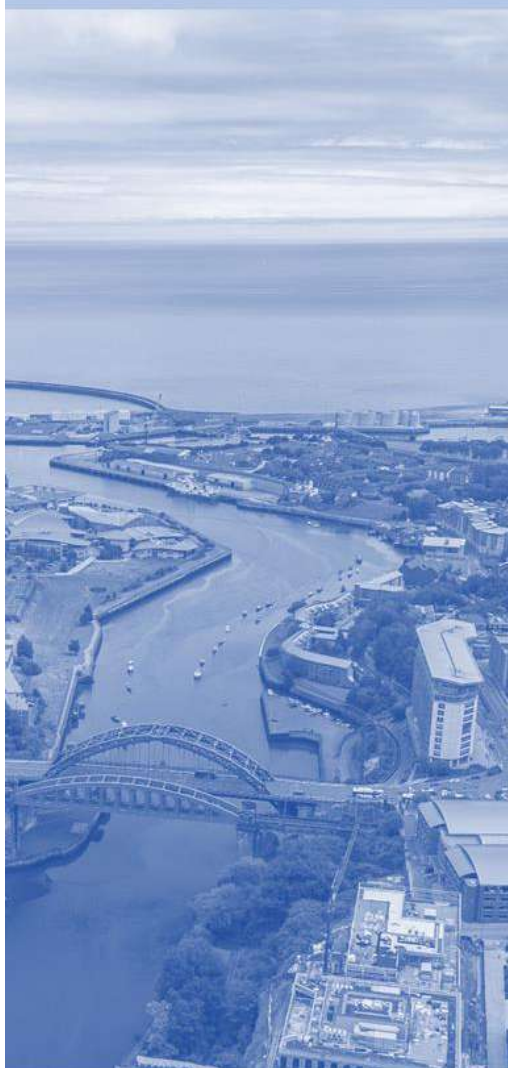


LAND AT ACORNFIELD ROAD, KNOWSLEY

PRELIMINARY RISK ASSESSMENT
(PHASE 1 DESK STUDY)

S2405/01, OCT 2024
ISSUE 0.0



**SPIRE
GEOTECHNICAL**
Geologists & Site Investigation
Specialists

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Appendix 2	Historical Mapping
Appendix 3	Environmental Search Information



1.0 INFORMATION

1.1 Commission Details

- 1.1.1 Spire Geotechnical Limited (SGL) was commissioned by Building Design Northern Limited (BDN) on behalf of Applied Nutrition Limited (the Client) to complete a Preliminary Risk Assessment (Phase 1 Desk Study) for land located at Acornfield Road in Knowsley Industrial Park.

1.2 Proposed Development Details

- 1.2.1 The site is currently vacant and is being considered for a future land purchase. At this stage, indicative proposals (Appendix 1) include the creation of a new commercial unit with access and areas of parking.

1.3 Report Objectives

- 1.3.1 This report is prepared in general accordance with the following guidance/standards:
- BS5930:2015+A1:2020 Code of Practice for Ground Investigations
 - BS10175:2011+A1:2013 Investigation of Potentially Contaminated Sites
 - Land Contamination Risk Management, EA (2020)
- 1.3.2 The purpose of this Desk Study Report is to compile a preliminary risk assessment (hazard identification), evaluating the historical, environmental, geological, hydrogeological and hydrological conditions at the site and the surrounding area. The preliminary risk assessment shall advise the planning and design of subsequent ground investigation works.
- 1.3.3 The objectives of this report will be achieved by considering the various potential geohazards and associated contaminant linkages, which include:
- Contaminant/s;
 - Receptor/s; and,
 - Pathway/s.

1.4 Data References

- 1.4.1 Information from the following data sources are considered in this Desk Study Report.
- Ordnance Survey (OS) Mapping;
 - Historical Maps and Groundsure Report;
 - Published British Geological Survey (BGS) Maps & Electronic GeoIndex GIS;
 - BGS 1:50,000 scale mapping;
 - EA Flood Mapping;
 - BRE BR211 Radon Guidance;
 - UKHSA Report of Address Search for Radon Risk; and,
 - Health Protection Agency Radon Maps.



1.5 **Limitations**

- 1.5.1 This report has been compiled based on desk-based sources available to SGL, including historical maps and records from regulatory and statutory bodies procured through the Groundsure Report. SGL has produced the preliminary assessment, in part, based on this available information in the assumption this information is accurate. However, SGL accepts no liability for the accuracy of the assessment resulting from inaccurate information supplied by others. The report is based on information available at the time, and as such, the potential exists for further information to become available, which may change this report's conclusion.
- 1.5.2 Shall development proposals change; SGL shall be consulted to make a review of the information presented within this report. Additional assessment and investigation may be required depending on the nature of any revised proposals.
- 1.5.3 From the walkover, limited access is available to the site for robust site investigation plant (i.e. to facilitate deep boreholes). The intrusive ground investigation may require a phased programme of works (i.e. both pre and post demolition of the existing structures).

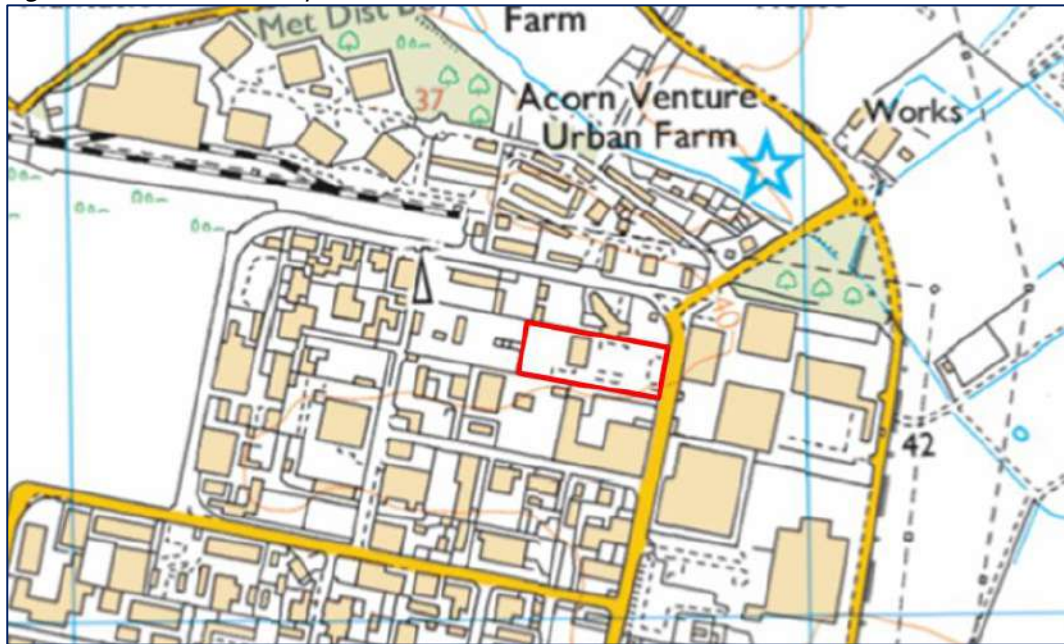


2.0 SITE CONTEXT

2.1 Site Location

- 2.1.1 The site measuring approximately 1.45Ha is located at Acornfield Road, Knowsley Industrial Park, Kirkby (Figure 1).
- 2.1.2 The site lies at an approximate Ordnance Survey (OS) National Grid Reference (NGR) of 343647, 399369.

Figure 1: Site Location Map



Source: www.streetmaps.co.uk

Figure 2: Site Aerial Image



Source: www.google.com/maps



2.2 Site Description

2.2.1 The description provided in Table 1 is based on the observations recorded by SGL during the site reconnaissance walkover undertaken on the 3rd October 2024, and desk-based data (such as aerial imagery and third-party information) relating to the site.

Table 1: Site Details

Features/Sources	Description/Remarks
Site Description and Walkover Survey	The site is located to the west of Acornfield Road in the northern area of the existing industrial park. The central and eastern areas of the site include a flat disused area of land. Relict surface features including access routes and ground slabs are present. Areas of placed gravel are present in between the existing hard standing, and it is understood this material has been placed post-remediation of the shallow ground IN 2017. A large area of the central part of the site was ponded during the walkover, with standing water present above relict ground slabs. In the west is an existing commercial unit. To the west of the unit is a gravel surfaced yard area.
Access	Access to the site is gain via the east off Acornfield Road.
General Topography	The site includes a generally flat/level area. LiDAR data suggests that the site falls on an approximate elevation of approximately 39m AOD.
Adjacent Land-use	The site is generally surrounded by units and works, external yards and storage areas associated with the wider industrial park. Applied Nutrition is located to the east beyond Acornfield Road. DD Wilston Gas and Heating Engineers is present to the north. Stericycle is present to the south.
Flora and Fauna	The majority of the site is void of established vegetation. There were no obvious signs of invasive weed species (such as Japanese Knotweed) present in the sites peripheral areas, although this should be confirmed by a qualified ecologist.
Utilities	Utility records have been assessment, and statutory drawings suggest that underground utilities are restricted to peripheral areas. Private connections, such as drains, electrics etc. should be anticipated, particularly into the existing unit present in the west.
UXO	The Zetica Unexploded Bomb Risk Map, presented in Figure 3, concluded that the site is situated within an area which has a low potential (15 or less bombs per 1000 acres) for Unexploded Bombs to be present. As a result, no further risk assessment and subsequent mitigation measures is considered necessary at this stage.

Figure 3: UXO Bomb Risk Map



Source: Zetico UXO

2.3 Previous Investigations

2.3.1 It is understood that previous investigation and remedial works have been completed at the site. A summary review has been provided to add context to this Preliminary Risk Assessment. Reference has been made to the following documentation that has been provided to SGL:

- Amec Foster Wheeler Letter Correspondence (08/06/2016, Ref-38338/K003p/jge)
- Environment Agency Correspondence (15/06/2016)
- Amec Foster Wheeler Syntor Remediation Verification Report (November 2017)

2.3.2 For further information, the above documents should be reviewed independently.

Amec Foster Wheeler Letter Correspondence (08/06/2016)

2.3.3 A letter was submitted to the Environment Agency following site investigation work, and prior to remediation being carried out in 2017. Remedial targets for the protection of human health and controlled waters were presented to the Environment Agency based on site investigation considering an industrial end-use.

2.3.4 The report considers several Contaminants of Concern (CoC) relating to TPHs and VOC/SVOCs, and how proposed remedial activities will provide betterment to the existing site conditions. The investigation works were completed in order to derive a series of site-specific remedial target concentrations and for the design of the main remediation strategy.

Environment Agency Correspondence (15/06/2016)

2.3.5 The EA responded to the above letter submitted by Amec Foster Wheeler. The EA agree that by removing free product contamination within waters and soils is of primary importance. By doing so, this removed a large concentration of the priority contaminants being considered. The EA also agree to the remedial targets for the site/remedial works.

2.3.6 The EA refer to an earlier 2011 site investigation. SGL have not reviewed the findings of the 2011 investigation, but understand this is part of a Part IIA investigation undertaken at the site.

Amec Foster Wheeler Syntor Remediation Verification Report (November 2017)

2.3.7 The purpose of the remediation strategy was to provide the clean-up and betterment to the site from the elevated TPHs and VOCs/SVOCs present in the shallow waters and soils. The remedials focused on the removal and/or reduction of risks to human health and controlled waters.

2.3.8 As well as the removal of free phase material from the soils and waters from site, the main remedial technique being considered is ex-situ bioremediation of the upper 1m of existing made ground centrally and in the east. The contaminated perched groundwaters were to be pumped out and treated.

2.3.9 The approximately 1m deep excavated areas were backfilled with a combination of treated and untreated material and capping material including 6F2.

2.3.10 As agreed with the EA, the Remediation Strategy Report presents a series of site specific/derived Soil Remedial Treatment Criteria values. The progress of remediation testing would be compared against the agreed Remediation Treatment Criteria Values. These generally related with CoC include aliphatic and aromatic TPHs (including BTEX) and VOC/SVOC.

2.3.11 Remediation works were proposed to two areas of the site (referred to as Phase 1 and Phase 2 Areas). The west beyond the existing unit was not remediated. Large areas in and around the Phase 1 & Phase 2 Areas were not remediated as these included existing ground slabs and access, and it was assumed that previous investigations appropriately designated areas requiring action.

2.3.12 A Remediation Validation Report was provided by Celtic Technologies Ltd in May 2017. Celtic were appointed by Amec Foster Wheeler Ltd to undertake the work.

2.3.13 The final site conditions post-remediation are summarised by Amec Foster Wheeler.

2.3.14 The report concludes that contamination linkages to human health and shallow groundwater have been broken due to the completed remedial works.

2.3.15 Limitations associated with the works are presented, and it should be noted these may have implications for future development. Only two areas have been remediated, and the report does not provide guarantees relating to potential unrecorded contamination elsewhere.

2.3.16 As a whole, residual (background) contamination may be present. Further remedials to provide future clean service corridors may be required (i.e. placing future utilities in clean trenches etc.).



- 2.3.17 It is suggested that future excavations, for example for the placement of pad foundation etc., shall provide sufficient risk assessment to manage potential residual contamination in the ground (including potential asbestos containing material).



3.0 SITE HISTORY

- 3.1.1 A series of available historical plans dating back to 1867 and aerial images have been reviewed and a summary is presented in Table 2. The historical plans include a series of 1:1250, 1:2,500, 1:10,000 and 1:10,560 scale maps, and are presented in Appendix 2.

Table 2: Summary of On-site/Off-site Historical Features

Date	On-site	Off-site
1867 – 1893	The site is undeveloped and falls across several inferred agricultural fields. Several of the field boundaries on the site are treelined.	The site is generally surrounded by farmland. Moss End Farm is present 80m to the north east. Draw Well Farm is present 210m to the south west.
1908 – 1928	Several of the field boundaries are no longer present. The site now falls over two parcels of land and remains undeveloped.	There are no significant changes to the immediate surrounding land.
1955 – 1956	Although not named, it is inferred that the site lies within wider military-use land. Potentially raised structures associated with a barracks are visible at three locations on the site.	The barracks- use extends to the south and west. To the far north, a series of commercial works units are present. Land to the south east is named as Kirkby Industrial Estate. In this location, Marl Pits (similar to old clay pits) are present. It is inferred that the present day Acornfield Road is present to the immediate east of the site.
1962 1967	The potential barracks site/use has been cleared. The site is now classed as a depot, with a series of smaller structures and tanks present across the site. Given the indicative access roadways to site, the east and west may be of differing uses.	The barracks-use to the south and west have been replaced (exclusively) with works units, factories and access roads associated with an industrial estate.
1971 – 1984	The central and eastern areas of site lie within an oil storage depot. Further tanks have been added in the site centre. The western area of site is part of a plant hire depot.	Land to the immediate north includes a builder's yard. The plant hire depot extends to the west. A warehouse is present to the east beyond Acornfield Road (the latter of which includes rail sidings). A steel partition and paint works are present to the south of site.

1992	It is inferred that the site has been cleared of the former uses. The westernmost area lies largely undeveloped. The existing/present day unit is present in this area. Centrally and in the east, a series of smaller structures with access hardstanding is present.	A small electrical substation structure is present to the immediate north. A number of structures in the north have been removed/cleared. The rail siding to the east has been removed. The general surroundings are referred to as Knowsley Industrial Park (as per the present day).
1994 – 2010	A small tank structure (with square tank base) has been added along the southern boundary.	There are no significant changes to the immediate surrounding land.
2013 – 2024	Supporting aerial imagery suggest that the site was cleared around 2013 and is reflective of the current day site layout. The unit/structure in the west remains. It is understood that localised remedial works to clean up shallow contamination has been undertaken in the central and eastern areas at two locations in 2017. Whilst the site lies unoccupied, signage suggests that the most recent occupant/works were relating to Syntor Fine Chemicals.	A large works unit to the south west has been removed. The general surroundings remain commercial/industrial use, including access, workshops and yards within the associated industrial park.



4.0 GEOLOGICAL SETTING

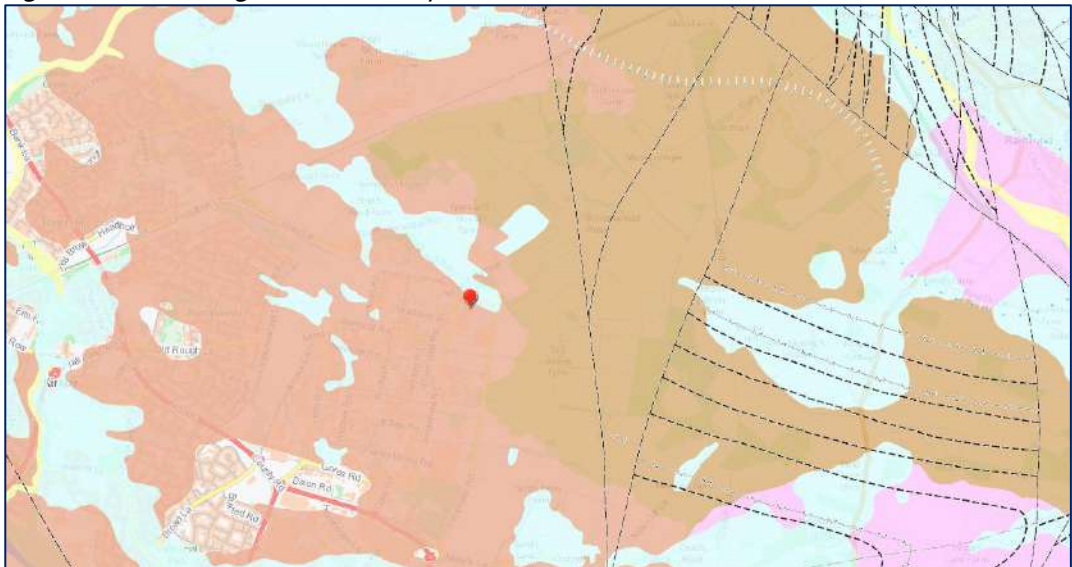
4.1 Anticipated Geology

4.1.1 This section provides considerations relating to the published and unpublished geological information on-site and in the surrounding area.

4.1.2 The following sources have been reviewed:

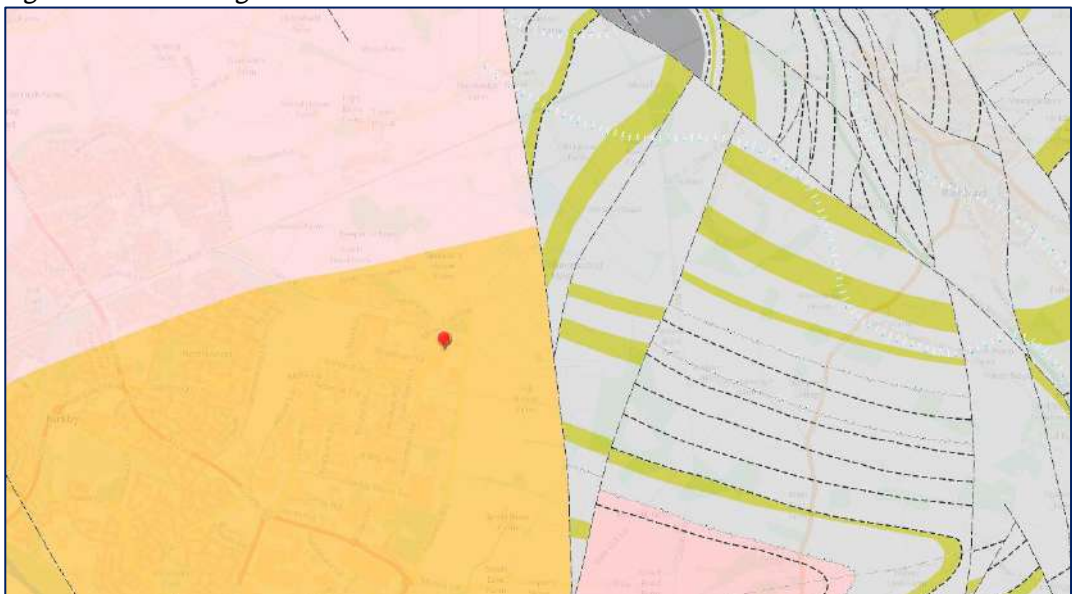
- BGS 1:50,000 scale map, Sheet 84, Wigan (Drift edition);
- BGS GeoIndex;
- EA Mapping and Data.

Figure 4: BGS Geological Extract - Superficial



Source: BGS Geoindex

Figure 5: BGS Geological Extract - Bedrock



Source: BGS Geoindex

Table 3: Summary of Anticipated Geology and Mining

Features/Sources	Description/Remarks
Artificial / Made Ground	The site and large areas to the south, lie on previous military land. Due to the unknowns regarding the management of the land, BGS have recorded the site and wider area as consisting of made ground geology. In addition, former site investigation and borehole data for the site suggest that mixed made ground is present at the site and is typically of 1m thickness.
Superficial Geology (drift)	Thin Shirdley Hill Sand Formation deposits overlie cohesive rich Glacial Till. Former borehole data suggests that the sand formation is largely absent from beneath the site, although the glacial till may include bands of sand or granular material.
Bedrock Geology (solid)	Solid geological deposits consist of the Chester Formation Sandstone. Historical borehole data suggests that the sandstone deposits are present beneath the site at approximately 10m depth beneath the surface.
Preliminary Mining Risk Assessment	The anticipated solid geology at depth is absent of coal seams. Based on the above assessment the site is not considered to be at significant risk from mining activity, and no further risk assessment or intrusive investigation is considered necessary.
Radon	The site lies within an area which has a low radon potential. UKradon Interactive mapping for the site indicates that <1% of properties are estimated to be at or above the Radon Action Level. Radon protection measures are not required for development.

4.2 Record of Third-party Geological Information

4.2.1 A series of available boreholes relating to the site (Appendix) have been considered, and a summary has been provided below:

Figure 6: BGS Borehole Locations





- 4.2.2 Borehole SJ49NW841 was placed in 2001 in the west of the site. Made ground of 1m thickness is reported to overlie bands of soft and firm cohesive glacial till. The borehole extended to 9.00m and ended within the clay.
- 4.2.3 Borehole SJ49NW837 was placed in 2001 in the southern area of site. Made ground of 1m thickness overlies firm, stiff and very stiff cohesive glacial till to a termination depth of 3m below the surface.
- 4.2.4 Borehole SJ49NW861 was placed in 2001 in the northern area of site. Made ground was recorded to 1.10m and overlies soft, firm and stiff cohesive material (glacial till) to a termination depth of 3.00m.
- 4.2.5 Borehole SJ49NW850 was placed in 2001 in the eastern site area and extended to a depth of 4.00m from the surface. Made ground of 1.10m thickness overlies soft/firm and stiff cohesive deposits of Glacial Till.
- 4.2.6 Borehole SJ49NW866 was placed in 2001 in the south eastern site area. Made ground extended to 1.20m from surface. Odour is reported within the made ground. The made ground overlies stiff cohesive deposits (of glacial till) to 8.50m. From this depth a brown sand (residual weathered bedrock) is recorded to 10.50, and this stratum is the sandstone bedrock.

4.3 Anticipated Hydrogeology

Table 4: Summary of Anticipated Hydrogeology

Features/Sources	Description/Remarks
Superficial Geology (drift)	The underlying drift geological deposits (if present) are classified as a secondary A aquifer. Such an aquifer has a localised significance to base flow to water courses.
Bedrock Geology (solid)	The underlying solid geological deposits are classified as a principal aquifer, meaning the rock displays permeable layers and can provide significant quantities of water. These aquifers also likely support lakes and rivers.
Groundwater Vulnerability	The groundwater vulnerability is stated as high, although borehole data confirms there is a considerable head of low permeability cohesive material above the sandstone aquifer.
Source Protection Zones	The site lies within a Source Protection Zone, Zone 3 (total catchment).
Other Designations	There are no other special designations.
Groundwater Abstractions	There are no water abstractions located within 250m of the site.



5.0 ENVIRONMENTAL SETTING

5.0.1 The information summarised in this section is presented in full in the Environmental Search Information (Appendix 3).

5.1 Hydrology

Table 5: Summary of Adjacent Hydrological Features

Feature/Source	Description/Remarks
Nearest Surface Water Receptors	The nearest surface water feature is located 231m to the north east, and includes a drainage ditch or small beck.
Water Networks	There is no main river networks reported within 250m of the site.

5.1.1 Due to the nature of the proposed development there is not considered to be a significant risk from the known hydrology sources recorded in the Groundsure Report.

5.2 Potential Sources of Flooding

Table 6: Summary of Potential Adjacent Flood Sources

Features/Source	Description/Remarks
Coastal / Fluvial	Parts the site are shown to lie within a Flood Zone 2.
Groundwater	There is a low risk to the site from groundwater flooding.
Pluvial	Areas of the site are potentially susceptible to surface water flooding.
Waterpipes	The potential for ambient flood risk sources from on-site/adjacent to existing water pipe apparatus (i.e. from burst water mains etc.) is possible.

5.2.1 Based on the above assessment, a standalone Flood Risk Assessment report may be required.

5.3 Landfills and Waste

Table 7: Summary of Landfill and Waste Features/Sources

Features/Source	Description/Remarks
Historical Landfill	There are no historical landfill sites located within 250m of the site area.
Active Landfill	There are no registered landfill sites located within 250m of the site.
Other Waste Activities	Land from 39m south, named as SRCL Limited, is a former Waste Management Facility.

5.3.1 Giving consideration to the main site area (i.e. with future habitable use), there are no sources of potentially harmful ground gas located onsite or within 250m from landfilling. It should be noted that there still may be hazardous ground gasses impacting the site from areas of significant made ground in the area, and an assessment is recommended.



5.4 Industrial Activities

Table 8: Summary of Industrial Activity Features/Sources

Features/Source	Description/Remarks
Fuel Stations	There are no active fuel station entries located within 250m of the site.
Licensed Activities	There are no Local Authority Pollution Prevention and Controls located within 250m of the site.
Hazardous Substances	There are five Control of Major Accident Hazard Sites (COMAH) located within 250m of the site. The closest is reported as 88m north west of the site at Syntor Fine Chemicals Limited. Two entries for the site are listed for 2009 and 2014 for the storage of hazardous materials. The applicant is Syntor Fine Chemicals.
Current Industrial Uses	There are several entries relating to industrial activities within the wider industrial estate. Several entries are included for the site under Syntor Fine Chemicals (effective as of 2023).
Pollution Incidents	There are three pollution incidents reported within 250m of the site, and these are reported between 2001 and 2002. The closest is located 126m north east. Given the age of these incidents, these are not anticipated to be impacting the site.
Contaminated Land	There are no Contaminated Land Register Entries and Notices.

- 5.4.1 There is not considered to be a significant risk to the proposed development from the known Industrial Activities sources recorded in the Groundsure Report.

5.5 Environmental Designations

- 5.5.1 The site lies within a nitrate vulnerable zone. There are no other environmental designations which are considered prudent to the site.



6.0 PRELIMINARY CONCEPTUAL SITE MODEL AND RISK ASSESSMENT

6.0.1 The Conceptual Site Model (CSM) and Risk Assessment collate the salient aspects of the site to form a model which should enable comparison after fieldwork and testing (where required).

6.1 Conceptual Site Model (CSM)

6.1.1 This model identifies the various potential contaminant linkages and incorporates a preliminary risk assessment.

6.1.2 A contaminant linkage is the relationship between a *contaminant (source)*, a *pathway* and a *receptor* and how a relevant receptor might be affected by the contaminants in question.

6.1.3 For the purposes of this report:

- A *source* is a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.
- A *pathway* is a route by which a receptor is or could be affected by a contaminant.
- A *receptor* is something that could be adversely affected by a contaminant i.e. a person, controlled waters, an organism, an ecosystem, or Part 2A such as buildings, crops or animals.

6.1.4 Each of the three elements can exist independently, however, a risk is present where they are directly linked. Therefore, a particular contaminant affects a particular receptor through a particular pathway. This kind of linked combination of contaminant source – pathway – receptor is described as a contamination linkage.

6.1.5 The key to this process is the development of a CSM which provides a representation of the site, identifying potential areas of contamination, the surrounding environment and the processes acting on the contaminants by which they can move and come into contact with 'receptors'.

6.1.6 Typical pathways may include vapour migration from impacted soils or groundwater, leachate from impacted soils migrating into groundwater; or through humans having direct contact, ingesting or inhaling contaminated material.

Potential Contamination Source

6.1.7 Based on our review of historical records, geological information and environmental data, the potential various sources of contamination have been summarised in Table 9.

6.1.8 As can be seen in Table 9, the potential for contamination sources is limited to S1, S3 & S6. This potential sources of contamination have been considered further in Table 12 below as part of the overall preliminary CSM for the site.



Table 9: Potential Contamination Sources

Sources	
S1	<u>Site Walkover – Existing Land</u> Made ground is anticipated across the entire site, including beneath the existing roadways, ground slabs and shed structure. No visual or olfactory evidence of gross contamination was identified from surface level. Variable made ground (thickness and composition is expected).
S2	<u>Walkover Surrounding Area</u> The surroundings generally include well maintained and active commercial premises. There is nothing visual evidence to suggest that the site is being adversely impacted by offsite developments in the immediate area.
S3	<u>Sites Historical Use</u> Given the site history, including consideration of previous investigations and remediation, hydrocarbon contamination, volatiles and asbestos are expected beneath parts of the site area. Whilst areas of the site have been remediated, there is still likelihood of residual and unrecorded contamination (i.e. beneath unremediated areas and ground slabs).
S4	<u>Surrounding Historical Use</u> The sites surroundings only include the construction of industrial units. Prior to the development of the industrial estate, it is inferred that large areas were part of former MOD land.
S5	<u>Pollution Incidence</u> There are pollution incidents report between 2001 and 2002 offsite in the industrial estate. Given the age of these incidents, the site is unlikely to be impacted.
S6	<u>Geological Records</u> Significant made ground is present in the area. This is anticipated to be linked to the former MOD use, where land management cannot be confirmed. Significant made ground deposits can be considered potential sources of ground gas.
S7	<u>Landfills & Wastes</u> No waste sources are anticipated to propose a development risk.

Potential Pathways

- 6.1.9 Pathways may include migration from impacted soils or groundwater, leachate from impacted soils migrating into groundwater; or through humans having direct contact, ingesting or inhaling contaminated material.
- 6.1.10 The potential pathway or route for migration of the above contamination sources to the receptors on-site/off-site is identified within Table 10.

Table 10: Potential Pathways

Pathways	
P1	<u>Ingestion of Soil and Water</u> In limited soft landscaping areas (i.e. due to commercial development), example exposure pathways include incidental or deliberate hand-to-mouth contact with hands, toys, food, tools, etc. Younger children are particularly vulnerable where they may typically utilise



	garden space. Maintenance activities are also a medium for the ingestion of soil/water via the hands.
P2	<u>Inhalation of Indoor/Outdoor Dust, Gas and Vapours</u> Contaminants can be mobile and migrate through the air reaching receptors either indoors where such particles accumulate, or directly from outdoor exposure. Example exposure pathways include inhaling dust when working in a garden or when inside at home or in a work environment (i.e. from cleaning). Ground gases/vapours normally enter buildings through the sub-floor voids or service entries. In external areas, construction workers are particularly vulnerable to ground gas when working in trench excavations or confined spaces below the ground surface.
P3	<u>Direct contact with soil, water and dust</u> Residents and workers can be vulnerable to contamination sources and may inadvertently come into contact with hazardous material. For example, undertaking an activity without wearing appropriate hand protection and direct contact allows dermal absorption. Alternatively, fauna and flora may be vulnerable if soils are phytotoxic in direct contact with root systems.
P4	<u>Leaching via Vertical and Lateral Migration</u> Contaminants, depending on their form/nature can either dissolve and move freely in the ground via groundwater/surface water movements or in a solid state, can be transported to other vulnerable receptors such as the controlled waters environment, for example, a stream, river or potable water source.
P5	<u>Ingestion of home-grown produce</u> For example, where fruit and/or vegetables are grown outdoors if these plants are grown in contaminated soil, the plant can up-take some of the contaminants and enter the human body when consumed.

Potential Receptors

- 6.1.11 A receptor can be considered something that could be adversely affected by a contaminant, such as people (residents/workers), construction workers, development/property, controlled waters and ecological receptors.
- 6.1.12 The relevant potential receptors of the above contamination sources are identified within Table 11.

Table 11: Potential Receptors

Receptors	
R1	<u>End-user</u> This includes pedestrians, workers and visitors that will use or occupy/utilise space within the site.
R2	<u>Construction and utility workers</u> This considers those working in or within proximity to the ground during the construction phase of the project that may be exposed to potential sources of contamination in the ground.



R3	<u>Users of the surrounding areas</u> If land contamination sources are present on-site, users of the surroundings are potentially susceptible to cross-contamination. For example, wind-blown material migrating to adjacent areas (such as residential, workplaces etc).
R4	<u>Surface water</u> This may include a pond, drainage ditch, beck, river, reservoir or the sea.
R5	<u>Groundwater</u> Groundwater includes any waters contained within drift and or solid geological deposits. Such receptors may be linked directly to surface waters (i.e. providing base-flows to rivers) or a groundwater abstraction point.
R6	<u>Ecological – Fauna & Flora</u> Ecosystems living in the soil environment may be exposed to contaminated source materials. Examples include crops, vegetables, trees and fauna.
R7	<u>Building structure and construction materials</u> The ground or materials/contaminants contained within it can be chemically aggressive (such as shales, ashes or sulphate-rich materials etc.) and/or acidic in nature and coming into direct contact with build material such as subsurface concrete (foundations) etc.

Table 12: Initial Pollutant Linkage and Risk Assessment

Available Contaminant – Pathway – Receptor Linkages				
Linkage			Risk*	Preliminary Contamination Risk Assessment
S1	P1 P2 P3 P4	R1	LOW	<u>Site Walkover – Made Ground (on-site)</u> Made ground and associated potential contamination sources are possible in made ground beneath existing slabs, hardstanding and the existing building footprint. No visual or olfactory evidence of gross contamination was identified at surface level. The risk to construction and utility workers from on-site contaminated soils is low, however appropriate health and safety risk assessment and Personal Protective Equipment should be implemented as good practice.
		R2		
		R3		
		R4		
		R5		
		R6		
		R7		
S3	P1 P2 P3 P4	R1	LOW MODERATE	<u>Sites Historical Use – Made Ground</u> Oil storage tanks and recent chemical storage/use may have given rise to land contamination within the near surface soils and perched groundwaters. Whilst localised remedial activities have taken place, the remedial works do not provide guarantees of there being unrecorded contamination elsewhere on the site. Contaminants where present are expected to include asbestos, TPHs and volatiles/organics. The risk to construction and utility workers from on-site contaminated soils is low, however, targeted intrusive investigation is recommended to confirm the level of risk.
		R2		
		R3		
		R4		
		R5		
		R6		
		R7		



S6	P2	R1 R2	LOW	<u>Geological Records</u> Potential offsite ground gas sources within areas of significant made ground deposits may be impacting the site. Intrusive investigation should capture data to derive an appropriate ground gassing regime for a future commercial development. Whilst residual risk is likely, a period of complimentary monitoring is recommended.
----	----	----------	-----	--

** Based on the nature of the proposed development – residential with homegrown produce.*

Note:

- *Low Risk – not considered likely to cause significant harm to Human Health and/or Controlled Water. The requirement for remediation is not anticipated;*
- *Moderate Risk – there is the possibility of significant harm to Human Health and/or Controlled Waters, depending on site-specific conditions. Remedial measures may be required, depending on site-specific conditions; and,*
- *High Risk – considered likely to cause significant harm to human Health and/or Controlled Waters. Remedial measures are likely required to protect future end-users.*

6.1.13 In summary, the proposed development and future end-user are considered to be at a low to moderate risk from on-site contamination sources.

6.2 Preliminary Geotechnical Risk Assessment

6.2.1 The following geotechnical considerations have been provided.

Table 13: Preliminary Geotechnical Risk

Features/Source	Description/Remarks
Anticipated Ground Conditions	Made ground is expected to be of approximately 1m in thickness over firm/stiff clay deposits. Locally, the clay may be soft. Appropriate intrusive investigation is recommended to aid a future geotechnical assessment.
Obstructions	Given the site history, buried/relict slabs, foundations and obstructions cannot be ruled out locally across the site. Suitable breaking equipment/plant should be provided during the groundworks phase of a future development.
Shallow Hazards Mining	Mining is not considered to be a risk to the site.
Anticipated Foundations	The cohesive glacial till may be suitable for the placement of pad foundations complimented with strip footings. Locally, deeper foundations may be required where excessive made ground and/or softer ground is encountered. Ground slabs may be achievable subject to placement of suitable ground improvements or engineering fill. At this stage, a vapour membrane may need to be incorporated beneath any future ground slab (subject to the findings of future intrusive investigation).
Material Selection	Substances (i.e. sulphates and pyritic fills etc.), may result in a chemical attack on building materials that may be present beneath the site. The risk is considered to be low, although with suitable specification of materials in accordance with BRE SD1 the risk may be reduced to very low.



- 6.2.2 In summary, the site is considered to be at a low geotechnical risk given the anticipated ground conditions and the nature of the proposed development. Notwithstanding this, a programme of intrusive investigation, in-situ and laboratory testing is recommended to support the design of foundations etc.



7.0 CONCLUSIONS & RECOMMENDATIONS

7.0.1 The Desk Study Report has been produced to provide a preliminary risk assessment, advising the potential geotechnical and geoenvironmental risks and constraints associated with former Syntor Fine Chemicals site at Acornfield Road.

7.0.2 The site measuring approximately 1.45Ha is located to the west of Acornfield Road in Knowsley Industrial Park in Kirkby. The client is considering purchasing the land for a future commercial development.

7.1 Site Setting

7.1.1 The central and eastern areas of the site include a series of relict concrete ground slabs and hardstanding access. There are areas of placed gravel surfacing, and these represent recent remediation works. In the west is an existing shed unit, with a gravel surfaced yard area.

7.1.2 The site lies within an industrial estate, with units/factories and external storage areas surrounding the site.

7.2 Site History

7.2.1 The site in the 1800s was undeveloped. By the 1950s, the site is potentially part of MOD land. By the 1960s, the site is classed as a depot. By the 1970s, the site is named as an oil depot. Several tanks and structures are present on the site. By the 1990s, the site has been developed with a series of structures/works units. By 2013, the majority of the site area was cleared. Remedial work has taken place locally in the site centre in 2017 relating to clean up of shallow hydrocarbons and volatiles in the soils and perched waters.

7.2.2 Land in the surrounding area was initially agricultural. By the 1950s, large areas of land was inferred to be MOD in use. By the 1960s, the surroundings were built up with an industrial estate/park.

7.3 Anticipated Geology

7.3.1 Borehole records and previous ground investigation recorded made ground of approximately 1m thickness across the site.

7.3.2 The made ground is reported to overlie the glacial till drift geology, which consists of firm and stiff clays. Locally the clay is soft in nature.

7.3.3 Bedrock geology of the Chester Sandstone Formation is present beneath the site from approximately 10m depth.

7.4 Environmental Context

7.4.1 There are pollution incidents in the wider area around 2001 and 2002, however given the age of these incidents, it is highly unlikely that the site is being actively impacted.

7.4.2 The site is considered to be at a negligible risk from shallow mining activities.



7.4.3 No radon protection measures are required for the new development.

7.4.4 A standalone Flood Risk Assessment is recommended for the site.

7.5 Preliminary Conceptual Site Model and Risk Assessment

7.5.1 The preliminary CSM and Risk Assessments concluded that the various site receptors are at a low to moderate risk. There is a risk from shallow soils/waters containing potential hydrocarbon and organic contaminants, and asbestos. Remediation has been conducted at the site, however residual or unrecorded contamination may be expected. The site may be impacted by offsite hazardous ground gas sources.

7.5.2 Given the proposed development and anticipate ground conditions, the development is considered to be at low geotechnical risk.

