



INVESTIGATE



REMEDiate



REGENERATE



DESK STUDY WITH WALKOVER SURVEY

**FOR
ACORNFIELD ROAD,
KNOWSLEY INDUSTRIAL PARK,
KNOWSLEY,
MERSEYSIDE,
L33 7UG**

**PREPARED FOR
STOPFORD PROJECTS LIMITED**

**REPORT NO. 7177
MAY 2021**

SUB SURFACE NORTH WEST LIMITED

3 Peel Street
Preston
Lancashire
PR2 2QS

Tel: (01772) 561135 Fax: (01772) 204907

Email: preston@subsurface.co.uk

Website: www.subsurface.co.uk



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EXECUTIVE SUMMARY

This executive summary is a brief summary only and should be read in conjunction with the full report.

Section	Subject	Summary
Site Details	Site Address	Acornfield Road, Knowsley Industrial Park, Knowsley, Liverpool, Merseyside, L33 7UG.
	Grid Reference	343758E 399348N.
	Current Land Use	Vacant land.
	Proposed Development	Electricity generators.
Site History	On Site	Undeveloped until 1940 then part of ROF Kirkby, becoming part of Kirkby Industrial estate by 1955. Site used as oil storage depot by 1971 and later as a chemical works. Vacant since 2013.
	Beyond Site Boundary	Chemical storage depot to the west, haulage depot to the south and on opposite side of Acornfield Road, and to the north by a fencing and hoarding depot.
Geological and Mining Appraisal	Made Ground	No made ground is indicated to be present. However, as the site has previously been developed and remediated using ex-situ techniques we would expect some made ground to be present.
	Superficial Geology	Low to high permeability sand of the Shirdley Hill Sand Formation.
	Bedrock Geology	High permeability sandstone of the Chester Formation.
	Radon	No radon protection measures are required.
	Mining	Negligible risk.
	Subsidence Hazards	Negligible to very low risk.
Environmental Appraisal	Landfill Sites	No historical, active or recently closed landfill sites within 250m. Infilled pond 70m to north east and marl pit 230m to east.
	Hydrogeology	Secondary A Aquifer in superficial deposits and Principal Aquifer in bedrock.
	Hydrology	Possible culverted watercourse 35m to the east.
	Flood Risk	A Flood Risk Assessment will be required.
	Industrial Land Uses	Previously occupied by an oil depot then chemical works and chemical containers currently stored at western end of site. Existing chemical works to the west, haulage depot to south and various industrial properties in surrounding area.
	Other Relevant Details	
Recommendations	An intrusive ground investigation is required to assess the ground conditions. The ground investigation should also obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analyses.	
	It is anticipated that the ground investigation will focus primarily on areas outside of the areas previously remediated, with a nominal investigation undertaken with the remediated zones to confirm no further contamination has occurred since the time of the 2016 works and to check for the presence of mobile volatile contamination.	
Other Considerations (for Warranty Providers, Building Control, Structural Engineers, Developers, etc.)	Listed below are various items that are likely to be required at some point during the development and it would be cost effective to have them carried out simultaneously. This is not an exhaustive list. • Boreholes and laboratory testing to assess the ground conditions for foundation design. • BRE Digest 365 Soakaway Tests. • Waste Classification and WAC testing for removal of waste to landfill. • CBR Testing for road design and construction. • Water Pipeline Risk Assessment.	

**DESK STUDY WITH WALKOVER SURVEY FOR ACORNFIELD ROAD,
KNOWSLEY INDUSTRIAL PARK, KNOWSLEY, LIVERPOOL, MERSEYSIDE, L33
7UG**

CLIENT: STOPFORD PROJECTS LIMITED

1. INTRODUCTION

This report has been prepared in accordance with Purchase Order No. 2818 dated 22nd February 2021 from the Client.

The brief was set out in our estimate, ref. E4708A and dated 11th February 2021, and comprises a walkover survey and a desk study report including a review of previous data, historical, geological, mining and environmental appraisals together with a conceptual ground model.

1.1 Site Location and Description

The site is located off Acornfield Road in the north eastern part of Knowsley Industrial Park, in Knowsley, Merseyside as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 343758E, 399348N.

As shown on Figure 2, the rectangular shaped site measures some 0.82ha (113m by 70m), and forms the eastern part of the Syntor Fine Chemicals (SFC) properties.

The SFC property is bound to the east by Acornfield Road, to the north by a fencing and hoarding depot, to the south by a haulage depot, and to the west by a construction plant and modular building hire depot. The site comprises the land to the east of the existing SFC storage warehouse and is currently vacant.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is proposed to redevelop the land for electricity generation as shown on Figures 3 and 4. We understand that on completion the site will be unmanned with occupation limited to occasional maintenance visits.

The purpose of the desk study is to obtain information regarding the sites historical, geological and environmental setting in order to produce a conceptual ground model, to assess the ground conditions, to undertake a preliminary assessment of contamination sources, pathways and receptors relating to potential hazards that exist or will potentially exist on the site and to assess the need for ground investigation.

1.3 Walkover Survey

The walkover survey was undertaken on the 12th March 2021. Surface features observed were recorded on a plan of the site together with the positions and directions of photographs taken. The resulting Walkover Survey Plan and site photographs are appended.

At the time of the walkover survey the area of investigation comprised a flat vacant parcel of land. The ground surface comprised areas of gravel and areas of concrete hard standing (including old floor slabs), and was overgrown in places. Some demolition rubble was present on the periphery. Remnant features of old building foundations were present in the central and southern parts and a small structure, possibly a former electricity substation was present in the south east corner.

There was some standing water on the hardstanding/slab in the western part of the property. The water was clear with no sheen and appeared to be trapped rainwater and not indicative of a high groundwater table.

Numerous oil/chemical drums and IBC containers were stacked on wooden pallets along side the warehouse to the west of the site. The content labels on the containers, where present, were faded and unreadable, however flammable, toxic and corrosive warning labels were visible on some of the drums. There was some indeterminate staining of the concrete below the drums.

A lockup container and a skip were present in the south western quadrant, and a lockup shipping container was present adjacent to the southern corner of the warehouse. A pipe, probably water supply, was present in the north eastern corner of the site.

Other than the indeterminate staining of the concrete in the area of the drums, no visual or olfactory contamination was noted during the walkover survey.

2. DESK STUDY

2.1 Review of Previous Reports

A Remediation Verification Report Ref. 17223i2 dated 6th November 2017 was undertaken by Amec Foster Wheeler Environment and Infrastructure Limited in respect of remediation works undertaken by Celtic Technologies Limited. A copy of the report has been provided by the Client.

The report includes a review of previous remedial works, details of the remediation methodology employed by Celtic Technologies Limited and an assessment of the final site condition.

2.1.1 Previous Remedial Works

According to the verification report the site had been subjected to two previous phases of remediation prior to the Celtic Technologies Limited remediation works, both undertaken in the southern eastern part of the site in a zone referred to as Area A.

The first phase was carried out some time prior to 2004 whilst the site was operated by Clariant UK Limited and comprised the following:

- The complete removal of two concrete filled underground storage tanks
- A limited over-dig to remove the most contaminated soils from around the tanks, together with breaking out the structure prior to offsite disposal.
- Oxygen Release Compound was applied to the basal soils to facilitate the breakdown of any residual contamination.

The second phase of remediation was undertaken by URS in 2004 and comprised the following:

- The excavation and removal of contaminated soils within three hotspot areas within Area A
- The recovery, treatment and disposal of groundwater inflows during the excavations
- The containment of future inflow of groundwater through the provision of a collection trench around Area A
- Re-instatement of hardstanding across Area A to minimise future infiltration and leaching

The total volume of material removed was estimated to be approximately 680m³ and included some 410m³ of contaminated soils. The excavations were backfilled with imported inert clay to the natural clay stratum then Class 1 granular fill to ground level.

According to the Remediation Verification Report Ref. 17223i2 the above works were detailed in a report produced by URS, however no copy was available at the time of writing this report.

2.1.2 Part IIA Assessment

Amec Foster Wheeler subsequently undertook a Part 2A Assessment which determined that despite the previous remediation works significant contamination linkages possibly remained. The assessment concluded that contamination of perched water and subsequent impact of groundwater in the superficial deposits had occurred. The identified contaminants of concern were:

- Dichlorobenzene
- Chlorophenols
- Phenols
- Toluenes
- Xylenes
- Extractable Petroleum Hydrocarbons (EPH)
- Chlorinated Solvents

During investigation and monitoring at the site only limited elevated concentrations were found in the near surface soils when compared with commercial and industrial generic assessment criteria (GACs) and there was evidence of limited migrations into the underlying drift deposits.

According to the Verification Report a formal determination of contaminated land under Part 2A of the Environmental Protection Act 1990 was not made by either the Local Planning Authority (Knowsley Borough Council) or the Environment Agency. However, Knowsley Borough Council considered that the site may meet the definition of contaminated land under Part 2A.

The primary aim of the Celtic Technology remedial works was to mitigate the contaminated land risk sufficiently to ensure the site did not meet the definition of contaminated land under Part 2A.

2.1.3 Celtic Technology Remedial Works

Celtic Technologies undertook remedial works in 2016. According to the Verification report the programme of works was set out in a verification plan in January 2016 with amendments to the remedial targets criteria set out in a letter to the Environment Agency on 8th June 2016. The remediation programme comprised the following:

- A primary site investigation comprising six trial pits to gain a better understanding of the ground conditions.
- Enabling works including demolition rubble clearance, service clearance, borehole decommissioning, and breaking out of concrete surfacing.
- Excavation of contaminated material in two phases.
- Ex-Situ treatment of the excavated soil by biopile techniques.

The demolition rubble and concrete surface were screened, crushed where appropriate, subjected to chemical contamination to demonstrate suitability for re-use and stockpiled for re-use as infill and surface cover on completion of the project.

The locations of the two phases of remediation are shown on the appended Figure 5.

Phase 1 comprised an area measuring some 760m² and in this zone the made ground comprised mainly light grey sandy gravel impacted with black low viscosity non-aqueous phase liquid (NAPL). In this area some 300m³ of the made ground was removed for treatment along with a thin layer of the underlying natural clay strata. Dewatering was limited to small scale perched water (rainfall infiltration).

Phase 2 comprised an area of approximately 2,400m² and in this area the made ground was largely consistent with Phase 1 but with some areas thought to have been impacted by previous remediation works and general development. In this area the entire made ground was excavated for bio-treatment.

On successful completion of the treatment, material from the biopile was returned to the excavations and compacted using vibrating roller plant then capped using a combination of the site won screened concrete and demolition rubble, and imported 6F2 aggregate.

2.1.4 Final Site Condition

The verification report concluded that the remediation had been successful and that contaminant linkages between the contaminants within the soil and controlled waters have been mitigated. The report therefore opined that the site in its final condition would not be determined as contaminated land under Part 2A.

However, with regard to future development the report advised that the following constraints should be observed:

- The remediation was considered successful with regard to the shallow soils, groundwater and vapours within the zones indicated on Figure 5. However, the report highlighted the potential for unrecorded contamination outside of these areas and advised that for future buildings the adoption of vapour membranes or further assessment may be required.
- Any future development will need to ensure that site users are not exposed to soil and shallow perched groundwater as residual non-volatile contaminants and asbestos fibres may be present.

