamed	HIGHER FLORIDA	Coal	3039	216	South	12.8	South-West	180	1929
unnamed	RUSHY PARK	Coal	304M	397	Beneath Property	10.9	South-West	130	1930
unnamed	RUSHY PARK	Coal	304L	435	North	13.4	South-West	130	1896
unnamed	RUSHY PARK	Coal	304N	449	South-East	9.6	South-West	130	1927

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

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

14235	NW174	NW638
11564	NW535	10958
10416	NW756	NW593

Our records show we have more plans than those shown above which could affect the enquiry boundary.

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

Outcrops

No outcrops recorded.

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
9.5	West

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

Distance to gas incident/remediation (m)	Direction
216.4	South-West
236.0	South-West
257.8	South-West

See Section 4 for further information.

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 in an area where notices to withdraw support were given in 1976 and 1979.

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.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

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.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

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

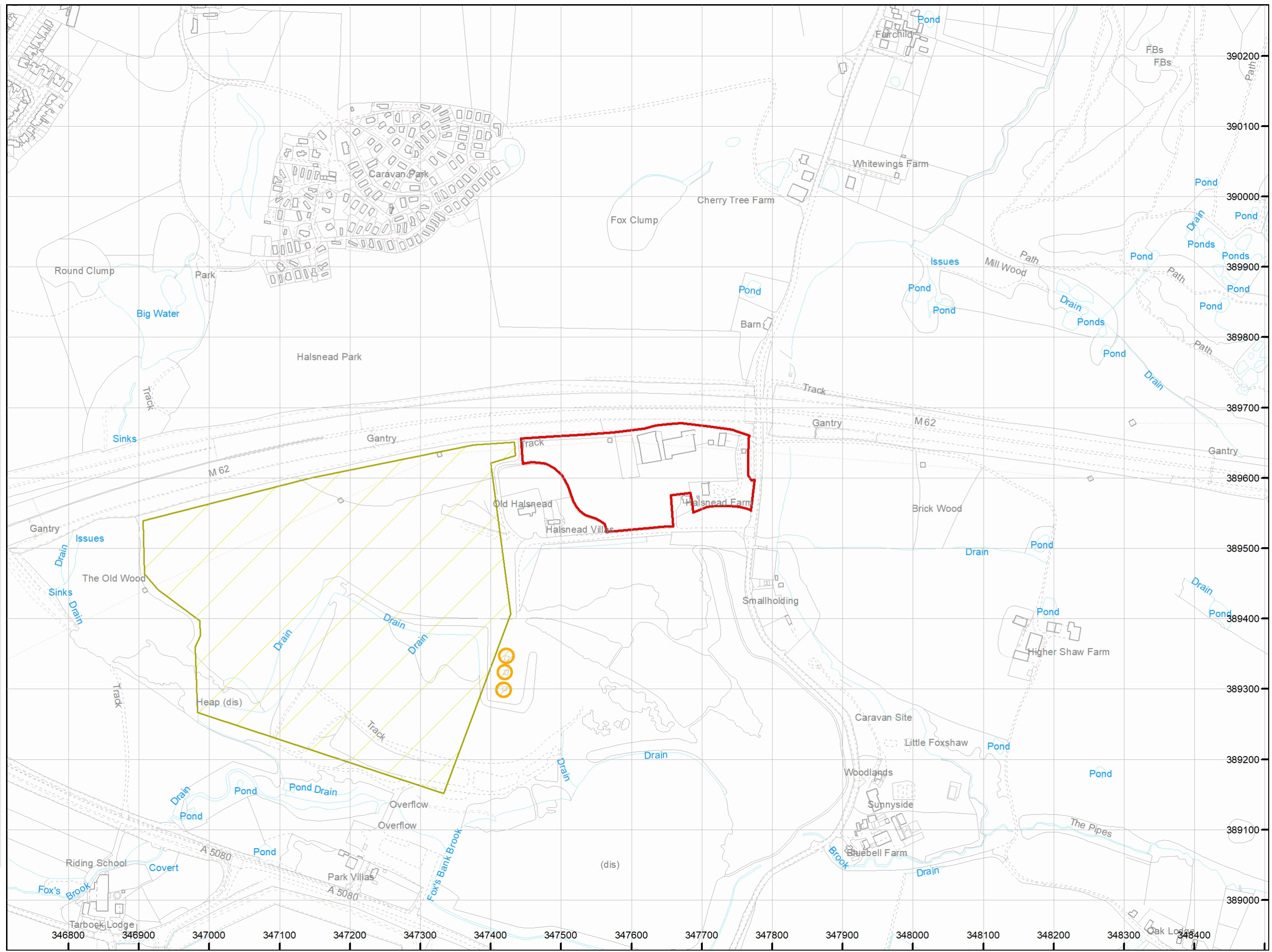
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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 
- Site investigations 
- Mine gas remedial works 

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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.