7.6 Recommendations

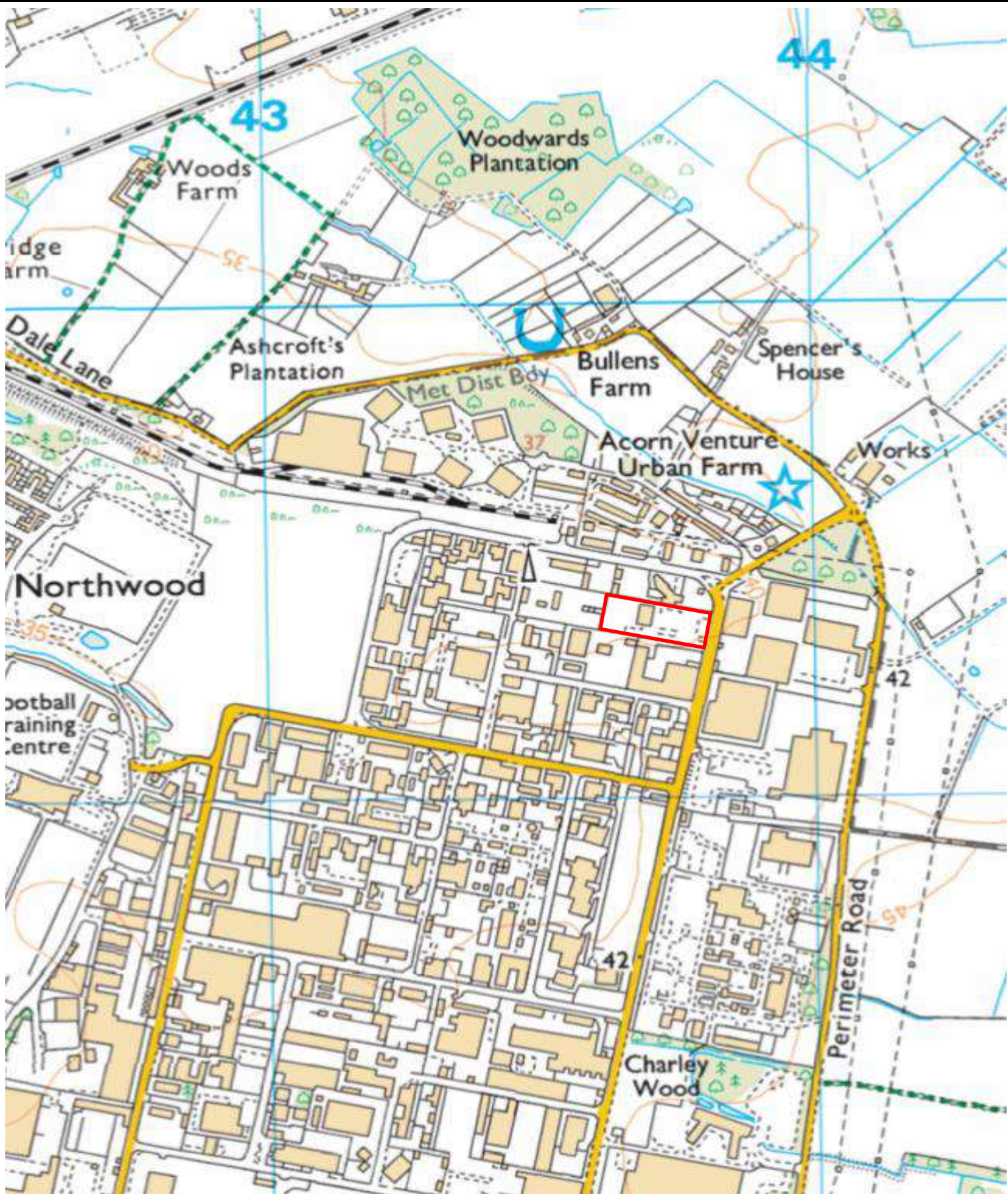
7.6.1 A Phase II Site Investigation (i.e., intrusive Ground Investigation and interpretive reporting) is recommended to confirm the site's overall contamination profile and provide support regarding waste disposal (where required).

7.6.2 The investigation should also gather sufficient information to support the geotechnical design of the site. At this stage, it may be considered necessary to determine the ground conditions for a deep (i.e. pile) foundation solution.

APPENDIX 1



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DRAWING TITLE

SITE LOCATION MAP

CLIENT

BUILDING DESIGN NORTHERN

PROJECT

ACORNFIELD ROAD

STATUS

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DRAWING TITLE

AERIAL SITE PLAN

CLIENT

BUILDING DESIGN NORTHERN

PROJECT

ACORNFIELD ROAD

STATUS

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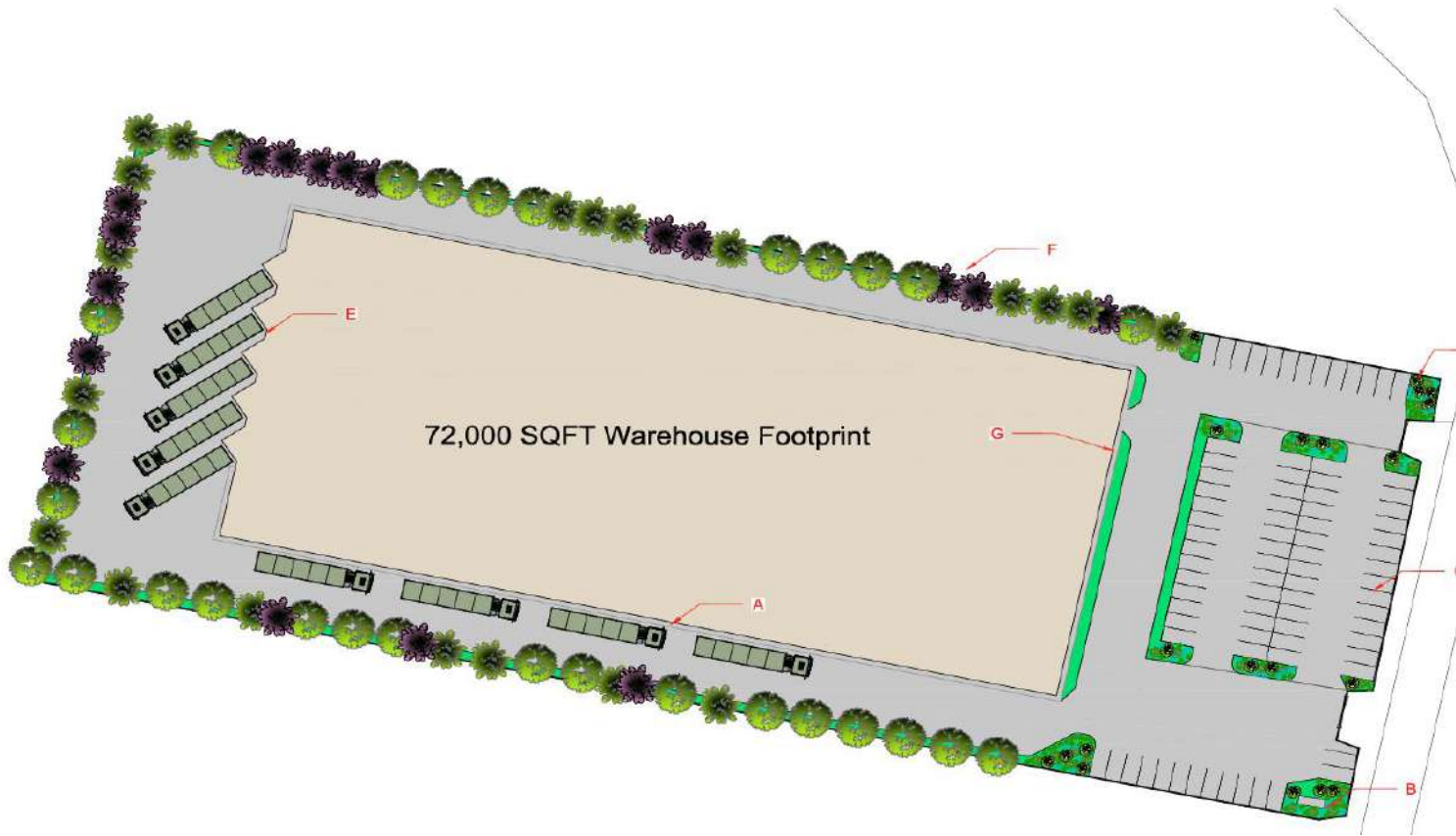
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Site Plan Overlay



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DRAWING TITLE

PROPOSED DEVELOPMENT LAYOUT

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ACORNFIELD ROAD

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APPENDIX 2



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KIRKBY, L33 7UG

Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: County Series

Map date: 1867

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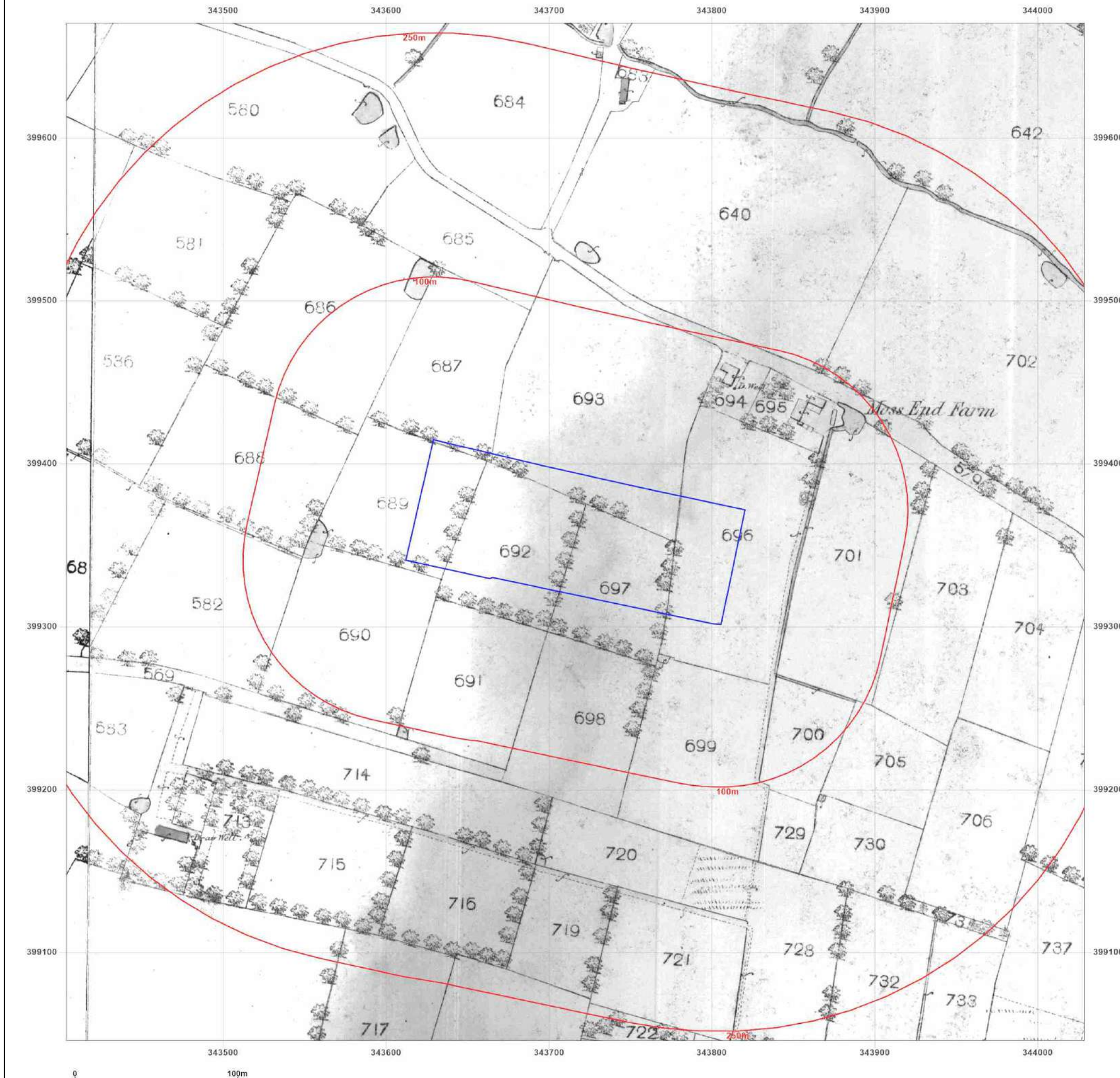


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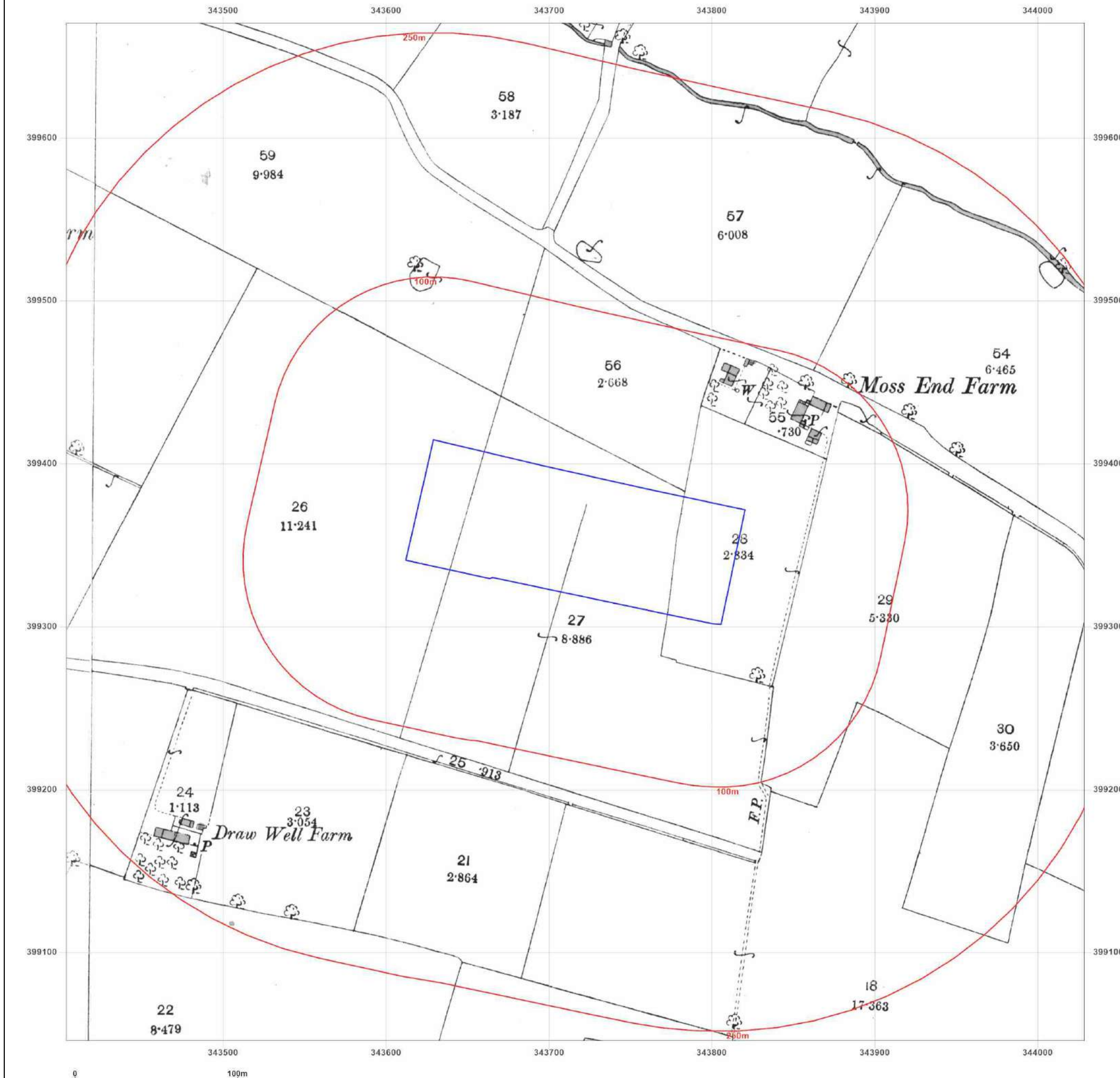


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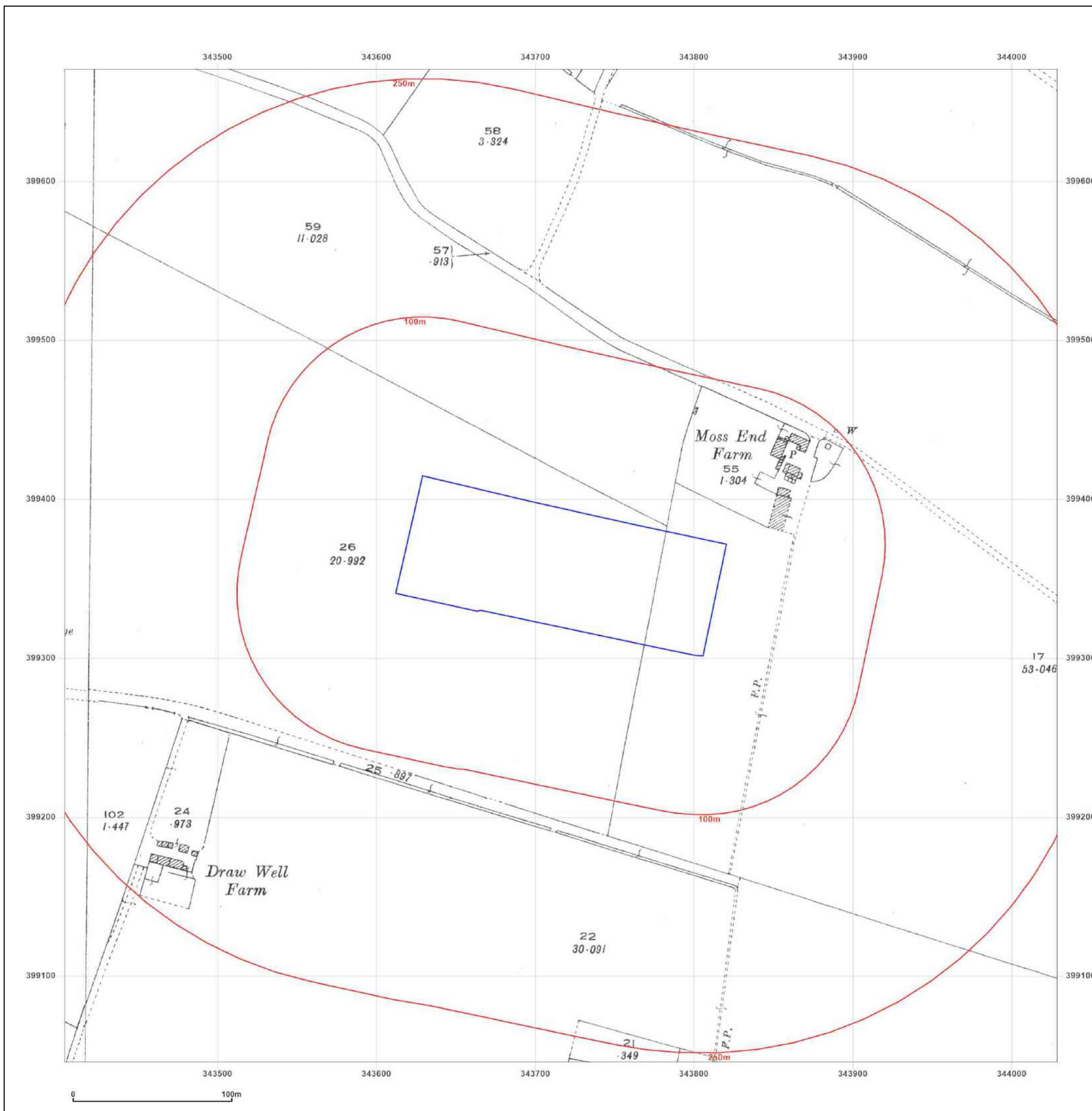


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Map Name: National Grid

Map date: 1962

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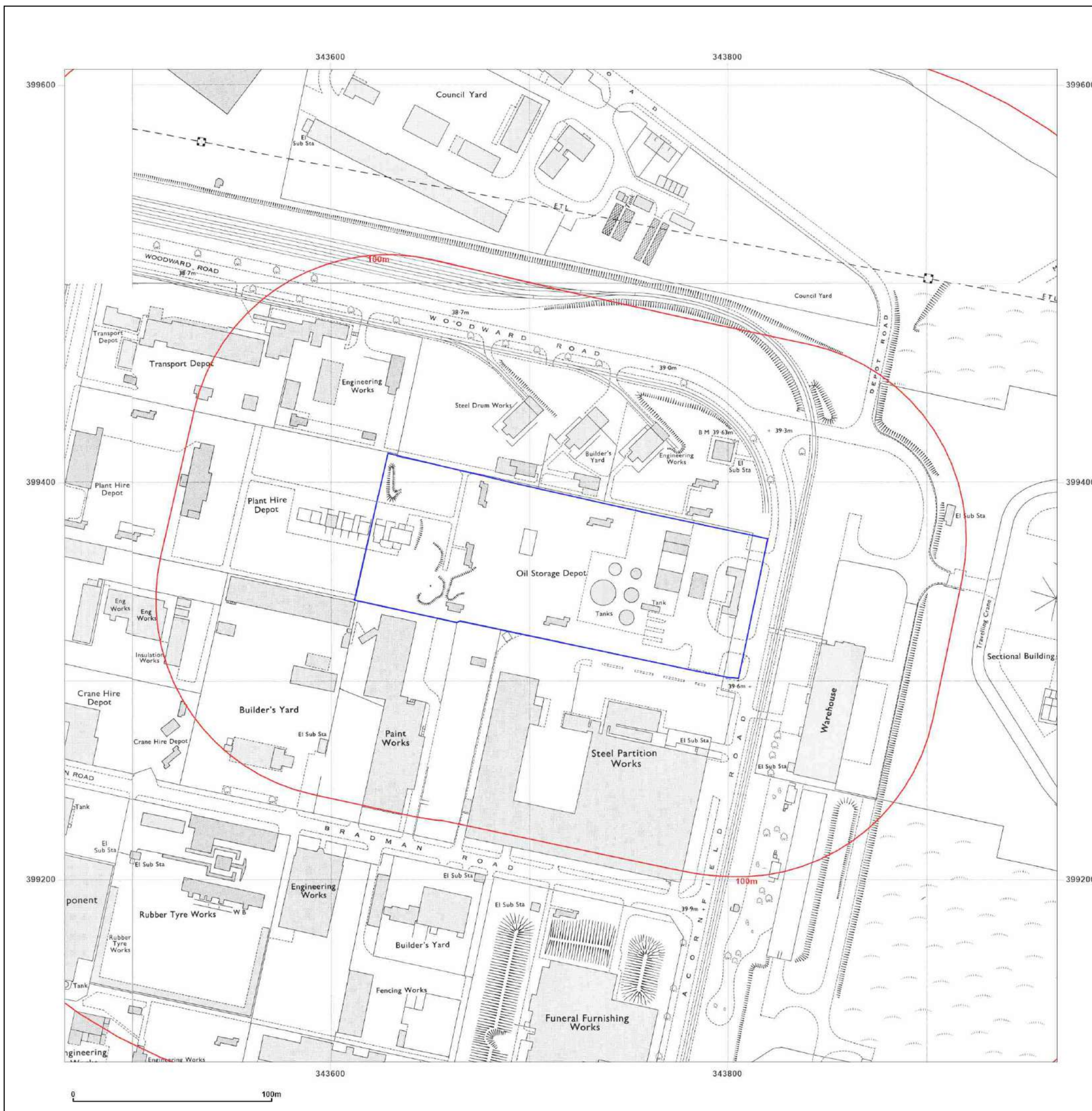


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Grid Ref: 343716, 399358

Map Name: National Grid

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Map Name: National Grid

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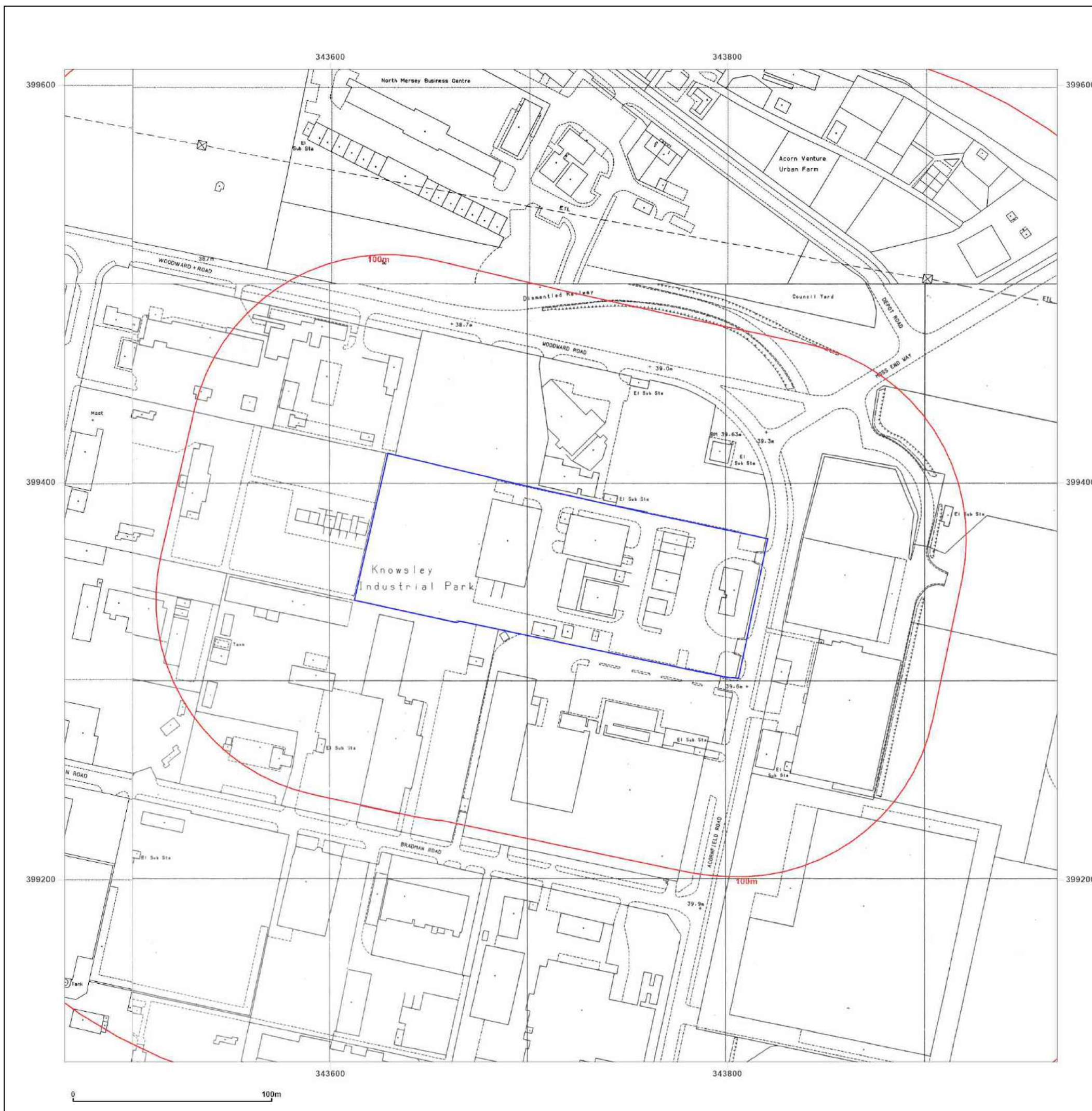


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Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

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Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: County Series

Map date: 1890-1892

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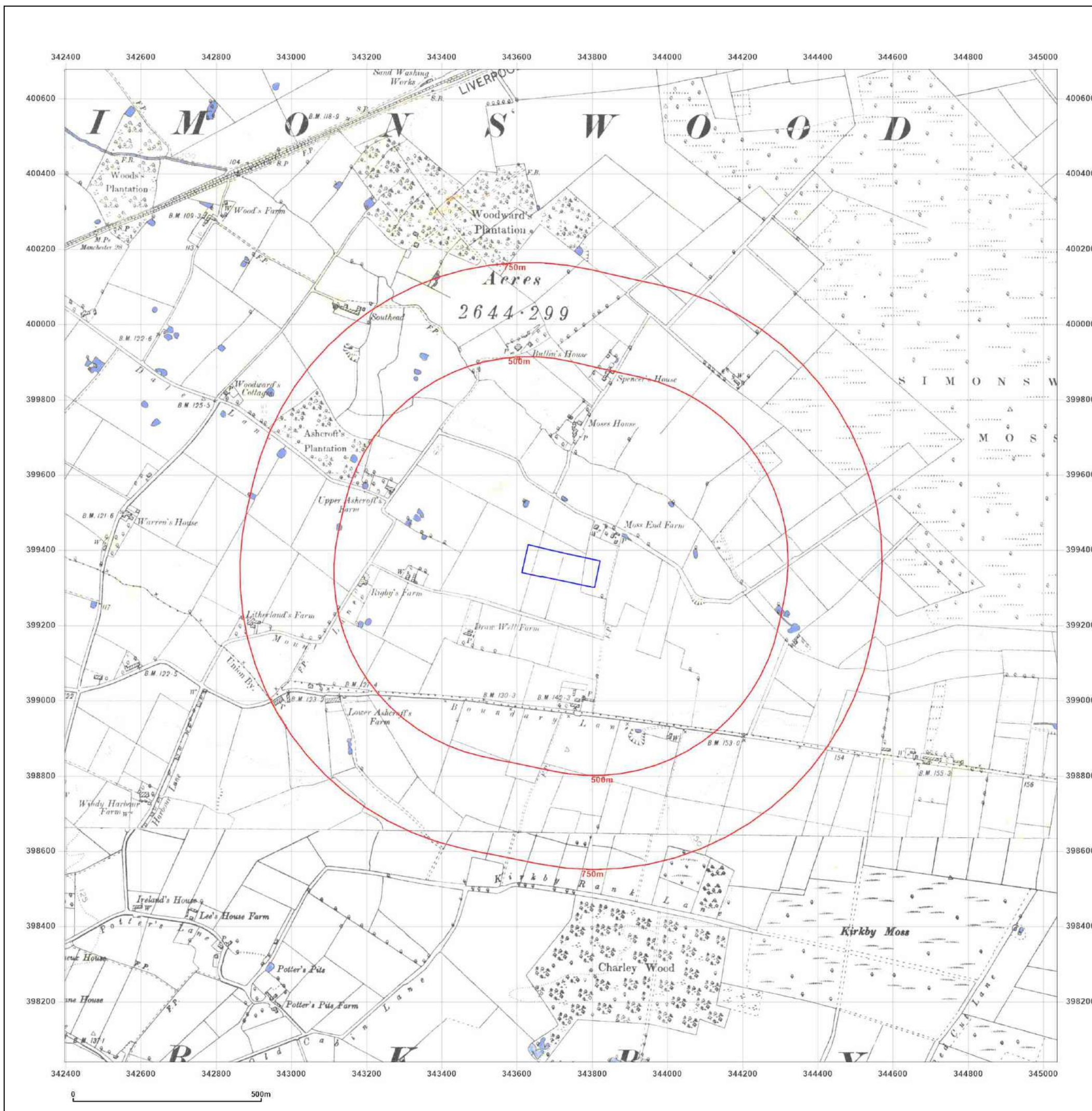


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Client Ref: S2405
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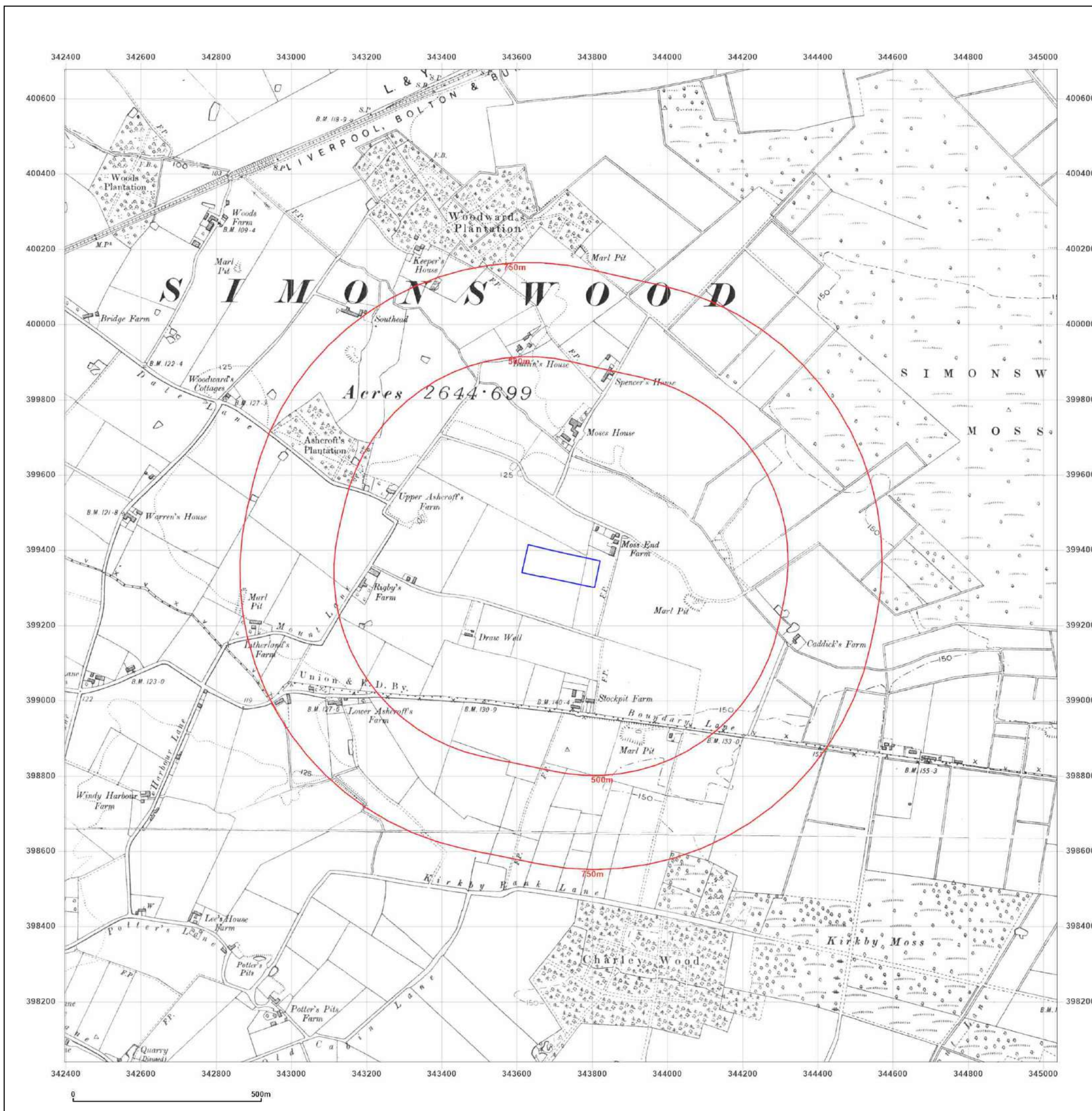


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Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: County Series

Map date: 1925-1928

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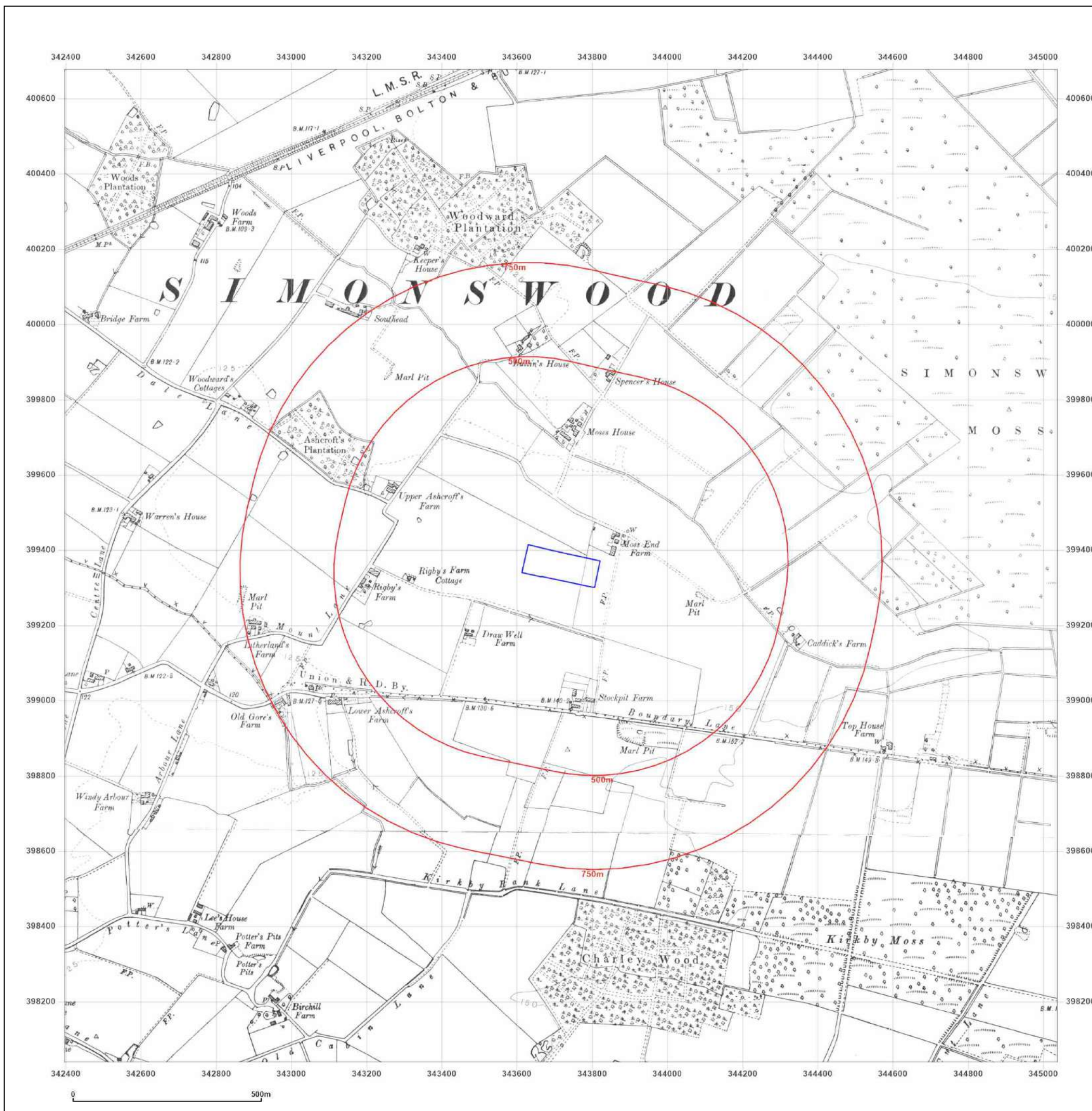


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Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: Provisional