- A pipeline risk assessment will be required for any future potable water supplies and given the presence of residual organic contaminants the use of barrier pipe may be required.
- Appropriate risk assessments and methods of working will be required by groundworks contractors with respect to the risks from residual contamination and the possible presence of asbestos containing material.

2.2 Historical Appraisal

The past history of the site has been interpreted from the study of old Ordnance Survey plans supplied by GroundSure, as follows:

TABLE 1 SMALL SCALE SURVEYS

Date	Scale
1890-1892	1:10,560
1907	1:10,560
1925-1928	1:10,560
1955-1956	1:10,560
1965-1967	1:10,560
1974-1978	1:10,560
1987-1990	1:10,560
2001	1:10,000
2010	1:10,000
2021	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Scale
1867	1:2,500
1893	1:2,500
1908	1:2,500
1927	1:2,500
1960-1961	1:2,500
1959-1962	1:1,250*
1971-1976	1:1,250*
1984	1:1,250*
1992-1994	1:1,250*
1994	1:1,250*
2003	1:1,250*

* Appended extract is reproduced at 1:2,000

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1867-1893	The site is undeveloped and comprises fields.	Two residential properties/farmhouses are present some 50m to the north east (Moss End Farm) and 50m to the north of the site. A well associated with one of the properties is indicated 70m to the north of the site. Several ponds and watercourses are indicated in the surrounding area, the nearest being a pond some 70m to the north east and a watercourse 35m to the east.

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1908	No change	Moss End Farm has been extended with the construction of a barn and ancillary buildings located some 25m to the north east of the site. A marl pit is indicated 230m to the east. Most of the ponds previously depicted in the surrounding area and the watercourse previously depicted to the east are no longer shown. It is not clear whether the watercourse was culverted or diverted and the channel infilled.
1927-1928	No change.	The marl pit previously indicated to the east appears to have been infilled.
1940-1951	In 1940 the area surrounding the site was developed as Kirkby Royal Ordnance Factory (R.O.F.) and as a site of national security importance was not mapped during the war years. The R.O.F. site was operational between 1940 and 1946, and fully decommissioned by 1951.	
1955	The site now forms part of the Kirkby Industrial Estate and two bunkers are shown, one in the eastern part of the site and one straddling the western boundary.	Acornfield Road is now present adjacent to the east. The farmhouses to the north and north east have been demolished and the pond has been infilled. The land to the north west and south has been developed with bunkers and industrial buildings. Railway sidings and probable goods sheds are depicted to the east.
1960-1967	The bunkers previously depicted on site have been removed and the site has been redeveloped with a number of small buildings and ancillary structures, including three circular tanks. A railway siding is now shown crossing the eastern end of the site.	There has been extensive redevelopment of the surrounding area with industrial buildings labelled as unspecified works, factories and warehouses. Some of the industrial buildings appear to be remnant structures from the previous R.O.F site with the surrounding earth mounds removed. The railway sidings to the east and north have been re-routed slightly.
1971-1990	The site is now labelled as an oil storage depot and additional tanks are shown in the central area. The railway siding has been removed by this time.	There has been further redevelopment of the surrounding area. An electricity substation is now indicated 30m to the north. The adjacent properties are now labelled as an engineering works to the north, a builder's yard and steel drum works to the north west. A plant hire depot to the west, a paint works to the south west, and a steel partition works to the south. The railway sidings have been removed from the land to the east of the site, although a line is now shown running alongside Acornfield Road to the southern end of the industrial estate. The area of the former sidings and goods sheds has been redeveloped with the construction of unspecified industrial buildings.

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1992-2010	The tanks previously depicted on site have been removed and the western half of the site has been redeveloped with unspecified industrial buildings. The current warehouse is now depicted adjacent to the west.	Electricity substations area now indicated adjacent to the north and 55m to the north, 35m to the south, and 110m to the south west.
2021	All of the buildings and structures previously shown on site have been demolished.	The paint works previously depicted to the south west has been demolished.

Google Earth TM aerial imagery indicates that the buildings on site were demolished some time between April 2011 and March 2012.

2.3 Geological Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 14 to 17).

2.2.1 Artificial Ground (Made Ground)

Made ground (artificial deposits) is indicated to be present within the site and its immediate vicinity on the 1:50,000 scale mapping. In addition, as the site has previously been developed and remediated using ex-situ techniques we would expect some made ground to be present.

2.3.2 Superficial Geology (Drift Deposits)

The superficial deposits beneath the site are anticipated to be low to high permeability sand of the Shirdley Hill Sand Formation.

2.3.3 Bedrock Geology

The bedrock underlying the site is indicated to be high permeability sandstone of the Chester Formation. No faults are indicated in the vicinity of the site.

2.3.4 Potential Hazards in Natural Ground

The risks from on-site shrinking/ swelling clays and dissolution of soluble rocks are negligible, and the risks from running sands, compressible deposits, collapsible deposits and landslides are very low.

2.4 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 18 to 21).

2.4.1 Mining & Ground Workings

According to the Groundsure Report there are three records of historical surface ground workings within 250m of the site, the nearest being unspecified heaps some 134m to the south.

There are no records of historical underground workings within 1km of the site.

The boundaries of permitted, withdrawn and refused mineral planning permissions for England and Wales, from the 1930 to the mid 1980s, are maintained by the British Geological Survey. There is one record of historical mineral planning permission within 500m of the site of the site boundary. The record relates to sand extraction at the surface some 270m to the north east and the permission was given in 1947.

According to the report the site is not in an area affected by coal mining, natural cavities, non-coal mining, mining cavities, brine extraction, gypsum extraction, tin mining or clay mining.

2.4.2 Radon

The British Geological Survey and Public Health England have estimated the percentage of dwellings exceeding the "Radon Action Level" of 200 Becquerels/ m³ for the UK based on geological assessments and long term measurements of radon in more than 479,000 households.

The site is unlikely to be affected by radon gas as < 1% of surrounding properties are above the Radon Action Level. No radon protection measures are required.

2.4.3 Soil Chemistry

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, chromium, lead and nickel in the topsoil on the site and the data are given in the Groundsure Report.

2.4.4 Railway Infrastructure

There are no active or inactive underground railways or tunnels within 250m of the site.

There are fourteen records relating to historical railways within 250m of the site boundary, the nearest being railway sidings on site.

There are two records of active railways within 250m of the site boundary, the nearest being some 236m to the north west.

The site is not within 500m of Crossrail 1, Crossrail 2 or the High Speed 2 (HS2) rail project.

2.5 Environmental Appraisal

This following appraisal is based upon the appended Groundsure Enviro+Geo Insight Report (Sections 1 to 13).

2.5.1 Historical Industrial Land Use

Historical potentially contaminative industrial land uses are recorded by the Ordnance Survey within 250m of the site includes an industrial estate, unspecified commercial/industrial properties, railway sidings, unspecified tanks, unspecified heaps, and a marl pit.

There are eight records of historical tanks within 250m of the site, the nearest being on site.

There are twenty records of energy features within 250m of the site, the nearest being an electricity substation some 1m to the north.

There is one record of historical military land within 250m of the site. The record relates to the Kirkby Royal Ordnance Factory which occupied the area of the site between 1940 and 1946.

There are no records of historical petrol stations, or garages within 250m of the site.

2.5.2 Landfill

According to BGS, Environment Agency, and Local Authority records there are no historical, active or recently closed landfill sites within 250m of the site boundary.

2.5.3 Waste

Local Authority records and detailed Ordnance Surveys indicate there are three historical waste sites within 250m of the site, the nearest being a waste treatment and transfer facility some 89m to the south west.

According to the Environment Agency there are six records of active or recently closed waste sites within 250m of the site boundary, the records relate to three locations, the nearest being a waste treatment and transfer station some 68m to the south.

The Environment Agency and Natural Resources Wales have thirty four records of activities involving the storage, treatment, use or disposal of wastes that are exempt from needing a permit (within specific limits and conditions) within 250m of the site boundary, the records relate to seven locations, the nearest being a storage of waste exemption some 132m to the south east.

2.5.4 Current Industrial Land Use

Current potentially contaminative industrial land uses are recorded by the Ordnance Survey and Experian within 250m of the site includes electricity substations, a window leading specialist, welding services, transport and haulage depots, upholstery services, print finishing services, waste collection and recycling services, vehicle parts and accessories, tanks, publishing services, health support services, electronic equipment suppliers, electrical equipment repair and servicing, construction services and construction supplies, engineering services, tool hire services and clothing wholesalers.

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National Grid data indicates that there are currently no high voltage underground electricity transmission cables within 250m of the site boundary.

National Grid data indicates that there are currently no high pressure underground gas transmission pipelines within 250m of the site boundary.

2.5.5 Sites Determined as Contaminated Land

There are no sites determined as contaminated under Part 2A of the Environmental Protection Act (1990) within 250m of the site boundary.

2.5.6 Control of Major Accident Hazards (COMAH)

Records of Control of Major Accident Hazards (COMAH), including Notification of Installations Handling Hazardous Substances (NIHHS) and other historical data, indicate that there are seven records relating to dangerous or hazardous sites within 250m of the site boundary, the nearest being 135m to the north west.

2.5.7 Regulated Explosives Sites

Up to April 2015 there were no sites within 250m of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

The appended Unexploded Bomb Risk Map, obtained from Zetica UXO, indicates the site is in area of low potential for Unexploded Bombs (UXB) as a result of World War II bombing. However, as the site was a wartime ordnance factory and therefore a Luftwaffe target, a detailed UXO desk study and risk assessment should be obtained.

2.5.8 Hazardous Substance Storage and Usage

There are five Local Authority records of consents granted for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the 2015 Planning (Hazardous Substances) Regulations within 250m of the site boundary, the nearest relating to the storage of substances that are toxic, flammable and dangerous to the environment on the site by Syntor Fine Chemicals Limited.

2.5.9 Historical Licenced Industrial Activities (IPC)

There are twenty seven historical Integrated Pollution Control (IPC) records of substances released to the air, land and water according to the Environment Agency within 250m of the site boundary, the records all relate to two locations, the first being the manufacture and use of organic chemicals at a location 34m to the north, and the second being inorganic chemical processes some 231m to the south west.

2.5.10 Licenced Industrial Activities (Part 1(A))

The Environment Agency indicate that there are forty three records of Part 1(A) installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for release to the environment within 250m of the site boundary. All of the records relate to three locations being the use of organic chemicals on site, the use of organic compounds 34m to the north, and the treatment and storage of hazardous waste some 70m to the south.

2.5.11 Part A(2) and Part B Authorisations

Local Authority records indicate there are two Part A(2) and Part B installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for the release of substances to the environment within 250m of the site boundary, the nearest being the use of bulk cement some 220m to the west.

2.5.12 Radioactive Substance Authorisations

The Environment Agency indicate that there are no records of storage, use, accumulation and disposal of radioactive substances regulated under the 1993 Radioactive Substances Act within 250m of the site boundary.

2.5.13 Licensed Discharges to Controlled Waters

According to Environment Agency records there have been no permits to discharge treated or untreated effluent to controlled water under the 1991 Water Resources Act within 250m of the site boundary.

2.5.14 Pollutant Release to Surface Waters (Red List)

The Environment Agency records indicate that there have been no discharges of specified substances under the 1991 Environmental Protection (Prescribed Processes and Substances) Regulations within 250m of the site boundary.