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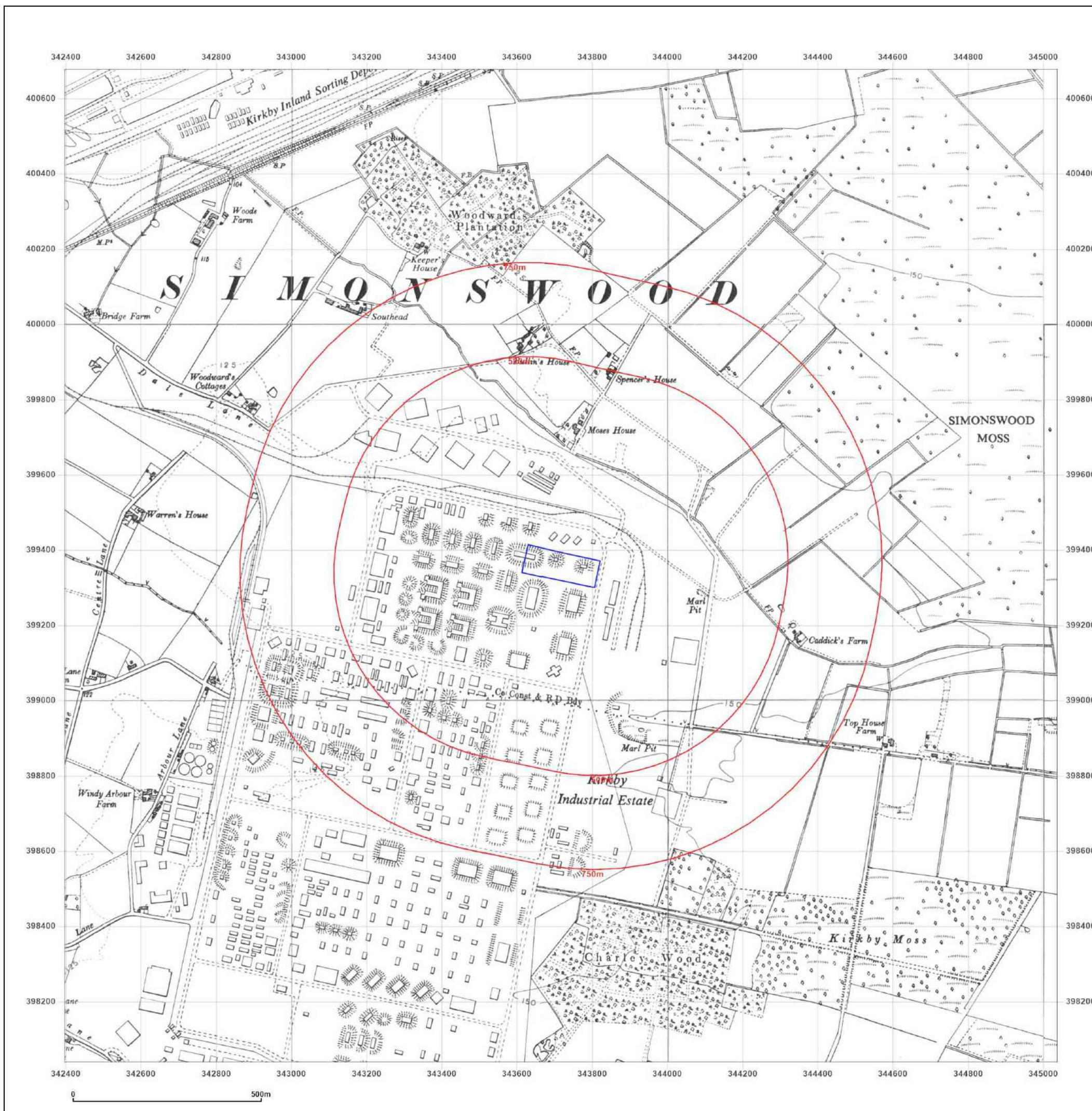


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Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: Provisional

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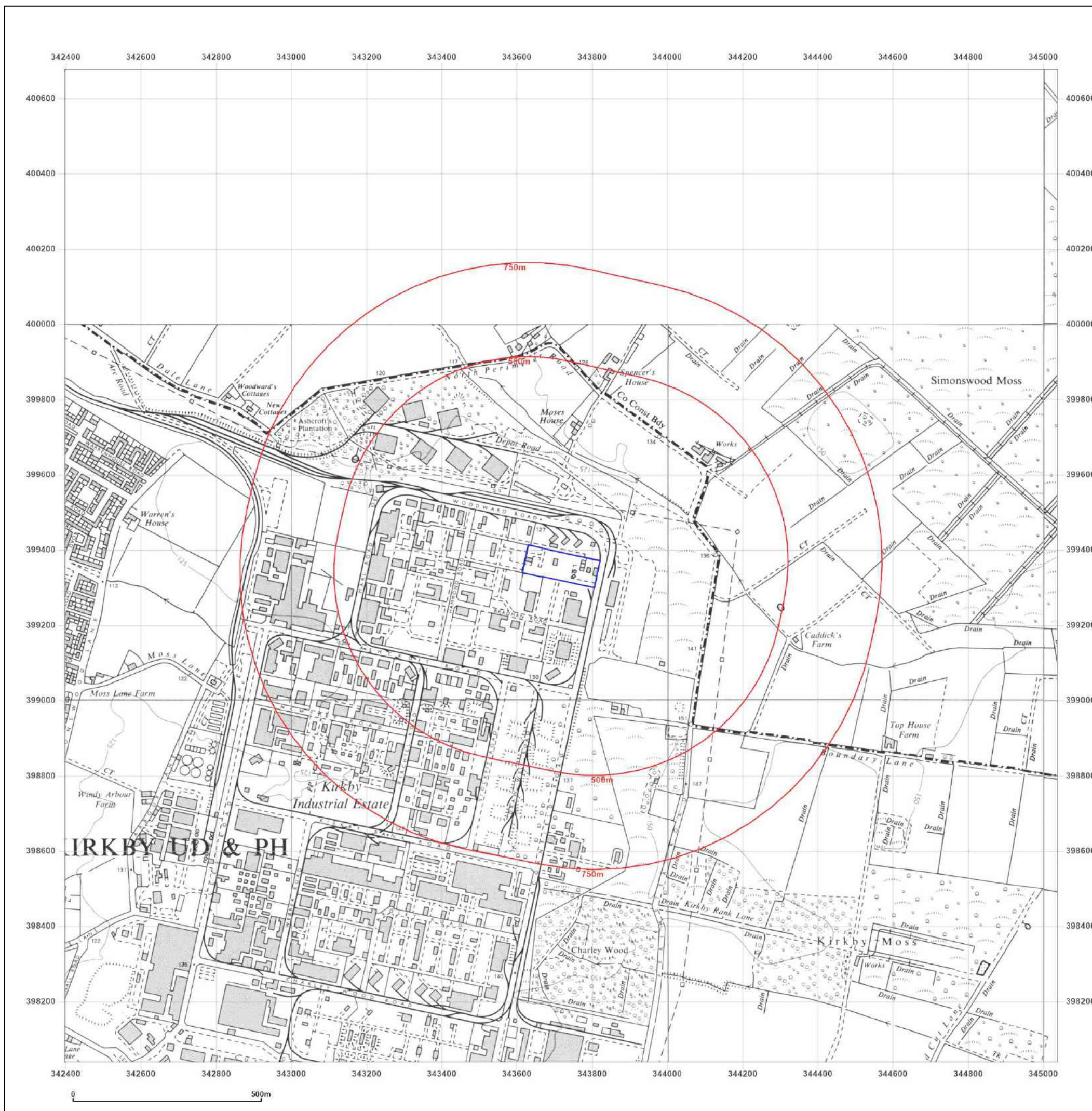


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Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: National Grid

Map date: 1974-1978

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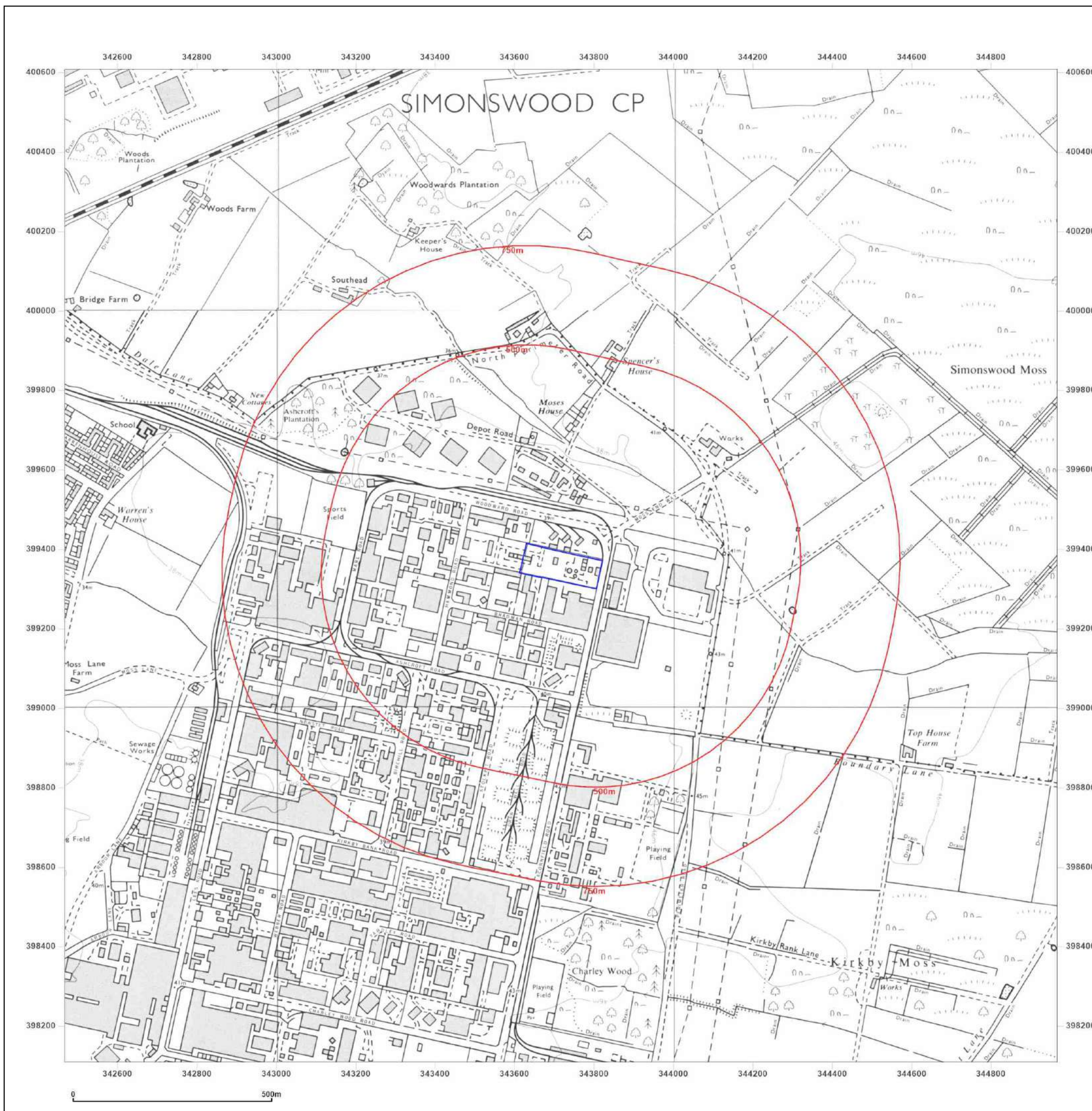


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Production date: 09 October 2024

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Site Details:

LAND AT ACORNFIELD ROAD,
KNOWSLEY INDUSTRIAL PARK,
KIRKBY, L33 7UG

Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: National Grid

Map date: 1987-1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1985
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1987
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

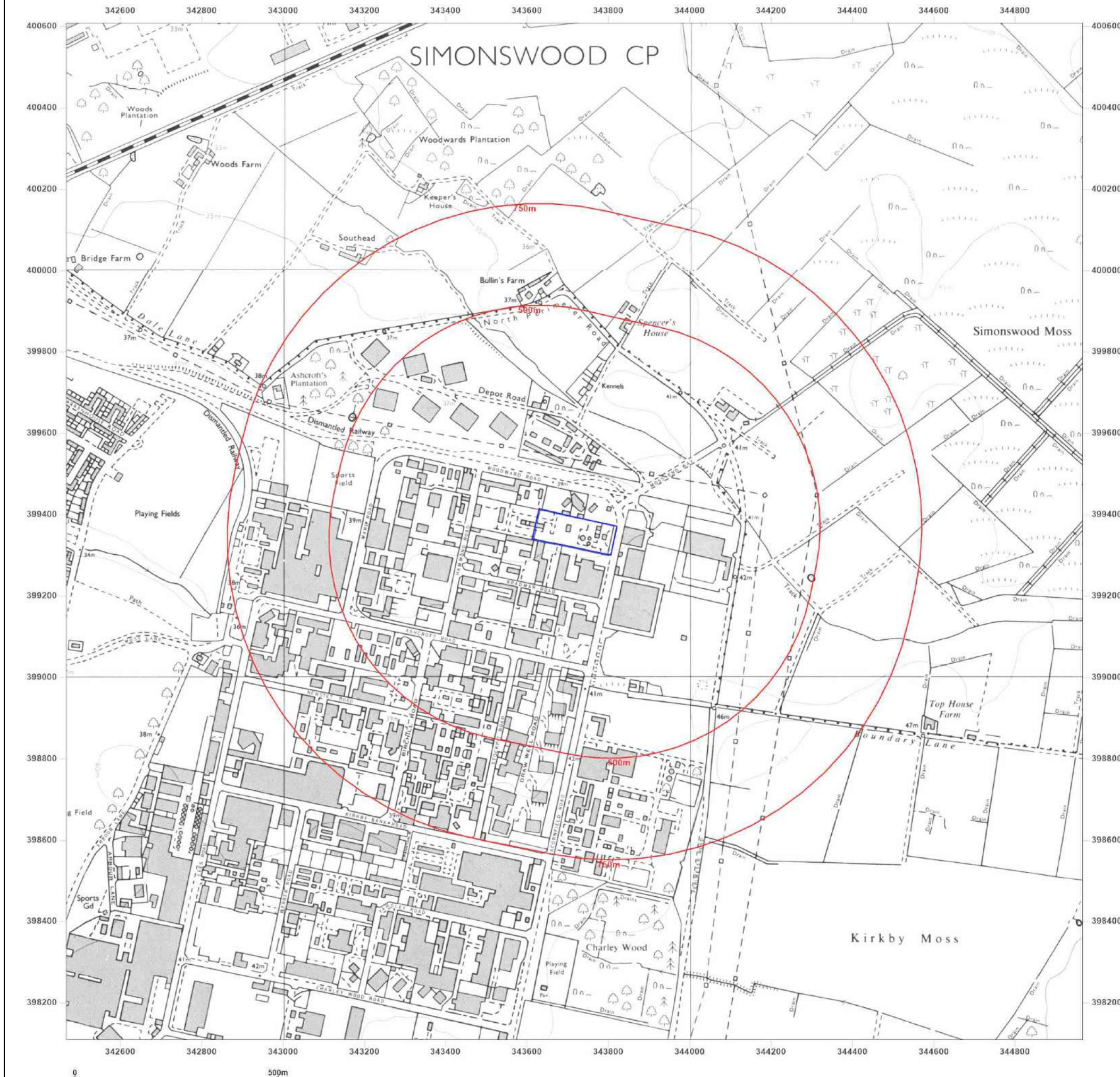


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Site Details:

LAND AT ACORNFIELD ROAD,
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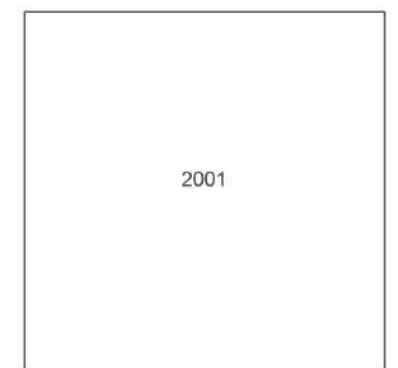
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Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

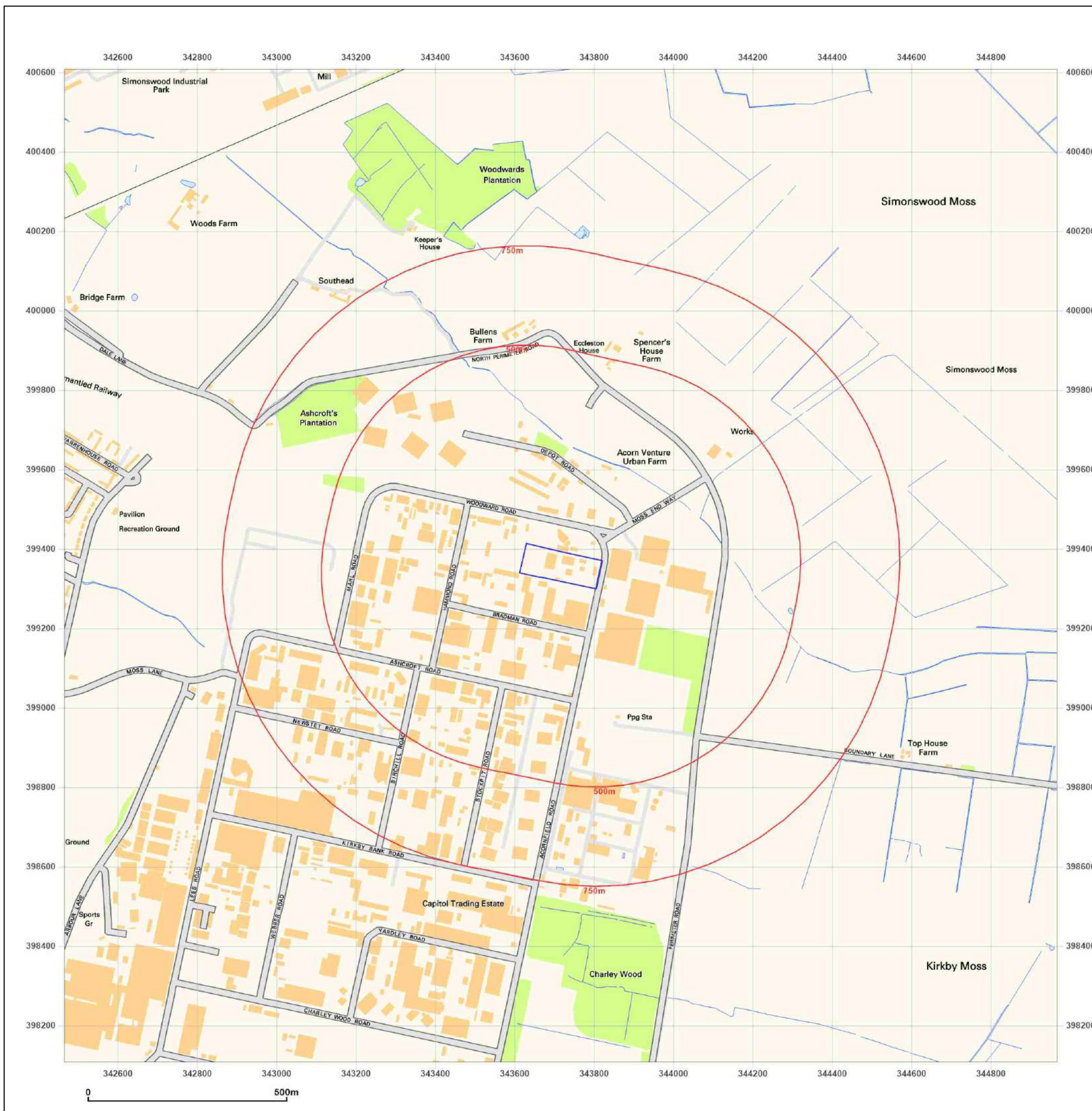


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Site Details:

LAND AT ACORNFIELD ROAD,
KNOWSLEY INDUSTRIAL PARK,
KIRKBY, L33 7UG

Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

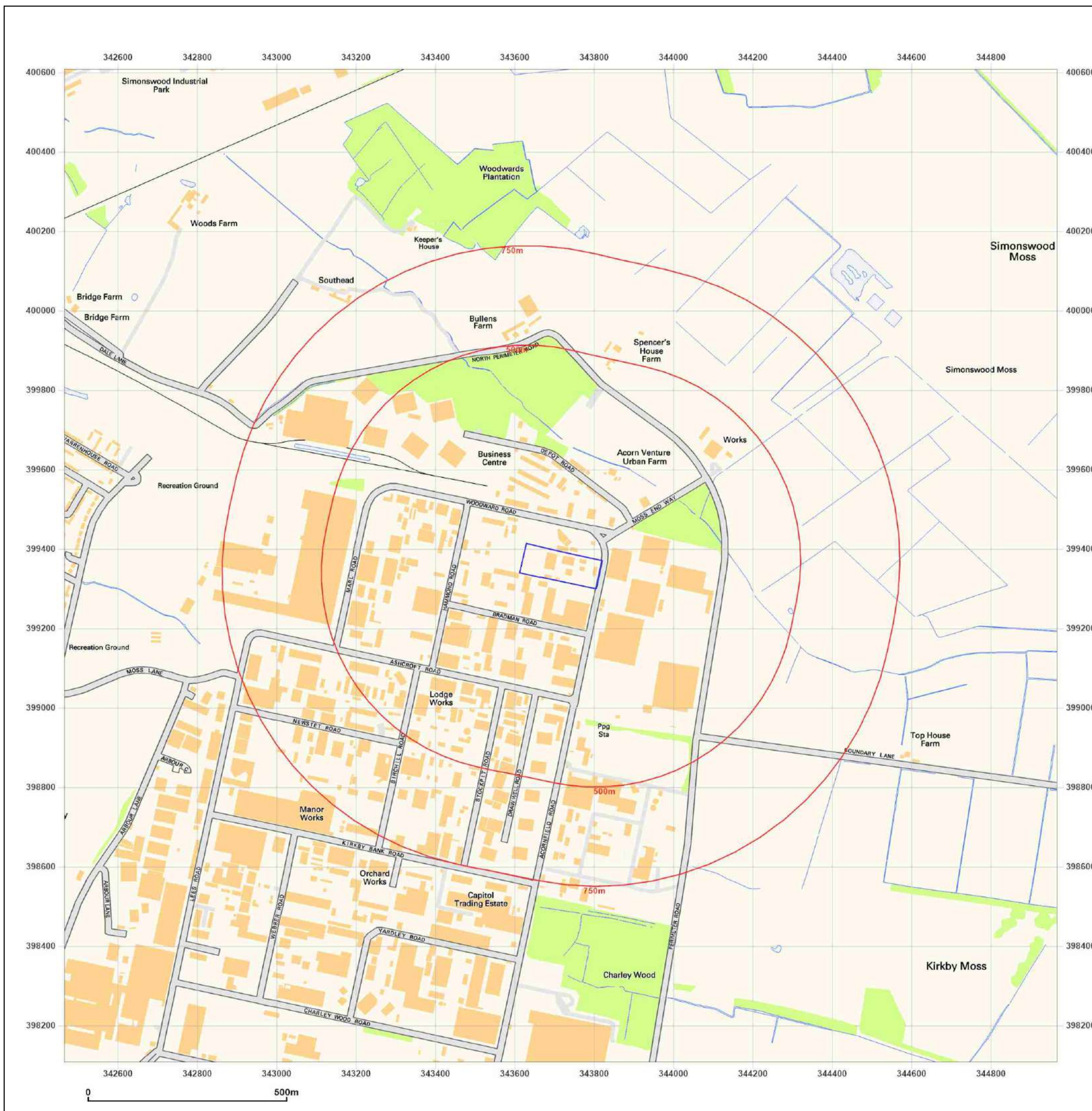


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Site Details:

LAND AT ACORNFIELD ROAD,
KNOWSLEY INDUSTRIAL PARK,
KIRKBY, L33 7UG

Client Ref: S2405
Report Ref: GS-67Y-7IE-BI8-57V
Grid Ref: 343716, 399358

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



2024

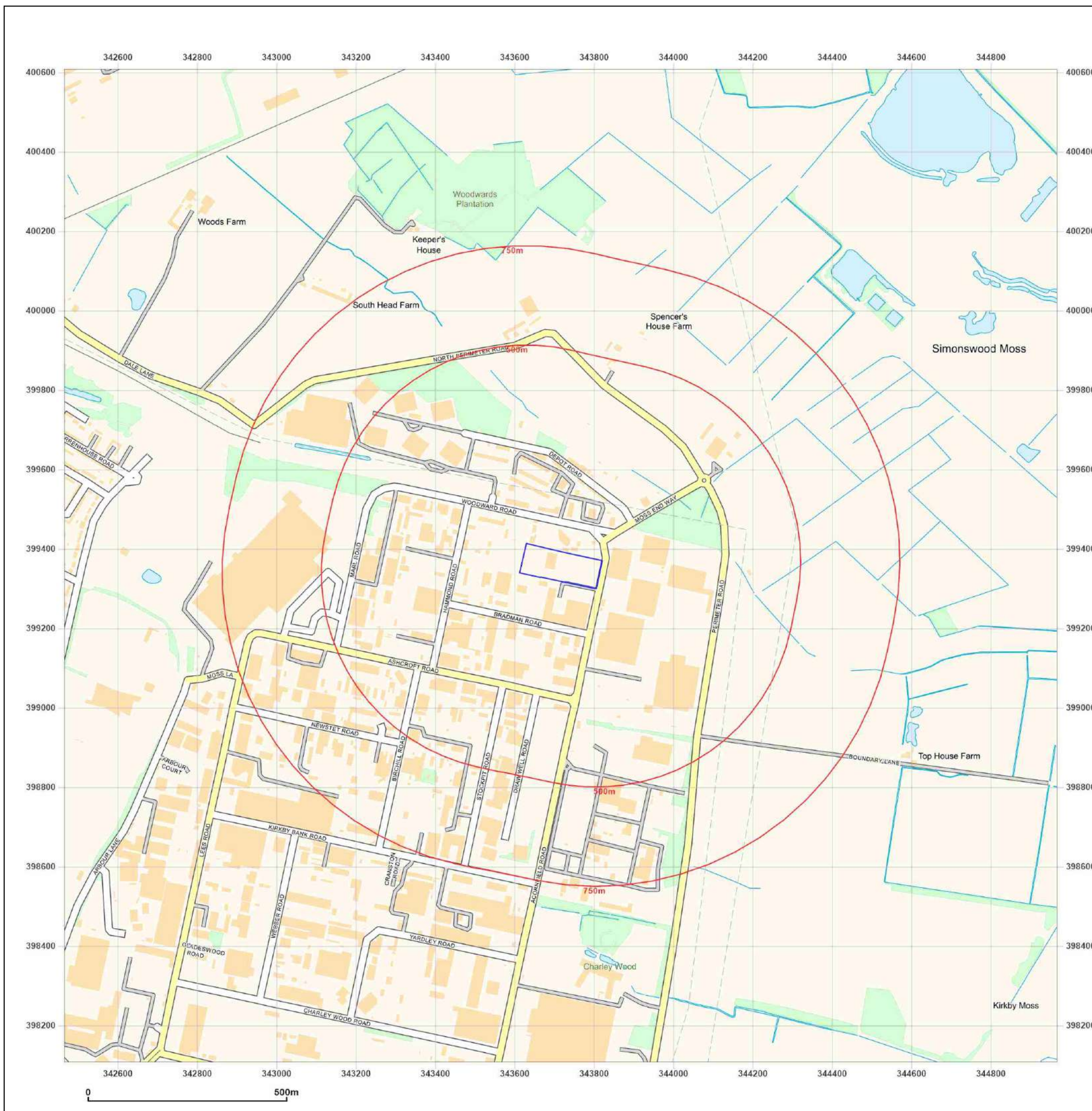


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APPENDIX 3



SPIRE
GEOTECHNICAL
Geologists & Site Investigation
Specialists

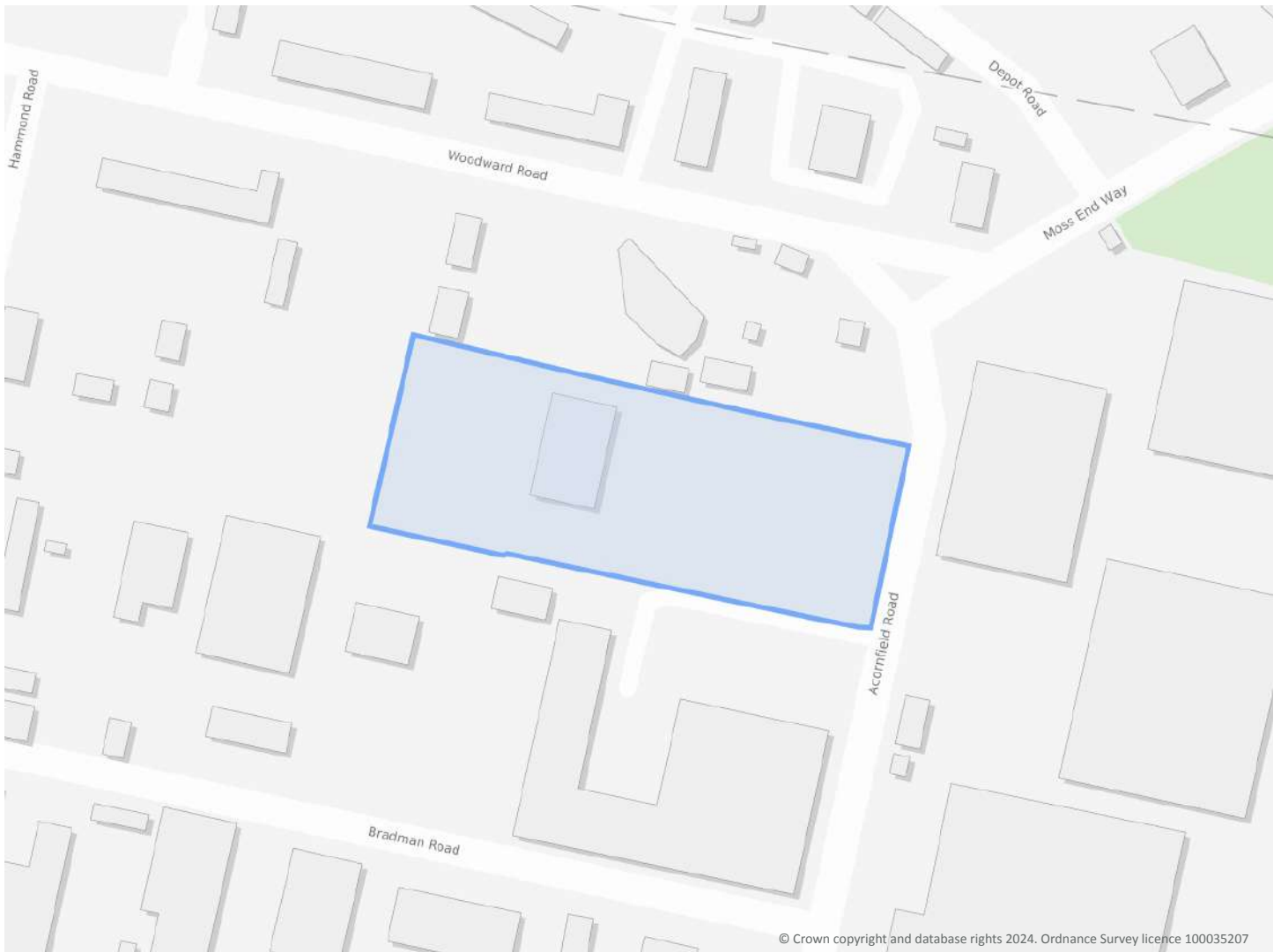
LAND AT ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, KIRKBY, L33 7UG

Order Details

Date: 09/10/2024
Your ref: S2405
Our Ref: GS-1IM-CBS-8DE-PGX

Site Details

Location: 343647 399369
Area: 1.45 ha
Authority: [Knowsley Metropolitan Borough Council](#)
↗



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Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#)

[Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	9	0	7	14	-
17 >	1.2 >	Historical tanks >	5	0	4	40	-
19 >	1.3 >	Historical energy features >	0	7	15	9	-
20	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
21 >	1.6 >	Historical military land >	1	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
22 >	2.1 >	Historical industrial land uses >	11	0	8	18	-
24 >	2.2 >	Historical tanks >	7	0	10	52	-
27 >	2.3 >	Historical energy features >	0	14	24	17	-
29	2.4	Historical petrol stations	0	0	0	0	-
29	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	3.1 >	Active or recent landfill >	0	0	0	1	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
31 >	3.5 >	Historical waste sites >	0	1	3	0	-
33 >	3.6 >	Licensed waste sites >	0	0	7	15	-
38 >	3.7 >	Waste exemptions >	0	0	36	82	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
49 >	4.1 >	Recent industrial land uses >	0	3	54	-	-
53	4.2	Current or recent petrol stations	0	0	0	0	-
54	4.3	Electricity cables	0	0	0	0	-
54	4.4	Gas pipelines	0	0	0	0	-
54	4.5	Sites determined as Contaminated Land	0	0	0	0	-



54 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	5	2	-
55	4.7	Regulated explosive sites	0	0	0	0	-
55 >	4.8 >	Hazardous substance storage/usage >	2	0	3	4	-
57 >	4.9 >	Historical licensed industrial activities (IPC) >	0	21	6	27	-
63 >	4.10 >	Licensed industrial activities (Part A(1)) >	17	16	24	49	-
82 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	3	1	-
83 >	4.12 >	Radioactive Substance Authorisations >	0	0	0	1	-
83 >	4.13 >	Licensed Discharges to controlled waters >	0	0	0	2	-
84	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
84	4.15	Pollutant release to public sewer	0	0	0	0	-
84 >	4.16 >	List 1 Dangerous Substances >	0	2	0	1	-
85 >	4.17 >	List 2 Dangerous Substances >	0	1	3	1	-
85 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	3	10	-
87	4.19	Pollution inventory substances	0	0	0	0	-
87 >	4.20 >	Pollution inventory waste transfers >	0	0	1	0	-
90	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
93 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
94 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
95	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
95	5.5	Groundwater vulnerability- local information	None (within 0m)				
96 >	5.6 >	Groundwater abstractions >	0	0	0	4	37
106 >	5.7 >	Surface water abstractions >	0	0	0	2	3
108 >	5.8 >	Potable abstractions >	0	0	0	0	2
108 >	5.9 >	Source Protection Zones >	1	0	0	0	-
109	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
110 >	6.1 >	Water Network (OS MasterMap) >	0	0	4	-	-



111 >	6.2 >	Surface water features >	0	0	2	-	-
111 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
112 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
112 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
114	7.2	Historical Flood Events	0	0	0	-	-
114	7.3	Flood Defences	0	0	0	-	-
114	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
114	7.5	Flood Storage Areas	0	0	0	-	-
115 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
116 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
117 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
119 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
120	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
121	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
121	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
121	10.4	Special Protection Areas (SPA)	0	0	0	0	0
121	10.5	National Nature Reserves (NNR)	0	0	0	0	0
122 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
122	10.7	Designated Ancient Woodland	0	0	0	0	0
122	10.8	Biosphere Reserves	0	0	0	0	0
122	10.9	Forest Parks	0	0	0	0	0
123	10.10	Marine Conservation Zones	0	0	0	0	0
123 >	10.11 >	Green Belt >	0	0	0	2	1
123	10.12	Proposed Ramsar sites	0	0	0	0	0



123	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
124	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
124	10.15	Nitrate Sensitive Areas	0	0	0	0	0
124 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	1	1
125	10.17	SSSI Impact Risk Zones	0	-	-	-	-
125	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
126	11.1	World Heritage Sites	0	0	0	-	-
126	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
126	11.3	National Parks	0	0	0	-	-
126	11.4	Listed Buildings	0	0	0	-	-
127	11.5	Conservation Areas	0	0	0	-	-
127	11.6	Scheduled Ancient Monuments	0	0	0	-	-
127	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
128 >	12.1 >	Agricultural Land Classification >	Grade 1 (within 250m)				
129	12.2	Open Access Land	0	0	0	-	-
129	12.3	Tree Felling Licences	0	0	0	-	-
129	12.4	Environmental Stewardship Schemes	0	0	0	-	-
129	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
130	13.1	Priority Habitat Inventory	0	0	0	-	-
130	13.2	Habitat Networks	0	0	0	-	-
130	13.3	Open Mosaic Habitat	0	0	0	-	-
130	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
131 >	14.1 >	10k Availability >	Identified (within 500m)				
132	14.2	Artificial and made ground (10k)	0	0	0	0	-
133	14.3	Superficial geology (10k)	0	0	0	0	-

133	14.4	Landslip (10k)	0	0	0	0	-
134	14.5	Bedrock geology (10k)	0	0	0	0	-
134	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
135 >	15.1 >	50k Availability >	Identified (within 500m)				
136 >	15.2 >	Artificial and made ground (50k) >	1	0	0	1	-
137 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
138 >	15.4 >	Superficial geology (50k) >	1	0	2	4	-
139 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
139	15.6	Landslip (50k)	0	0	0	0	-
139	15.7	Landslip permeability (50k)	None (within 50m)				
140 >	15.8 >	Bedrock geology (50k) >	1	0	0	0	-
141 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
141	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
142 >	16.1 >	BGS Boreholes >	67	6	38	-	-
Page	Section	Natural ground subsidence >					
148 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
149 >	17.2 >	Running sands >	Low (within 50m)				
151 >	17.3 >	Compressible deposits >	Very low (within 50m)				
153 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
154 >	17.5 >	Landslides >	Very low (within 50m)				
155 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
157	18.1	BritPits	0	0	0	0	-
158 >	18.2 >	Surface ground workings >	0	0	3	-	-
158	18.3	Underground workings	0	0	0	0	0
158	18.4	Underground mining extents	0	0	0	0	-
158 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



159	18.6	Non-coal mining	0	0	0	0	0
159	18.7	JPB mining areas	None (within 0m)				
159	18.8	The Coal Authority non-coal mining	0	0	0	0	-
159	18.9	Researched mining	0	0	0	0	-
160	18.10	Mining record office plans	0	0	0	0	-
160	18.11	BGS mine plans	0	0	0	0	-
160	18.12	Coal mining	None (within 0m)				
160	18.13	Brine areas	None (within 0m)				
160	18.14	Gypsum areas	None (within 0m)				
161	18.15	Tin mining	None (within 0m)				
161	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
162	19.1	Natural cavities	0	0	0	0	-
162	19.2	Mining cavities	0	0	0	0	0
162	19.3	Reported recent incidents	0	0	0	0	-
162	19.4	Historical incidents	0	0	0	0	-
163	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
164 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
166 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
166	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
166	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
167	22.1	Underground railways (London)	0	0	0	-	-
167	22.2	Underground railways (Non-London)	0	0	0	-	-
168	22.3	Railway tunnels	0	0	0	-	-
168 >	22.4 >	Historical railway and tunnel features >	3	4	10	-	-
169	22.5	Royal Mail tunnels	0	0	0	-	-

169 >	22.6 >	Historical railways >	0	0	1	-	-
169 >	22.7 >	Railways >	0	0	3	-	-
170	22.8	Crossrail 1	0	0	0	0	-
170	22.9	Crossrail 2	0	0	0	0	-
170	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 18/10/2022