2.5.15 Pollutant Release to Public Sewers

According to Environment Agency records there have been no discharges of special category effluents to public sewers within 250m of the site boundary.

2.5.16 List I and List II Dangerous Substances

The Environment Agency records indicate that there have been two discharges of substances on List I and four discharges of substances on List II of the European Directive E2006/11/EC respectively, regulated under the 2015 Environmental Damage (Prevention and Remediation) Regulations, within 250m of the site boundary, the nearest being some 39m to the north.

2.5.17 Pollution Incidents

According to the Environment Agency there are there are three records of substantiated pollution incidents within 250m of the site boundary, the nearest being a release of general biodegradable materials and wastes some 124m to the north east in 2002 which had no impact on air and water, and a significant impact on land. In our opinion the recorded pollution incidents are unlikely to have impacted on the site.

2.5.18 Pollution Inventory Substances

The Environment Agency indicate that there have been no reports on annual emissions of certain regulated substances to air, controlled waters and land above the reporting threshold within 250m of the site boundary.

2.5.19 Pollution Inventory Waste Transfers

According to the Environment Agency there has been one report on annual transfers and recovery/ disposal of controlled wastes above the reporting threshold within 250m of the site boundary. The record relates to the disposal or recovery of hazardous waste some 71m to the south.

2.5.20 Pollution Inventory Radioactive Waste

The Environment Agency indicate that there have been no reports on annual releases of radioactive substances above the reporting threshold within 250m of the site boundary.

2.5.21 Hydrogeology

The following designation of aquifers is in accordance with the Environment Agency's April 2010 Groundwater Protection Policy.

The superficial Shirley Hill Sand deposits beneath the site have been designated as a Secondary A Aquifer comprising permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The Chester Formation sandstone bedrock beneath the site has been designated as a Principal Aquifer comprising strata of high intergranular and/ or fracture permeability, usually providing a high level of water storage and may support water supply and/ or river base flow on a strategic scale.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as high (areas easily able to transmit pollution to groundwater) in the superficial deposits and low (an area providing the greatest protection from pollution) within the bedrock.

British Geological Survey and Environment Agency data indicates that the site is not within a 1km grid where solution features are present that will enable rapid movement of a pollutant to groundwater.

Environment Agency data indicates that the site is not in an area where additional local information indicates that groundwater is vulnerable to pollution.

According to data provided by the Environment Agency and Natural Resources Wales there are two surface water abstraction licences, forty one groundwater abstraction licences and two potable water abstraction licences within 2000m of the site boundary, the nearest being to the east, 316m to the south 280m, and 690m to the south west respectively.

A Source Protection Zone 3 (Total Catchment) set up to protect a potable water abstraction point is present on site.

2.5.22 Hydrology

The Ordnance Survey indicate that there are four records of watercourses (river, stream or canal) within 250m of the site boundary, the nearest being the drain some 229m to the north east. However the historical mapping indicates there may be a culverted watercourse some 35m to the east.

Environment Agency data relating to the Water Framework Directive (WFD) indicates that the site is within the management catchment of the Alt and Crossens, and the water body catchment of the Simonswood Brook which has a chemical rating of good and an ecological rating of moderate.

The groundwater body beneath the site is identified as part of the Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers and has a chemical rating of poor.

2.5.23 Flooding

Flooding data is maintained by the Environment Agency. The Risk of Flooding from Rivers and Sea (RoFRaS) database holds no data within 50m of the site.

In the period since records began in 1946, there are no records of historical floods within 250m of the site boundary.

There are no flood defences, areas benefitting from flood defences, or flood storage areas present within 250m of the site boundary.

The site is located within a Flood Zone 2 and Flood Zone 3.

According to Ambiental Risk Analytics surface water "FloodMap" there is a 1 in 30 year risk of 0.3m to 1.0m surface water flooding on the site.

Groundwater flooding is caused when the water table rises in areas where this is usually at shallow depth. Ambiental Risk Analytics indicate that there is a low risk of groundwater flooding on the site.

Given the above we anticipate that a Flood Risk Assessment will be required.

2.5.24 Environmental Designations

Natural England indicate that there are no Sites of Special Scientific Interest (SSSI), Conserved Wetland Sites (Ramsar sites), Special Areas of Conservation (SAC), Special Protection Areas (SPA), National Nature Reserves (NNR), Designated Ancient Woodlands, Biosphere Reserves, Forest Parks, Marine Conservation Zones, Proposed Ramsar Sites, possible Special Areas of Conservation (pSAC), potential Special Protection Areas (pSPA), Nitrate Sensitive Areas,

However, the site is located within 2000m of a Local Nature Reserves (LNR) (1306m to the south), and three areas designated as Green Belt Land (nearest 267m to the north east), and is within a nitrate vulnerable zone.

The site is not located within a SSSI Impact Risk Zone.

2.5.25 Visual and Cultural Designations

Historic England indicate that within 250 metres of the site boundary there are no World Heritage Sites, Areas of Outstanding Natural Beauty, National Parks, Listed Buildings, Conservation Areas, Scheduled Ancient Monuments or Registered Parks and Gardens.

2.5.26 Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site is Urban.

Natural England indicate that there are no open access land, no environmental stewardship schemes, and no countryside stewardship schemes within 250m of the site boundary.

The Forestry Commission indicate that there are no tree felling licences within 250m of the site boundary.

2.5.27 Habitat Designations

Natural England indicate that there are no priority habitats, habitat networks, open mosaic habitats or limestone pavement orders within 250m of the site boundary.

2.6 **Conceptual Ground Model**

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

2.6.1 Sources

On-Site

Potential sources of contamination identified in the desk study are:

- Operation of construction plant, machinery and vehicles during the construction process. Potential contaminants of concern would be total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MTBE).
- General contaminants in made ground derived from past building and demolition processes and materials. Potential contaminants of concern would be heavy metals including arsenic, cadmium, chromium, lead, mercury, nickel, selenium, boron, copper, zinc and phenols from building materials, polycyclic aromatic hydrocarbons (PAHs) from ash wastes, TPH, BTEX and MTBE compounds from the operation of plant and vehicles, and asbestos from insulation and roofing materials.

- Contamination from the previous land use as an oil depot then a chemical works. Potential contaminants of concern would be acids, alkalis, heavy metals (including arsenic, cadmium, chromium, mercury, chromium and copper), dioxins, amines, solvents, and phenols derived from process chemicals, TPH, BTEX from fuel and lubricants, and polychlorinated biphenyls (PCBs) derived from transformer equipment. In addition the Amec Foster Wheeler Part 2A Assessment specifically identified dichlorobenzene, chlorophenols, phenols, toluenes, xylenes, extractable petroleum hydrocarbons (EPH) as potential contaminants of concern.
- Contamination from the previous land use as railway sidings at the eastern edge of the site. Potential contaminants of concern would be polycyclic aromatic hydrocarbons (PAHs) derived from creosote used on sleepers, total petroleum hydrocarbons (TPH), BTEX and ethylene glycol derived from leakage from rolling stock, and PCB from transformer equipment if the track was electrified.
- PCB contamination if the small structure in the south east corner of the site previously housed an electricity substation.
- Contamination from the current storage of chemicals at the western end of the property. No specific chemicals were identified, however potential contaminants of concern would be similar to the list given above for the previous chemical works.

Off-Site

Potential off-site sources of contamination identified in the desk study are:

1. Migration of contamination to the site from the current adjacent chemical depot and haulage depot to the west. Potential mobile contaminants of concern would be acids, alkalis, heavy metals (including arsenic, cadmium, chromium, mercury, chromium and copper), dioxins, amines, solvents, and phenols derived from process chemicals, TPH, BTEX from fuel and lubricants.
2. Migration of PCB contamination from the adjacent substation.
3. Migration of legacy contamination derived from the former engineering works, paint works and engineering works to the north, a builder's yard and steel drum works to the north west. A plant hire depot to the west, a paint works to the south west, and a steel partition works. Potential mobile contaminants of concern would be acids, alkalis, heavy metals solvents, phenols, TPH, and BTEX derived from process chemicals, fuels and oils.
4. Landfill gas generation at the infilled pond to the north east and infilled marl pit to the east. However, given the age of infilling (prior to 1955 and 1928 respectively) we consider the risk of gas generation and migration to the site to be negligible.

2.6.2 Pathways

Potential pathways between sources and receptors for the proposed development are:

- Direct contact with and ingestion of contaminated soil.
- Inhalation of dust.
- Inhalation of vapours.
- Lateral migration of contaminants offsite.
- Vertical migration of contaminants to the underlying aquifer.
- Environmental deposition of airborne pollutants.

2.6.3 Receptors

Potential receptors for the proposed development during the construction phase are:

- Site workers during any demolition and construction phases.
- Adjacent properties, local workers, and general public.

Potential receptors for the proposed development during the post development phase:

- Maintenance workers visiting the site.
- Adjacent properties and local workers.
- The building structures and buried services including water supply pipes.
- Controlled waters including the underlying Secondary A and Principal aquifers, the possibly adjacent culverted watercourse 35m to the east.

2.6.4 Potential Pollutant Linkages

No soft landscaping is proposed and therefore regarding the end users of the site the direct contact, ingestion and dust inhalation pathways will be broken by the hard surfacing inherent in the design. In addition, as the site will be unmanned apart from occasional maintenance visits the duration of exposure by end users of the site will be very low.

Potential pollutant linkages for the proposed development during the construction phase are:

- Direct contact with and ingestion of contaminated soil and inhalation of dust by site workers during construction
- Deposition on adjacent properties of airborne dust generated during development
- Inhalation by local workers and general public of dust generated during construction and conversion.

Potential pollutant linkages for the proposed development during the post development phase:

- Inhalation of vapours by maintenance workers (the end users of the site) due to accumulation in enclosed spaces within the proposed development
- Inhalation of vapours by worker at adjacent properties due to offsite migration and accumulation in enclosed spaces
- Lateral migration offsite to the possible culverted watercourse 35m to the east
- Vertical migrations of contaminants offsite to the underlying Secondary A and Principal aquifers

As discussed in Section 2.1 a substantial part of the site has previous been subjected to remediation, and based on our understanding of the sites usages since the remediation work was undertaken, in our opinion significant contamination is unlikely to be present in the zones indicated on Figure 5. However, outside of the remediation zones some residual contamination and asbestos fibres may remain.

It should be noted that the 2017 Amec Foster Wheeler Environment and Infrastructure Limited report recommended that any future development will need to ensure that site users are not exposed to soil and shallow perched groundwater as residual non-volatile contaminants and asbestos fibres may be present and advised that the adoption of vapour membranes or further assessment may be required.