Site Area: 1.45ha



Recent site history - 2019 aerial photograph



Capture Date: 22/04/2019

Site Area: 1.45ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 1.45ha



Recent site history - 2001 aerial photograph



Capture Date: 01/05/2001

Site Area: 1.45ha



Recent site history - 2000 aerial photograph

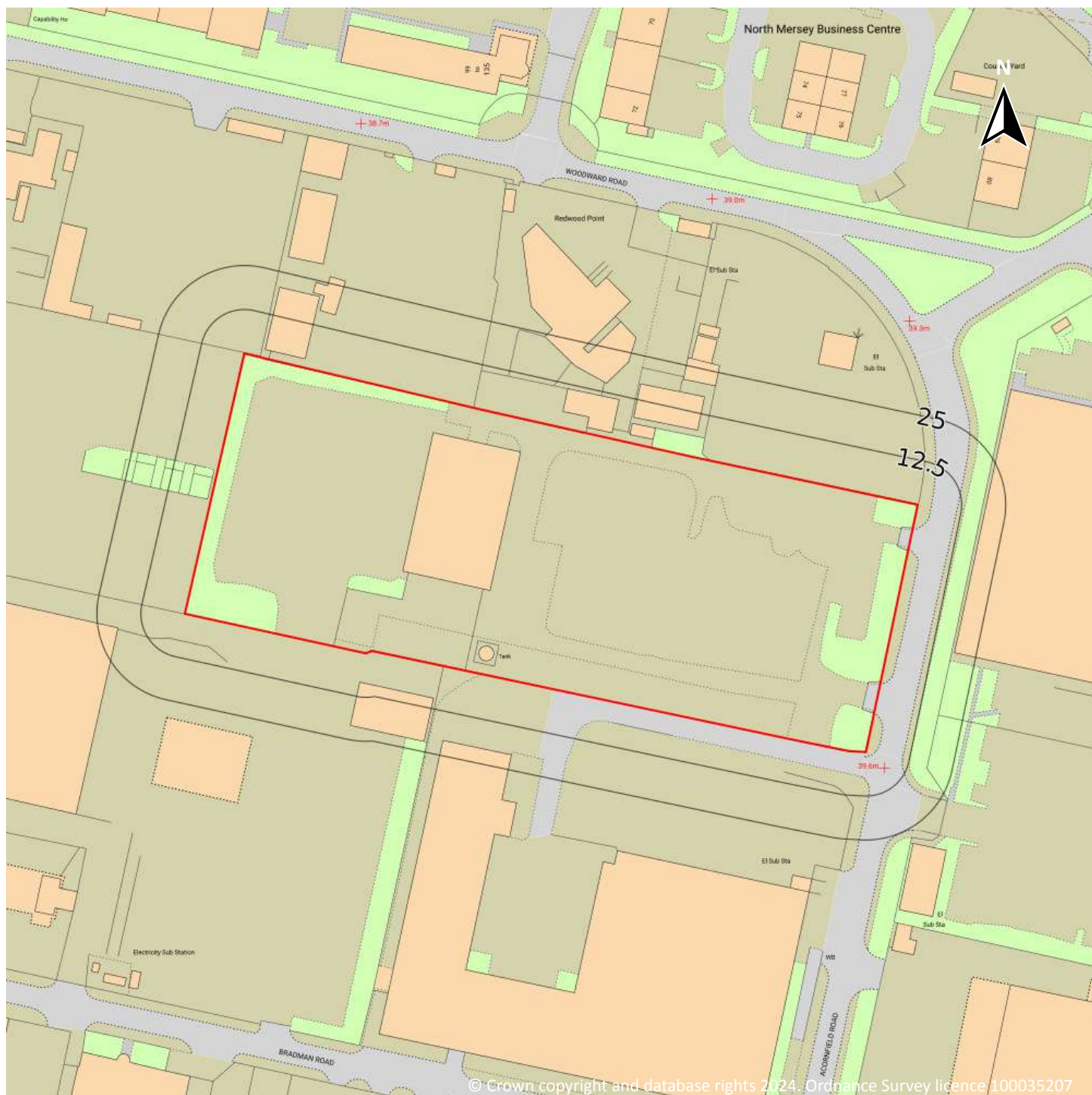


Capture Date: 21/07/2000

Site Area: 1.45ha



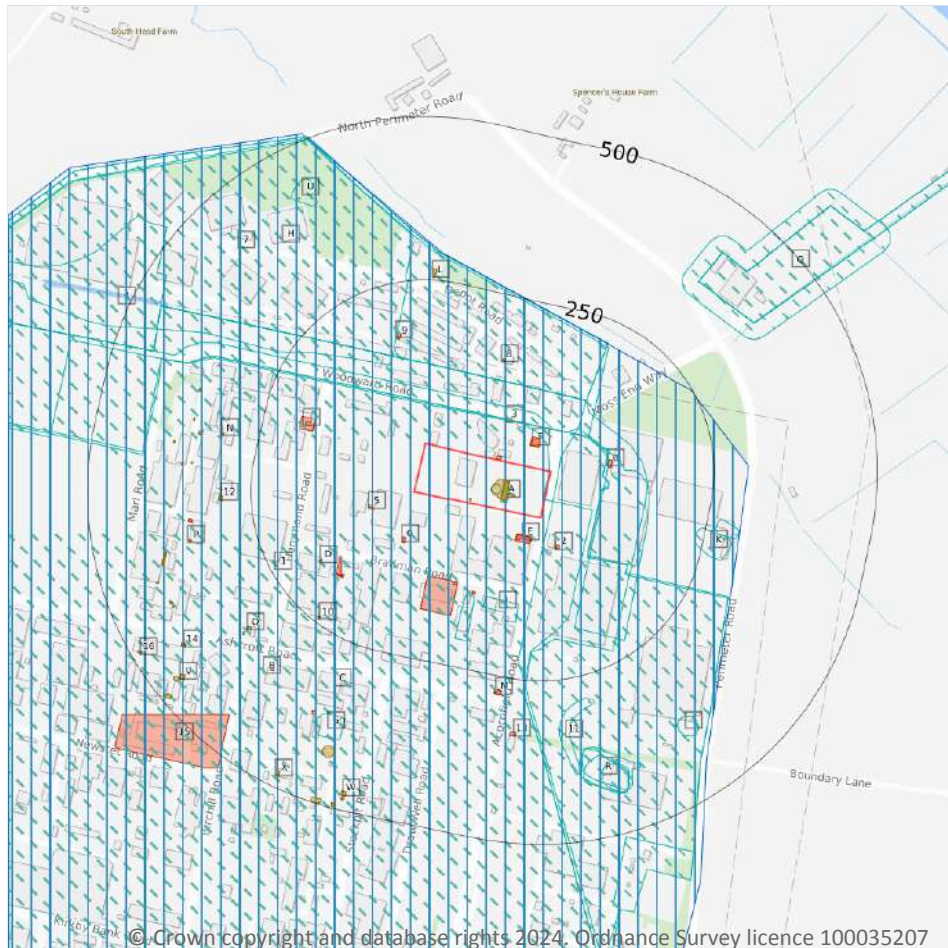
OS MasterMap site plan



Site Area: 1.45ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

30

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

Features are displayed on the Past land use map on [page 15](#) >

ID	Location	Land use	Dates present	Group ID
1	On site	Railway Sidings	1955 - 1978	2405268



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tanks	1966 - 1978	884154
A	On site	Unspecified Tanks	1988	909096
A	On site	Unspecified Tank	1988	974276
A	On site	Unspecified Tank	1978	981654
B	On site	Industrial Estate	1966	918975
B	On site	Unspecified Commercial/Industrial	1956	925687
C	On site	Industrial Estate	1988	955430
C	On site	Industrial Estate	1978	992608
4	64m NE	Railway Sidings	1956	994428
H	119m NE	Unspecified Commercial/Industrial	1956	894867
H	119m NE	Unspecified Commercial/Industrial	1966 - 1978	1000682
7	132m NW	Unspecified Commercial/Industrial	1988	930560
I	135m S	Unspecified Heaps	1978	837901
I	138m S	Unspecified Heap	1978	843737
K	236m E	Marl Pit	1907	857264
K	266m E	Marl Pit	1928 - 1956	989659
11	285m SE	Unspecified Heap	1956	843738
Q	344m NE	Unspecified Works	1966 - 1978	969362
R	360m S	Marl Pit	1928	968280
R	360m S	Marl Pit	1956	968696
S	362m SW	Unspecified Heap	1966	843735
Q	369m NE	Unspecified Commercial/Industrial	1988	822506
Q	369m NE	Railway Sidings	1966 - 1978	973905
Q	369m NE	Railway Sidings	1988	995212
R	373m SE	Marl Pit	1907	984031
T	375m SE	Unspecified Heap	1966 - 1978	905313
T	375m SE	Unspecified Heap	1988	971388
R	390m SE	Unspecified Pit	1890	830662



ID	Location	Land use	Dates present	Group ID
U	402m NW	Unspecified Pit	1966	830663

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	49
----------------------------	-----------

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Tank	1994	114797
A	On site	Unspecified Tank	1971 - 1984	128132
A	On site	Tanks	1962	132489
A	On site	Tanks	1971 - 1984	136521
A	On site	Tanks	1962	137211
5	67m W	Unspecified Tank	1984 - 1994	141485
8	150m N	Unspecified Tank	1962 - 1976	135883
D	175m SW	Unspecified Tank	1971	114809
10	240m SW	Unspecified Tank	1971 - 1994	127423
L	254m N	Tanks	1976	108528
L	261m N	Tanks	1976	108527
12	293m W	Unspecified Tank	1971 - 1994	137082
N	303m W	Unspecified Tank	1986	155787
N	304m W	Unspecified Tank	1971	144479
N	304m W	Unspecified Tank	1994	138510
O	325m SW	Unspecified Tank	1971	114873
O	337m SW	Unspecified Tank	1971	114874



ID	Location	Land use	Dates present	Group ID
N	342m W	Unspecified Tank	1971	114872
P	349m W	Unspecified Tank	1986	131344
P	350m W	Unspecified Tank	1971	136693
P	350m W	Unspecified Tank	1994	131537
N	352m W	Unspecified Tank	1971	114871
N	354m W	Tanks	1971	108574
N	356m W	Unspecified Tank	1971	114869
N	373m W	Unspecified Tank	1971 - 1986	142705
N	374m W	Unspecified Tank	1994	152542
P	390m W	Tanks	1986	151226
P	391m W	Tanks	1971	129499
P	397m W	Tanks	1971	126556
P	397m W	Tanks	1994	148913
P	407m W	Unspecified Tank	1986	141535
P	407m W	Unspecified Tank	1971	134253
P	408m W	Unspecified Tank	1962	137534
P	408m W	Unspecified Tank	1994	154048
P	409m W	Unspecified Tank	1962	143697
S	410m SW	Unspecified Tank	1994	114798
P	415m W	Unspecified Tank	1971 - 1986	141717
U	420m NW	Tanks	1962	108529
V	449m SW	Tanks	1971 - 1986	156243
V	459m SW	Tanks	1971 - 1986	150610
W	471m SW	Tanks	1984	108457
X	475m SW	Tanks	1994	108513
W	480m SW	Tanks	1984	108456
W	480m SW	Unspecified Tank	1972	114808
16	483m SW	Tanks	1971 - 1994	150744



ID	Location	Land use	Dates present	Group ID
V	485m SW	Tanks	1971 - 1994	128033
X	487m SW	Unspecified Tank	1994	114799
W	491m SW	Tanks	1969 - 1971	153438
W	492m SW	Tanks	1969 - 1971	146705

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	31
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	1m NE	Electricity Substation	1992 - 1994	83245
E	31m SE	Electricity Substation	1971	91147
E	31m SE	Electricity Substation	1994	78666
E	32m SE	Electricity Substation	1984 - 1992	84033
F	33m NE	Electricity Substation	1971 - 1992	84145
F	33m NE	Electricity Substation	1994	74019
2	49m SE	Electricity Substation	1971 - 1994	87646
3	61m NE	Electricity Substation	1992 - 1994	85361
G	71m SW	Electricity Substation	1994	91197
G	72m SW	Electricity Substation	1971 - 1992	70211
6	87m E	Electricity Substation	1971 - 1994	84197
I	122m SW	Electricity Substation	1971	84418
I	122m S	Electricity Substation	1971	89202
I	131m S	Electricity Substation	1971	66230



ID	Location	Land use	Dates present	Group ID
D	150m SW	Electricity Substation	1971	79985
9	164m NW	Electricity Substation	1976 - 1994	87760
D	167m SW	Electricity Substation	1992	76777
D	167m SW	Electricity Substation	1984	86758
D	170m SW	Electricity Substation	1986	90405
J	173m W	Electricity Substation	1986 - 1994	89096
D	175m SW	Electricity Substation	1986	67750
J	178m W	Electricity Substation	1971	74348
M	271m S	Electricity Substation	1984 - 1994	71541
M	271m S	Electricity Substation	1971	70502
13	330m S	Electricity Substation	1994	67746
N	336m W	Electricity Substation	1986 - 1994	75687
P	343m W	Electricity Substation	1986 - 1994	70661
B	345m SW	Electricity Substation	1971	67749
S	368m SW	Electricity Substation	1971 - 1994	85552
14	420m SW	Electricity Substation	1971 - 1994	82541
15	443m SW	Electricity Substation	1994	84595

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m**0**

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

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m**1**

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

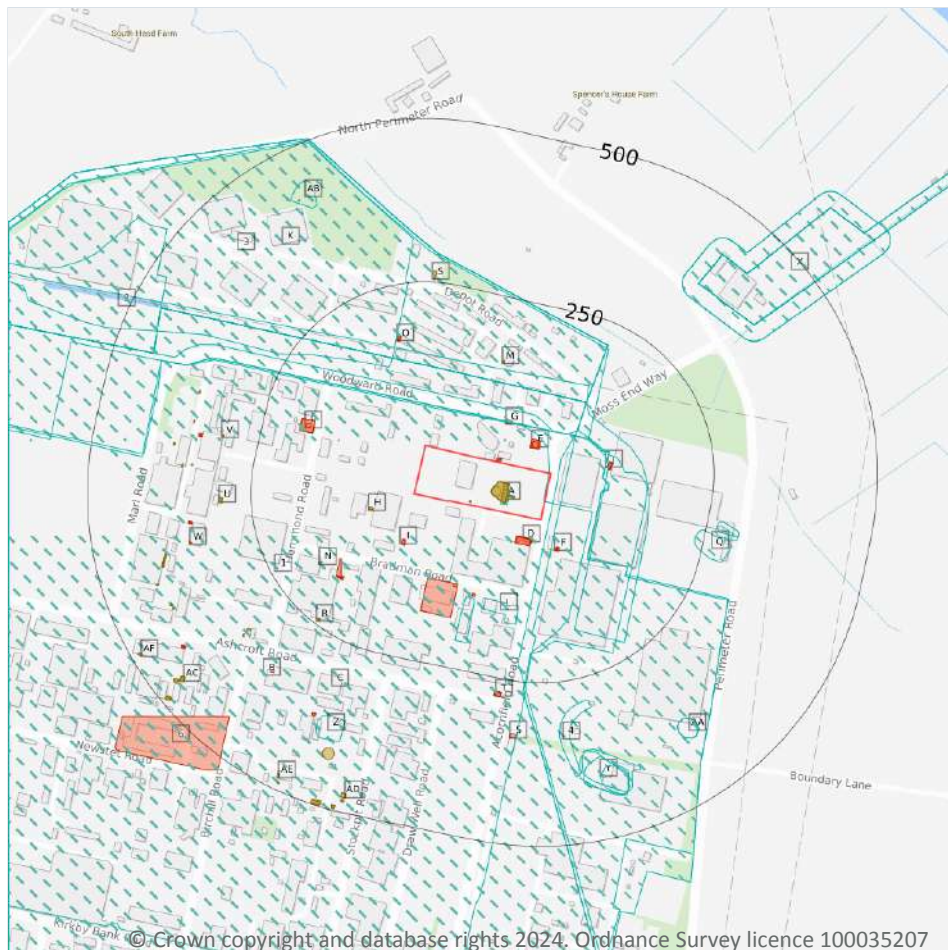
Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Site Name	Date of Operation	Activities
D	On site	ROF Kirkby	September 1940 - March 1946	Produced approximately 10% of WW2 ammunition; Approximately 23,000 employees; Filling Factory No.7

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

37

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

Features are displayed on the Past land use - un-grouped map on [page 22](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1966	2405268
A	On site	Unspecified Tanks	1966	884154
A	On site	Unspecified Tank	1978	981654



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tanks	1978	884154
A	On site	Unspecified Tank	1988	974276
A	On site	Unspecified Tanks	1988	909096
B	On site	Industrial Estate	1966	918975
B	On site	Railway Sidings	1978	2405268
B	On site	Unspecified Commercial/Industrial	1956	925687
C	On site	Industrial Estate	1978	992608
C	On site	Industrial Estate	1988	955430
2	64m NE	Railway Sidings	1956	994428
K	119m NE	Unspecified Commercial/Industrial	1966	1000682
K	119m NE	Unspecified Commercial/Industrial	1978	1000682
K	119m NE	Unspecified Commercial/Industrial	1956	894867
3	132m NW	Unspecified Commercial/Industrial	1988	930560
L	135m S	Unspecified Heaps	1978	837901
L	138m S	Unspecified Heap	1978	843737
Q	236m E	Marl Pit	1907	857264
Q	266m E	Marl Pit	1928	989659
Q	266m E	Marl Pit	1956	989659
4	285m SE	Unspecified Heap	1956	843738
X	344m NE	Unspecified Works	1966	969362
X	344m NE	Unspecified Works	1978	969362
Y	360m S	Marl Pit	1928	968280
Y	360m S	Marl Pit	1956	968696
Z	362m SW	Unspecified Heap	1966	843735
X	369m NE	Railway Sidings	1966	973905
X	369m NE	Railway Sidings	1978	973905
X	369m NE	Unspecified Commercial/Industrial	1988	822506
X	369m NE	Railway Sidings	1988	995212



ID	Location	Land Use	Date	Group ID
Y	373m SE	Marl Pit	1907	984031
AA	375m SE	Unspecified Heap	1966	905313
AA	375m SE	Unspecified Heap	1978	905313
AA	375m SE	Unspecified Heap	1988	971388
Y	390m SE	Unspecified Pit	1890	830662
AB	402m NW	Unspecified Pit	1966	830663

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	69
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1994	114797
A	On site	Tanks	1971	136521
A	On site	Unspecified Tank	1971	128132
A	On site	Tanks	1962	132489
A	On site	Tanks	1962	137211
A	On site	Tanks	1984	136521
A	On site	Unspecified Tank	1984	128132
H	67m W	Unspecified Tank	1994	141485
H	67m W	Unspecified Tank	1984	141485
H	67m W	Unspecified Tank	1992	141485
M	150m N	Unspecified Tank	1962	135883
M	150m N	Unspecified Tank	1976	135883
M	150m N	Unspecified Tank	1962	135883
N	175m SW	Unspecified Tank	1971	114809



ID	Location	Land Use	Date	Group ID
R	240m SW	Unspecified Tank	1994	127423
R	241m SW	Unspecified Tank	1971	127423
R	241m SW	Unspecified Tank	1986	127423
S	254m N	Tanks	1976	108528
S	261m N	Tanks	1976	108527
U	293m W	Unspecified Tank	1986	137082
U	293m W	Unspecified Tank	1971	137082
U	294m W	Unspecified Tank	1994	137082
V	303m W	Unspecified Tank	1986	155787
V	304m W	Unspecified Tank	1971	144479
V	304m W	Unspecified Tank	1994	138510
B	325m SW	Unspecified Tank	1971	114873
B	337m SW	Unspecified Tank	1971	114874
V	342m W	Unspecified Tank	1971	114872
W	349m W	Unspecified Tank	1986	131344
W	350m W	Unspecified Tank	1971	136693
W	350m W	Unspecified Tank	1994	131537
V	352m W	Unspecified Tank	1971	114871
V	354m W	Tanks	1971	108574
V	356m W	Unspecified Tank	1971	114869
V	373m W	Unspecified Tank	1986	142705
V	374m W	Unspecified Tank	1971	142705
V	374m W	Unspecified Tank	1994	152542
W	390m W	Tanks	1986	151226
W	391m W	Tanks	1971	129499
W	397m W	Tanks	1971	126556
W	397m W	Tanks	1994	148913
W	407m W	Unspecified Tank	1986	141535



ID	Location	Land Use	Date	Group ID
W	407m W	Unspecified Tank	1971	134253
W	408m W	Unspecified Tank	1962	137534
W	408m W	Unspecified Tank	1994	154048
W	409m W	Unspecified Tank	1962	143697
Z	410m SW	Unspecified Tank	1994	114798
W	415m W	Unspecified Tank	1986	141717
W	415m W	Unspecified Tank	1971	141717
AB	420m NW	Tanks	1962	108529
AC	449m SW	Tanks	1986	156243
AC	449m SW	Tanks	1971	156243
AC	459m SW	Tanks	1986	150610
AC	460m SW	Tanks	1971	150610
AD	471m SW	Tanks	1984	108457
AE	475m SW	Tanks	1994	108513
AD	480m SW	Tanks	1984	108456
AD	480m SW	Unspecified Tank	1972	114808
AF	483m SW	Tanks	1986	150744
AF	484m SW	Tanks	1994	150744
AF	484m SW	Tanks	1971	150744
AC	485m SW	Tanks	1986	128033
AC	486m SW	Tanks	1971	128033
AC	486m SW	Tanks	1994	128033
AE	487m SW	Unspecified Tank	1994	114799
AD	491m SW	Tanks	1971	153438
AD	492m SW	Tanks	1971	146705
AD	492m SW	Tanks	1969	146705
AD	493m SW	Tanks	1969	153438

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

55

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
A	1m NE	Electricity Substation	1992	83245
A	4m NE	Electricity Substation	1994	83245
D	31m SE	Electricity Substation	1971	91147
D	31m SE	Electricity Substation	1994	78666
D	32m SE	Electricity Substation	1984	84033
D	32m SE	Electricity Substation	1992	84033
E	33m NE	Electricity Substation	1984	84145
E	33m NE	Electricity Substation	1992	84145
E	33m NE	Electricity Substation	1994	74019
E	34m NE	Electricity Substation	1971	84145
F	49m SE	Electricity Substation	1994	87646
F	49m SE	Electricity Substation	1984	87646
F	49m SE	Electricity Substation	1992	87646
F	49m SE	Electricity Substation	1971	87646
G	61m NE	Electricity Substation	1992	85361
G	62m N	Electricity Substation	1994	85361
I	71m SW	Electricity Substation	1994	91197
I	72m SW	Electricity Substation	1971	70211
I	73m SW	Electricity Substation	1984	70211
I	73m SW	Electricity Substation	1992	70211
J	87m E	Electricity Substation	1984	84197
J	87m E	Electricity Substation	1992	84197
J	88m E	Electricity Substation	1994	84197



ID	Location	Land Use	Date	Group ID
J	89m E	Electricity Substation	1971	84197
L	122m SW	Electricity Substation	1971	84418
L	122m S	Electricity Substation	1971	89202
L	131m S	Electricity Substation	1971	66230
N	150m SW	Electricity Substation	1971	79985
O	164m NW	Electricity Substation	1994	87760
O	166m NW	Electricity Substation	1976	87760
N	167m SW	Electricity Substation	1971	79985
N	167m SW	Electricity Substation	1984	86758
N	167m SW	Electricity Substation	1992	76777
N	170m SW	Electricity Substation	1986	90405
P	173m W	Electricity Substation	1986	89096
P	173m W	Electricity Substation	1994	89096
N	175m SW	Electricity Substation	1986	67750
P	178m W	Electricity Substation	1971	74348
T	271m S	Electricity Substation	1994	71541
T	271m S	Electricity Substation	1984	71541
T	271m S	Electricity Substation	1992	71541
T	271m S	Electricity Substation	1971	70502
5	330m S	Electricity Substation	1994	67746
V	336m W	Electricity Substation	1986	75687
V	337m W	Electricity Substation	1994	75687
W	343m W	Electricity Substation	1986	70661
W	343m W	Electricity Substation	1994	70661
B	345m SW	Electricity Substation	1971	67749
Z	368m SW	Electricity Substation	1986	85552
Z	369m SW	Electricity Substation	1971	85552
Z	369m SW	Electricity Substation	1994	85552



ID	Location	Land Use	Date	Group ID
AC	420m SW	Electricity Substation	1986	82541
AC	421m SW	Electricity Substation	1994	82541
AC	421m SW	Electricity Substation	1971	82541
6	443m SW	Electricity Substation	1994	84595

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

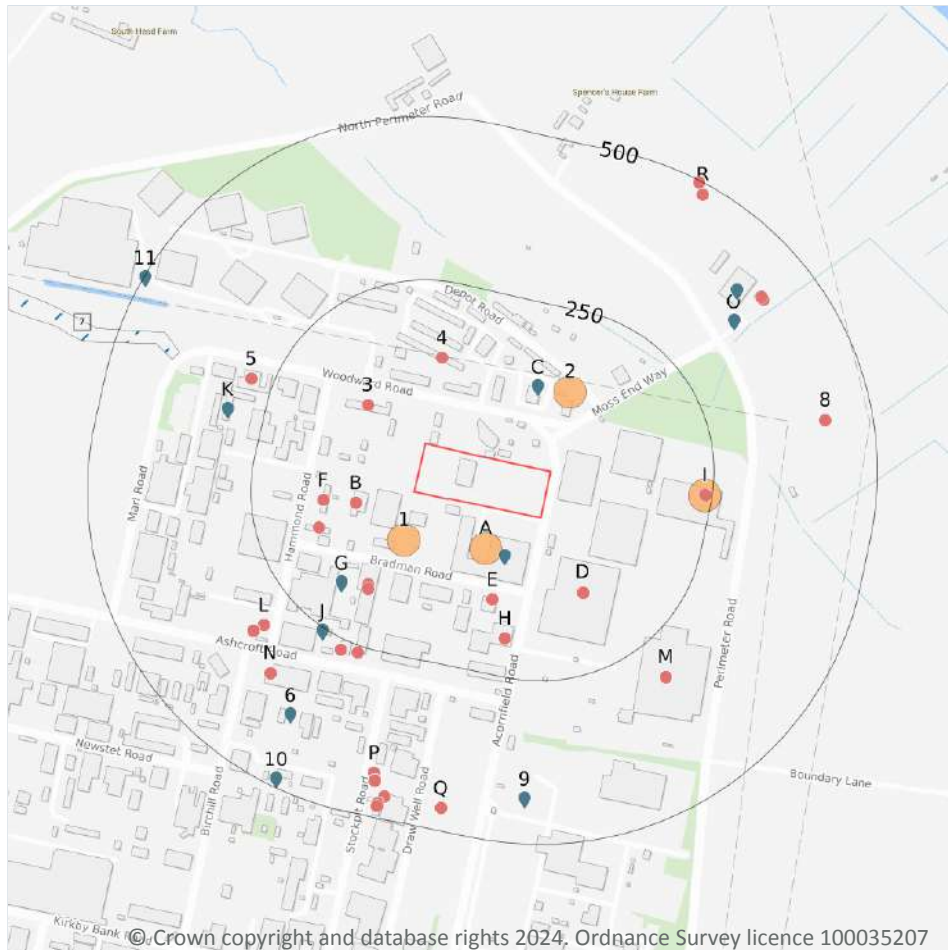
2.5 Historical garages

Records within 500m	0
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 30](#) >

ID	Location	Details	
7	401m NW	Operator: Knowsley Metropolitan Borough Council Site Address: Knowsley Metropolitan Borough Council, Land/premises At, Marl Roadw/woodward Road, Simonswood, Kirkby, Merseyside, L33 7UH	WML Number: 54257 EPR Reference: 654106 Landfill type: A05: Landfill taking Non-Biodegradable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/KP3197CA



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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

4

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

Features are displayed on the Waste and landfill map on [page 30](#) >

ID	Location	Address	Further Details	Date
A	39m S	Site Address: SRCL Limited, Acornfield Road/Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR, N.WEST	Type of Site: Waste Management Facility Planning application reference: 22/00295/SO Description: Scheme comprises screening opinion for the change of use, alterations and refurbishment to existing waste management facility. Data source: Historic Planning Application Data Type: Point	12/05/2022



ID	Location	Address	Further Details	Date
1	51m SW	Site Address: Vacant Warehouse/Bradman House, Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Type of Site: Waste Treatment/Transfer Operation Facility Planning application reference: 13/00384/FUL Description: Scheme comprises change of use of vacant unit (use class B8) to form a healthcare waste treatment and transfer operation (use class sui generis) facilitating the treatment and temporary storage of waste prior to being transferred off-site for re-cycling together with external alteration to parts of external building & associated works. Data source: Historic Planning Application Data Type: Point	13/12/2013
2	100m NE	Site Address: Depot Road, Knowsley Industrial Park North, LIVERPOOL, Merseyside, L33 7B	Type of Site: Waste Recycling Centre Planning application reference: 09/00376/FUL Description: Scheme comprises construction of new householder waste recycling centre. Works will include construction of new link road. Construction - black top surfacing, white lining site works. An application (ref: 09/00376/FUL) for detailed planning permissions granted by Knowsley B.C. Detailed plans have been approved. Veolia Environmental services has been awarded the main contract. Data source: Historic Planning Application Data Type: Point	28/03/2011
1	214m E	Site Address: Land At Coopers Moss, Perimeter Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 3AY	Type of Site: Land Reclamation Planning application reference: 14/00849/FUL Description: Scheme comprises reclamation of tipped contaminated and derelict land through the importation of soils and soil forming materials; formation of new access; temporary construction of internal road, site offices and storage structures; car park and infrastructure compound with restoration to agriculture use and woodland. The associated works include sewer systems, landscaping, infrastructure, enabling and access roads. Data source: Historic Planning Application Data Type: Point	-

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



3.6 Licensed waste sites

Records within 500m

22

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

Features are displayed on the Waste and landfill map on [page 30](#) >

ID	Location	Details		
A	71m S	Site Name: SRCL Knowsley Treatment and Transfer Station Site Address: SRCL Knowsley Treatment and Transfer Station, Bradman Road, Knowsley Industrial Park, Merseyside, L33 7UR Correspondence Address: -	Type of Site: Clinical Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 646787 EPR reference: EA/EPR/KP3436NL Operator: Srcl Limited Waste Management licence No: 400611 Annual Tonnage: 8760	Issue Date: 04/10/2022 Effective Date: 13/10/2022 Modified: 13/10/2022 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	121m NE	Site Name: Kirkby W R C Site Address: Depot Road, Kirkby, Knowsley Ind. Est, Merseyside, L33 3AR Correspondence Address: Port Of Liverpool Building, 2nd Floor, Pier Head, Liverpool, Merseyside, L3 1BY	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KIR003 EPR reference: - Operator: Mersey Waste Holdings Ltd Waste Management licence No: 54268 Annual Tonnage: 0	Issue Date: 21/08/1995 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
C	121m NE	Site Name: Kirkby H W R C Site Address: Kirkby H W R C, Depot Road, Knowsley Industrial Park, Knowsley, Merseyside, L33 3AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 635726 EPR reference: EA/EPR/EP3691LR Operator: Veolia Es Merseyside & Halton Limited Waste Management licence No: 54268 Annual Tonnage: 0	Issue Date: 21/08/1995 Effective Date: 21/08/1995 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
C	121m NE	Site Name: Kirkby Household Waste Recycling Centre Site Address: Kirkby H W R C, Depot Road, Knowsley Industrial Park, Knowsley, Merseyside, L33 3AR Correspondence Address: -	Type of Site: 75kte Non-hazardous & hazardous HWA Site Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 641265 EPR reference: EA/EPR/DB3833AU Operator: Veolia Es Merseyside & Halton Limited Waste Management licence No: 103676 Annual Tonnage: 74999	Issue Date: 15/12/2011 Effective Date: 15/12/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
G	180m SW	Site Name: Rentokil, Bradman Road Site Address: Knowsley Industrial Park North, Bradman Road, Knowsley, Merseyside, L33 7UR Correspondence Address: Rentokil Initial Corporate Head Office, Felcourt, East Grinstead, West Sussex, RH19 2JY	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REN001 EPR reference: - Operator: Rentokil Ltd Waste Management licence No: 54261 Annual Tonnage: 5000	Issue Date: 09/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
G	180m SW	Site Name: Rentokil, Bradman Road Site Address: Knowsley Industrial Park North, Bradman Road, Knowsley, Merseyside, L33 7UR Correspondence Address: Felcourt, East Grinstead, West Sussex, RH1 2JY	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REN001 EPR reference: - Operator: Rentokil Group Plc Waste Management licence No: 54261 Annual Tonnage: 0	Issue Date: 09/10/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
G	180m SW	Site Name: Rentokil Initial U K Ltd Site Address: Rentokil Initial U K Ltd, Bradman Road, Knowsley Ind Park, Liverpool, Merseyside, L33 7UR Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 639249 EPR reference: EA/EPR/TP3997CR Operator: Rentokil Initial 1927 Plc Waste Management licence No: 54261 Annual Tonnage: 0	Issue Date: 09/10/1992 Effective Date: 09/10/1992 Modified: - Surrendered Date: 09/10/1992 Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
J	257m SW	Site Name: Unit 1 Prestige Complex Site Address: Aschroft Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7TW Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TRI031 EPR reference: EA/EPR/BB3906SS/A001 Operator: Triton (North West) Limited Waste Management licence No: 401692 Annual Tonnage: 4999	Issue Date: 18/09/2014 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
J	257m SW	Site Name: Unit 1 Prestige Complex Site Address: Aschroft Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7TW Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 630485 EPR reference: EA/EPR/BB3906SS Operator: Triton (North West) Limited Waste Management licence No: 401692 Annual Tonnage: 4999	Issue Date: 18/09/2014 Effective Date: 18/09/2014 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
K	307m W	Site Name: Marl Road Site Address: Marl Roadw/woodward Road, Simonswood, Kirkby, Merseyside, L33 7UH Correspondence Address: Po Box 26, Archway Road, Huyton, Knowsley, Merseyside, L36 9FB	Type of Site: Landfill taking Non- Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KNO001 EPR reference: - Operator: Knowsley M B C Waste Management licence No: 54257 Annual Tonnage: 100000	Issue Date: 24/06/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
K	307m W	Site Name: Marl Road/wood Ward Road Inert Landfill Site Address: Land/premises At, Marl Roadw/woodward Road, Simonswood, Kirkby, Merseyside, L33 7UH Correspondence Address: -	Type of Site: Landfill taking Non- Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: KNO001 EPR reference: EA/EPR/KP3197CA/A001 Operator: Knowsley Metropolitan Borough Council Waste Management licence No: 54257 Annual Tonnage: 100000	Issue Date: 24/06/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure



ID	Location	Details		
K	307m W	Site Name: Marl Road/wood Ward Road Inert Landfill Site Address: Land/premises At, Marl Roadw/woodward Road, Simonswood, Kirkby, Merseyside, L33 7UH Correspondence Address: -	Type of Site: Landfill taking Non-Biodegradable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654275 EPR reference: EA/EPR/KP3197CA Operator: Knowsley Metropolitan Borough Council Waste Management licence No: 54257 Annual Tonnage: 100000	Issue Date: 24/06/1992 Effective Date: 24/06/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure
O	361m NE	Site Name: Whitemoss Horticulture Ltd Site Address: North Perimeter Road, Kirkby, Liverpool, Merseyside, L33 3AN Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 637810 EPR reference: EA/EPR/EP3397CV Operator: The Greener Gardening Company (Kirkby) Limited Waste Management licence No: 54324 Annual Tonnage: 10000	Issue Date: 31/01/2001 Effective Date: 31/01/2001 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
6	392m SW	Site Name: Unit 9 Lodge Works Site Address: Unit 9 Lodge Works, Birchill Road, Kirkby, L33 7TD Correspondence Address: -	Type of Site: 75kte HCI Waste TS Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: - EPR reference: EA/EPR/WE8737AB/A001 Operator: Lh Waste Removal And Grab Hire Ltd Waste Management licence No: 120748 Annual Tonnage: 0	Issue Date: 23/06/2023 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
O	395m NE	Site Name: Whitemoss Horticulture Ltd Site Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, L33 3AN Correspondence Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, L33 3AN	Type of Site: Composting Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WHI011 EPR reference: - Operator: Whyatt Paul Waste Management licence No: 54394 Annual Tonnage: 65500	Issue Date: 03/09/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
O	395m NE	Site Name: Simmonswood Moss Site Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, Merseyside, L33 3AP Correspondence Address: -	Type of Site: Composting Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WHI011 EPR reference: EA/EPR/CP3398SK/V002 Operator: Whitemoss Horticulture Ltd Waste Management licence No: 54394 Annual Tonnage: 279999	Issue Date: 03/09/2004 Effective Date: - Modified: 25/02/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
O	395m NE	Site Name: Whitemoss Horticulture Limited Site Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, L33 3AN Correspondence Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, L33 3AN	Type of Site: Composting Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WHI011 EPR reference: - Operator: Paul Whyatt Waste Management licence No: 54394 Annual Tonnage: 65500	Issue Date: 03/09/2004 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
O	395m NE	Site Name: Whitemoss Horticulture Ltd Site Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, Merseyside, L33 3AP Correspondence Address: Simmonswood Moss, North Perimeter Road, Kirkby, Liverpool, Merseyside, L33 3AN	Type of Site: Composting Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WHI011 EPR reference: EA/EPR/CP3398SK/V002 Operator: Whyatt Paul Waste Management licence No: 54394 Annual Tonnage: 65500	Issue Date: 03/09/2004 Effective Date: - Modified: 25/02/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
O	395m NE	Site Name: Simonswood Moss Site Address: Simonswood Moss, North Perimeter Road, Kirkby, Liverpool, Merseyside, L33 3AN Correspondence Address: -	Type of Site: Composting Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WHI011 EPR reference: EA/EPR/CP3398SK/V005 Operator: White Moss Horticulture Ltd Waste Management licence No: 54394 Annual Tonnage: 279999	Issue Date: 03/09/2004 Effective Date: - Modified: 14/06/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
9	432m S	Site Name: Acornfield Road Waste Management Centre EPR/VP3936UG Site Address: Acornfield Road Waste Management Centre, Acornfield Road, Knowsley Industrial Park, Merseyside, L33 7UF Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 649952 EPR reference: EA/EPR/VP3936UG Operator: Future Industrial Services Limited Waste Management licence No: 101607 Annual Tonnage: 24999	Issue Date: 26/10/2015 Effective Date: 26/10/2015 Modified: 05/06/2023 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
10	489m SW	Site Name: Avanti Treatment And Transfer Centre Site Address: Avanti Treatment And Transfer Centre, Charleywood Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7SG Correspondence Address: -	Type of Site: Special Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 630342 EPR reference: EA/EPR/NP3494EQ Operator: Avanti Environmental Group Limited Waste Management licence No: 54249 Annual Tonnage: 24150	Issue Date: 21/09/1990 Effective Date: 21/09/1990 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
11	498m NW	Site Name: Knowsley Rail Transfer Loading Station Site Address: Knowsley Rail T L S, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UZ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 656565 EPR reference: EA/EPR/ZP3892EE Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 102932 Annual Tonnage: 500000	Issue Date: 12/03/2012 Effective Date: 12/03/2012 Modified: 12/03/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m

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

Features are displayed on the Waste and landfill map on [page 30 >](#)



ID	Location	Site	Reference	Category	Sub-Category	Description
B	92m W	. Hammond Road Liverpool L33 7ul	EPR/TE5258A U/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
B	92m W	. Hammond Road Liverpool L33 7ul	EPR/TE5258A U/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
B	92m W	. Hammond Road Liverpool L33 7ul	EPR/TE5258A U/A001	Treating waste exemption	Non-agricultural waste only	Sorting mixed waste
B	92m W	. Hammond Road Liverpool L33 7ul	EPR/TE5258A U/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
3	106m NW	Kirkby Hwrc, Depot Road, Knowsley Industrial Park, Kirkby, L33 7uz	WEX175403	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	131m SE	Knowsley Depot Acornfield Road Liverpool L33 7rn	EPR/TF0537EK /A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
D	131m SE	Knowsley Depot Acornfield Road Liverpool L33 7rn	EPR/TF0537EK /A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
D	131m SE	Knowsley Depot Acornfield Road Liverpool L33 7rn	EPR/TF0537EK /A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
D	131m SE	Knowsley Depot Acornfield Road Liverpool L33 7rn	EPR/TF0537EK /A001	Treating waste exemption	Non-agricultural waste only	Sorting mixed waste
D	131m SE	Knowsley Depot Acornfield Road Liverpool L33 7rn	EPR/TF0537EK /A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal



ID	Location	Site	Reference	Category	Sub-Category	Description
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX086093	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX086093	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX086093	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX086093	Treating waste exemption	Not on a farm	Sorting mixed waste
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX086093	Treating waste exemption	Not on a farm	Recovery of scrap metal
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX088251	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX088251	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX088251	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX088251	Treating waste exemption	Not on a farm	Sorting mixed waste
D	132m SE	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7rn	WEX088251	Treating waste exemption	Not on a farm	Recovery of scrap metal
4	133m N	-	WEX370890	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
E	138m S	Unit 3, Bradman Road, Knowsley Industrial Park, Liverpool, L33 7ur	WEX087988	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	138m S	Unit 3, Bradman Road, Knowsley Industrial Park, Liverpool, L33 7ur	WEX087988	Treating waste exemption	Not on a farm	Recovery of scrap metal
E	138m S	Unit 3, Bradman Road, Knowsley Industrial Park, Liverpool, L33 7ur	WEX087988	Using waste exemption	Not on a farm	Use of depolluted end-of-life vehicles for vehicle parts
F	141m W	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX099972	Treating waste exemption	Not on a farm	Recovery of scrap metal
F	141m W	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX099972	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	141m W	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX099972	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	141m W	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX099972	Storing waste exemption	Not on a farm	Storage of waste in secure containers
F	157m W	. Hammond Road Liverpool L33 7ul	EPR/HF0734ZE /A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
G	160m SW	Unit 1, Bradman Road, Kirkby Industrial Estate, Knowsley, L33 7ur	WEX287646	Treating waste exemption	Not on a farm	Sorting mixed waste
G	165m SW	Unit 1 Bradman House Bradman Road Kirkby Merseyside L33 7ur	EPR/MF0807X Q/A001	Treating waste exemption	Non-agricultural waste only	Sorting mixed waste
G	165m SW	Unit 1 Bradman House, Bradman Road, Kirkby Industrial Estate, Merseyside, L33 7ur	WEX125264	Treating waste exemption	Not on a farm	Sorting mixed waste
H	192m S	Security House, Step Up Security Services Ltd, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7pa	WEX102906	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods



ID	Location	Site	Reference	Category	Sub-Category	Description
H	192m S	Security House, Step Up Security Services Ltd, Acornfield Road, Knowsley Industrial Park, Liverpool, L33 7pa	WEX244831	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
I	239m E	1 Perimeter Road Liverpool L33 3ay	EPR/WF0705L E/A001	Using waste exemption	Non-agricultural waste only	Burning of waste as a fuel in a small appliance
I	240m E	Cases For Industry, 1 Perimeter Road, Knowsley Industrial Park, Liverpool, L33 3ay	WEX116468	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
J	262m SW	Pride Point, Knowsley Business Park, Unit 1 Ashcroft Road, Kirkby, L33 7tw	EA/EPR/VP394 4CH/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
J	267m SW	Unit 1 2 Ashcroft Road L33 7tw	EPR/NH0811A A/A001	Treating waste exemption	Non-agricultural waste only	Mechanical treatment of end-of-life tyres
J	268m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337tw	WEX082476	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	268m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337tw	WEX082476	Treating waste exemption	Not on a farm	Sorting mixed waste
J	268m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337tw	WEX082476	Treating waste exemption	Not on a farm	Manual treatment of waste
J	268m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337tw	WEX082476	Treating waste exemption	Not on a farm	Recovery of scrap metal
5	284m NW	Kirkby Hwrc, Depot Road, Knowsley Industrial Park, Kirkby, L33 7uz	WEX308873	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
L	309m SW	Drawell House Hammond Road Liverpool Merseyside L33 7ul	EPR/CH0079X C/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
L	309m SW	Drawell House Hammond Road Liverpool Merseyside L33 7ul	EPR/CH0079X C/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
L	309m SW	Drawell House Hammond Road Liverpool Merseyside L33 7ul	EPR/CH0079X C/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
L	309m SW	Drawell House Hammond Road Liverpool Merseyside L33 7ul	EPR/CH0079X C/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
M	310m SE	-	WEX348935	Treating waste exemption	Not on a farm	Sorting mixed waste
M	310m SE	-	WEX348935	Storing waste exemption	Not on a farm	Storage of waste in a secure place
M	310m SE	-	WEX348935	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	327m SW	-	WEX314340	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	327m SW	-	WEX314340	Storing waste exemption	Not on a farm	Storage of waste in secure containers
L	327m SW	-	WEX314340	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	327m SW	-	WEX314340	Treating waste exemption	Not on a farm	Recovery of scrap metal
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX185888	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX185888	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX185888	Storing waste exemption	Not on a farm	Storage of waste in secure containers



ID	Location	Site	Reference	Category	Sub-Category	Description
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX185888	Treating waste exemption	Not on a farm	Recovery of scrap metal
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX021667	Treating waste exemption	Not on a farm	Recovery of scrap metal
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX021667	Storing waste exemption	Not on a farm	Storage of waste in secure containers
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX021667	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	327m SW	Hammond Road, Knowsley Industrial Park, Liverpool, L33 7ul	WEX021667	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
N	355m SW	-	WEX299537	Storing waste exemption	Not on a farm	Storage of waste in a secure place
N	355m SW	-	WEX299537	Disposing of waste exemption	Not on a farm	Burning waste in the open
N	355m SW	-	WEX299537	Treating waste exemption	Not on a farm	Recovery of scrap metal
N	355m SW	-	WEX299537	Treating waste exemption	Not on a farm	Sorting mixed waste
O	417m NE	White Moss Horticulture Ltd Simonswood Moss Merseyside L33 3an	EPR/WF0302L B/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
O	418m NE	White Moss Horticulture North Perimeter Road Liverpool L33 3ap	EPR/DF0707LP /A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
O	418m NE	White Moss Horticulture Ltd Simonswood Moss Merseyside L33 3an	EPR/KE5945XS /A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
8	427m E	-	WEX127197	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in secure containers
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Cleaning, washing, spraying or coating relevant waste
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Recovery of textiles
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Using waste exemption	Non-agricultural waste only	Use of waste in construction
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Using waste exemption	Non-agricultural waste only	Burning of waste as a fuel in a small appliance
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Sorting mixed waste
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Manual treatment of waste



ID	Location	Site	Reference	Category	Sub-Category	Description
P	434m S	Phoenix House Stockpit Road Liverpool Knowsley L33 7tq	EPR/SF0507E M/A001	Treating waste exemption	Non-agricultural waste only	Recovery of scrap metal
P	446m S	-	WEX367140	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
P	446m S	-	WEX367140	Using waste exemption	Not on a farm	Use of waste in construction
P	446m S	-	WEX367140	Using waste exemption	Not on a farm	Use of waste for a specified purpose
P	446m S	-	WEX367140	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Screening and blending of waste
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Recovery of scrap metal
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Sorting mixed waste
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Manual treatment of waste
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Crushing and emptying waste vehicle oil filters
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
P	446m S	-	WEX367140	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes



ID	Location	Site	Reference	Category	Sub-Category	Description
P	446m S	-	WEX367140	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	446m S	-	WEX367140	Storing waste exemption	Not on a farm	Storage of waste in a secure place
P	446m S	-	WEX367140	Storing waste exemption	Not on a farm	Storage of sludge
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Treating waste exemption	Not on a farm	Manual treatment of waste
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Treating waste exemption	Not on a farm	Sorting mixed waste
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Treating waste exemption	Not on a farm	Recovery of scrap metal
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	466m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX404547	Storing waste exemption	Not on a farm	Storage of waste in a secure place
Q	467m S	-	WEX276482	Using waste exemption	Not on a farm	Use of waste in construction
Q	467m S	-	WEX276482	Treating waste exemption	Not on a farm	Screening and blending of waste
P	478m S	Stockpit Road Knowsley Industrial Park Liverpool Merseyside L33 7tq	EPR/WF0105L L/A001	Using waste exemption	Non-agricultural waste only	Burning of waste as a fuel in a small appliance
P	478m S	Stockpit Road Knowsley Industrial Park Liverpool Merseyside L33 7tq	EPR/GF0037W L/A001	Disposing of waste exemption	Non-agricultural waste only	Burning waste in the open
P	479m S	-	WEX389486	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance

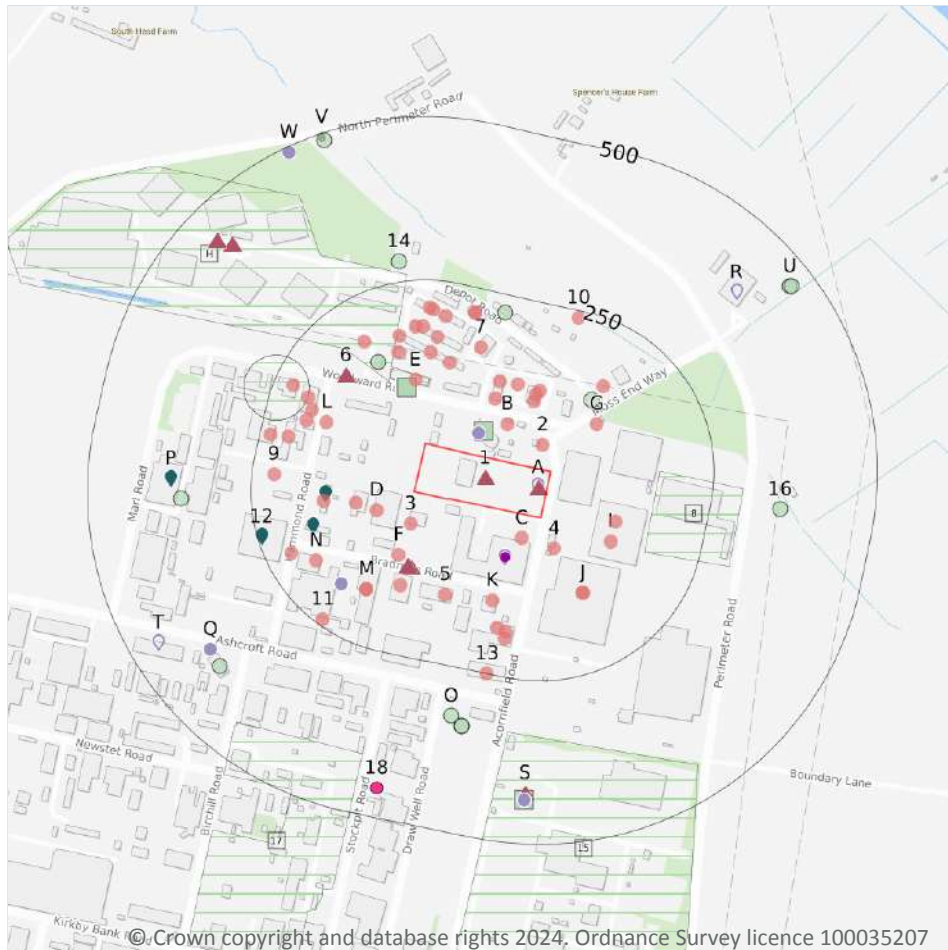


ID	Location	Site	Reference	Category	Sub-Category	Description
P	479m S	-	WEX295382	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	479m S	-	WEX295382	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
P	479m S	-	WEX295382	Storing waste exemption	Not on a farm	Storage of waste in a secure place
P	479m S	Factory	WEX261080	Using waste exemption	Not on a farm	Burning of waste as a fuel in a small appliance
R	483m NE	-	WEX369568	Storing waste exemption	On a farm	Storage of sludge
P	483m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX288560	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	483m S	Stockpit Road, Knowsley Industrial Park, Liverpool, L33 7tq	WEX149316	Storing waste exemption	Not on a farm	Storage of waste in secure containers
R	496m NE	-	WEX366402	Storing waste exemption	On a farm	Storage of sludge

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ◊ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

57

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Company	Address	Activity	Category
C	36m SE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
2	38m NE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	49m SW	Sovereign Transport Services	Krol Corlett Properties Ltd, Bradman Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UR	Distribution and Haulage	Transport, Storage and Delivery
4	52m SE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	58m NE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
D	64m W	Tank	Merseyside, L33	Tanks (Generic)	Industrial Features
D	91m W	M P E	M P E (Liverpool) Ltd, Hammond Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UL	Air and Water Filtration	Industrial Products
B	92m N	Proweld Welding Services	Proweld Ltd 72, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Tools Including Machine Shops	Industrial Products
E	99m NW	K Rend Ltd	Edward House North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Construction Completion Services	Construction Services
F	99m SW	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	100m NE	Lakeside Upholstery	76, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Furniture	Consumer Products
G	102m NE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	110m NE	C J Finishing	Unit 77 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Printing Related Machinery	Industrial Products
I	113m SE	Applied Nutrition Ltd	Hermes Parcenet Limited 1, Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UG	Catering and Non Specific Food Products	Foodstuffs
I	113m E	P D S Logistics Ltd	Pds International Ltd 3, Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UG	Container and Storage	Transport, Storage and Delivery
B	118m NE	Alphatec 2000 Ltd	78, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Printing Related Machinery	Industrial Products
B	119m N	UK Waste & Recycling Ltd	Uk Waste 70, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Waste Collection, Processing and Disposal Equipment	Industrial Products



ID	Location	Company	Address	Activity	Category
B	120m N	North Mersey Business Centre	Merseyside, L33	Business Parks and Industrial Estates	Industrial Features
E	129m N	Print Media Ltd	36, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Published Goods	Industrial Products
J	132m SE	Tradeteam Ltd	Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7YX	Distribution and Haulage	Transport, Storage and Delivery
J	132m SE	I B L Cold Stores	Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7YX	Container and Storage	Transport, Storage and Delivery
K	138m S	Altway Cars Ltd	Knowsley Cases and Pallets, Bradman Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UR	Vehicle Parts and Accessories	Motoring
D	140m W	Boundry Plant Ltd	Boundary Plant (Hire and Sales) Store and Office, Hammond Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UL	Construction and Tool Hire	Hire Services
E	140m N	Bluesat Solutions Ltd	North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Radar and Telecommunications Equipment	Industrial Products
F	144m SW	Kirkby Jig & Tool Co Ltd	Bradman Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UR	Precision Engineers	Engineering Services
5	144m S	Lomond Plant	Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Construction and Tool Hire	Hire Services
E	146m NW	North West Air Ambulance Charity	Stanley Building, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Ambulance and Medical Transportation Services	Health Support Services
G	154m NE	Pylon	Merseyside, L33	Electrical Features	Infrastructure and Facilities
L	155m W	Mast (Telecommunication)	Merseyside, L33	Telecommunications Features	Infrastructure and Facilities
7	163m N	Ecolec Solar Ltd	Ecolec Solar Ltd 3, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
E	164m N	M & B Bargains	M and B Bargains 53, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Container and Storage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
M	166m SW	Universal Bags & Packaging	Bradman House 6, Bradman Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UR	Packaging	Industrial Products
M	166m SW	J S A Precision Engineering	Unit 3 Bradman House, 6 Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Precision Engineers	Engineering Services
E	169m NW	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
K	178m S	T C Motorfix	Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	178m N	Anti-pest Environmental Services	Sustainable Building Solutions 62, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Pest and Vermin Control	Contract Services
E	179m NW	K Daly Flooring Ltd	Ksscc 57, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Construction Completion Services	Construction Services
L	181m NW	S I P Building Systems Ltd	D B Polymer UK Ltd 1-1a, Hammond Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UZ	General Construction Supplies	Industrial Products
K	181m S	Puresil Technologies Ltd	Security House, Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7PA	General Construction Supplies	Industrial Products
E	182m NW	Pylon	Merseyside, L33	Electrical Features	Infrastructure and Facilities
N	183m SW	Total Scaffolding Ltd	Unit 1 Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Construction and Tool Hire	Hire Services
L	185m W	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
K	192m S	Step Up Security Ltd	Step Up Security Services Security House, Acornfield Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7PA	Electronic Equipment	Industrial Products
L	192m NW	Artist in Lead	Unit 3, Hammond Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UZ	Glass	Industrial Products
E	198m N	Underwater Vision	West Lancs Plastering 88, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Industrial Engineers	Engineering Services
E	206m N	Klenz Ltd	91, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Clothing, Components and Accessories	Consumer Products



ID	Location	Company	Address	Activity	Category
L	207m W	Factory	Merseyside, L33	Unspecified Works Or Factories	Industrial Features
E	208m N	Marton Electronics Ltd	Marton Electronics 92, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
N	210m W	Movin Logistics Ltd	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, Merseyside, L33	Construction and Tool Hire	Hire Services
E	211m N	Integra Security Systems Ltd	19, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
E	212m N	Shield N W	Shield Nw 15, North Mersey Business Park, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UY	General Construction Supplies	Industrial Products
9	217m W	Industrial Park	Merseyside, L33	Business Parks and Industrial Estates	Industrial Features
L	221m NW	K M C Packaging & Business Products Ltd	Kmc Packaging 16a, Woodward Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UZ	Packaging	Industrial Products
L	234m W	Blok N Mesh UK Ltd	Hammond Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7UL	Fences, Gates and Railings	Industrial Products
10	239m NE	Tank	Merseyside, L33	Tanks (Generic)	Industrial Features
11	240m SW	Tank	Merseyside, L33	Tanks (Generic)	Industrial Features
13	250m S	C & C Interiors Ltd	2, Ashcroft Road, Knowsley Industrial Park, Kirkby, Merseyside, L33 7TH	General Construction Supplies	Industrial Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	7
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on [page 49 >](#)

ID	Location	Company	Address	Operational status	Tier
E	88m NW	Syntor Fine Chemicals Limited	Syntor Fine Chemicals Limited, Knowsley, Knowsley Industrial Estate, Woodward Road, Kirkby, Merseyside, L33 7UG	Historical COMAH Site	COMAH Lower Tier Operator
H	110m NW	Potter Logistics Ltd	Potter Logistics Ltd, Knowsley Rail Freight Terminal, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UZ	Historical NIHHS Site	-
8	164m E	P K Marine Freight Services Ltd	P K Marine Freight Services Ltd, Perimeter Road, Knowsley Industrial Park, Liverpool, L33 3AY	Historical NIHHS Site	-
L	193m NW	Archimcyra	Archimcyra, Woodward Road, Kirkby, L33 7UZ	Historical NIHHS Site	-



ID	Location	Company	Address	Operational status	Tier
L	193m NW	Freeman Chemicals Ltd	Freeman Chemicals Ltd, Faraday Road, Knowsley, L33 7UZ	Historical NIHHS Site	-
15	332m S	Kodak Ltd	Kodak Ltd, Acornfield Road, Kirkby, L33 7UF	Historical NIHHS Site	-
17	408m SW	Baker Hughes Limited	Baker Hughes Limited, Liverpool, Knowsley Industrial Park, Kirkby Bank Road, Liverpool, Merseyside, L33 7SY	Current COMAH Site	COMAH Lower Tier Operator

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

9

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

Features are displayed on the Current industrial land use map on [page 49 >](#)

ID	Location	Details	
1	On site	Application reference number: 14/00544/HAZ Application status: Pending Application date: 30/07/2014 Address: Syntor Fine Chemicals, Acornfield Road, Knowsley Industrial Park, Kirkby, Knowsley, L33 7UG	Details: Hazardous Substances consent for storage of substances falling within the following categories; very toxic, toxic, flammable, highly flammable, dangerous to environment and reacts violently with water Enforcement: No Details Date of enforcement: No Details Comment: No Details
A	On site	Application reference number: 09/00546/HAZ Application status: Approved Application date: 15/12/2009 Address: Syntor Fine Chemicals Ltd, Knowsley Industrial Park, Acornfield Road/Woodward Road, Kirkby, Liverpool, Merseyside, England, L33 7UG	Details: Storage of very toxic, toxic, flammable, highly flammable, dangerous to the environment and reacts violently with water. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Details	
F	112m SW	Application reference number: 02/00761/HAZ Application status: Historical Consent Application date: 02/10/2002 Address: Bradman Manufacturing Ltd, Bradman Road, Knowsley Industrial Park, Kirkby, Knowsley, L33 7UR	Details: Application For Part A Substances (arsenic trioxide and arsenic (v) acid) Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	115m SW	Application reference number: 02/00043/HAZ Application status: Historical Consent Application date: No Details Address: Bradman Manufacturing Ltd, Bradman House, 6 Bradman Road, Knowsley Industrial Park, Kirkby, Knowsley, L33 7UR	Details: Application For Hazardous Substances Consent For Part A Substances (arsenic Trioxide) Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
6	160m NW	Application reference number: 99/00672/HSC Application status: Historical Consent Application date: 04/10/1999 Address: Archimica Ltd., Woodward Road, Knowsley Industrial Park, Kirkby, Knowsley, L33 7UZ	Details: Claim For Deemed Consent For The Storage Of Various Hazardous Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
S	422m S	Application reference number: 99/00703/HSC Application status: Approved Application date: 20/10/1999 Address: Kodak Ltd, Knowsley Industrial Park North, Acornfield Road, Kirkby, Knowsley, Merseyside, England, L33 7UF	Details: Claim For Deemed Consent For The Storage Of Various Hazardous Substances Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	424m NW	Application reference number: 00/00616/HAZ Application status: Approved Application date: 18/10/2000 Address: Henry Diaper & Co Ltd, Lees Road, Liverpool, Merseyside, England, L33 7SE	Details: Application For Hazardous Substances Consent For Storage Of Category 2 (toxics), Category 3 (oxydising) And Category 6 (flammable) Substances Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	445m NW	Application reference number: 07/00065/HAZ Application status: Historical Consent Application date: 25/01/2007 Address: The Potter Group, Knowsley Rail Freight Terminal, Land Bounded By North Perimeter Road And Woodward Road, Knowsley Industrial Park, Kirkby, Knowsley, L33 7UZ	Details: Application to increase storage levels of various substances ranging from 'very toxic' to 'any classification' approved under existing consent 06/00470/HAZ Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	445m NW	Application reference number: 06/00470/HAZ Application status: Approved Application date: 13/06/2006 Address: The Potter Group, Knowsley Rail Freight Terminal, Woodward Road, Knowsley Industrial Estate, Kirkby, Merseyside, England, L33 7UZ	Details: Storage of various substances ranging from 'very toxic' to 'any classification'. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

54

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

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Details	
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BC3145	Original Permit Number: IPCMINVAR Date Approved: - Effective Date: - Status: Refused
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AH1471	Original Permit Number: IPCAPP Date Approved: 21-4-1993 Effective Date: 21-4-1993 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AK9216	Original Permit Number: IPCMINVAR Date Approved: 9-12-1993 Effective Date: 9-12-1993 Status: Superseded By Variation
B	33m N	Operator: Archimica Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Processes Involving Halogens Permit Number: AL8231	Original Permit Number: IPCAIRAPP Date Approved: 15-9-1994 Effective Date: 22-9-1994 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AN1106	Original Permit Number: IPCAPP Date Approved: 11-7-1994 Effective Date: 18-7-1994 Status: Superseded By Variation
B	33m N	Operator: Archimica Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Processes Involving Halogens Permit Number: AO5328	Original Permit Number: IPCAIRAPP Date Approved: 2-11-1994 Effective Date: 9-11-1994 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AQ2125	Original Permit Number: IPCMINVAR Date Approved: 21-2-1995 Effective Date: 23-2-1995 Status: Superseded By Variation



ID	Location	Details	
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AQ8131	Original Permit Number: IPCMINVAR Date Approved: 18-4-1995 Effective Date: 25-4-1995 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AR0713	Original Permit Number: IPCMINVAR Date Approved: 4-5-1995 Effective Date: 10-5-1995 Status: Superseded By Variation
B	33m N	Operator: Archimica Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Processes Involving Halogens Permit Number: AS2220	Original Permit Number: IPCMINVAR Date Approved: 1-8-1995 Effective Date: 7-8-1995 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AT5500	Original Permit Number: IPCMINVAR Date Approved: 21-9-1995 Effective Date: 25-9-1995 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AX6346	Original Permit Number: IPCMINVAR Date Approved: 13-1-1997 Effective Date: 20-1-1997 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: AY3016	Original Permit Number: IPCMINVAR Date Approved: 30-4-1997 Effective Date: 7-5-1997 Status: Superseded By Variation
B	33m N	Operator: Archimica Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Processes Involving Halogens Permit Number: BC7779	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
B	33m N	Operator: Archimica Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Processes Involving Halogens Permit Number: BD1822	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BD2985	Original Permit Number: IPCMINVAR Date Approved: 25-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation



ID	Location	Details	
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BD9068	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BE7001	Original Permit Number: IPCMINVAR Date Approved: 20-11-1998 Effective Date: 20-11-1998 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BE7931	Original Permit Number: IPCMAJVAR Date Approved: 17-2-1999 Effective Date: 19-2-1999 Status: Superseded By Variation
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BS7226	Original Permit Number: IPCMINVAR Date Approved: 31-3-2003 Effective Date: 1-4-2003 Status: Revoked - Now Ippc
B	33m N	Operator: Organic Intermediates Ltd Address: Woodward Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UZ Process: Manufacture And Use Of Organic Chemicals Permit Number: BS7269	Original Permit Number: IPCMINVAR Date Approved: 31-3-2003 Effective Date: 1-4-2003 Status: Revoked - Now Ippc
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: AQ2664	Original Permit Number: IPCAPP Date Approved: 6-6-1995 Effective Date: 13-6-1995 Status: Superseded By Variation
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: AV6043	Original Permit Number: IPCMINVAR Date Approved: 20-5-1996 Effective Date: 21-5-1996 Status: Superseded By Variation
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: BA1559	Original Permit Number: IPCMINVAR Date Approved: 28-11-1997 Effective Date: 5-12-1997 Status: Superseded By Variation
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: BE2107	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation



ID	Location	Details	
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: BL3749	Original Permit Number: IPCMINVAR Date Approved: 6-9-2001 Effective Date: 10-9-2001 Status: Superseded By Variation
M	180m SW	Operator: Bradman Road Manufacturing Ltd Address: Bradman Road, Knowsley Industrial Park, Liverpool, L33 7UR Process: Inorganic Chemical Processes Permit Number: BU1741	Original Permit Number: IPCMAJVAR Date Approved: 1-9-2003 Effective Date: 5-9-2003 Status: Revoked
Q	394m SW	Operator: Kidde Products Ltd Address: Ashcroft Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7TS Process: Inorganic Chemical Processes Permit Number: AI3755	Original Permit Number: IPCAPP Date Approved: 26-7-1993 Effective Date: 26-7-1993 Status: Superseded By Variation
Q	394m SW	Operator: Kidde Products Ltd Address: Ashcroft Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7TS Process: Inorganic Chemical Processes Permit Number: AO0229	Original Permit Number: IPCAIRAPP Date Approved: 1-11-1994 Effective Date: 8-11-1994 Status: Superseded By Variation
Q	394m SW	Operator: Kidde Products Ltd Address: Ashcroft Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7TS Process: Inorganic Chemical Processes Permit Number: AR5235	Original Permit Number: IPCMINVAR Date Approved: 6-6-1995 Effective Date: 13-6-1995 Status: Superseded By Variation
Q	394m SW	Operator: Kidde Products Ltd Address: Ashcroft Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7TS Process: Inorganic Chemical Processes Permit Number: BC9321	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
Q	394m SW	Operator: Kidde Products Ltd Address: Ashcroft Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7TS Process: Inorganic Chemical Processes Permit Number: BD1547	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Recovery Processes Permit Number: AG7750	Original Permit Number: IPCAPP Date Approved: 30-3-1993 Effective Date: 30-3-1993 Status: Revoked

ID	Location	Details	
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Combustion Processes Permit Number: AI2023	Original Permit Number: IPCAPP Date Approved: 23-7-1993 Effective Date: 23-7-1993 Status: Revoked
S	432m S	Operator: Kodak Ltd Address: Chemical Manufacturing, Acornfield Road, Liverpool, L33 7UF Process: Acid Processes Permit Number: AL6751	Original Permit Number: IPCAIRAPP Date Approved: 3-5-1994 Effective Date: 16-5-1994 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AL6760	Original Permit Number: IPCAIRAPP Date Approved: 29-6-1994 Effective Date: 30-6-1994 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Chemical Manufacturing, Acornfield Road, Liverpool, L33 7UF Process: Acid Processes Permit Number: AL6778	Original Permit Number: IPCAIRAPP Date Approved: 14-7-1994 Effective Date: 21-7-1994 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AP8608	Original Permit Number: IPCMAJVAR Date Approved: 17-3-1995 Effective Date: 20-3-1995 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AS2688	Original Permit Number: IPCMINVAR Date Approved: 13-7-1995 Effective Date: 14-7-1995 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AT9696	Original Permit Number: IPCMINVAR Date Approved: 23-11-1995 Effective Date: 27-11-1995 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Chemical Manufacturing, Acornfield Road, Liverpool, L33 7UF Process: Acid Processes Permit Number: AU1291	Original Permit Number: IPCMINVAR Date Approved: 29-11-1995 Effective Date: 4-12-1995 Status: Revoked



ID	Location	Details	
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AV6060	Original Permit Number: IPCMINVAR Date Approved: 20-5-1996 Effective Date: 21-5-1996 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AX3860	Original Permit Number: IPCMINVAR Date Approved: 3-12-1996 Effective Date: 9-12-1996 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: AZ1060	Original Permit Number: IPCMAJVAR Date Approved: 16-10-1997 Effective Date: 17-10-1997 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Chemical Manufacturing, Acornfield Road, Liverpool, L33 7UF Process: Acid Processes Permit Number: BC7426	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: BE0163	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: BF9298	Original Permit Number: IPCMAJVAR Date Approved: 1-2-2000 Effective Date: 2-2-2000 Status: Superseded By Variation
S	432m S	Operator: Kodak Ltd Address: Kirby Technical Centre, Acornfield Road, Knowsley Industrial Park North, Liverpool, Merseyside, L33 7UF Process: Acid Processes Permit Number: BI9766	Original Permit Number: IPCMINVAR Date Approved: 15-8-2000 Effective Date: 15-8-2000 Status: Revoked - Now Ippc
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: AK5946	Original Permit Number: IPCAPP Date Approved: 3-2-1994 Effective Date: 7-2-1994 Status: Superseded By Variation



ID	Location	Details	
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: AS6870	Original Permit Number: IPCAIRAPP Date Approved: 23-11-1995 Effective Date: 28-11-1995 Status: Superseded By Variation
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: AV0541	Original Permit Number: IPCMINVAR Date Approved: 6-3-1996 Effective Date: 13-3-1996 Status: Superseded By Variation
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: BB3760	Original Permit Number: IPCMINVAR Date Approved: 8-6-1998 Effective Date: 8-6-1998 Status: Superseded By Variation
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: BD5321	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc
W	492m NW	Operator: Baker Petrolite Ltd Address: Kirkby Bank Road, Knowsley Industrial Park (north), Liverpool, Merseyside, L33 7SY Process: Manufacture And Use Of Organic Chemicals Permit Number: BE4886	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	106
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Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Details	
A	On site	Operator: SYNTOR FINE CHEMICALS LIMITED Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: EPR/BU4376IS Issue Date: 14/07/2011 Effective Date: 14/07/2011 Last date noted as effective: 06/08/2024 Status: Surrendered



ID	Location	Details	
A	On site	Operator: SYNTOR FINE CHEMICALS LIMITED Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: EPR/BU4376IS Issue Date: 14/07/2011 Effective Date: 14/07/2011 Last date noted as effective: 06/08/2024 Status: Surrendered
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: CP3633TQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 22/03/2010 Effective Date: 22/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: CP3633TQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 22/03/2010 Effective Date: 22/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: CP3633TQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 22/03/2010 Effective Date: 22/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: CP3633TQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 22/03/2010 Effective Date: 22/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: CP3633TQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 22/03/2010 Effective Date: 22/03/2010 Last date noted as effective: 21/03/2023 Status: Superseded
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective



ID	Location	Details	
A	On site	Operator: Syntor Fine Chemicals Ltd Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective
B	33m N	Operator: SYNTOR FINE CHEMICALS LIMITED Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: EPR/BU4376IS Issue Date: 14/07/2011 Effective Date: 14/07/2011 Last date noted as effective: 06/08/2024 Status: Surrendered
B	33m N	Operator: SYNTOR FINE CHEMICALS LIMITED Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: EPR/BU4376IS Issue Date: 14/07/2011 Effective Date: 14/07/2011 Last date noted as effective: 06/08/2024 Status: Surrendered
B	33m N	Operator: SYNTOR FINE CHEMICALS LIMITED Installation Name: Kirkby Intermediates Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: EPR/BU4376IS Issue Date: 14/07/2011 Effective Date: 14/07/2011 Last date noted as effective: 06/08/2024 Status: Surrendered
B	33m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: - Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: BU4376 Original Permit Number: BU4376	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
B	33m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: - Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: BU4376 Original Permit Number: BU4376	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
B	33m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: - Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: BU4376 Original Permit Number: BU4376	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
B	33m N	Operator: SYNTOR FINE CHEMICALS LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: UP3634MC Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/10/2007 Status: DETERMINATION
B	33m N	Operator: SYNTOR FINE CHEMICALS LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: UP3634MC Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/10/2007 Status: DETERMINATION
B	33m N	Operator: SYNTOR FINE CHEMICALS LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: UP3634MC Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/10/2007 Status: DETERMINATION
B	33m N	Operator: SYNTOR FINE CHEMICALS LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: UP3634MC Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/10/2007 Status: DETERMINATION
B	33m N	Operator: SYNTOR FINE CHEMICALS LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: UP3634MC Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/10/2007 Status: DETERMINATION
B	33m N	Operator: Syntor Fine Chemicals Ltd Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: JP3933BA Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 24/06/2005 Effective Date: 24/06/2005 Last date noted as effective: 21/03/2023 Status: Superseded
B	33m N	Operator: Syntor Fine Chemicals Ltd Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; DYES AND PIGMENTS Permit Number: JP3933BA Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 24/06/2005 Effective Date: 24/06/2005 Last date noted as effective: 21/03/2023 Status: Superseded
B	33m N	Operator: Syntor Fine Chemicals Ltd Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: JP3933BA Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 24/06/2005 Effective Date: 24/06/2005 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
B	33m N	Operator: Syntor Fine Chemicals Ltd Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: JP3933BA Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 24/06/2005 Effective Date: 24/06/2005 Last date noted as effective: 21/03/2023 Status: Superseded
B	33m N	Operator: Syntor Fine Chemicals Ltd Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: JP3933BA Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 24/06/2005 Effective Date: 24/06/2005 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 13/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 23/11/2023 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: ASSOCIATED PROCESS Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 13/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 23/11/2023 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 13/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 23/11/2023 Status: Effective
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: DP3040QM Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 04/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: DP3040QM Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 04/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 21/03/2023 Status: Effective
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: ASSOCIATED PROCESS Permit Number: DP3040QM Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 04/10/2022 Effective Date: 13/10/2022 Last date noted as effective: 21/03/2023 Status: Effective
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: ASSOCIATED PROCESS Permit Number: NP3537RN Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/06/2016 Effective Date: 09/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: NP3537RN Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/06/2016 Effective Date: 09/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: Knowsley Treatment and Transfer Station - EPR/KP3436NL Process: ASSOCIATED PROCESS Permit Number: NP3439DS Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/08/2016 Effective Date: 09/08/2016 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: Knowsley Treatment and Transfer Station - EPR/KP3436NL Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: NP3439DS Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/08/2016 Effective Date: 09/08/2016 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: ASSOCIATED PROCESS Permit Number: TP3537QR Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 21/05/2019 Effective Date: 21/05/2019 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: Knowsley Treatment and Transfer Station - EPR/KP3436NL Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: NP3439DS Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/08/2016 Effective Date: 09/08/2016 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: NP3537RN Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 09/06/2016 Effective Date: 09/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: TP3537QR Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 21/05/2019 Effective Date: 21/05/2019 Last date noted as effective: 21/03/2023 Status: Superseded
C	71m S	Operator: SRCL Limited Installation Name: SRCL Knowsley Treatment and Transfer Station Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: TP3537QR Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 21/05/2019 Effective Date: 21/05/2019 Last date noted as effective: 21/03/2023 Status: Superseded

ID	Location	Details	
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S5.2 PENDING ACTIVITIES LISTED IN S5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective



ID	Location	Details	
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DIRECTLY ASSOCIATED ACTIVITY (INCLUDED) Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
C	71m S	Operator: SRCL LIMITED Installation Name: SRCL Knowsley Treatment and Transfer Station Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: EPR/KP3436NL Issue Date: 20/12/2023 Effective Date: 13/10/2022 Last date noted as effective: 06/08/2024 Status: Effective
R	395m NE	Operator: The Greener Gardening Company (Kirkby) Limited Installation Name: Simonswood Moss EPR/CP3398SK Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: ZP3202BE Original Permit Number: FP3735AZ	EPR Reference: - Issue Date: 10/02/2020 Effective Date: 10/02/2020 Last date noted as effective: 21/03/2023 Status: Effective
R	395m NE	Operator: White Moss Horticulture Limited Installation Name: Simonswood Moss EPR/CP3398SK Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: FP3735AZ Original Permit Number: FP3735AZ	EPR Reference: - Issue Date: 13/06/2016 Effective Date: 13/06/2016 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: ASSOCIATED PROCESS Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective



ID	Location	Details	
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective



ID	Location	Details	
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING OIL RE-REFINING OR OTHER REUSES OF OIL Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: EPR/VP3936UG Issue Date: 05/06/2023 Effective Date: 26/10/2015 Last date noted as effective: 06/08/2024 Status: Effective
S	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: ACORNFIELD ROAD WASTE MANAGEMENT CENTRE Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 01/07/2016 Status: EFFECTIVE



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: ASSOCIATED PROCESS Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 19/09/2008 Effective Date: 19/09/2008 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: ASSOCIATED PROCESS Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: BP3038EU Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 07/02/2014 Effective Date: 07/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: ASSOCIATED PROCESS Permit Number: UP3830KX Original Permit Number: VP3936UG	EPR Reference: EA/EPR/VP3936UG/V002 Issue Date: 14/04/2010 Effective Date: 14/04/2010 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: UP3830KX Original Permit Number: VP3936UG	EPR Reference: EA/EPR/VP3936UG/V002 Issue Date: 14/04/2010 Effective Date: 14/04/2010 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: ASSOCIATED PROCESS Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 19/09/2008 Effective Date: 19/09/2008 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BLENDING OR MIXING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: BP3531WR Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 23/03/2015 Effective Date: 23/03/2015 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Future Industrial Services Limited, Acornfield Road Waste Management Centre Process: OTHER WASTE DISPOSAL; HAZARDOUS WASTE >10T/D Permit Number: UP3830KX Original Permit Number: VP3936UG	EPR Reference: EA/EPR/VP3936UG/V002 Issue Date: 14/04/2010 Effective Date: 14/04/2010 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre EPR/VP3936UG Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING OIL RE-REFINING OR OTHER REUSES OF OIL Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING RECYCLING OR RECLAMATION OF INORGANIC MATERIALS OTHER THAN METALS OR METAL COMPOUNDS Permit Number: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 21/03/2023 Status: Effective
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: DISPOSAL OR RECOVERY OF HAZ WASTE WITH CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING REPACKAGING PRIOR TO SUBMISSION TO ANY OF THE OTHER ACTIVITIES LISTED IN THIS SECTION OR IN SECTION 5.1 Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: TEMPORARY STORAGE OF HAZ WASTE NOT UNDER S 5.2 PENDING ACTIVITIES LISTED IN S 5.1, 5.2, 5.3 AND PARAGRAPH (B) OF THIS SECTION WITH A TOTAL CAPACITY > 50 TONNES, EXCL TEMP STORAGE WHERE GENERATED Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
S	432m S	Operator: Future Industrial Services Limited Installation Name: Acornfield Road Waste Management Centre Process: ASSOCIATED PROCESS Permit Number: XP3333WW Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 12/09/2014 Effective Date: 12/09/2014 Last date noted as effective: 21/03/2023 Status: Superseded
T	455m SW	Operator: KIDDE PRODUCTS LIMITED Installation Name: Kirkby Firefighting Allophanate Plant Process: CARBON DISULPHIDE OR AMMONIA; AMMONIA RELEASE TO AIR (ANY CHEMICAL MANUFACTURE NOT REFRIDGERANT USE) Permit Number: BU5518IU Original Permit Number: BU5518IU	EPR Reference: EPR/BU5518IU Issue Date: 14/02/2014 Effective Date: 14/02/2014 Last date noted as effective: 06/08/2024 Status: Surrendered



ID	Location	Details	
T	455m SW	Operator: Kidde Products Ltd Installation Name: Kirkby Firefighting Allophanate Plant Process: CARBON DISULPHIDE OR AMMONIA; AMMONIA RELEASE TO AIR (ANY CHEMICAL MANUFACTURE NOT REFRIDGERANT USE) Permit Number: KP3839EK Original Permit Number: BU5518IU	EPR Reference: - Issue Date: - Effective Date: 14/02/2014 Last date noted as effective: 21/03/2023 Status: Surrender Effective

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

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

Records within 500m	4
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 49 >](#)

ID	Location	Address	Details	
D	136m W	North West Fencing Products, Bradman Road, Knowsley Industrial Estate, Kirkby, L33 7UR	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	164m W	Boundary Plant, Bradman Road, Knowsley Industrial Park, Kirkby, L33 7YB	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	244m W	Boundary Plant Ltd, Hammond Rd, Liverpool, L33 7UL	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
P	374m W	DAMS International, Marl Road, Knowsley Industrial Park, Kirkby, L33 7UH	Process: Combustion & Incineration Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m

1

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

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Address	Details	
18	455m S	Stockpit Road, Knowsley Industrial Park, Knowsley, L33 7TQ	Operator: Mulberry Waste Limited Type: - Permission number: MB3691DE Date of approval: -	Effective from: 16/05/2019 Last date of update: 01/01/2020 Status: Issued

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

4.13 Licensed Discharges to controlled waters

Records within 500m

2

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

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Address	Details	
V	494m NW	KNOWSLEY RAIL TRANSFER LOADING STN, WOODWARD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, MERSEYSIDE, L33 7UZ	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRCB3995VZ Permit Version: 1 Receiving Water: 2 OUTLETS 2 WATERCOURSES	Status: REVOKED UNDER EPR 2010 Issue date: 14/09/2015 Effective Date: 14/09/2015 Revocation Date: 13/06/2016
V	494m NW	KNOWSLEY RAIL TRANSFER LOADING STN, WOODWARD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, MERSEYSIDE, L33 7UZ	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: EPRCB3995VZ Permit Version: 1 Receiving Water: 2 OUTLETS 2 WATERCOURSES	Status: REVOKED UNDER EPR 2010 Issue date: 14/09/2015 Effective Date: 14/09/2015 Revocation Date: 13/06/2016