2.6.5 Conclusions

An appraisal of the sources, pathways and receptors has been considered and we have produced a conceptual ground model based upon the available information, taking into account the previous remediation work, as follows:

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Operation of vehicles, machinery and plant during construction.	TPH BTEX MTBE	Inhalation of vapours	Site Operatives during the construction phase	Moderate
		Ingestion of dust Inhalation of dust Inhalation of vapours	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Moderate
		Vertical movement of mobile contaminants to groundwater	Underlying Secondary A and Principal Aquifers	Very Low
		Lateral movement of mobile contaminants	Adjacent properties Nearby surface water (possible culvert 35m to the east)	Very Low

TABLE 4 (Cont.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contaminants in made ground derived from past construction and demolition	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH) Asbestos fibres	Ingestion of soil	Site Operatives during the construction phase	Moderate
		Dermal contact		
		Inhalation of vapours		
		Ingestion of dust	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Moderate
		Inhalation of dust		
		Inhalation of vapours		
		Ingestion of soil or dust	End Users of the site on completion of the development	Very low
		Dermal contact		
		Inhalation of dust		
		Inhalation of vapours	Vegetation growing in soft landscaped areas	Low
		Uptake via contaminated groundwater		
		Vertical movement of mobile contaminants to groundwater		
		Lateral movement of mobile contaminants in groundwater and deposition of dust and airborne particulates	Adjacent properties Nearby surface water (possible culvert 35m to the east)	Very Low
		Direct contact	Structures and Services	

TABLE 4 (Cont.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contamination from the previous land use as an oil depot then a chemical works, and current storage of chemicals at western end of the property.	Acids Alkalies Amines BTEX Chlorophenols Dichlorobenzene Dioxins Heavy metals PCBs Phenols Solvents TPH	Ingestion of soil Dermal contact Inhalation of vapours	Site Operatives during the construction phase	Very low in previously remediated zones, low to moderate elsewhere on site.
		Ingestion of dust Inhalation of dust Inhalation of vapours	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Very low in previously remediated zones, low to moderate elsewhere on site.
		Ingestion of soil or dust Dermal contact Inhalation of dust Inhalation of vapours	End Users of the site on completion of the development	Very low
		Uptake via contaminated groundwater	Vegetation growing in soft landscaped areas	Moderate
		Vertical movement of mobile contaminants to groundwater	Underlying Secondary A and Principal Aquifers	Moderate
		Lateral movement of mobile contaminants in groundwater and deposition of dust and airborne particulates	Adjacent properties Nearby surface water (possible culvert 35m to the east)	Moderate
		Direct contact	Structures and Services	Very low in previously remediated zones, low to moderate elsewhere on site

TABLE 4 (Cont.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contamination from the previous land use as railway sidings at the eastern end of the site.	PAHs TPH BTEX Ethylene glycol PCBs Solvents TPH	Ingestion of soil Dermal contact Inhalation of vapours	Site Operatives during the construction phase	Low
		Ingestion of dust Inhalation of dust Inhalation of vapours	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Low
		Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	End Users of the site on completion of the development	Very Low
		Uptake via contaminated groundwater	Vegetation growing in soft landscaped areas	Low
		Vertical movement of mobile contaminants to groundwater	Underlying Secondary A and Principal Aquifers	Low
		Lateral movement of mobile contaminants in groundwater and deposition of dust and airborne particulates	Adjacent properties Nearby surface water (possible culvert 35m to the east)	Low
		Direct contact	Structures and Services	Low

TABLE 4 (Cont.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Contamination derived from the leakage or spillage of transformer fluids at electricity substations adjacent to, and possibly on site.	PCBs	Ingestion of soil Dermal contact Inhalation of vapours	Site Operatives during the construction phase	Low
		Ingestion of dust Inhalation of dust Inhalation of vapours	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Low
		Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	End Users of the site on completion of the development	Very Low
		Uptake via contaminated groundwater	Vegetation growing in soft landscaped areas	Low
		Vertical movement of mobile contaminants to groundwater	Underlying Secondary A and Principal Aquifers	Low
		Lateral movement of mobile contaminants in groundwater and deposition of dust and airborne particulates	Adjacent properties Nearby surface water (possible culvert 35m to the east)	Low
		Direct contact	Structures and Services	Low

TABLE 4 (Cont.)

Potential Source	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Migration to the site from past and current off-site potentially contaminative industrial properties	Acids Alkalis Amines BTEX Dioxins Heavy metals Phenols Solvents TPH	Inhalation of vapours	Site Operatives during the construction phase	Low
		Inhalation of vapours	Site Operatives, Local workers at off-site properties, and passers-by during the construction phase	Low
		Inhalation of vapours	End Users of the site on completion of the development	Very Low
		Uptake via contaminated groundwater	Vegetation growing in soft landscaped areas	Low
		Vertical movement of mobile contaminants to groundwater	Underlying Secondary A and Principal Aquifers	Low
		Direct contact	Structures and Services	Low

The conceptual ground model indicates that intrusive ground investigation is required to assess the ground conditions. The ground investigation should also obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analyses.

It is anticipated that the ground investigation will focus primarily on areas outside of the area previously remediated, with a nominal investigation undertaken within the remediated zone to confirm no further contamination has occurred since the time of the 2016 works and to check for the presence of mobile volatile contamination.

2.6 General

No consideration has been given to flora and fauna as this was outside our brief.

This Phase I walkover survey and desk study is to be followed by a Phase II ground investigation. It should be noted that dependent upon the findings of the ground investigation a Phase III remediation statement and Phase IV validation with report may be required.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Miss Anna Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 7177
MAY 2021

D. Ravenscroft-Jones Cert Nat Sci (Open), BSc.(Hons.), MSc., CEnv, AMRSC, MEnvSc
Senior Geoenvironmental Engineer
For and on behalf of
Sub Surface Consultants Limited

C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table based on CIRIA C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' has been used when developing the Conceptual Ground Model and the preliminary risk ratings. The method requires an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring to formulate a preliminary risk rating (Table A).

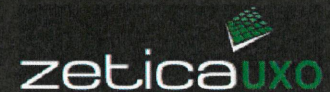
Table A DESCRIPTION OF RISK AND LIKELY ACTION REQUIRED

Preliminary Risk Rating	Action Required
Very High Risk	Extensive Ground Investigation Required. There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High Risk	Extensive Ground Investigation Required. Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate	Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long-term.
Low Risk	Nominal Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	No Ground Investigation Required.* There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.
Negligible Risk	No Ground Investigation Required.* There is a very low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

* No further action is required unless unforeseen contaminated ground conditions are encountered.

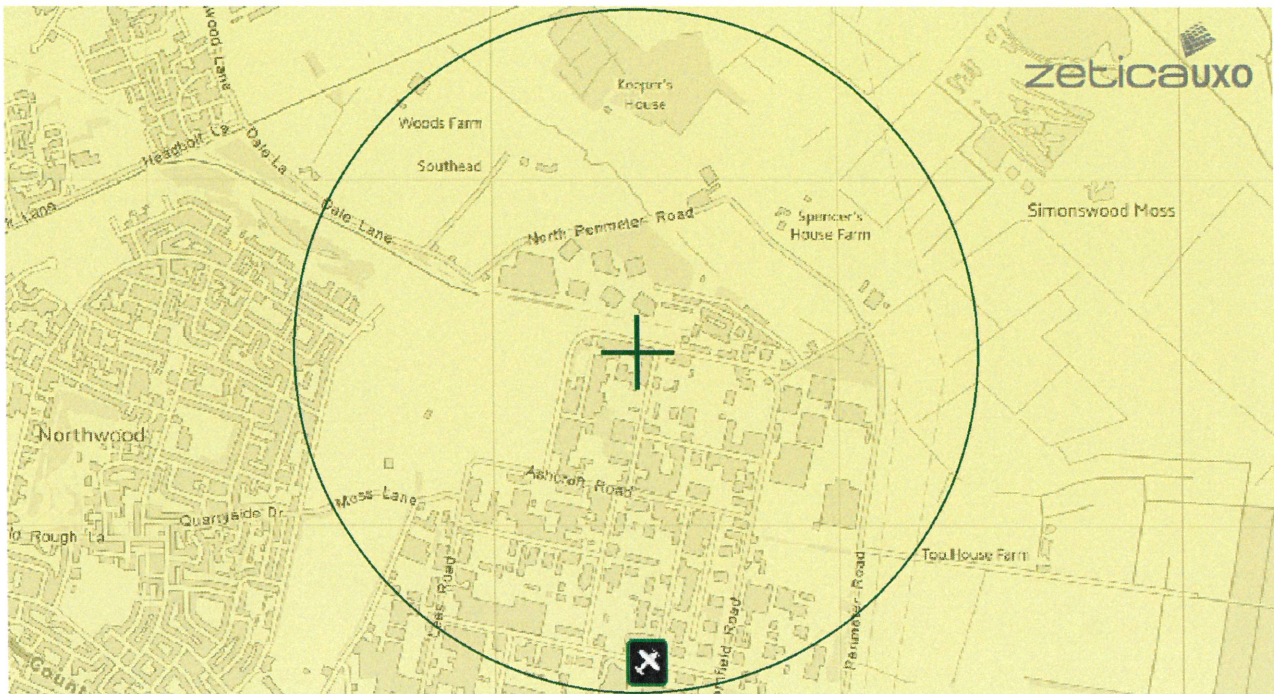
UXO BOMB RISK MAP

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Location: L33 7UZ,
Map Centre: 343427,399504



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: +44 (0) 1993 886682

email: uxo@zetica.com

web: www.zeticauxo.com

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

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

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

PHOTOGRAPHS



SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Photographs

Site: ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, MERSEYSIDE, L33 7UZ

Client: STOPFORD PROJECTS LIMITED

Engineer:

Job Number:

7177

Sheet:

1/3

Survey Date:

12/03/21

WALKOVER SURVEY PHOTOGRAPHS

1



2



3



4



5



6



 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site: ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, MERSEYSIDE, L33 7UZ			Job Number: 7177
Client: STOPFORD PROJECTS LIMITED			Sheet: 2/3
Engineer:			Survey Date: 12/03/21

WALKOVER SURVEY PHOTOGRAPHS

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9



10



11



12





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7177

Sheet:

3/3

Survey Date:

12/03/21

WALKOVER SURVEY PHOTOGRAPHS

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15



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ENVIRO+GEO INSIGHT REPORT

Knowsley Industrial Park, Acorn Field Road, Knowsley, L33 7UZ

Order Details

Date: 23/02/2021
Your ref: 4199
Our Ref: CMAPS-CM-940903-4199-230221EDRGEO
Client: CENTREMAPS

Site Details

Location: 343758 399348
Area: 0.82 ha
Authority: [Knowsley Metropolitan Borough Council](#)



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Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	9	0	7	14	-
15	1.2	Historical tanks	5	0	3	32	-
17	1.3	Historical energy features	0	7	13	11	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
19	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
20	2.1	Historical industrial land uses	11	0	8	18	-
22	2.2	Historical tanks	7	0	7	39	-
24	2.3	Historical energy features	0	14	21	20	-
26	2.4	Historical petrol stations	0	0	0	0	-
27	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
28	3.1	Active or recent landfill	0	0	0	1	-
29	3.2	Historical landfill (BGS records)	0	0	0	0	-
29	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
29	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
29	3.5	Historical waste sites	0	0	3	0	-
31	3.6	Licensed waste sites	0	0	6	11	-
35	3.7	Waste exemptions	0	0	34	36	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
43	4.1	Recent industrial land uses	0	3	41	-	-
47	4.2	Current or recent petrol stations	0	0	0	0	-
47	4.3	Electricity cables	0	0	0	0	-
47	4.4	Gas pipelines	0	0	0	0	-
47	4.5	Sites determined as Contaminated Land	0	0	0	0	-



47	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	3	4	-
48	4.7	Regulated explosive sites	0	0	0	0	-
48	4.8	<u>Hazardous substance storage/usage</u>	2	0	3	2	-
50	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	21	6	21	-
56	4.10	<u>Licensed industrial activities (Part A(1))</u>	15	16	12	37	-
70	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	2	-
71	4.12	<u>Radioactive Substance Authorisations</u>	0	0	0	1	-
71	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
71	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
71	4.15	Pollutant release to public sewer	0	0	0	0	-
72	4.16	<u>List 1 Dangerous Substances</u>	0	2	0	1	-
72	4.17	<u>List 2 Dangerous Substances</u>	0	1	3	1	-
73	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	3	9	-
74	4.19	<u>Pollution inventory substances</u>	0	0	0	1	-
75	4.20	<u>Pollution inventory waste transfers</u>	0	0	1	1	-
94	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
95	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
97	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
98	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
99	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
99	5.5	Groundwater vulnerability- local information	None (within 0m)				
100	5.6	<u>Groundwater abstractions</u>	0	0	0	4	37
110	5.7	<u>Surface water abstractions</u>	0	0	0	2	0
111	5.8	<u>Potable abstractions</u>	0	0	0	0	2
111	5.9	<u>Source Protection Zones</u>	1	0	0	0	-
112	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
113	6.1	<u>Water Network (OS MasterMap)</u>	0	0	4	-	-



114	6.2	<u>Surface water features</u>	0	0	2	-	-
114	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
115	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
115	6.5	<u>WFD Groundwater bodies</u>	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
116	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
116	7.2	Historical Flood Events	0	0	0	-	-
116	7.3	Flood Defences	0	0	0	-	-
116	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
117	7.5	Flood Storage Areas	0	0	0	-	-
118	7.6	<u>Flood Zone 2</u>	Identified (within 50m)				
119	7.7	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
120	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
122	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
123	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
124	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
124	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
124	10.4	Special Protection Areas (SPA)	0	0	0	0	0
124	10.5	National Nature Reserves (NNR)	0	0	0	0	0
125	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
125	10.7	Designated Ancient Woodland	0	0	0	0	0
125	10.8	Biosphere Reserves	0	0	0	0	0
125	10.9	Forest Parks	0	0	0	0	0
126	10.10	Marine Conservation Zones	0	0	0	0	0
126	10.11	<u>Green Belt</u>	0	0	0	2	1
126	10.12	Proposed Ramsar sites	0	0	0	0	0



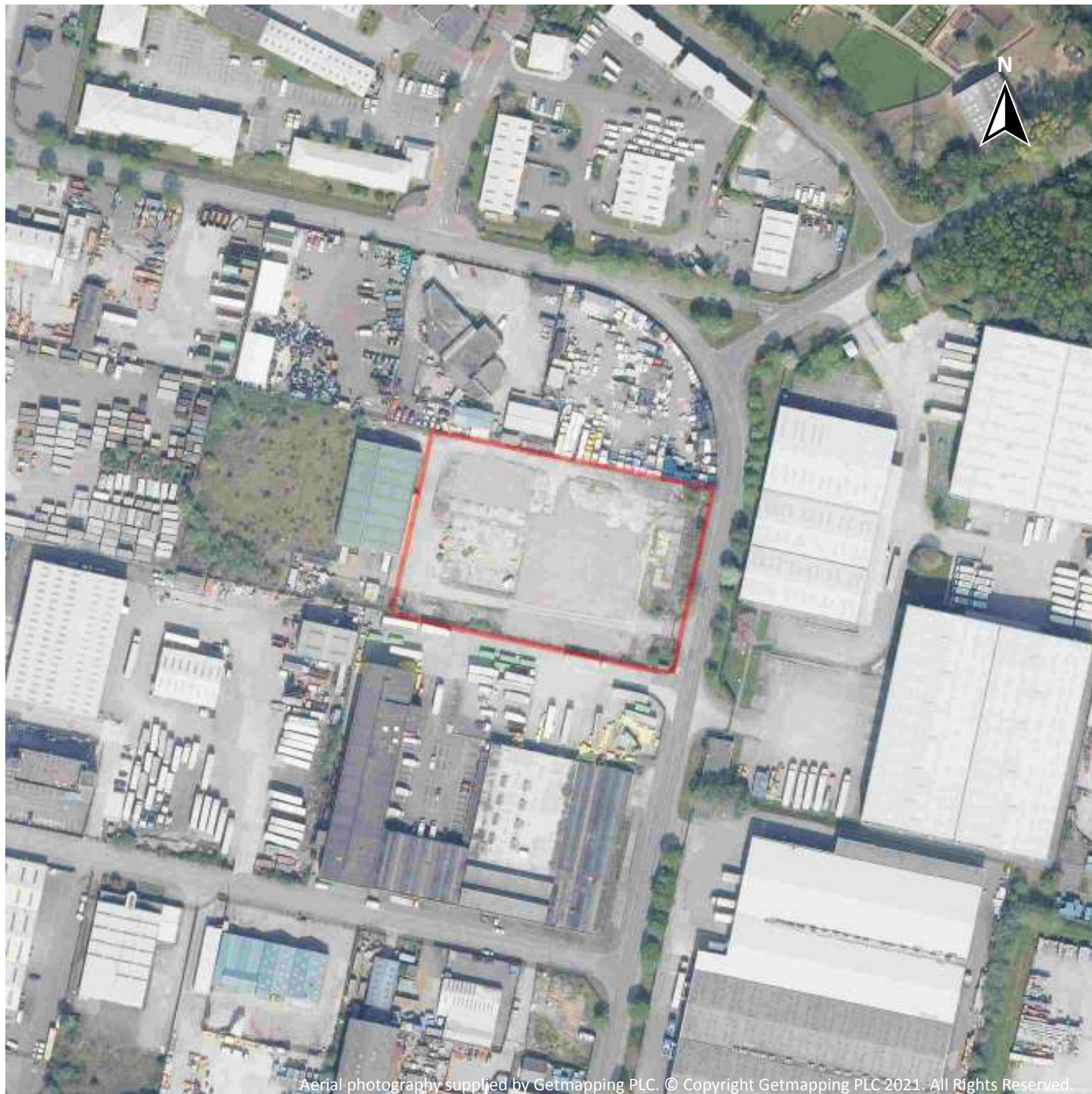
126	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
127	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
127	10.15	Nitrate Sensitive Areas	0	0	0	0	0
127	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	1	1
128	10.17	SSSI Impact Risk Zones	0	-	-	-	-
128	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
129	11.1	World Heritage Sites	0	0	0	-	-
129	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
129	11.3	National Parks	0	0	0	-	-
129	11.4	Listed Buildings	0	0	0	-	-
130	11.5	Conservation Areas	0	0	0	-	-
130	11.6	Scheduled Ancient Monuments	0	0	0	-	-
130	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
131	12.1	<u>Agricultural Land Classification</u>	Grade 1 (within 250m)				
132	12.2	Open Access Land	0	0	0	-	-
132	12.3	Tree Felling Licences	0	0	0	-	-
132	12.4	Environmental Stewardship Schemes	0	0	0	-	-
132	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
133	13.1	Priority Habitat Inventory	0	0	0	-	-
133	13.2	Habitat Networks	0	0	0	-	-
133	13.3	Open Mosaic Habitat	0	0	0	-	-
133	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
134	14.1	<u>10k Availability</u>	Identified (within 500m)				
135	14.2	Artificial and made ground (10k)	0	0	0	0	-
136	14.3	Superficial geology (10k)	0	0	0	0	-

136	14.4	Landslip (10k)	0	0	0	0	-
137	14.5	Bedrock geology (10k)	0	0	0	0	-
137	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
138	15.1	<u>50k Availability</u>	Identified (within 500m)				
139	15.2	<u>Artificial and made ground (50k)</u>	1	0	0	1	-
140	15.3	Artificial ground permeability (50k)	0	0	-	-	-
141	15.4	<u>Superficial geology (50k)</u>	1	0	2	3	-
142	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
142	15.6	Landslip (50k)	0	0	0	0	-
142	15.7	Landslip permeability (50k)	None (within 50m)				
143	15.8	<u>Bedrock geology (50k)</u>	1	0	0	0	-
144	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
144	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
145	16.1	<u>BGS Boreholes</u>	55	12	43	-	-
Page	Section	Natural ground subsidence					
150	17.1	<u>Shrink swell clays</u>	Negligible (within 50m)				
151	17.2	<u>Running sands</u>	Low (within 50m)				
153	17.3	<u>Compressible deposits</u>	Very low (within 50m)				
155	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
156	17.5	<u>Landslides</u>	Very low (within 50m)				
157	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
159	18.1	Natural cavities	0	0	0	0	-
160	18.2	BritPits	0	0	0	0	-
160	18.3	<u>Surface ground workings</u>	0	0	3	-	-
160	18.4	Underground workings	0	0	0	0	0
160	18.5	<u>Historical Mineral Planning Areas</u>	0	0	0	1	-



161	18.6	Non-coal mining	0	0	0	0	0
161	18.7	Mining cavities	0	0	0	0	0
161	18.8	JPB mining areas	None (within 0m)				
161	18.9	Coal mining	None (within 0m)				
162	18.10	Brine areas	None (within 0m)				
162	18.11	Gypsum areas	None (within 0m)				
162	18.12	Tin mining	None (within 0m)				
162	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
163	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
164	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	1	-	-	-
164	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
164	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
165	21.1	Underground railways (London)	0	0	0	-	-
165	21.2	Underground railways (Non-London)	0	0	0	-	-
166	21.3	Railway tunnels	0	0	0	-	-
166	21.4	<u>Historical railway and tunnel features</u>	3	4	7	-	-
167	21.5	Royal Mail tunnels	0	0	0	-	-
167	21.6	<u>Historical railways</u>	0	0	1	-	-
167	21.7	<u>Railways</u>	0	0	2	-	-
168	21.8	Crossrail 1	0	0	0	0	-
168	21.9	Crossrail 2	0	0	0	0	-
168	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.82ha