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



4.14 Pollutant release to surface waters (Red List)

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

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

4.15 Pollutant release to public sewer

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

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

4.16 List 1 Dangerous Substances

Records within 500m	3
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Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 49 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	39m N	Syntor Fine Chemicals, Knowsley Industrial L33 7uz	Active	Stw Partcons	Hexachlorocyclohexane, para-para-DDT, Pentachlorophenol, Aldrin, Dieldrin, Endrin, Isodrin, Hexachlorobenzene, Hexachlorobutadiene, Total DDT
B	39m N	Syntor Fine Chemicals, Knowsley Industrial L33 7uz	Active	Stw Partcons	Mercury (other), Cadmium, Carbon tetrachloride, Chloroform, 1,2-dichloroethane, Trichloroethylene, Perchlorethylene, Trichlorobenzene
S	432m S	Future Industrial Services Ltd, Knowsley Ind. Park, L33 7uf	Active	Any	Mercury (other), Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	39m N	Syntor Fine Chemicals, Knowsley Industrial L33 7uz	Active	-	Toluene, Xylene
E	90m NW	Nipa Laboratories Ltd, Woodyard Road	Not Active	River Alt	Toluene
E	90m NW	Archimica Ltd, Knowsley Industrial Park	Not Active	-	Toluene
E	90m NW	Organic Intermediates, Knowsley Industrial	Not Active	-	Toluene, Xylene
S	432m S	Future Industrial Services Ltd, Acornfield Rd, L33 7uf	Active	None	Chromium, Copper, Lead, Nickel, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

13

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

Features are displayed on the Current industrial land use map on [page 49](#) >

ID	Location	Details	
G	126m NE	Incident Date: 17/07/2002 Incident Identification: 92300 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
E	144m NW	Incident Date: 08/11/2002 Incident Identification: 119566 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 2 (Significant)



ID	Location	Details	
E	222m N	Incident Date: 07/08/2001 Incident Identification: 22482 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	281m N	Incident Date: 08/03/2002 Incident Identification: 62620 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other Animal Matter	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	325m S	Incident Date: 14/09/2001 Incident Identification: 30823 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	337m S	Incident Date: 14/09/2001 Incident Identification: 30831 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
O	337m S	Incident Date: 14/09/2001 Incident Identification: 30838 Pollutant: Oils and Fuel Pollutant Description: Mixed/Waste Oils	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
16	356m E	Incident Date: 10/08/2001 Incident Identification: 23335 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
P	357m W	Incident Date: 07/08/2003 Incident Identification: 179912 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	400m SW	Incident Date: 18/08/2003 Incident Identification: 182970 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
U	463m NE	Incident Date: 15/07/2002 Incident Identification: 118611 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
U	464m NE	Incident Date: 23/10/2002 Incident Identification: 118612 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
V	488m NW	Incident Date: 18/03/2002 Incident Identification: 64817 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

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

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

4.20 Pollution inventory waste transfers

Records within 500m	1
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

Features are displayed on the Current industrial land use map on [page 49 >](#)

ID: C, Location: 71m S, Permit: KP3436NL
 Operator: Srcl Limited
 Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
 Address: SRCL Knowsley Treatment and Transfer Station Bradman Road L33 7UR
 Sector: Hazardous Waste, Sub-sector: Hazardous Waste
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 (eg evaporation, drying, calcination, etc.)	8.81	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
D10	Incineration on Land	1310.82	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	19.44	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
D10	Incineration on Land	6.1	Absolute Value	18 02 02	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
D10	Incineration on Land	2.54	Absolute Value	18 01 06	chemicals consisting of or containing dangerous substances	Yes
D10	Incineration on Land	94.16	Absolute Value	18 01 08	cytotoxic and cytostatic medicines	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes)	0.06	Absolute Value	18 02 02	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	44.14	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	0.24	Absolute Value	18 01 10	amalgam waste from dental care	Yes
D10	Incineration on Land	0.29	Absolute Value	18 02 07	cytotoxic and cytostatic medicines	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	0.48	Absolute Value	18 01 02	body parts and organs including blood bags and blood preserves (except 18 01 03)	No
D1	Deposit into or onto land (eg landfill, etc.)	417.81	Absolute Value	18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)	No
D10	Incineration on Land	4.03	Absolute Value	18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	3625.91	Absolute Value	18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)	No
D10	Incineration on Land	0.03	Absolute Value	18 01 07	chemicals other than those mentioned in 18 01 06	No
D10	Incineration on Land	43.66	Absolute Value	18 01 09	medicines other than those mentioned in 18 01 08	No
D10	Incineration on Land	17.08	Absolute Value	18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	281.61	Absolute Value	18 01 09	medicines other than those mentioned in 18 01 08	No
D10	Incineration on Land	0.02	Absolute Value	18 02 01	sharps (except 18 02 02)	No
D10	Incineration on Land	5.23	Absolute Value	18 02 08	medicines other than those mentioned in 18 02 07	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	8.18	Absolute Value	18 02 08	medicines other than those mentioned in 18 02 07	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	7940.97	Absolute Value	19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09	No
D10	Incineration on Land	0.18	Absolute Value	20 01 99	other fractions not otherwise specified	No

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

4.21 Pollution inventory radioactive waste

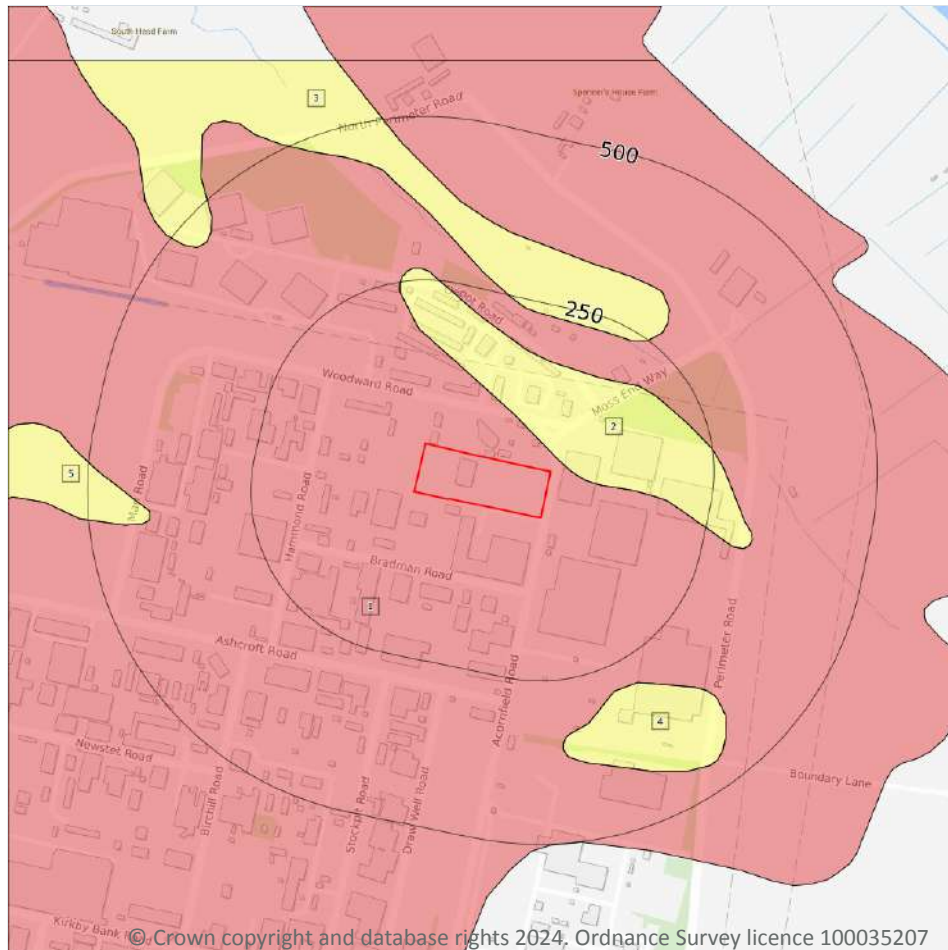
Records within 500m	0
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The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

5

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 91](#) >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	21m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

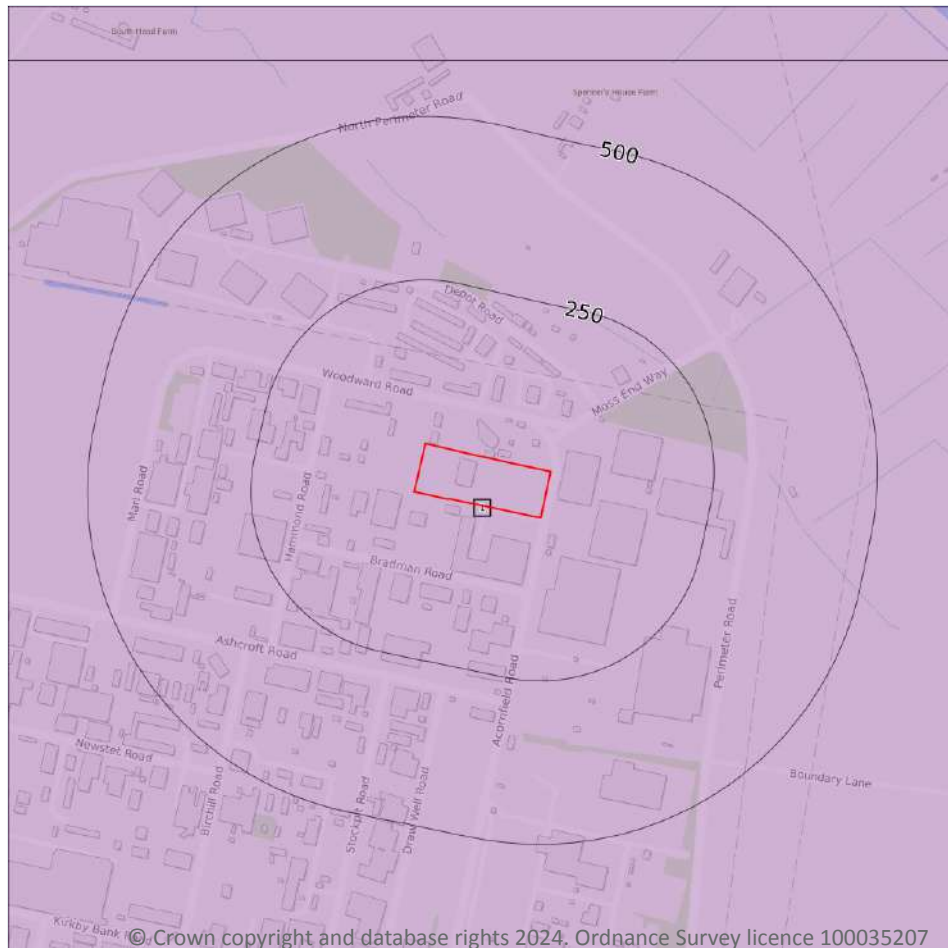


ID	Location	Designation	Description
3	228m NE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	288m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	405m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

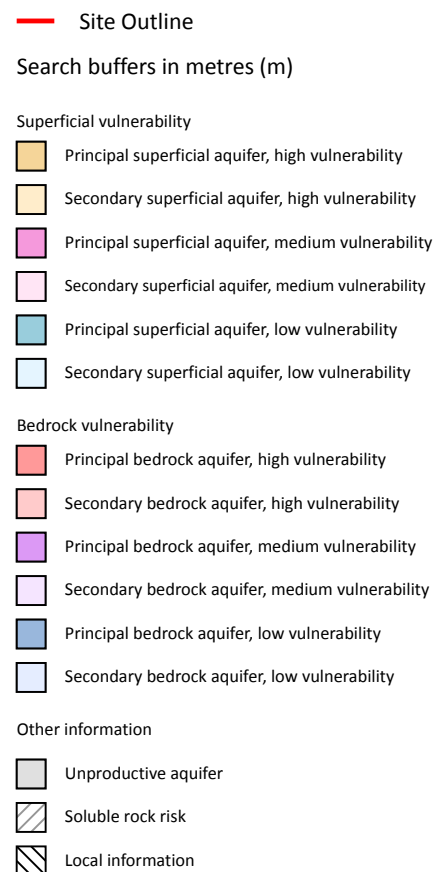
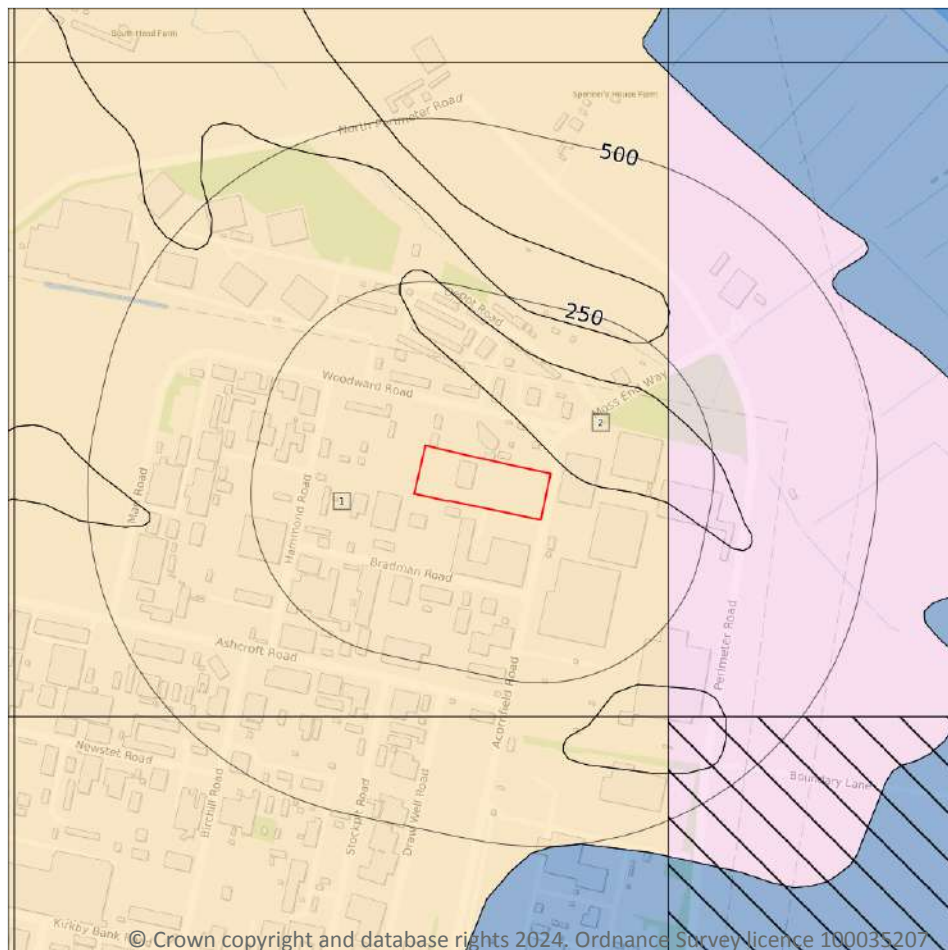
Features are displayed on the Bedrock aquifer map on [page 93](#) >

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on [page 94](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed
2	21m E	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Principal Flow mechanism: Mixed

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

5.5 Groundwater vulnerability- local information

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

41

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 96 >](#)

ID	Location	Details	
B	316m SE	Status: Historical Licence No: 2569031011 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT KIRKBY INDUSTRIAL ESTATEKIRKBY, MERSEYSIDE" Data Type: Point Name: PILKINGTON BROTHERS LTD Easting: 343900 Northing: 399000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1966 Version End Date: -
B	316m SE	Status: Historical Licence No: 2569031011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT KIRKBY INDUSTRIAL ESTATEKIRKBY, MERSEYSIDE" Data Type: Point Name: PILKINGTON BROTHERS LTD Easting: 343900 Northing: 399000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1966 Version End Date: -
B	316m SE	Status: Historical Licence No: 2569031011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATEKIRKBY, MERSEYSIDE Data Type: Point Name: PILKINGTON BROTHERS LTD Easting: 343900 Northing: 399000	Annual Volume (m ³): 1591135 Max Daily Volume (m ³): 5237.11 Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1966 Version End Date: -
B	316m SE	Status: Historical Licence No: 2569031011 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATEKIRKBY, MERSEYSIDE Data Type: Point Name: PILKINGTON BROTHERS LTD Easting: 343900 Northing: 399000	Annual Volume (m ³): 1591135 Max Daily Volume (m ³): 5237.11 Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 28/01/1966 Version End Date: -



ID	Location	Details	
C	502m S	Status: Active Licence No: 2569031089 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: AMES GOLDSMITH UK LTD Easting: 343800 Northing: 398800	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 340.95 Original Application No: NPS/WR/023235 Original Start Date: 01/07/1988 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2016 Version End Date: -
C	502m S	Status: Historical Licence No: 2569031089 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: AMES GOLDSMITH UK LTD Easting: 343800 Northing: 398800	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 340.95 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 101 Version Start Date: 10/11/2006 Version End Date: -
-	629m W	Status: Historical Licence No: 2569031146 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: SONAE BOREHOLE, KNOWSLEY, MERSEYSIDE Data Type: Point Name: Sonae (UK) Limited Easting: 342984 Northing: 399310	Annual Volume (m ³): 129600 Max Daily Volume (m ³): 356.53 Original Application No: - Original Start Date: 17/10/2008 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 17/10/2008 Version End Date: -
-	629m W	Status: Historical Licence No: 2569031146 Details: Process Water Direct Source: Ground Water - North West Region Point: SONAE BOREHOLE, KNOWSLEY, MERSEYSIDE Data Type: Point Name: Sonae (UK) Limited Easting: 342984 Northing: 399310	Annual Volume (m ³): 129600 Max Daily Volume (m ³): 356.53 Original Application No: - Original Start Date: 17/10/2008 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 17/10/2008 Version End Date: -
-	629m W	Status: Historical Licence No: 2569031146 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: SONAE BOREHOLE, KNOWSLEY, MERSEYSIDE Data Type: Point Name: Sonae (UK) Limited Easting: 342984 Northing: 399310	Annual Volume (m ³): 129600 Max Daily Volume (m ³): 356.53 Original Application No: - Original Start Date: 17/10/2008 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 17/10/2008 Version End Date: -



ID	Location	Details	
E	675m SW	Status: Active Licence No: 2569031090 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATE Data Type: Point Name: Baker Hughes Limited Easting: 343400 Northing: 398700	Annual Volume (m ³): 250030 Max Daily Volume (m ³): 818.28 Original Application No: NPS/WR/006045 Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
E	675m SW	Status: Active Licence No: 2569031090 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATE Data Type: Point Name: Baker Hughes Limited Easting: 343400 Northing: 398700	Annual Volume (m ³): 250030 Max Daily Volume (m ³): 818.28 Original Application No: NPS/WR/006045 Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
E	675m SW	Status: Active Licence No: 2569031090 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATE Data Type: Point Name: Baker Hughes Limited Easting: 343400 Northing: 398700	Annual Volume (m ³): 250030 Max Daily Volume (m ³): 818.28 Original Application No: NPS/WR/006045 Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
-	895m W	Status: Active Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY 2 Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342734 Northing: 399168	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 792 Original Application No: NPS/WR/027992 Original Start Date: 28/09/1999 Expiry Date: - Issue No: 3 Version Start Date: 19/11/2019 Version End Date: -



ID	Location	Details	
-	1377m SW	Status: Active Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342445 Northing: 398610	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 792 Original Application No: NPS/WR/027992 Original Start Date: 28/09/1999 Expiry Date: - Issue No: 3 Version Start Date: 19/11/2019 Version End Date: -
-	1377m SW	Status: Active Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342445 Northing: 398610	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 792 Original Application No: NPS/WR/027992 Original Start Date: 28/09/1999 Expiry Date: - Issue No: 3 Version Start Date: 19/11/2019 Version End Date: -
-	1377m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342445 Northing: 398610	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 432 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 2 Version Start Date: 23/10/2014 Version End Date: -
-	1377m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342445 Northing: 398610	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 792 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 3 Version Start Date: 19/11/2019 Version End Date: -



ID	Location	Details	
-	1377m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY Data Type: Point Name: Liverpool Football Club & Athletic Grounds Limited Easting: 342445 Northing: 398610	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 792 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 3 Version Start Date: 19/11/2019 Version End Date: -
-	1386m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE ""B""AT KIRKBY" Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1386m SW	Status: Historical Licence No: 2569031131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ""B""AT KIRKBY" Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1386m SW	Status: Historical Licence No: 2569031131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE "B"AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -



ID	Location	Details	
-	1386m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE "B" AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1386m SW	Status: Historical Licence No: 2569031131 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE B AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1386m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE B AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342460 Northing: 398570	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1389m SW	Status: Historical Licence No: 2569031131 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE A AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1389m SW	Status: Historical Licence No: 2569031131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ""A"" AT KIRKBY" Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -



ID	Location	Details	
-	1389m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE ""A""AT KIRKBY" Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1389m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE "A"AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1389m SW	Status: Historical Licence No: 2569031131 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE "A"AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1389m SW	Status: Historical Licence No: 2569031131 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE A AT KIRKBY Data Type: Point Name: LIVERPOOL FOOTBALL CLUB SOCCER ACADEMY Easting: 342450 Northing: 398580	Annual Volume (m ³): 150000 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 28/09/1999 Expiry Date: - Issue No: 1 Version Start Date: 28/09/1999 Version End Date: -
-	1450m N	Status: Historical Licence No: 2569031137 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: PERMO TRIASSIC SANDSTONE AT SIMONSWOOD Data Type: Point Name: CITY CENTRE COMMERCIALS LTD Easting: 343750 Northing: 400860	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 39 Original Application No: - Original Start Date: 09/10/2001 Expiry Date: - Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -



ID	Location	Details	
-	1547m N	Status: Active Licence No: 2569031122 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA IN SIMONSWOOD LIVERPOOL Data Type: Point Name: Simonswood Properties Limited Easting: 343820 Northing: 400950	Annual Volume (m ³): 12000 Max Daily Volume (m ³): 100 Original Application No: NPS/WR/030055 Original Start Date: 12/08/1996 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2021 Version End Date: -
-	1586m N	Status: Active Licence No: 2569031095 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOPGATE LANE, SIMONSWOOD, KIRKBY Data Type: Point Name: Simonswood Properties Limited Easting: 343600 Northing: 401000	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 113.65 Original Application No: NPS/WR/030056 Original Start Date: 04/11/1991 Expiry Date: - Issue No: 102 Version Start Date: 18/12/2018 Version End Date: -
-	1586m N	Status: Historical Licence No: 2569031095 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT STOPGATE LANE,SIMONSWOOD KIRKBY" Data Type: Point Name: EAGERSIGNAL LTD. Easting: 343600 Northing: 401000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/11/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/12/1999 Version End Date: -
-	1586m N	Status: Historical Licence No: 2569031095 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOPGATE LANE,SIMONSWOOD KIRKBY Data Type: Point Name: EAGERSIGNAL LTD. Easting: 343600 Northing: 401000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/11/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/12/1999 Version End Date: -



ID	Location	Details	
-	1594m N	Status: Historical Licence No: 2569031122 Details: Dust suppression Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA IN SIMONSWOOD LIVERPOOL Data Type: Point Name: S J DOYLE & COMPANY DEMOLITION LTD Easting: 343800 Northing: 401000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/08/1996 Expiry Date: - Issue No: 100 Version Start Date: 12/08/1996 Version End Date: -
-	1594m N	Status: Historical Licence No: 2569031122 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA IN SIMONSWOOD LIVERPOOL Data Type: Point Name: Simonswood Properties Limited Easting: 343800 Northing: 401000	Annual Volume (m ³): 12000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 12/08/1996 Expiry Date: - Issue No: 101 Version Start Date: 18/12/2018 Version End Date: -
-	1746m N	Status: Active Licence No: NW/069/0031/008 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE - SHERWOOD SANDTONE - SIMONSWOOD Data Type: Point Name: United Utilities Water Ltd Easting: 343580 Northing: 401160	Annual Volume (m ³): 1464000 Max Daily Volume (m ³): 8000 Original Application No: NPS/WR/010887 Original Start Date: 09/11/2017 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/11/2018 Version End Date: -
-	1846m N	Status: Active Licence No: 2569031093 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: BOREHOLE AT NEWBRIDGE FARM, SIMONSWOOD Data Type: Point Name: R DRAPER LTD Easting: 344100 Northing: 401200	Annual Volume (m ³): 36368 Max Daily Volume (m ³): 100 Original Application No: C2813 FV2 Original Start Date: 12/06/1991 Expiry Date: - Issue No: 101 Version Start Date: 12/12/2005 Version End Date: -

ID	Location	Details	
-	1846m N	Status: Active Licence No: 2569031093 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT NEWBRIDGE FARM, SIMONSWOOD Data Type: Point Name: R DRAPER LTD Easting: 344100 Northing: 401200	Annual Volume (m ³): 36368 Max Daily Volume (m ³): 100 Original Application No: C2813 FV2 Original Start Date: 12/06/1991 Expiry Date: - Issue No: 101 Version Start Date: 12/12/2005 Version End Date: -
-	1846m N	Status: Historical Licence No: 2569031093 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT NEWBRIDGE FARM, SIMONSWOOD" Data Type: Point Name: R DRAPER LTD Easting: 344100 Northing: 401200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 02/08/1996 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	5
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Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 96 >](#)

ID	Location	Details	
A	281m E	Status: Historical Licence No: 2569031068 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED TRIB OF SIMONSWOOD BRK AT KIRKBY Data Type: Line Name: BERRY BROS FARMS LTD Easting: 344100 Northing: 399400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/06/1984 Expiry Date: - Issue No: 100 Version Start Date: 14/06/1984 Version End Date: -

ID	Location	Details	
A	281m E	Status: Historical Licence No: 2569031068 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED TRIBUTARY OF SIMONSWOOD BROOK AT KIRKBY Data Type: Line Name: BERRY BROS FARMS LTD Easting: 344100 Northing: 399400	Annual Volume (m ³): 45460 Max Daily Volume (m ³): 1000.12 Original Application No: 2668 Original Start Date: 14/06/1984 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2021 Version End Date: -
-	1985m N	Status: Historical Licence No: 2569031048 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SIMONSWOOD BRK AT DAIRY FARM, RAINFORD, ST HELENS," Data Type: Line Name: B HEYES & SON Easting: 343500 Northing: 401400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/08/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1990 Version End Date: -
-	1985m N	Status: Historical Licence No: 2569031048 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SIMONSWOOD BRK AT DAIRY FARM, RAINFORD, ST HELENS Data Type: Line Name: B HEYES & SON Easting: 343500 Northing: 401400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/08/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1990 Version End Date: -
-	1985m N	Status: Historical Licence No: 2569031048 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SIMONSWOOD BROOK AT DAIRY FARM RAINFORD ST HELENS Data Type: Line Name: B HEYES & SON Easting: 343500 Northing: 401400	Annual Volume (m ³): 100157.472 Max Daily Volume (m ³): 654.624 Original Application No: - Original Start Date: 14/08/1980 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1990 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

2

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 96 >](#)

ID	Location	Details	
E	675m SW	Status: Active Licence No: 2569031090 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT KIRKBY INDUSTRIAL ESTATE Data Type: Point Name: Baker Hughes Limited Easting: 343400 Northing: 398700	Annual Volume (m ³): 250030 Max Daily Volume (m ³): 818.28 Original Application No: NPS/WR/006045 Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
-	1746m N	Status: Active Licence No: NW/069/0031/008 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE - SHERWOOD SANDTONE - SIMONSWOOD Data Type: Point Name: United Utilities Water Ltd Easting: 343580 Northing: 401160	Annual Volume (m ³): 1464000 Max Daily Volume (m ³): 8000 Original Application No: NPS/WR/010887 Original Start Date: 09/11/2017 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 26/11/2018 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m

1

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 96 >](#)

ID	Location	Type	Description
1	On site	3	Total catchment

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

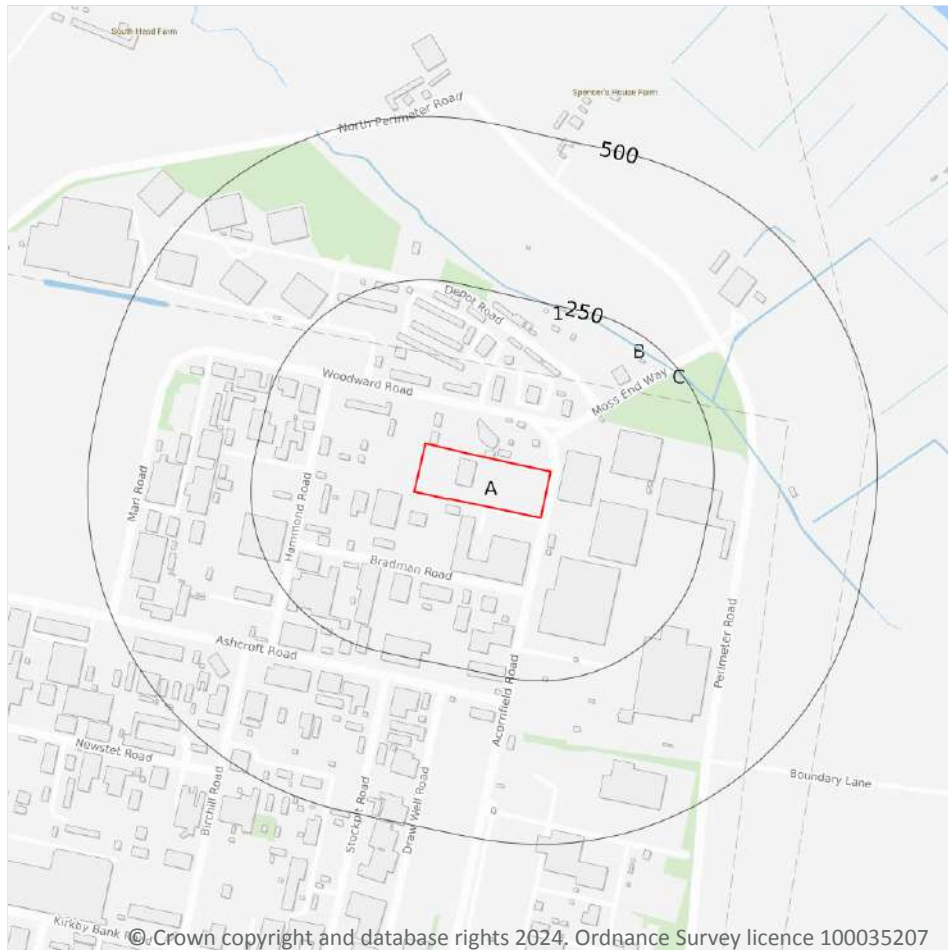
0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

4

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

Features are displayed on the Hydrology map on [page 110 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
B	231m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
C	239m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
1	239m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	246m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

2

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

Features are displayed on the Hydrology map on [page 110 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 110 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Simonswood Brook	GB112069060630	Alt	Alt and Crossens

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



6.4 WFD Surface water bodies

Records identified	1
---------------------------	----------

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

Features are displayed on the Hydrology map on [page 110 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1704m NE	River	Simonswood Brook	GB112069060630 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

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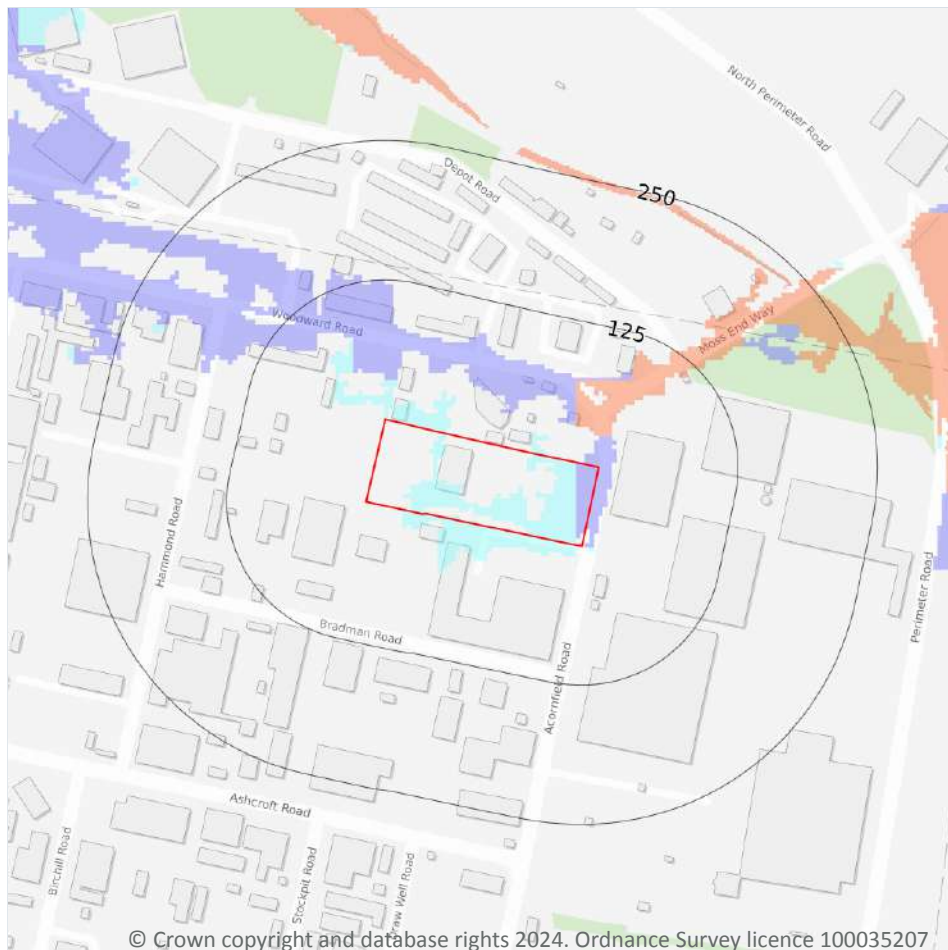
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 110 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers	GB41201G101700 ↗	Poor	Poor	Poor	2019

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

7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

5

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on [page 113 >](#)



Distance	Flood risk category
On site	Medium
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	0
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Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

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

7.3 Flood Defences

Records within 250m	0
---------------------	---

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0
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Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

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

7.5 Flood Storage Areas

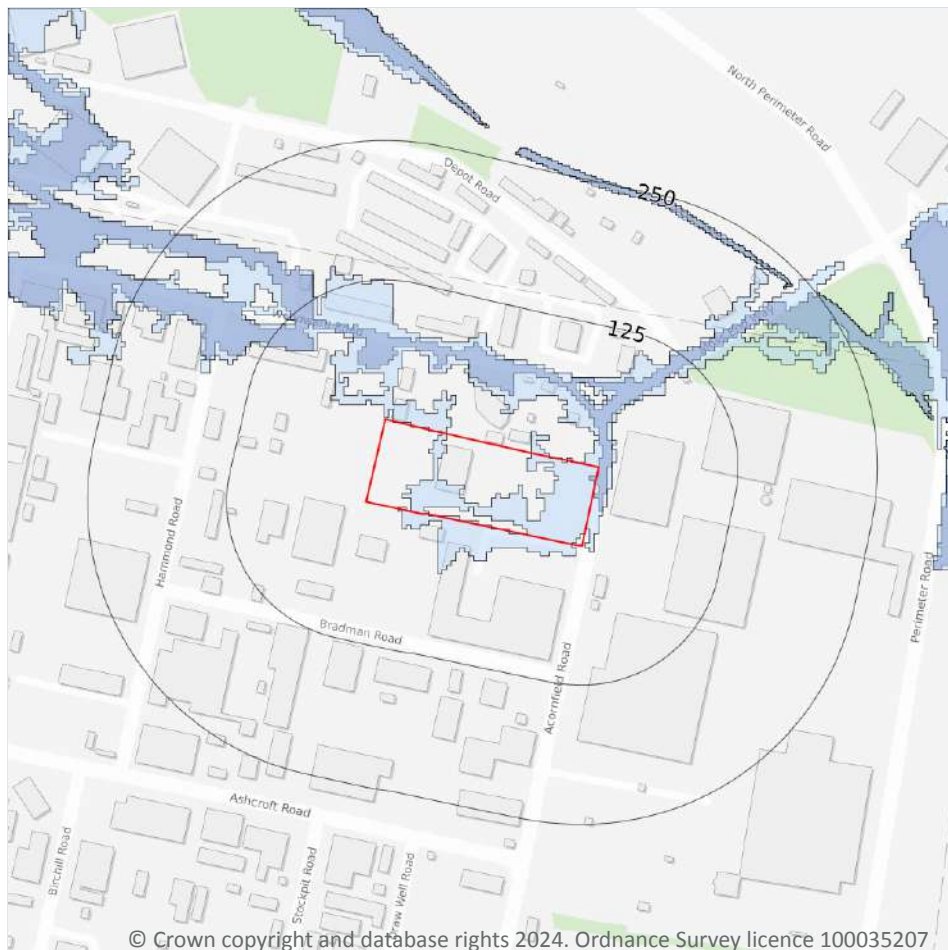
Records within 250m	0
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Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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



River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

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7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 113 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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



7.7 Flood Zone 3

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 113](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 117 >](#)

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

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

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on [page 119](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- - - Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on [page 120 >](#)

ID	Location	Name	Data source
-	1306m S	Acornfield Plantation	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**3**

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

Features are displayed on the Environmental designations map on [page 120 >](#)

ID	Location	Name	Local Authority name
1	268m E	Merseyside and Greater Manchester	West Lancashire
2	443m SE	Merseyside and Greater Manchester	Knowsley
-	1565m E	Merseyside and Greater Manchester	St. Helens

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**3**

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

Location	Name	Type	NVZ ID	Status
On site	ALT NVZ	Surface Water	642	Existing
272m E	ALT NVZ	Surface Water	642	Existing
1919m SE	Sankey Brook (Black Bk to Mersey) NVZ	Surface Water	639	Existing

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



SSSI Impact Zones and Units

10.17 SSSI Impact Risk Zones

Records on site

0

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

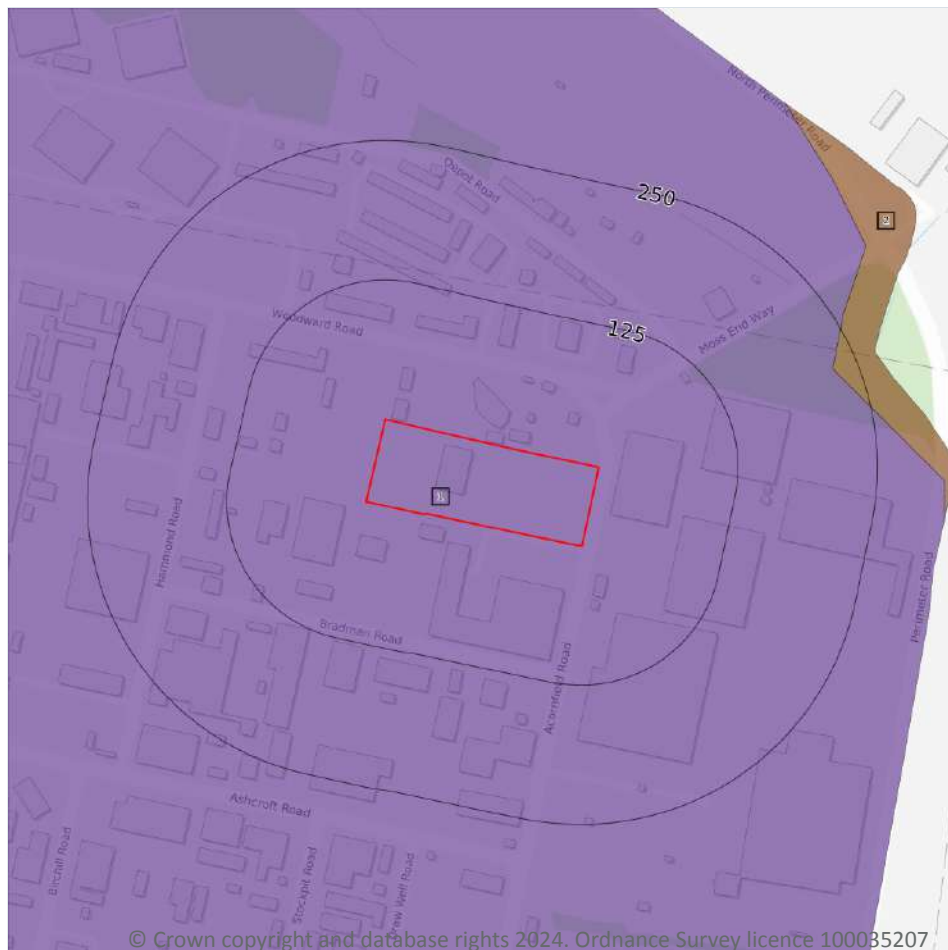
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 128](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned
2	228m E	Grade 1	Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.



This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations

13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

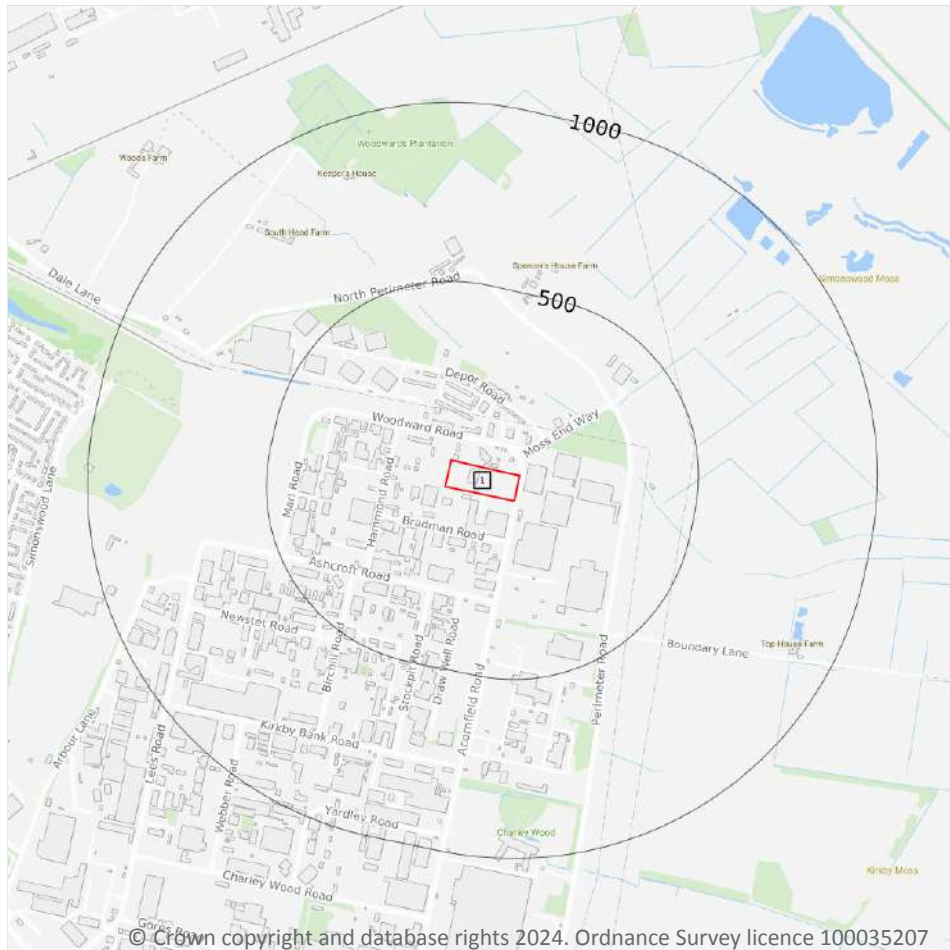
0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 131](#) >

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

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock

14.5 Bedrock geology (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

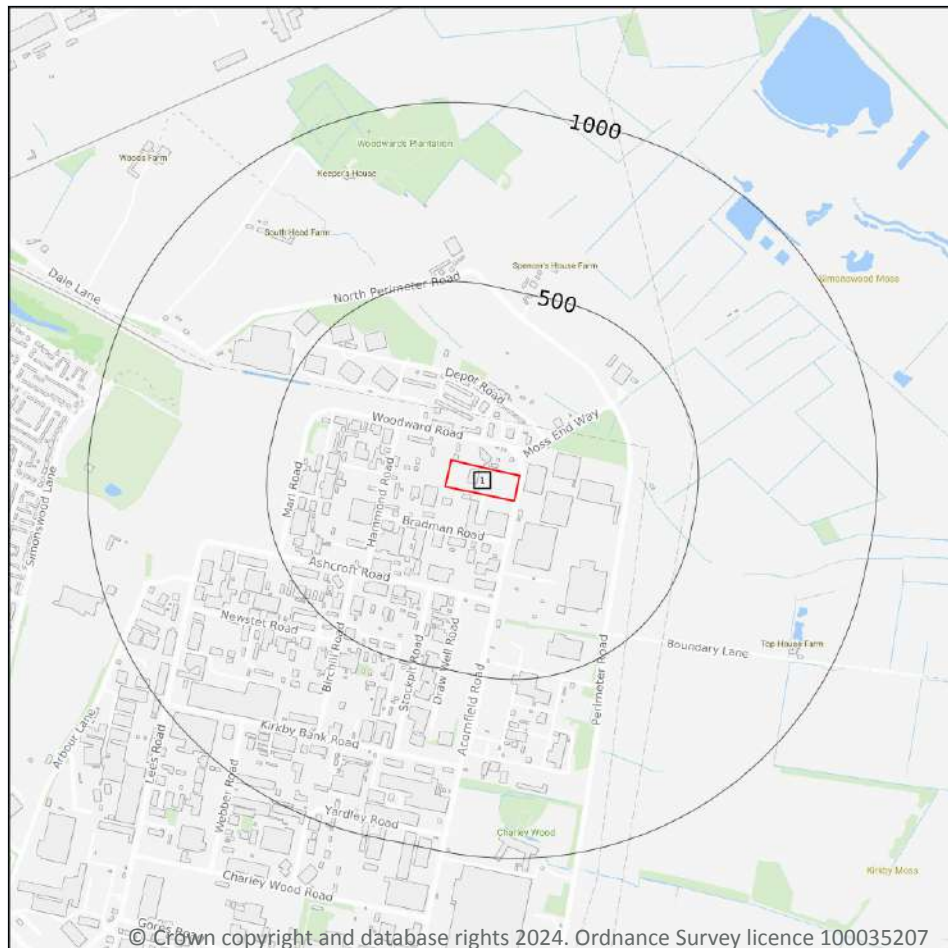
0

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

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

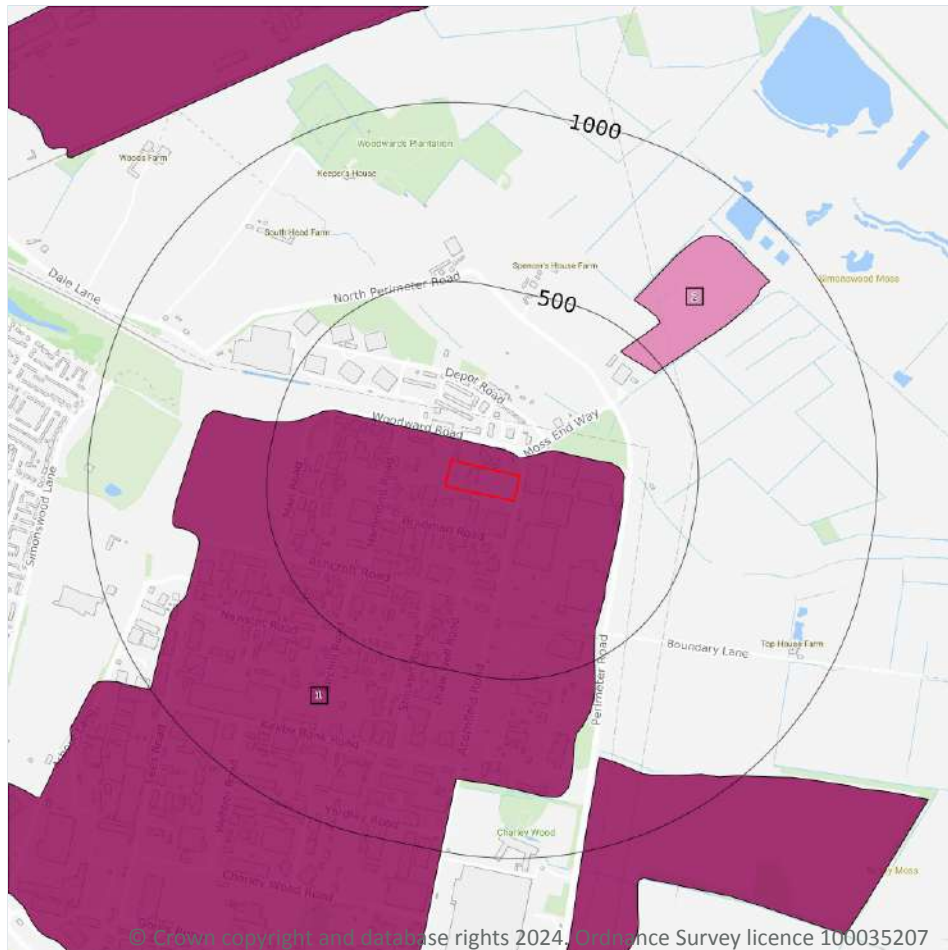
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 135](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW084_wigan_v4

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 136](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	446m NE	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m**1**

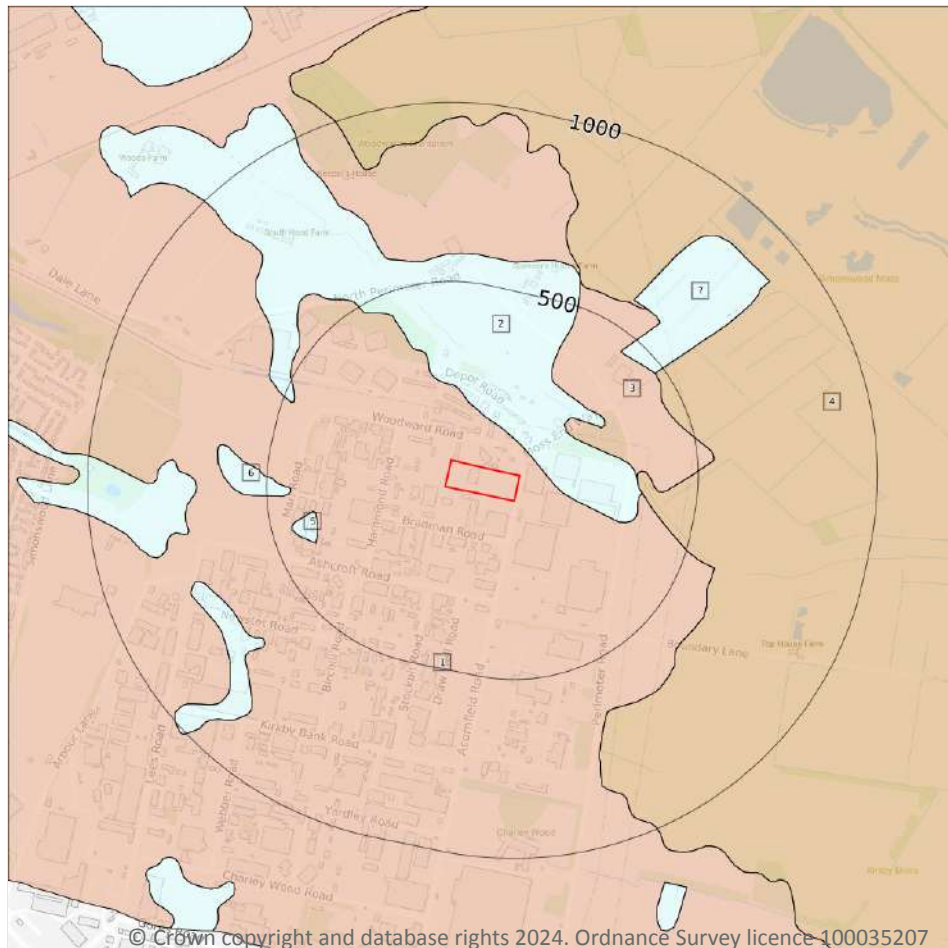
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

7

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 138](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND
2	59m E	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
3	178m NE	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND
4	328m E	PEAT-P	PEAT	PEAT



ID	Location	LEX Code	Description	Rock description
5	369m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	431m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	446m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

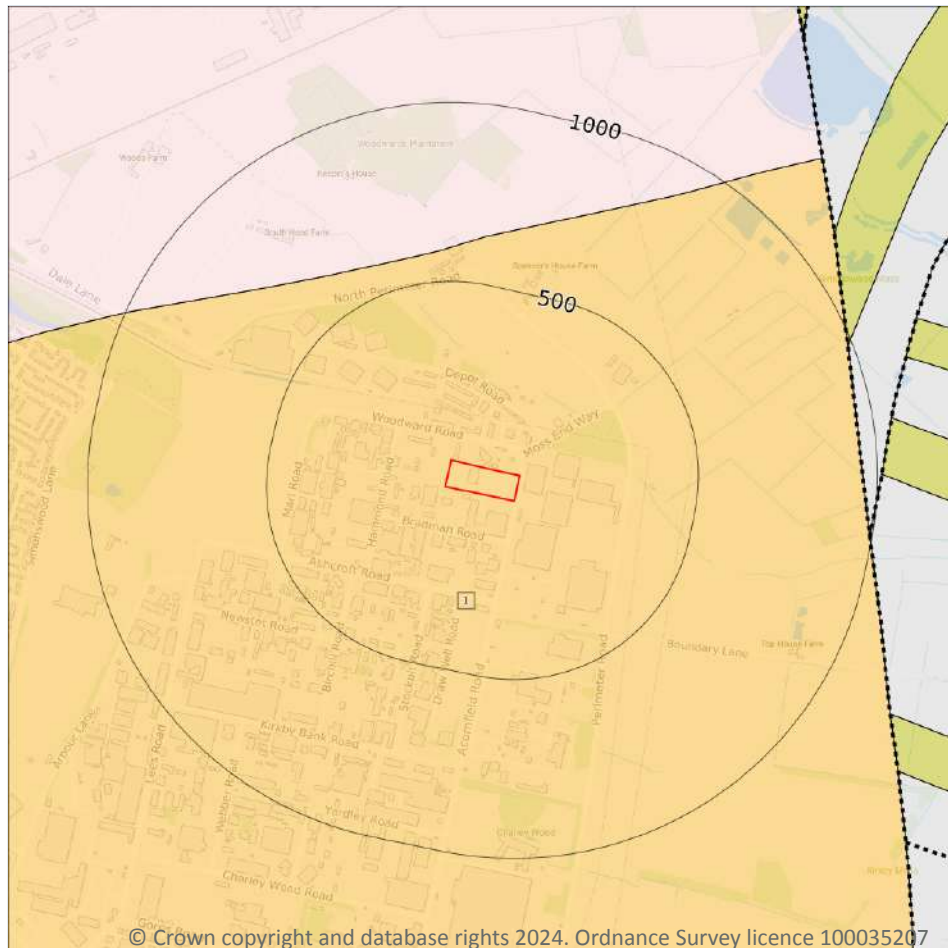
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 140](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m**1**

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

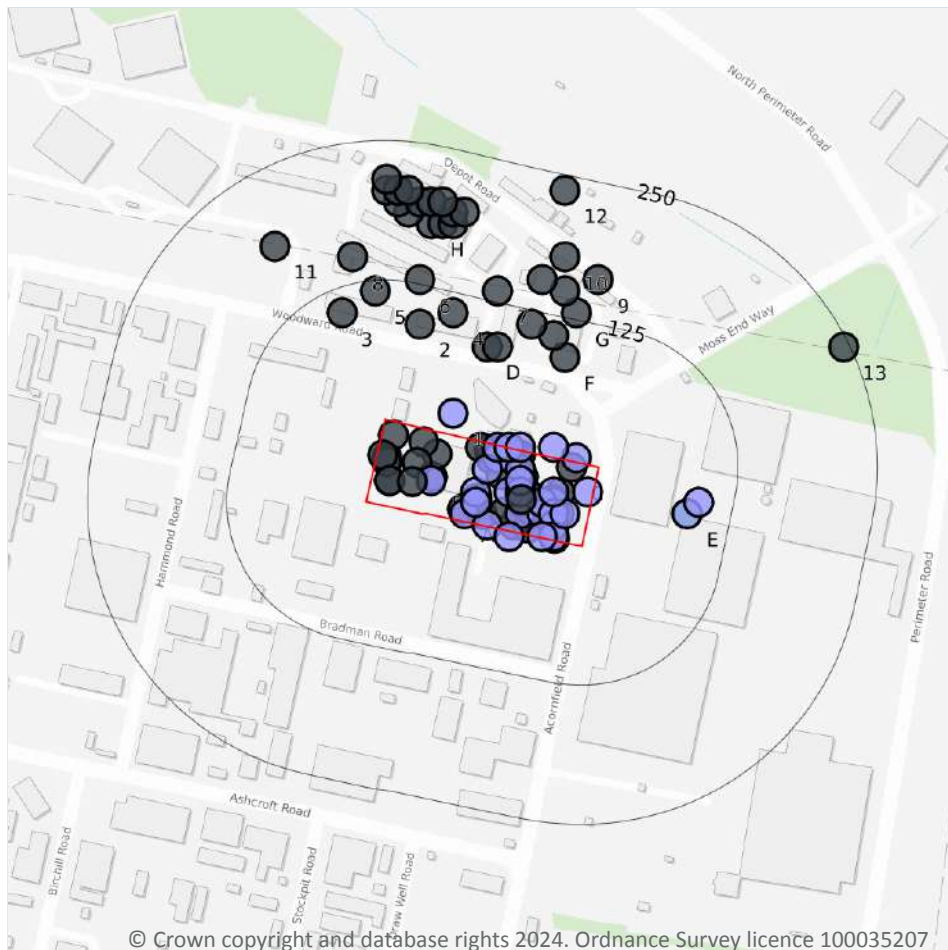
Records within 500m**0**

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

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

111

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

Features are displayed on the Boreholes map on [page 142 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	343698 399334	Syntor Knowsley Part 2a EWS516	-	Y	N/A
A	On site	343786 399349	Syntor Knowsley Part 2a EWS521	-	Y	N/A
A	On site	343780 399343	Syntor Knowsley Part 2a EWS522	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	343778 399324	Syntor Knowsley Part 2a EWS524	-	Y	N/A
A	On site	343748 399343	Syntor Knowsley Part 2a EWS520	-	Y	N/A
A	On site	343716 399329	Syntor Knowsley Part 2a EWS518	-	Y	N/A
A	On site	343781 399308	Syntor Knowsley Part 2a EWS525	-	Y	N/A
A	On site	343745 399384	Syntor Knowsley Part 2a EBH502	-	Y	N/A
A	On site	343750 399383	Syntor Knowsley Part 2a EWS508	-	Y	N/A
A	On site	343759 399345	Syntor Knowsley Part 2a EWS513	-	Y	N/A
A	On site	343748 399329	Syntor Knowsley Part 2a EBH504	-	Y	N/A
A	On site	343724 399379	Syntor Knowsley Part 2a EWS509	-	Y	N/A
A	On site	343785 399330	Syntor Knowsley Part 2a EWS523	-	Y	N/A
A	On site	343722 399388	Syntor Knowsley Part 2a EWS507	-	Y	N/A
A	On site	343711 399344	Syntor Knowsley Part 2a EWS517	-	Y	N/A
A	On site	343753 399363	Syntor Knowsley Part 2a EWS519	-	Y	N/A
A	On site	343744 399320	Syntor Knowsley Part 2a EHP503	-	Y	N/A
A	On site	343757 399317	Syntor Knowsley Part 2a EHP504	-	Y	N/A
A	On site	343714 399390	Syntor Knowsley Part 2a EBH501	-	Y	N/A
A	On site	343733 399365	Syntor Knowsley Part 2a EWS511	-	Y	N/A
A	On site	343736 399332	Syntor Knowsley Part 2a EWS514	-	Y	N/A
A	On site	343700 399330	CLARIANT PHASE I & II KIRKBY 104	3.0	N	17529523 ↗
A	On site	343710 399350	CLARIANT PHASE I & II KIRKBY 105	3.0	N	17529524 ↗
A	On site	343750 399340	CLARIANT PHASE I & II KIRKBY 210	5.0	N	17529621 ↗
A	On site	343780 399320	CLARIANT PHASE I & II KIRKBY 401	10.5	N	17529647 ↗
A	On site	343751 399343	Syntor Knowsley Part 2a EWS520B	-	Y	N/A
A	On site	343758 399334	Syntor Knowsley Part 2a EWS515	-	Y	N/A
A	On site	343759 399345	Syntor Knowsley Part 2a EWS513A	-	Y	N/A
A	On site	343740 399380	CLARIANT PHASE I & II KIRKBY 106	3.0	N	17529525 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	343720 399320	CLARIANT PHASE I & II KIRKBY 316	4.0	N	17529644 ↗
A	On site	343740 399380	CLARIANT PHASE I & II KIRKBY 311	3.0	N	17529635 ↗
A	On site	343750 399340	CLARIANT PHASE I & II KIRKBY 403	6.5	N	17529651 ↗
A	On site	343750 399330	CLARIANT PHASE I & II KIRKBY 308	2.5	N	17529631 ↗
A	On site	343750 399350	CLARIANT PHASE I & II KIRKBY 209	4.0	N	17529620 ↗
A	On site	343780 399340	CLARIANT PHASE I & II KIRKBY 211	4.5	N	17529622 ↗
A	On site	343730 399380	CLARIANT PHASE I & II KIRKBY 402	9.5	N	17529650 ↗
A	On site	343770 399330	CLARIANT PHASE I & II KIRKBY 102A	1.1	N	17529520 ↗
A	On site	343780 399330	CLARIANT PHASE I & II KIRKBY 212	1.1	N	17529623 ↗
A	On site	343810 399350	CLARIANT PHASE I & II KIRKBY 301	4.0	N	17529624 ↗
A	On site	343750 399370	CLARIANT PHASE I & II KIRKBY 312	3.0	N	17529636 ↗
A	On site	343770 399340	CLARIANT PHASE I & II KIRKBY 305	4.0	N	17529628 ↗
A	On site	343780 399320	CLARIANT PHASE I & II KIRKBY 304	4.0	N	17529627 ↗
A	On site	343780 399330	CLARIANT PHASE I & II KIRKBY 102B	3.0	N	17529521 ↗
A	On site	343740 399350	CLARIANT PHASE I & II KIRKBY 307	3.0	N	17529630 ↗
A	On site	343780 399310	CLARIANT PHASE I & II KIRKBY 313	4.0	N	17529639 ↗
A	On site	343710 399340	CLARIANT PHASE I & II KIRKBY 203	9.0	N	17529616 ↗
A	On site	343790 399330	CLARIANT PHASE I & II KIRKBY 303	4.0	N	17529626 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	343720 399370	CLARIANT PHASE I & II KIRKBY 310	3.2	N	17529633 ↗
A	On site	343770 399310	CLARIANT PHASE I & II KIRKBY 314	4.0	N	17529641 ↗
A	On site	343730 399390	CLARIANT PHASE I & II KIRKBY 207	4.0	N	17529618 ↗
A	On site	343750 399350	CLARIANT PHASE I & II KIRKBY 103	3.0	N	17529522 ↗
A	On site	343750 399360	CLARIANT PHASE I & II KIRKBY 306	4.0	N	17529629 ↗
A	On site	343780 399350	CLARIANT PHASE I & II KIRKBY 302	4.0	N	17529625 ↗
A	On site	343751 399343	Syntor Knowsley Part 2a EWS520A	-	Y	N/A
B	On site	343671 399363	Syntor Knowsley Part 2a EHP502	-	Y	N/A
B	On site	343633 399360	Syntor Knowsley Part 2a EWS503A	-	Y	N/A
B	On site	343675 399384	Syntor Knowsley Part 2a EHP501	-	Y	N/A
B	On site	343636 399401	Syntor Knowsley Part 2a EWS501	-	Y	N/A
B	On site	343630 399380	Syntor Knowsley Part 2a EWS502	-	Y	N/A
B	On site	343630 399377	Syntor Knowsley Part 2a EWS502A	-	Y	N/A
B	On site	343627 399383	Syntor Knowsley Part 2a EWS502B	-	Y	N/A
B	On site	343633 399360	Syntor Knowsley Part 2a EWS503	-	Y	N/A
B	On site	343663 399395	Syntor Knowsley Part 2a EWS504	-	Y	N/A
B	On site	343657 399376	Syntor Knowsley Part 2a EWS505	-	Y	N/A
B	On site	343670 399360	CLARIANT PHASE I & II KIRKBY 202	9.0	N	17529615 ↗
B	On site	343653 399359	Syntor Knowsley Part 2a EWS506	-	Y	N/A
C	On site	343796 399372	Syntor Knowsley Part 2a EBH503	-	Y	N/A
A	1m NE	343740 399390	CLARIANT PHASE I & II KIRKBY 208	4.0	N	17529619 ↗
A	3m NE	343750 399390	CLARIANT PHASE I & II KIRKBY 309	3.2	N	17529632 ↗
C	4m E	343800 399380	CLARIANT PHASE I & II KIRKBY 101	4.0	N	17529519 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	4m SE	343740 399310	CLARIANT PHASE I & II KIRKBY 315	4.0	N	17529642 ↗
C	10m NE	343780 399390	CLARIANT PHASE I & II KIRKBY 206	9.0	N	17529617 ↗
1	19m N	343690 399420	CLARIANT PHASE I & II KIRKBY 201	4.5	N	17529614 ↗
D	84m N	343720 399480	KNOWSLEY INDUSTRIAL PARK NORTH 15	-	Y	N/A
D	87m N	343730 399480	KNOWSLEY INDUSTRIAL PARK NORTH 16	-	Y	N/A
E	87m E	343900 399330	ACORNFIELD ROAD KNOWSLEY INDUSTRIAL PARK NORTH KIRKBY 1A	10.15	N	17561924 ↗
E	87m E	343900 399330	ACORNFIELD ROAD KNOWSLEY INDUSTRIAL PARK NORTH KIRKBY 1	1.25	N	17561923 ↗
F	90m NE	343790 399470	KNOWSLEY INDUSTRIAL PARK NORTH 19	-	Y	N/A
2	90m N	343660 399500	KNOWSLEY INDUSTRIAL PARK NORTH 12	-	Y	N/A
E	94m E	343910 399340	ACORNFIELD ROAD KNOWSLEY INDUSTRIAL PARK NORTH KIRKBY 2	9.75	N	17561949 ↗
3	103m NW	343590 399510	KNOWSLEY INDUSTRIAL PARK NORTH 9	-	Y	N/A
4	107m N	343690 399510	KNOWSLEY INDUSTRIAL PARK NORTH 13	-	Y	N/A
F	107m NE	343780 399490	MERSEYSIDE COUNCIL 6	-	Y	N/A
F	113m N	343760 399500	KNOWSLEY INDUSTRIAL PARK NORTH 18	-	Y	N/A
5	116m NW	343620 399530	KNOWSLEY INDUSTRIAL PARK NORTH 10	-	Y	N/A
6	129m N	343660 399540	KNOWSLEY INDUSTRIAL PARK NORTH 11	-	Y	N/A
G	131m NE	343800 399510	KNOWSLEY INDUSTRIAL PARK NORTH 20	-	Y	N/A
7	135m N	343730 399530	KNOWSLEY INDUSTRIAL PARK NORTH 14	-	Y	N/A
8	148m NW	343600 399560	KNOWSLEY INDUSTRIAL PARK NORTH 8	-	Y	N/A
G	149m NE	343790 399530	KNOWSLEY INDUSTRIAL PARK NORTH 23	-	Y	N/A
G	154m N	343770 399540	KNOWSLEY INDUSTRIAL PARK NORTH 21	-	Y	N/A
9	165m NE	343820 399540	KNOWSLEY INDUSTRIAL PARK NORTH 24	-	Y	N/A
10	178m N	343790 399560	KNOWSLEY INDUSTRIAL PARK NORTH 22	-	Y	N/A
H	180m N	343670 399590	NORTH MERSEY BUSINESS CENTRE 6	-	Y	N/A
H	182m N	343680 399590	NORTH MERSEY BUSINESS CENTRE TP 2	-	Y	N/A

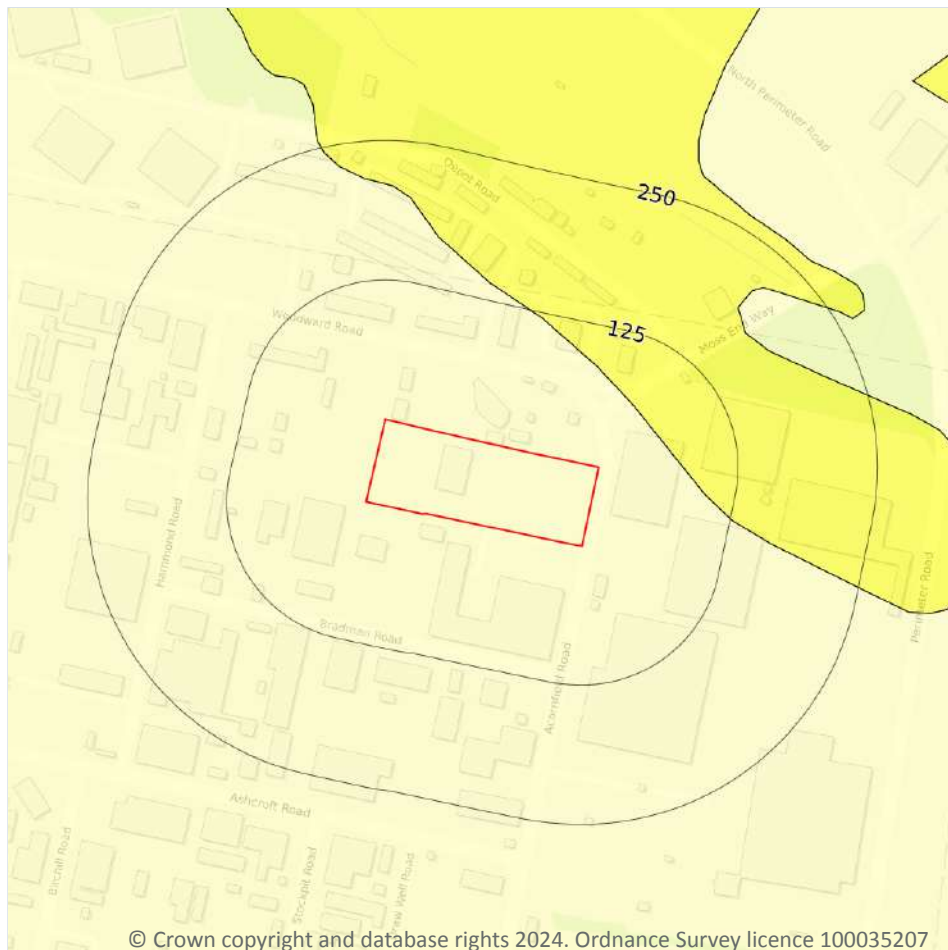


ID	Location	Grid reference	Name	Length	Confidential	Web link
11	184m NW	343530 399570	MERSEYSIDE COUNCIL 5	-	Y	N/A
H	185m N	343690 399590	NORTH MERSEY BUSINESS CENTRE 7	-	Y	N/A
H	186m N	343650 399600	NORTH MERSEY BUSINESS CENTRE TP 4	-	Y	N/A
H	194m N	343690 399600	NORTH MERSEY BUSINESS CENTRE TP 1	-	Y	N/A
H	196m N	343640 399610	NORTH MERSEY BUSINESS CENTRE 3	-	Y	N/A
H	197m N	343700 399600	NORTH MERSEY BUSINESS CENTRE A	-	Y	N/A
H	198m N	343660 399610	NORTH MERSEY BUSINESS CENTRE 4	-	Y	N/A
H	200m N	343670 399610	NORTH MERSEY BUSINESS CENTRE TP 3	-	Y	N/A
H	202m N	343680 399610	NORTH MERSEY BUSINESS CENTRE 5	-	Y	N/A
H	205m N	343630 399620	NORTH MERSEY BUSINESS CENTRE 1	-	Y	N/A
H	206m N	343640 399620	NORTH MERSEY BUSINESS CENTRE TP 5	-	Y	N/A
H	206m N	343640 399620	NORTH MERSEY BUSINESS CENTRE B	-	Y	N/A
H	206m N	343650 399620	NORTH MERSEY BUSINESS CENTRE 2	-	Y	N/A
H	215m N	343630 399630	NORTH MERSEY BUSINESS CENTRE TP 6	-	Y	N/A
12	236m N	343790 399620	MERSEYSIDE COUNCIL 8	-	Y	N/A
13	245m E	344040 399480	MERSEYSIDE COUNCIL 7	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

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17.1 Shrink swell clays

Records within 50m

1

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

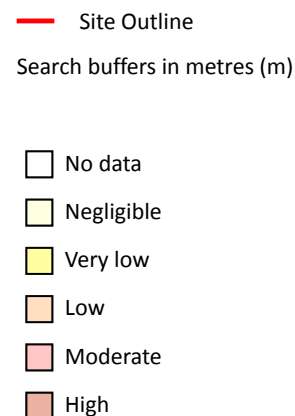
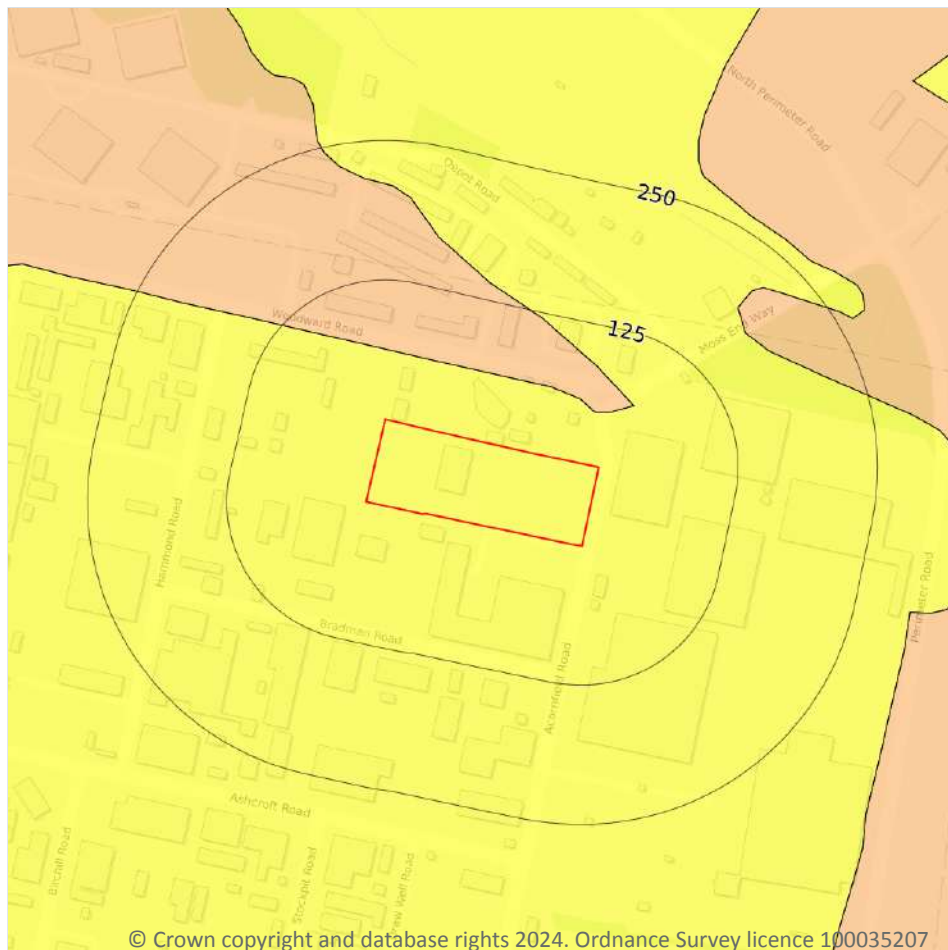
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 148 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on [page 149 >](#)

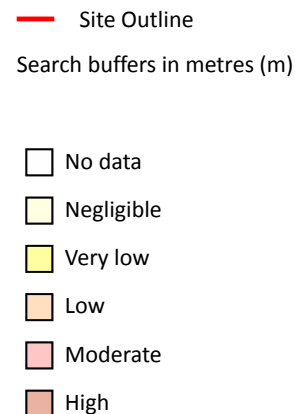
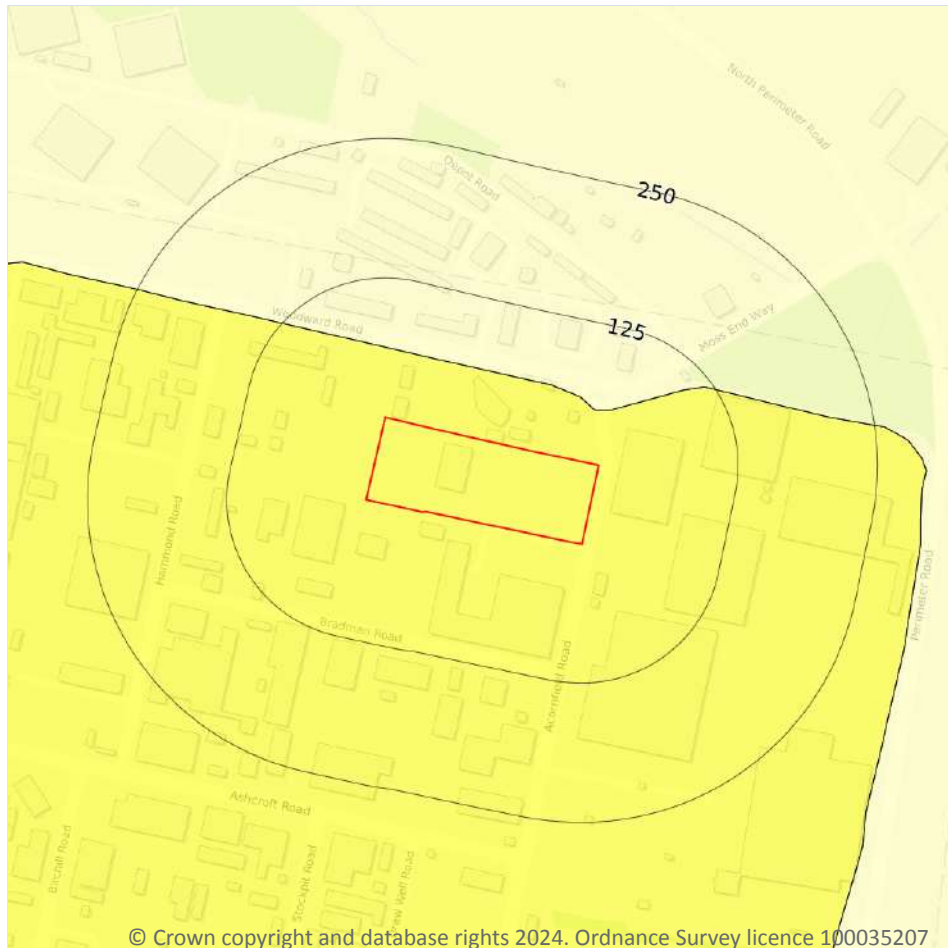
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
48m NE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 151](#) >

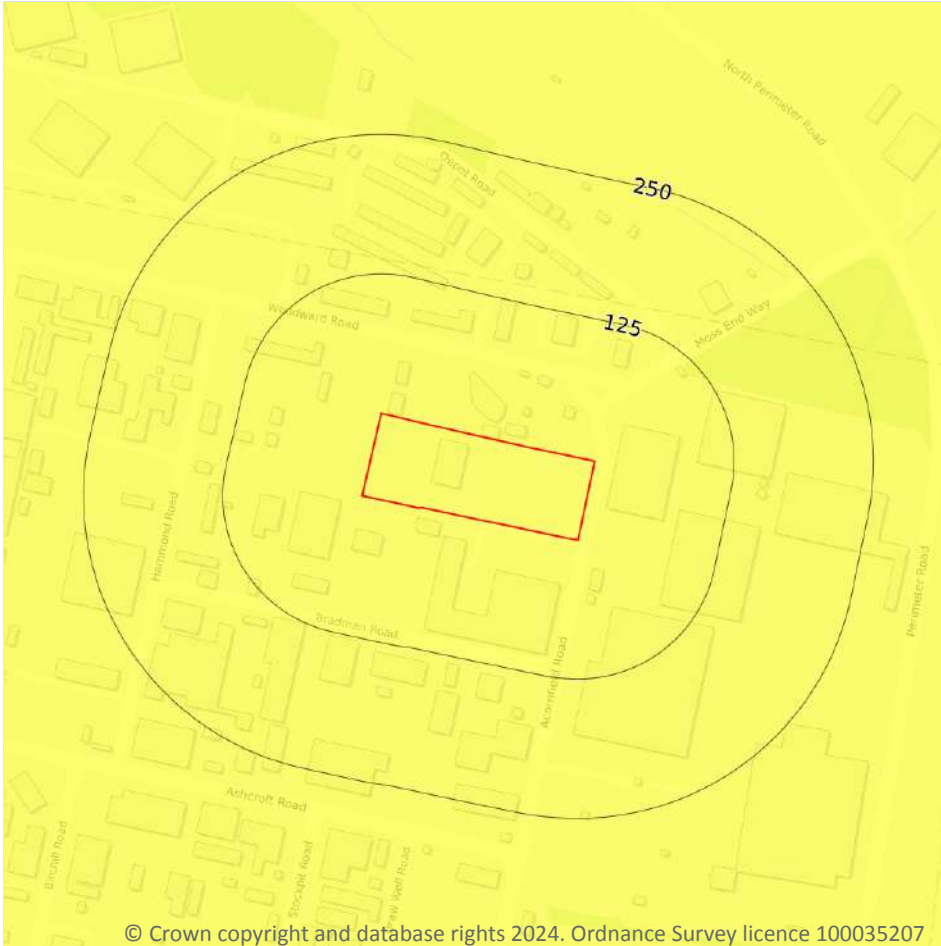
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
48m NE	Negligible	Compressible strata are not thought to occur.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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