Recent site history - 2015 aerial photograph

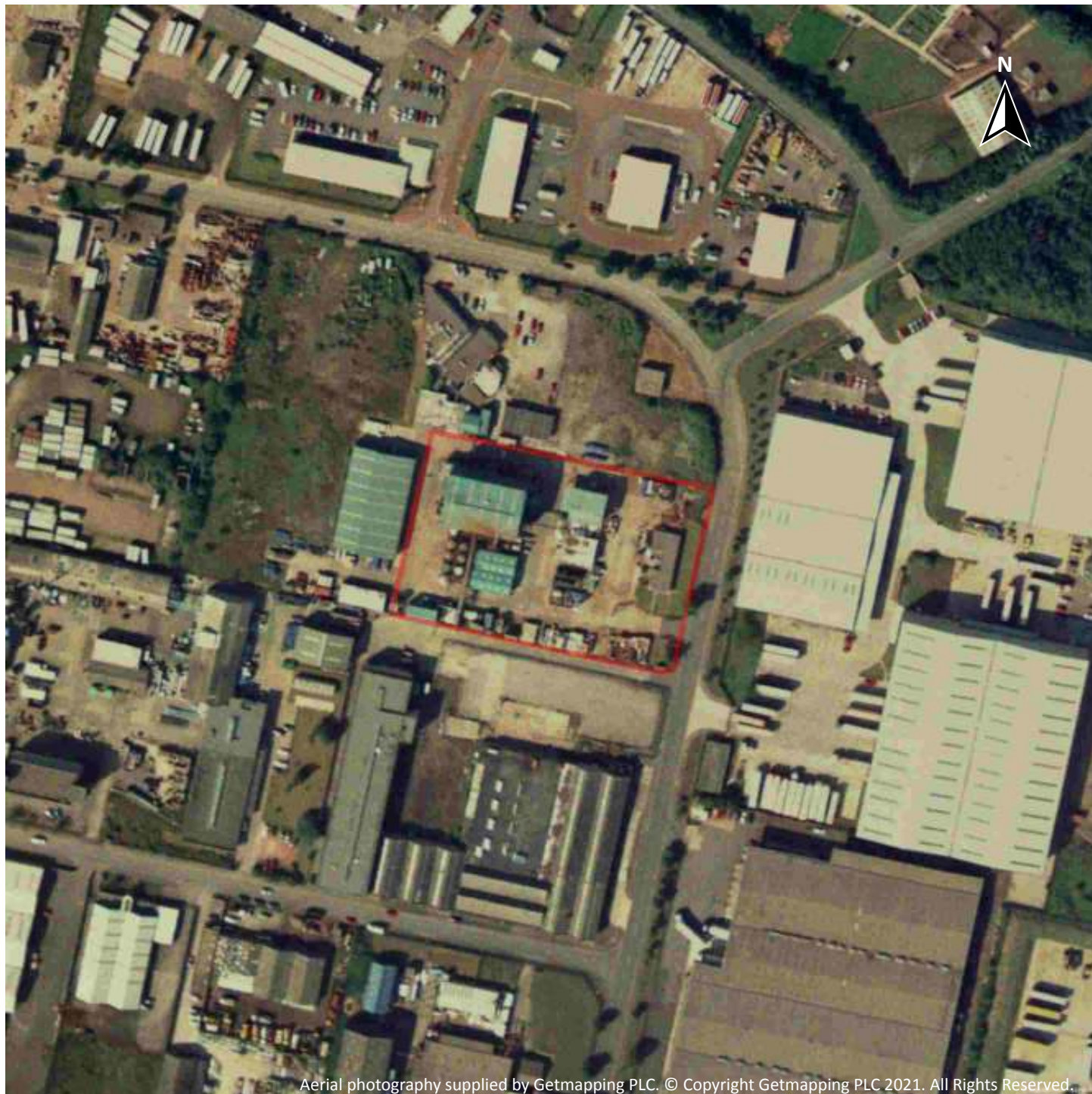


Capture Date: 11/06/2015

Site Area: 0.82ha



Recent site history - 2001 aerial photograph

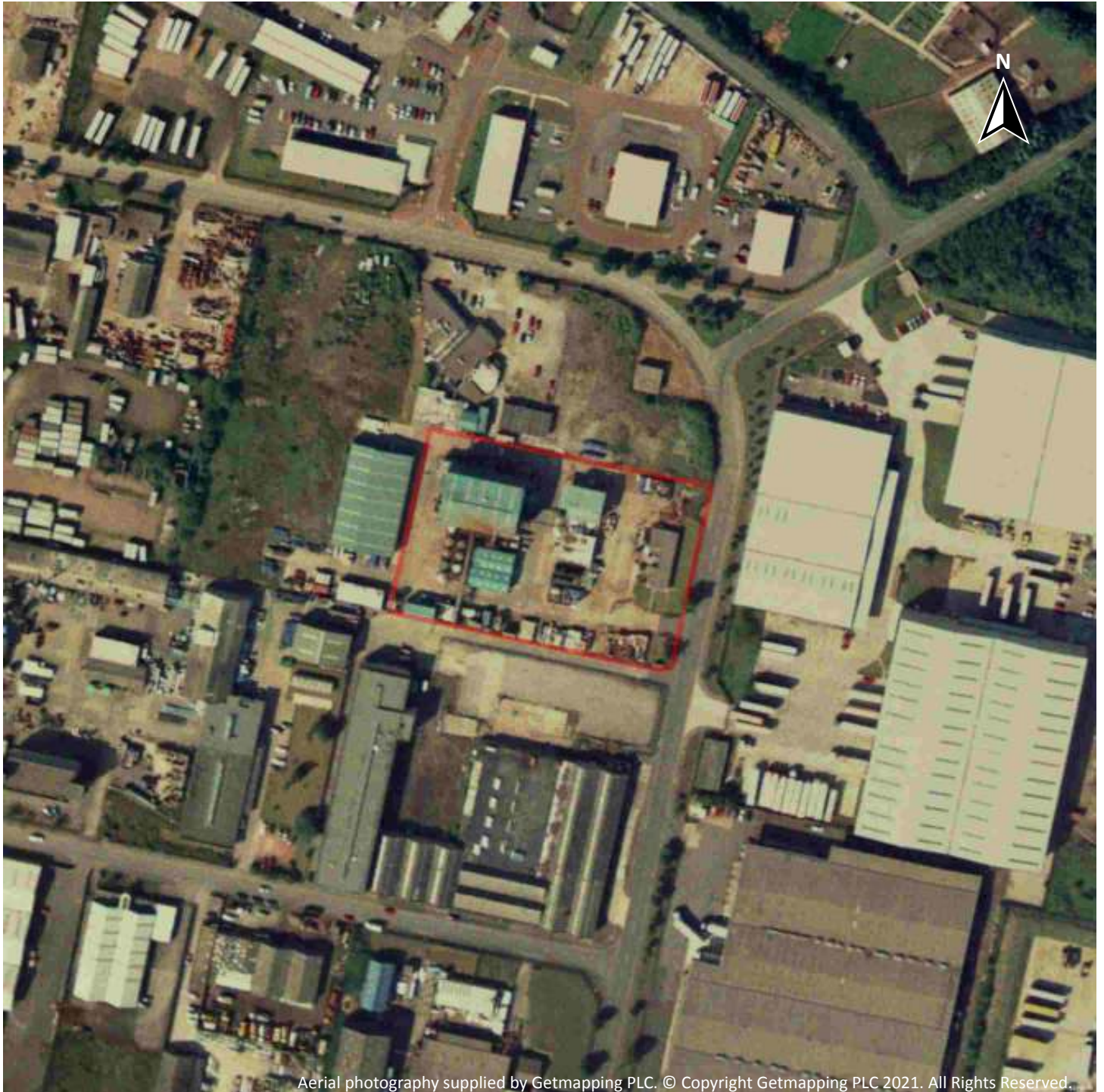


Capture Date: 01/05/2001

Site Area: 0.82ha



Recent site history - 2000 aerial photograph

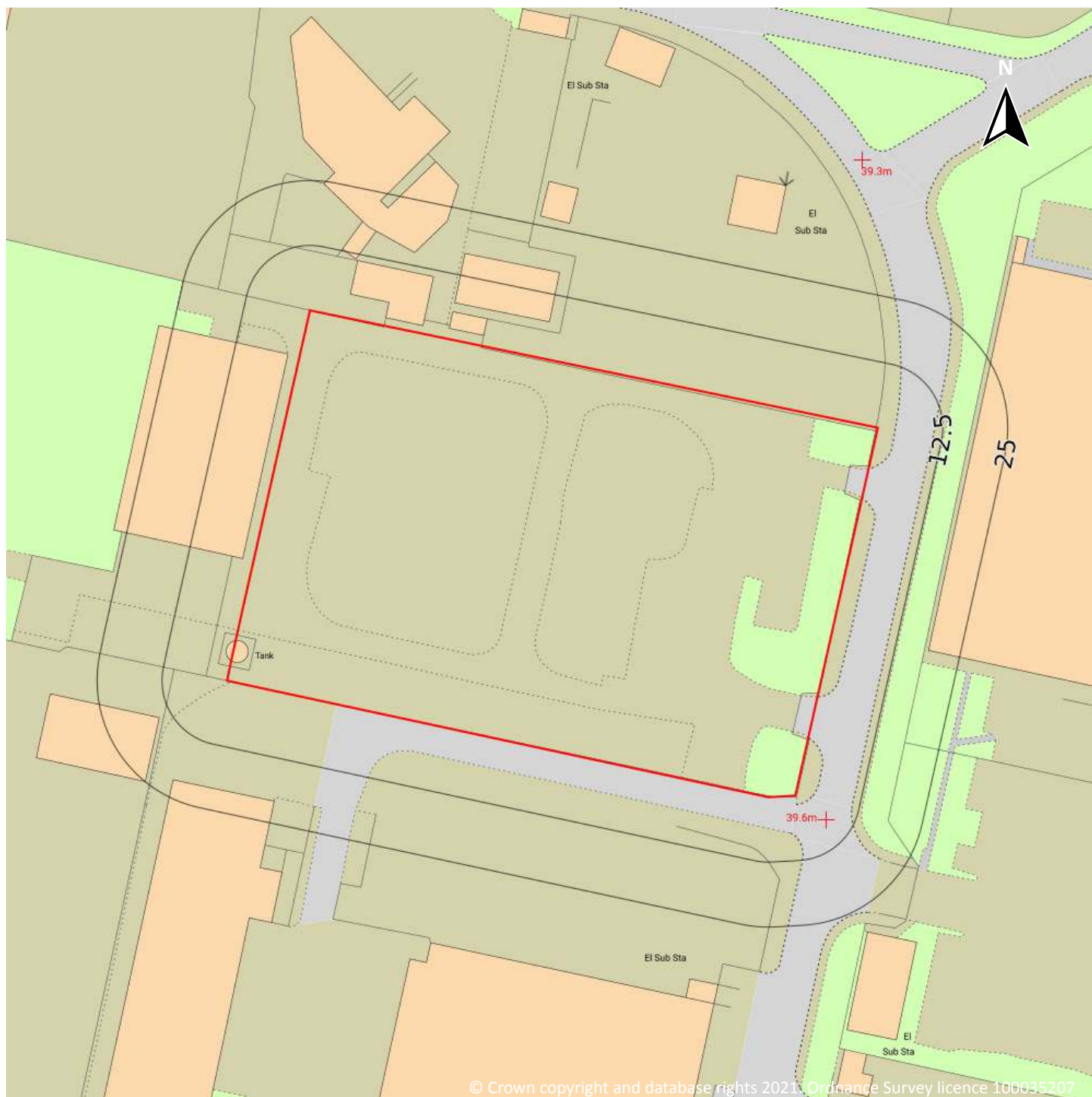


Capture Date: 21/07/2000

Site Area: 0.82ha



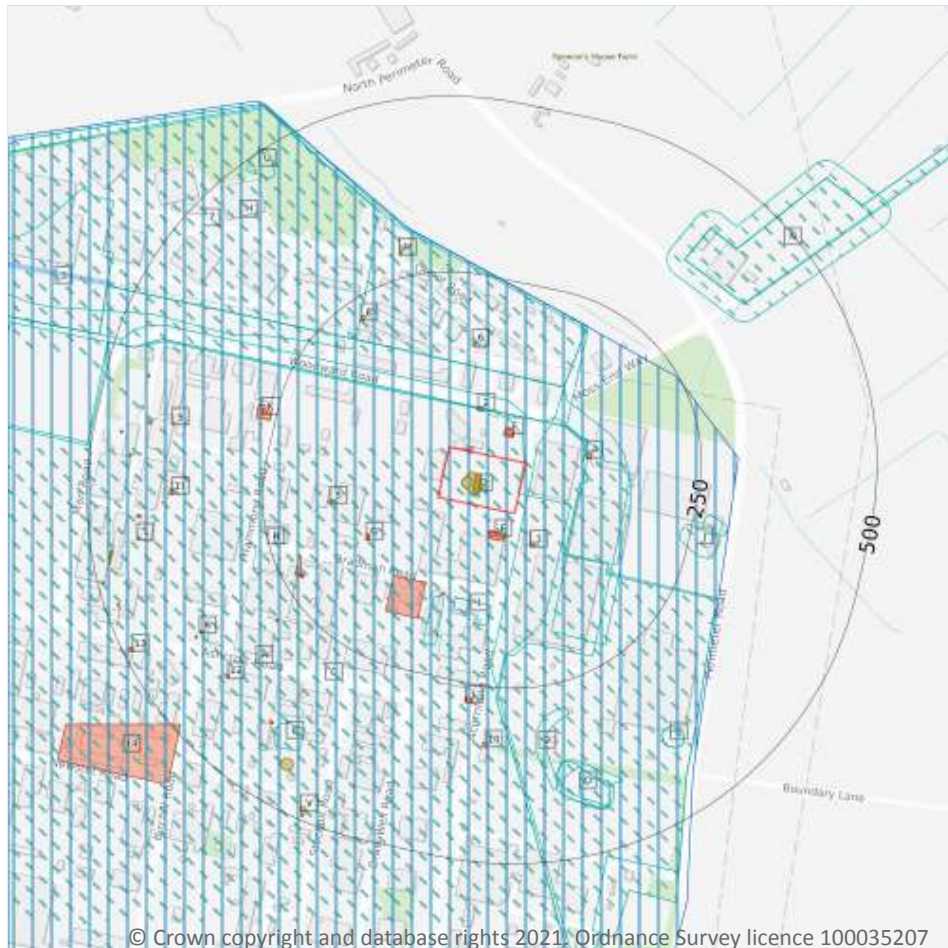
OS MasterMap site plan



Site Area: 0.82ha



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 13**

ID	Location	Land use	Dates present	Group ID
A	On site	Industrial Estate	1966	884931



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Commercial/Industrial	1955	951966
B	On site	Railway Sidings	1955 - 1976	2367747
C	On site	Industrial Estate	1988	942563
C	On site	Industrial Estate	1976	979291
D	On site	Unspecified Tanks	1966 - 1976	898100
D	On site	Unspecified Tank	1988	955345
D	On site	Unspecified Tanks	1988	976299
D	On site	Unspecified Tank	1976	982538
3	63m N	Railway Sidings	1955	954750
H	118m N	Unspecified Commercial/Industrial	1966 - 1976	922043
H	118m N	Unspecified Commercial/Industrial	1955	941504
I	134m S	Unspecified Heaps	1976	831252
I	138m S	Unspecified Heap	1976	803315
7	197m NW	Unspecified Commercial/Industrial	1988	921554
J	236m E	Marl Pit	1907	798135
J	266m E	Marl Pit	1928 - 1955	946386
9	286m S	Unspecified Heap	1955	803313
N	343m NE	Unspecified Works	1966 - 1976	967015
O	360m S	Marl Pit	1928	883589
O	360m S	Marl Pit	1955	848836
N	368m NE	Unspecified Commercial/Industrial	1988	796634
N	368m NE	Railway Sidings	1988	918056
N	368m NE	Railway Sidings	1966 - 1976	973563
O	374m S	Marl Pit	1907	933617
P	375m SE	Unspecified Heap	1988	881184
P	375m SE	Unspecified Heap	1966 - 1976	968561
Q	381m SW	Unspecified Heap	1966	803314
O	390m S	Unspecified Pit	1890	839751



ID	Location	Land use	Dates present	Group ID
U	460m NW	Unspecified Pit	1966	839750

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	40
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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 13**

ID	Location	Land use	Dates present	Group ID
D	On site	Unspecified Tank	1994	113116
D	On site	Tanks	1961	123803
D	On site	Tanks	1962	137516
D	On site	Tanks	1971 - 1984	145604
D	On site	Unspecified Tank	1971 - 1984	147125
5	147m W	Unspecified Tank	1984 - 1994	124741
6	150m N	Unspecified Tank	1961 - 1976	141297
B	241m W	Unspecified Tank	1971	113114
M	282m N	Tanks	1976	105747
A	287m SW	Unspecified Tank	1971 - 1994	136400
M	288m N	Tanks	1976	105748
11	376m W	Unspecified Tank	1971 - 1994	128699
R	384m SW	Unspecified Tank	1971	113113
S	389m W	Unspecified Tank	1986	126591
S	389m W	Unspecified Tank	1971	125650
S	389m W	Unspecified Tank	1994	138318
R	396m SW	Unspecified Tank	1971	113112

ID	Location	Land use	Dates present	Group ID
S	427m W	Unspecified Tank	1971	113109