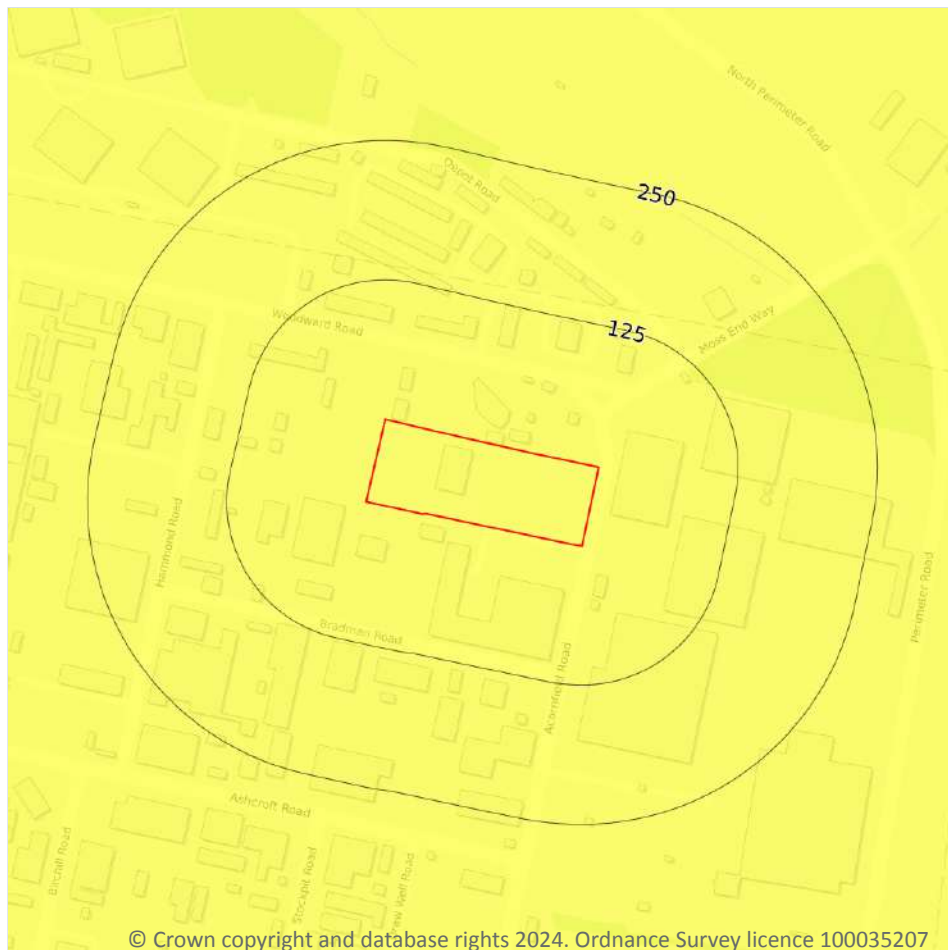
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 153 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Landslides map on [page 154 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

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17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 155](#) >

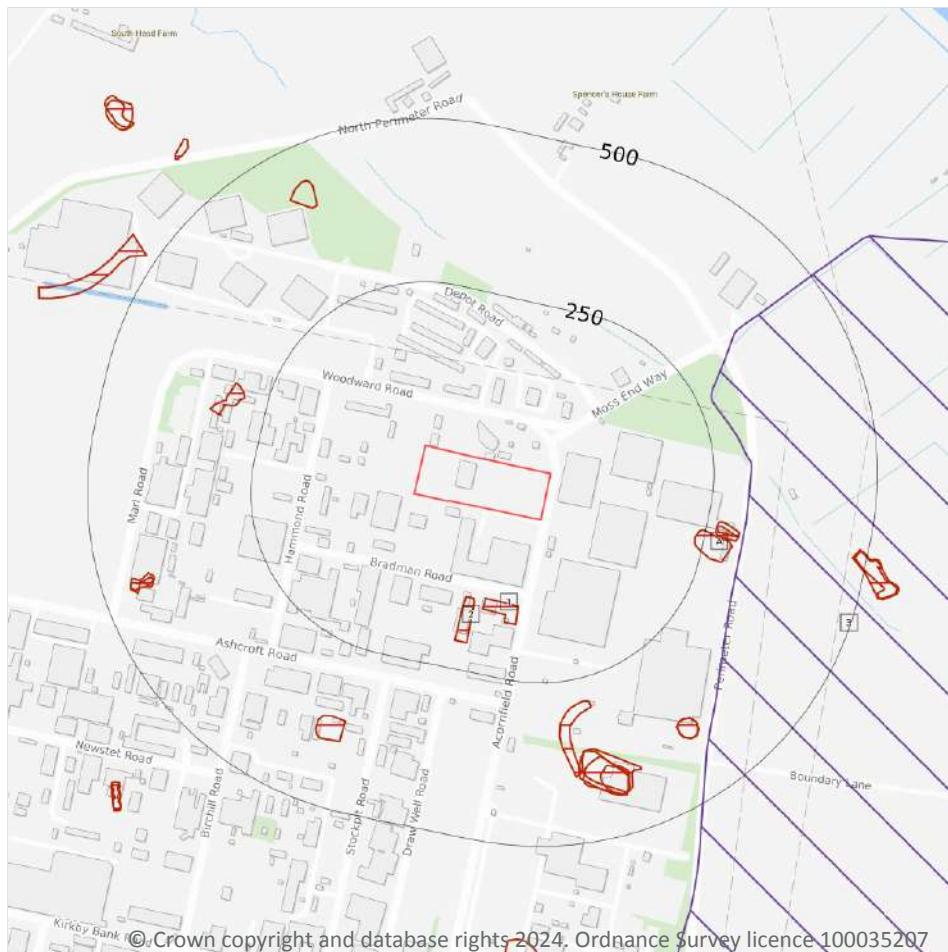
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- ▢ Surface ground workings
- ▢ Underground workings
- ▢ Underground mining extents
- ▢ Historical mineral planning areas
- ▢ TCA non-coal mining
- Non Coal Mining
- ▢ Sporadic underground mining of restricted extent possible
- ▢ Localised small scale underground mining possible
- ▢ Small scale mining possible
- ▢ Underground mining known or likely within or in close proximity
- ▢ Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

3

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

Features are displayed on the Mining and ground workings map on [page 157 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	135m S	Unspecified Heaps	1978	1:10000
2	138m S	Unspecified Heap	1978	1:10000
A	236m E	Marl Pit	1907	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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

Features are displayed on the Mining and ground workings map on [page 157 >](#)



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	271m E	Rainford Road	Sand	Surface mineral working	Valid	10/3/47

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of



risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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

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

18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

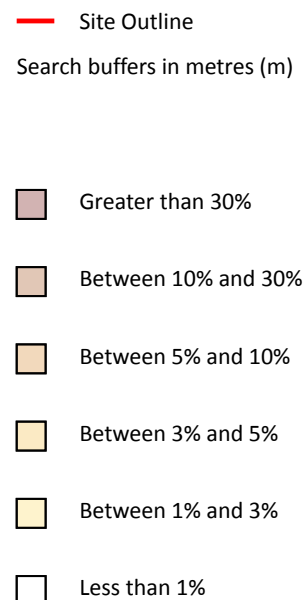
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 164](#) >

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



This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
21m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

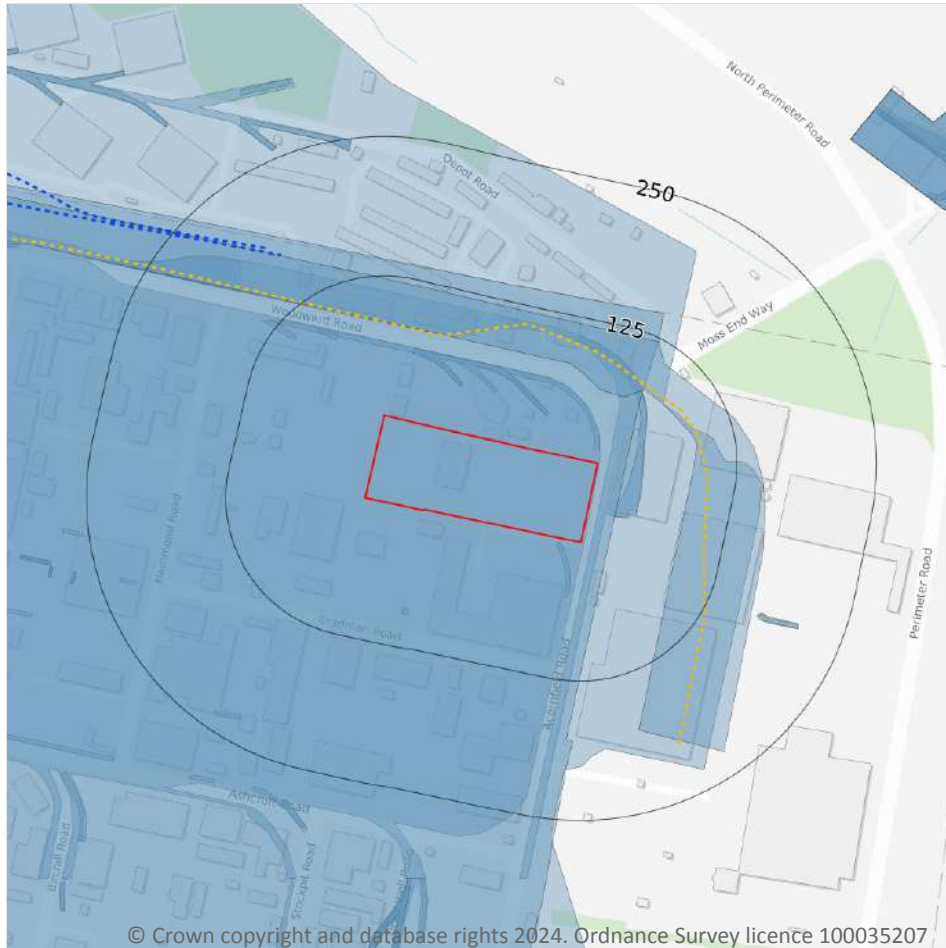
0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

17

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

Features are displayed on the Railway infrastructure and projects map on [page 167](#) >

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1962	2500
On site	Railway Sidings	1966	10560
On site	Railway Sidings	1978	10000
4m SE	Railway Sidings	1962	1250
12m E	Railway Sidings	1971	1250
24m E	Railway Sidings	1962	1250
33m NE	Railway Sidings	1962	1250
64m NE	Railway Sidings	1956	10560
80m NW	Railway Sidings	1962	1250
89m SW	Railway Sidings	1971	1250
104m NW	Railway Sidings	1962	1250
170m NW	Railway Sidings	1962	1250
171m SE	Railway Sidings	1992	1250
173m SE	Railway Sidings	1994	1250
218m W	Railway Sidings	1962	1250
225m SW	Railway Sidings	1986	1250
239m N	Railway Sidings	1962	1250



This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

1

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

Features are displayed on the Railway infrastructure and projects map on [page 167 >](#)

Location	Description
82m NW	Razed

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

3

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

Features are displayed on the Railway infrastructure and projects map on [page 167 >](#)

Location	Name	Type
171m NW		rail
184m NW		rail
236m NW		rail

This data is sourced from Ordnance Survey and OpenStreetMap.



22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



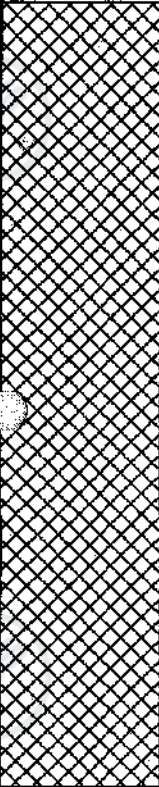
Data providers

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

Terms and conditions

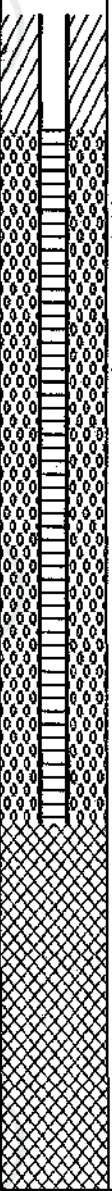
Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH104		PAGE 1 OF 1		
	NUMBER	TYPE					DRILLING DATES: 2/3/01	DRILLING METHOD: Window Sample	DRILLER: GPS	BOREHOLE DIAMETER: 150mm	LOGGED BY: CJK
	BH104 0.4-0.5m PSD, TOC, VOC, SVOC, TPH	X	*3.6		0	MADE GROUND: Concrete.				0	
					0.5	MADE GROUND: Loose coarse gravel.				Damp. NVO.	0.5
						MADE GROUND: Firm clayey sand with much gravel, cobbles and builders sand.				Damp. NVO.	
					1.0	Firm - stiff orange brown silty CLAY with some angular clasts of sandstone and slate.				Dry. NVO.	1.0
					1.5						1.5
			*2.7		2.0					2.0	
					2.5						2.5
			*0.5		3.0	Stiff very stiff very stiff dark brown silty clay with some coal fragments and roots.				Dry. NVO.	3.0
					3.5						3.5
					4.0						4.0
					4.5						4.5
					5.0	Borehole completed at 3.0mbgl.					5.0

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination.	☒ Disturbed Sample	Job Title	Phase I & II Investigation
No temporary installation.	☐ Undisturbed Sample	Location	KIRKBY, MERSEYSIDE
	* Headspace Analysis	Client	CLARIANT
	† Down Borehole Analysis	App'd: LCT	Drawn: RH
	▽ Groundwater Table	Date:	NOV 2001
	▽ Perched Water Table	Ref:	CJK/RH/MCH
		Scale:	AS SHOWN
		Job No:	47085-003-420
		Dr. Size:	A4
			BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH202		PAGE 1 of 2	
	NUMBER	TYPE				DRILLING DATES: 11/4/01	DRILLING METHODS: Hollow Stem Auger	DRILLER: Cape Site Services	BOREHOLE DIAMETER: 115mm
	0.8-1.2 TPH VOC	X	*39.2	0.0	TOPSOIL : Loose black sand with some coarse sand and fine gravels, cobbles (up to 6cm), some red brick (2mm-40mm), some black ash and some light grey limestone ballast (2mm-70mm.)	Damp, NVO	0.0		
			X	*48.2	0.5	MADE GROUND: Medium dense dark brown/black sandy gravel with rare soft clay and some red brick fragments (up to 1cm.)	Damp, NVO	0.5	
				X	*45.6	1.0	MADE GROUND: Medium dense dark brown/black silty sandy clayey soil with some red brick fragments (up to 5cm) and rare dark red/brown wood.	Damp, black staining. Slight Hydrocarbon odour.	1.0
					*44.7	1.5	Soft/firm light brown/red silty sandy CLAY with some fine gravel.	Damp, slight black staining. Slight Hydrocarbon odour.	1.5
			*11.3	2.0	Soft/firm light brown CLAY with some coarse/medium gravel. (Boulder Clay).	Dry, NVO	2.0		
				3.0	Firm light brown CLAY with some coarse/medium gravel. (Boulder Clay).		3.0		
				4.0			4.0		
				4.5			4.5		
				5.0			5.0		

LOCATION / NOTES:

NVO = No visual or olfactory evidence of contamination

Borehole dry.

LEGEND

- Disturbed Sample
- Undisturbed Sample
- Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

BOREHOLE LOG

Job Title: Phase II Investigation and Risk Assessment

Location: Kirkby, Merseyside

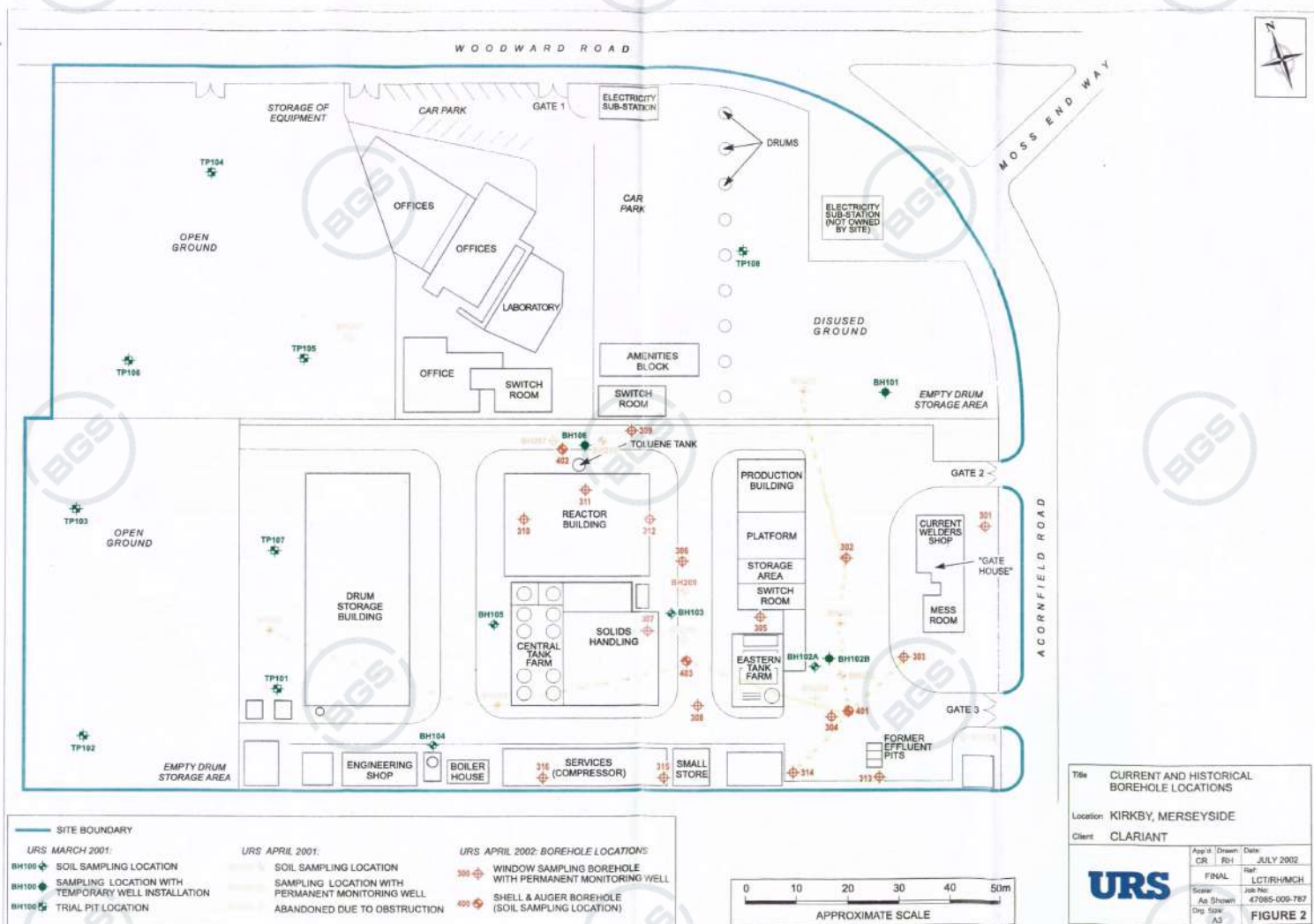
Client: Clariant



App'd: SFM	Date: APR 2001
Drawn: AFF	Ref: AFF/BHT/MC
Scale: As Shown	Job No: 47085-004
Drig. Size: A4	BOREHOLE LOG

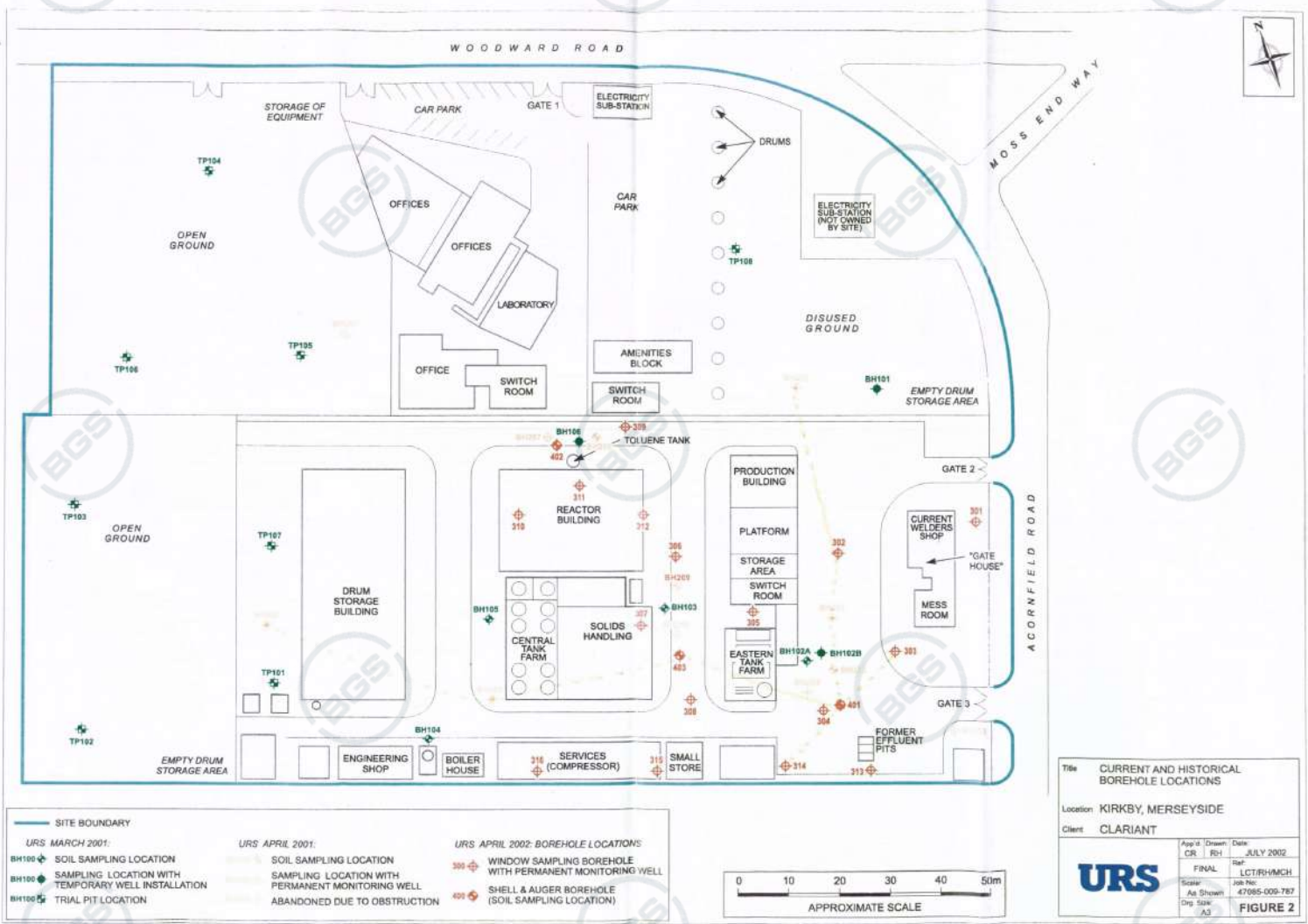
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH202		PAGE 2 of 2		
	NUMBER	TYPE					DRILLING DATES: 11/4/01	DRILLING METHODS: Hollow Stem Auger	DRILLER: Cape Site Services	BOREHOLE DIAMETER: 115mm	LOGGED BY: M.J.Logan
					5.5						
					6.0	Soft light brown CLAY with some coarse gravel and rare silt.(Boulder Clay).		Slightly damp,NVO			
					6.5	Soft/firm light brown CLAY with some coarse gravel.(Boulder Clay).		Dry,NVO			
					7.0						
					7.5	Soft light brown CLAY with some silt,fine sand and coarse gravel.(Boulder Clay).		Slightly damp,NVO			
					8.0						
				8.5	Very soft light brown CLAY with some fine sands and rare coarse gravel.(Boulder Clay).		Very damp,NVO				
				9.0	Borehole completed at 9.0mbgl.						
					9.5						
					10.0						

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: Phase II Investigation and Risk Assessment Location: Kirkby,Merseyside Client: Clariant 	
Borehole dry.		App'd: SFM Drawn: AFF Scale: As Shown Org. Size: A4	Date: APR 2001 Ref: AFF/BHT/MC Job No: 47085-004 BOREHOLE LOG



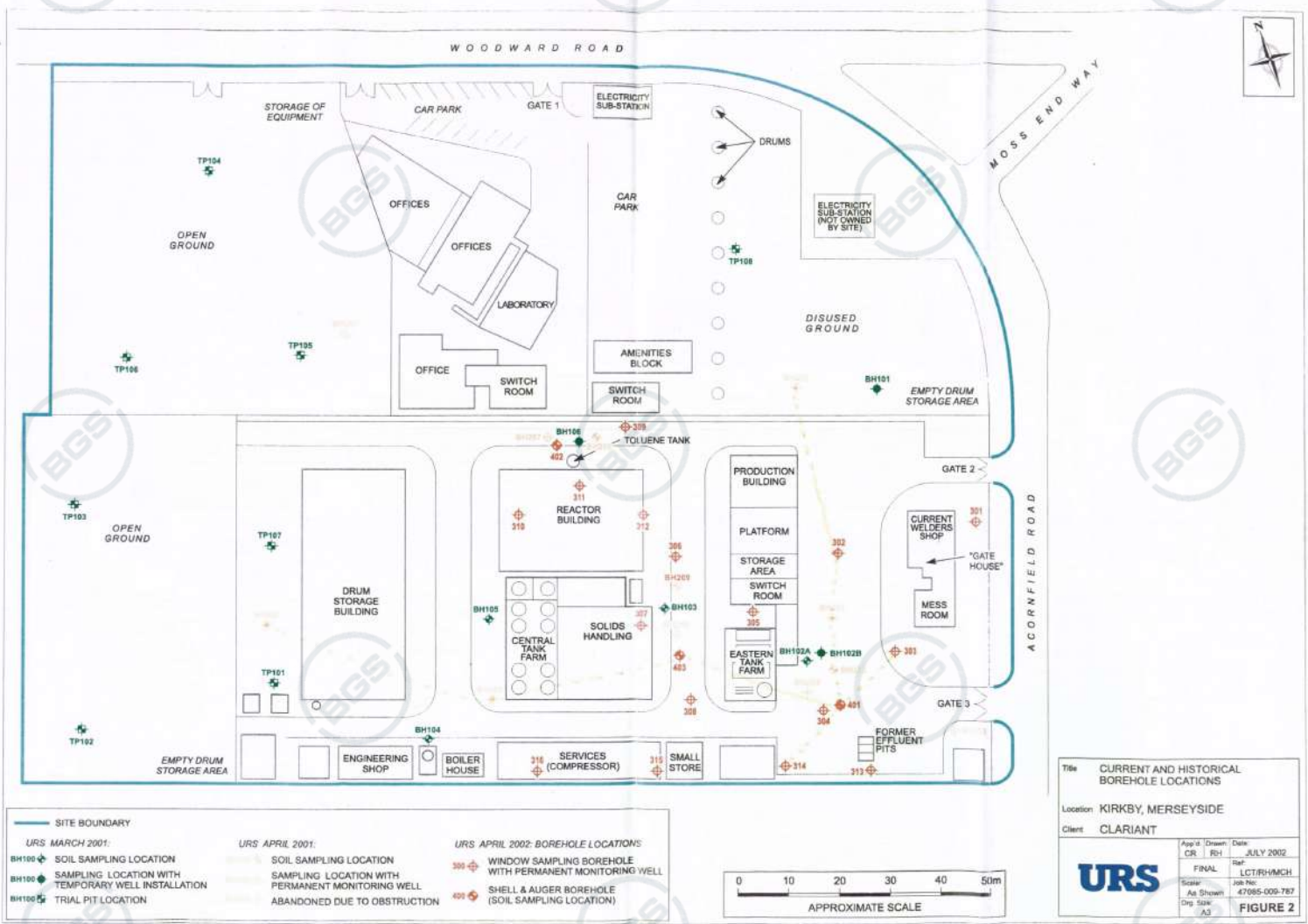
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH301		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 23 April 2002	DRILLING METHODS: Window Sampling	DRILLER: Cape	BOREHOLE DIAMETER: 70-100mm
	BH301	0.5-0.7m - TPH, VOCs, Phenols	*0.0	*0.0	0.0	MADE GROUND: Grass covered light brown topsoil.	Dry, NVO.	0.0		
					0.5	MADE GROUND: Soft / firm dark brown silty sandy reworked clay and occasional soil.	Dry, NVO. Dry, NVO.	0.5		
					1.0	MADE GROUND: Dense orange and black granular fill with abundant orange brick fragments, abundant black gravelly ash, rare black silty clay, frequent medium and coarse sand, some fine gravel and occasional black shiny coal.	Dry, NVO.	1.0		
					1.5	Soft / firm, light brown silty CLAY with occasional fine sand and occasional fine gravel.		1.5		
					2.0	Becoming firm to stiff. Stiff light brown silty CLAY with rare fine gravel.	Dry, NVO. Dry, NVO.	2.0		
					2.5			2.5		
					3.0	Firm to stiff light brown silty CLAY with rare fine gravel.	Dry, NVO.	3.0		
					3.5			3.5		
					4.0	Borehole completed at 4.0m.		4.0		
					4.5			4.5		
5.0			5.0							

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: Additional Soil and Groundwater Investigation Location: Kirby, Liverpool Client: Clientant	
			App'd: _____ Date: May 2002 Drawn: KW Ref: KW/MLAACH Scale: As Shown Job No: 47085-009-787 Dwg. Size: A4 BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH312		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 23 April 2002	DRILLING METHODS: Window Sampling	DRILLER: Cape	BOREHOLE DIAMETER: 70-100mm
	BH312 0.5-0.7m - TPH, VOCs, Phenols	X	*2885		0.0	MADE GROUND: Reinforced concrete hardstanding.	Damp, moderate odour. Black staining, strong odour.	0.0		
					0.5	MADE GROUND: Medium dense light grey medium and coarse gravel limestone hardcore with some fine gravel, some fine coarse sand and occasional cobbles up to 5cm. Abundant crushed orange brick hardcore with depth.		0.5		
					1.0	Soft / firm light brown silty CLAY with some orange and grey silt mottling, occasional fine gravel and rare medium gravel. Becoming dark brown and firm.		1.0		
					1.5	Firm / stiff dark brown silty CLAY with some fine gravel and rare medium gravel.		1.5		
					2.0	Borehole completed at 3.0m.		2.0		
	BH312 2.55-2.95m - TPH, Phenols		*348		2.5			2.5		
					3.0			3.0		
					3.5			3.5		
					4.0			4.0		
					4.5			4.5		
					5.0			5.0		

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	 Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table	Job Title: Additional Soil and Groundwater Investigation Location: Kirkby, Liverpool Client: Clarant	
			App'd: _____ Date: May 2002 Drawn: KW Ref: KW/M/L/MCH Scale: As Shown Job No: 47085-009-787 Dwg. Size: A4 BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH401		PAGE 1 OF 3		
	NUMBER	TYPE					DRILLING DATES: 25 April 2002	DRILLING METHODS: Cable Percussion	DRILLER: W. Porter	BOREHOLE DIAMETER: 150mm	LOGGED BY: MC
	BH401	X	*1.0		0.0		MADE GROUND: Reinforced Concrete.		Stained at top 10cm Slight odour noted	0.0	
					0.5		MADE GROUND: Dark brown / black very sandy angular gravel composed of limestone, ash, brick and wood.			0.5	
					1.0		MADE GROUND: Dark brown / black gravelly organic silt / sand. The gravel is angular fine to coarse and composed of sandstone, mudstone, brick and wood. Perched water encountered at 0.7m with an odour.			1.0	
					1.5		Stiff brown slightly silty, slightly gravelly CLAY. The gravel is subangular to rounded fine to medium and composed of sandstone and mudstone with occasional organics.			1.5	
					2.0					2.0	
					2.5					2.5	
					3.0					3.0	
					3.5					3.5	
					4.0					4.0	
					4.5					4.5	
					5.0					5.0	
LOCATION / NOTES: NVO = No visual or olfactory evidence of contamination Backfilled with grout following sampling.							LEGEND  Disturbed Sample  Undisturbed Sample  Headspace Analysis  Down Borehole Analysis  Groundwater Table  Perched Water Table		BOREHOLE LOG Job Title: Additional Soil and Groundwater Investigation Location: Kirkby, Liverpool Client: Clariant 		App'd: _____ Date: May 2002 Drawn: KYW Ref: KWMCMCH Scale: As shown Job No: 47085-009-787 Drg. Size: A4 BOREHOLE LOG



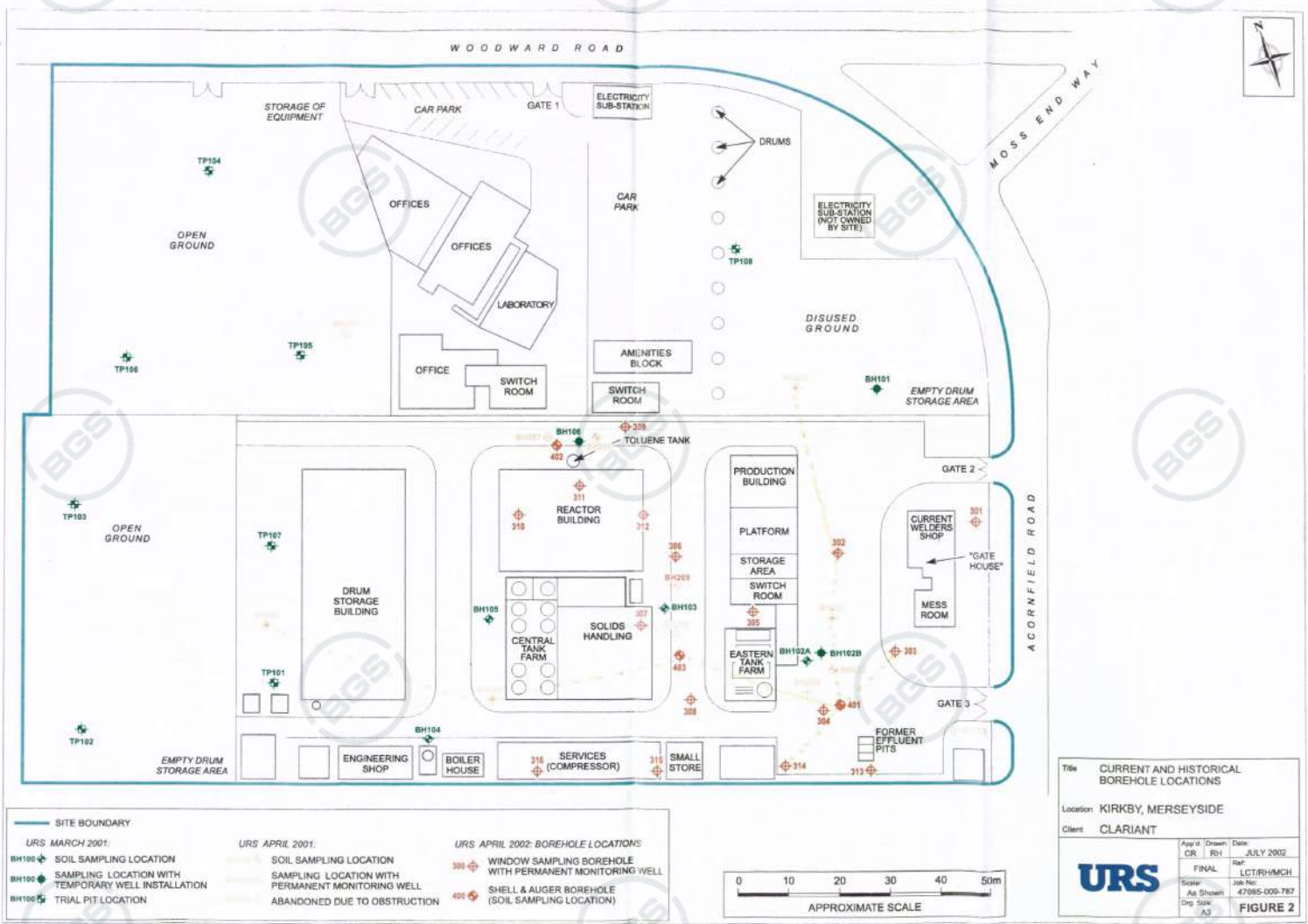
BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH401		PAGE 2 OF 3	
	NUMBER	TYPE					DRILLING DATES: 25 April 2002	DRILLING METHODS: Cable Percussion		
							DRILLER: W. Porter	BOREHOLE DIAMETER: 150mm		
							LOGGED BY: MC	SCREEN TYPE & DIAM: N/A		
							CHECKED BY: LT	SCREEN SLOT SIZE: N/A		
	BH401 6.5-7.0m - TPH, SVOCs, VOCs, Phenols	X	*0.0				Gravel becoming fine to coarse.		COMMENTS	
									5.5	
									6.0	
									6.5	
							Firm to stiff orange brown sandy slightly gravelly CLAY. The gravel is subangular to subrounded fine to coarse and composed of sandstone and mudstone.		NVO	
									7.0	
									7.5	
									8.0	
							Brown SAND with occasional firm clay bands and fine to coarse gravel bands.		NVO	
									8.5	
									9.0	
									9.5	
									10.0	

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	Disturbed Sample	Job Title: Additional Soil and Groundwater Investigation	
Backfilled with grout following sampling.	Undisturbed Sample	Location: Kirby, Liverpool	
	Headspace Analysis	Client: Clariani	
	Down Borehole Analysis		
	Groundwater Table		
	Perched Water Table		
		App'd:	Date: May 2002
		Drawn: KW	Ref: KWMCMCH
		Scale: As shown	Job No: 47085-009-787
		Dwg. Size: A4	BOREHOLE LOG



BOREHOLE CONSTRUCTION	SAMPLE		SOIL VAPOUR (ppm)	GROUNDWATER DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: BH401	PAGE 3 OF 3
	NUMBER	TYPE					
						DRILLING DATES: 25 April 2002	DRILLING METHODS: Cable Percussion
						DRILLER: W. Porter	BOREHOLE DIAMETER: 150mm
						LOGGED BY: MC	SCREEN TYPE & DIAM: N/A
						CHECKED BY: LT	SCREEN SLOT SIZE: N/A
				10.5	Red brown fine to coarse gravelly SAND with angular gravel of sandstone (Sherwood Sandstone).	COMMENTS	
				11.0	Borehole terminated at 10.5m.		
				11.5			
				12.0			
				12.5			
				13.0			
				13.5			
				14.0			
				14.5			
				15.0			

LOCATION / NOTES:	LEGEND	BOREHOLE LOG	
NVO = No visual or olfactory evidence of contamination	Disturbed Sample	Job Title: Additional Soil and Groundwater Investigation	
Backfilled with grout following sampling.	Undisturbed Sample	Location: Kirby, Liverpool	
	Headspace Analysis	Client: Clariant	
	Down Borehole Analysis	App'd:	Date: May 2002
	Groundwater Table	Drawn: KW	Ref: KW/MCMCH
	Perched Water Table	Scale: As shown	Job No: 47085-009-787
		Org. Size: A4	BOREHOLE LOG



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