T	428m W	Unspecified Tank	1986	125626
Q	428m SW	Unspecified Tank	1994	113115
T	429m W	Unspecified Tank	1971	130514
T	429m W	Unspecified Tank	1994	124768
S	437m W	Unspecified Tank	1971	113110
S	439m W	Tanks	1971	105741
S	441m W	Unspecified Tank	1971	113108
S	458m W	Unspecified Tank	1971 - 1986	136528
S	460m W	Unspecified Tank	1994	136066
T	469m W	Tanks	1986	124874
T	470m W	Tanks	1971	144273
T	474m W	Tanks	1971 - 1994	127529
T	479m W	Unspecified Tank	1986	137671
T	479m W	Unspecified Tank	1961	133700
T	479m W	Unspecified Tank	1971	147657
T	479m W	Unspecified Tank	1994	142404
T	480m W	Unspecified Tank	1962	145349
U	480m NW	Tanks	1962	105745
V	480m SW	Tanks	1984	105749
V	490m SW	Tanks	1984	105750
T	490m W	Unspecified Tank	1971 - 1986	145873
V	490m SW	Unspecified Tank	1972	113117

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

31

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 13**

ID	Location	Land use	Dates present	Group ID
D	1m N	Electricity Substation	1992 - 1994	71417
E	31m S	Electricity Substation	1971	64582
E	31m S	Electricity Substation	1994	71226
F	32m N	Electricity Substation	1994	66793
F	32m N	Electricity Substation	1971 - 1992	71321
E	32m S	Electricity Substation	1984 - 1992	75473
1	49m SE	Electricity Substation	1971 - 1994	68344
2	60m N	Electricity Substation	1992 - 1994	79195
4	87m E	Electricity Substation	1971 - 1994	69043
G	111m SW	Electricity Substation	1971 - 1992	78578
G	111m SW	Electricity Substation	1994	68804
I	123m S	Electricity Substation	1971	68847
I	123m S	Electricity Substation	1971	70091
I	131m S	Electricity Substation	1971	61340
B	212m SW	Electricity Substation	1971	76788
8	217m NW	Electricity Substation	1976 - 1994	84963
B	221m SW	Electricity Substation	1984	65965
B	221m SW	Electricity Substation	1992	75034
B	225m SW	Electricity Substation	1986	74309
B	241m W	Electricity Substation	1986	61337
K	258m W	Electricity Substation	1986 - 1994	73060



ID	Location	Land use	Dates present	Group ID
K	263m W	Electricity Substation	1971	72343
L	270m S	Electricity Substation	1984 - 1994	67804
L	271m S	Electricity Substation	1971	69299
10	330m S	Electricity Substation	1994	61341
12	391m SW	Electricity Substation	1971	61342
Q	396m SW	Electricity Substation	1971 - 1994	74565
S	421m W	Electricity Substation	1986 - 1994	78074
T	424m W	Electricity Substation	1986 - 1994	76703
13	484m SW	Electricity Substation	1971 - 1994	69524
14	489m SW	Electricity Substation	1994	75466

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.

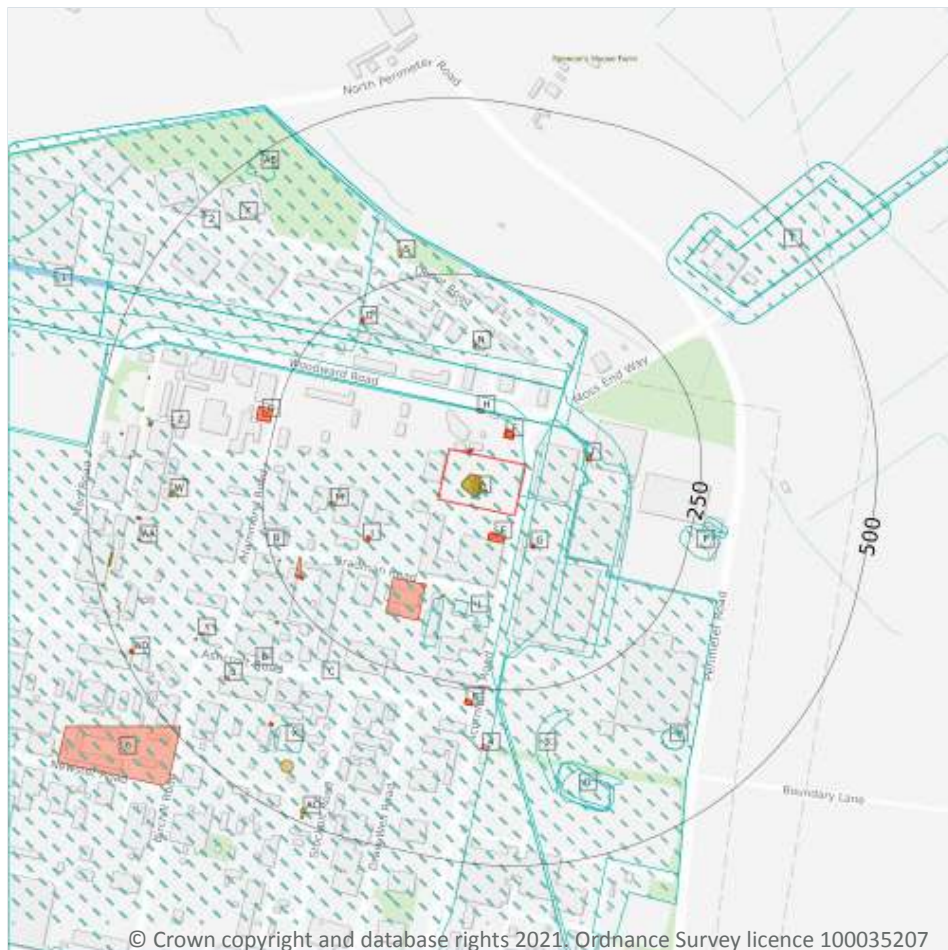
Features are displayed on the Past land use map on **page 13**

ID	Location	Site Name	Date of Operation	Activities
B	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 20**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tanks	1966	898100
A	On site	Unspecified Tank	1976	982538
A	On site	Unspecified Tanks	1976	898100

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1988	955345
A	On site	Unspecified Tanks	1988	976299
B	On site	Industrial Estate	1966	884931
B	On site	Railway Sidings	1976	2367747
B	On site	Unspecified Commercial/Industrial	1955	951966
C	On site	Industrial Estate	1976	979291
C	On site	Industrial Estate	1988	942563
D	On site	Railway Sidings	1966	2367747
1	63m N	Railway Sidings	1955	954750
K	118m N	Unspecified Commercial/Industrial	1966	922043
K	118m N	Unspecified Commercial/Industrial	1976	922043
K	118m N	Unspecified Commercial/Industrial	1955	941504
L	134m S	Unspecified Heaps	1976	831252
L	138m S	Unspecified Heap	1976	803315
2	197m NW	Unspecified Commercial/Industrial	1988	921554
P	236m E	Marl Pit	1907	798135
P	266m E	Marl Pit	1928	946386
P	266m E	Marl Pit	1955	946386
3	286m S	Unspecified Heap	1955	803313
T	343m NE	Unspecified Works	1966	967015
T	343m NE	Unspecified Works	1976	967015
U	360m S	Marl Pit	1928	883589
U	360m S	Marl Pit	1955	848836
T	368m NE	Railway Sidings	1966	973563
T	368m NE	Railway Sidings	1976	973563
T	368m NE	Unspecified Commercial/Industrial	1988	796634
T	368m NE	Railway Sidings	1988	918056
U	374m S	Marl Pit	1907	933617



ID	Location	Land Use	Date	Group ID
V	375m SE	Unspecified Heap	1966	968561
V	375m SE	Unspecified Heap	1976	968561
V	375m SE	Unspecified Heap	1988	881184
X	381m SW	Unspecified Heap	1966	803314
U	390m S	Unspecified Pit	1890	839751
AB	460m NW	Unspecified Pit	1966	839750

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

53

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 20**

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Tank	1994	113116
A	On site	Tanks	1971	145604
A	On site	Unspecified Tank	1971	147125
A	On site	Tanks	1962	137516
A	On site	Tanks	1961	123803
A	On site	Tanks	1984	145604
A	On site	Unspecified Tank	1984	147125
M	147m W	Unspecified Tank	1994	124741
M	147m W	Unspecified Tank	1984	124741
M	147m W	Unspecified Tank	1992	124741
N	150m N	Unspecified Tank	1962	141297
N	150m N	Unspecified Tank	1976	141297
N	150m N	Unspecified Tank	1961	141297
D	241m W	Unspecified Tank	1971	113114



ID	Location	Land Use	Date	Group ID
S	282m N	Tanks	1976	105747
B	287m SW	Unspecified Tank	1994	136400
B	288m SW	Unspecified Tank	1971	136400
S	288m N	Tanks	1976	105748
B	288m SW	Unspecified Tank	1986	136400
W	376m W	Unspecified Tank	1986	128699
W	377m W	Unspecified Tank	1971	128699
W	377m W	Unspecified Tank	1994	128699
Y	384m SW	Unspecified Tank	1971	113113
Z	389m W	Unspecified Tank	1986	126591
Z	389m W	Unspecified Tank	1971	125650
Z	389m W	Unspecified Tank	1994	138318
Y	396m SW	Unspecified Tank	1971	113112
Z	427m W	Unspecified Tank	1971	113109
AA	428m W	Unspecified Tank	1986	125626
X	428m SW	Unspecified Tank	1994	113115
AA	429m W	Unspecified Tank	1971	130514
AA	429m W	Unspecified Tank	1994	124768
Z	437m W	Unspecified Tank	1971	113110
Z	439m W	Tanks	1971	105741
Z	441m W	Unspecified Tank	1971	113108
Z	458m W	Unspecified Tank	1986	136528
Z	459m W	Unspecified Tank	1971	136528
Z	460m W	Unspecified Tank	1994	136066
AA	469m W	Tanks	1986	124874
AA	470m W	Tanks	1971	144273
AA	474m W	Tanks	1971	127529
AA	475m W	Tanks	1994	127529



ID	Location	Land Use	Date	Group ID
AA	479m W	Unspecified Tank	1986	137671
AA	479m W	Unspecified Tank	1961	133700
AA	479m W	Unspecified Tank	1971	147657
AA	479m W	Unspecified Tank	1994	142404
AA	480m W	Unspecified Tank	1962	145349
AB	480m NW	Tanks	1962	105745
AC	480m SW	Tanks	1984	105749
AC	490m SW	Tanks	1984	105750
AA	490m W	Unspecified Tank	1986	145873
AC	490m SW	Unspecified Tank	1972	113117
AA	491m W	Unspecified Tank	1971	145873

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 20**

ID	Location	Land Use	Date	Group ID
A	1m N	Electricity Substation	1992	71417
A	3m N	Electricity Substation	1994	71417
E	31m S	Electricity Substation	1971	64582
E	31m S	Electricity Substation	1994	71226
F	32m N	Electricity Substation	1994	66793
F	32m N	Electricity Substation	1984	71321
F	32m N	Electricity Substation	1992	71321
E	32m S	Electricity Substation	1984	75473
E	32m S	Electricity Substation	1992	75473



ID	Location	Land Use	Date	Group ID
F	33m N	Electricity Substation	1971	71321
G	49m SE	Electricity Substation	1994	68344
G	49m SE	Electricity Substation	1984	68344
G	49m SE	Electricity Substation	1992	68344
G	50m SE	Electricity Substation	1971	68344
H	60m N	Electricity Substation	1992	79195
H	62m N	Electricity Substation	1994	79195
I	87m E	Electricity Substation	1984	69043
I	87m E	Electricity Substation	1992	69043
I	88m E	Electricity Substation	1994	69043
I	88m E	Electricity Substation	1971	69043
J	111m SW	Electricity Substation	1971	78578
J	111m SW	Electricity Substation	1994	68804
J	112m SW	Electricity Substation	1984	78578
J	112m SW	Electricity Substation	1992	78578
L	123m S	Electricity Substation	1971	70091
L	123m S	Electricity Substation	1971	68847
L	131m S	Electricity Substation	1971	61340
D	212m SW	Electricity Substation	1971	76788
O	217m NW	Electricity Substation	1994	84963
O	219m NW	Electricity Substation	1976	84963
D	221m SW	Electricity Substation	1971	76788
D	221m SW	Electricity Substation	1984	65965
D	221m SW	Electricity Substation	1992	75034
D	225m SW	Electricity Substation	1986	74309
D	241m W	Electricity Substation	1986	61337
Q	258m W	Electricity Substation	1994	73060
Q	258m W	Electricity Substation	1986	73060



ID	Location	Land Use	Date	Group ID
Q	263m W	Electricity Substation	1971	72343
R	270m S	Electricity Substation	1994	67804
R	270m S	Electricity Substation	1984	67804
R	270m S	Electricity Substation	1992	67804
R	271m S	Electricity Substation	1971	69299
4	330m S	Electricity Substation	1994	61341
5	391m SW	Electricity Substation	1971	61342
X	396m SW	Electricity Substation	1986	74565
X	396m SW	Electricity Substation	1971	74565
X	397m SW	Electricity Substation	1994	74565
Z	421m W	Electricity Substation	1986	78074
Z	422m W	Electricity Substation	1994	78074
AA	424m W	Electricity Substation	1986	76703
AA	425m W	Electricity Substation	1994	76703
AD	484m SW	Electricity Substation	1986	69524
AD	485m SW	Electricity Substation	1971	69524
AD	485m SW	Electricity Substation	1994	69524
6	489m SW	Electricity Substation	1994	75466

This data is sourced from Ordnance Survey / Groundsure.

2.4 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. 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

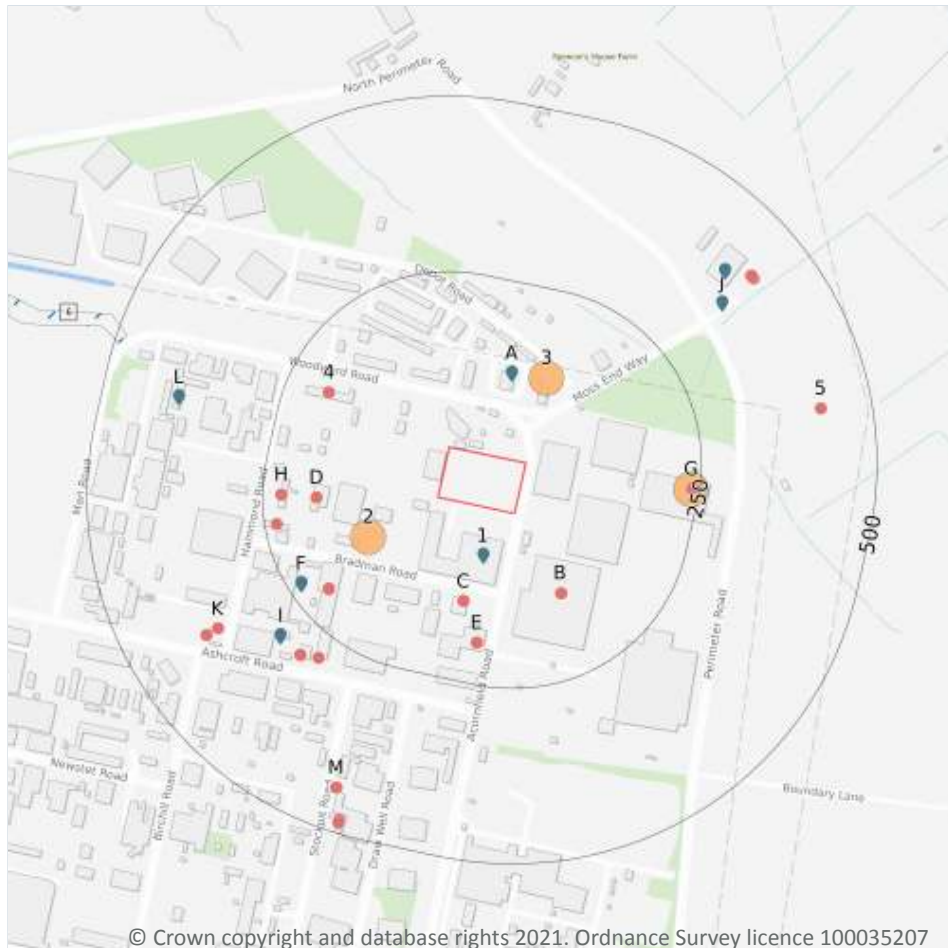
0

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 28**

ID	Location	Details	
6	485m W	Operator: Knowsley Metropolitan Borough Council Site Address: Land/premises At, Marl Roadw/woodward Road, Simonswood, Kirkby, Merseyside, L33 7UH	WML Number: 54257 EPR Reference: KNO001 Landfill type: A05: Landfill taking Non-Biodegradeable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/KP3197CA/A001



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

3

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 28**

ID	Location	Address	Further Details	Date
2	89m 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
3	99m N	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 permission s 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
G	213m 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

17

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

Features are displayed on the Waste and landfill map on **page 28**

ID	Location	Details		
1	68m S	Site Name: Knowsley Healthcare Waste Treatment And Transfer Station Site Address: Knowsley Healthcare Waste Treatment And Transfer Station, Bradman Road, Knowsley Ind Park, Liverpool, Merseyside, L33 7UR Correspondence Address: -	Type of Site: Clinical Waste Transfer Station Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRC013 EPR reference: EA/EPR/KP3436NL/V004 Operator: S R C L Limited Waste Management licence No: 400611 Annual Tonnage: 8760	Issue Date: 16/12/2013 Effective Date: - Modified:: 21/05/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
A	120m N	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
A	120m N	Site Name: Kirkby H W R C Site Address: Kirkby H W R C, Depot Road, Kirkby, Knowsley, Merseyside, L33 3AR Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VEO083 EPR reference: EA/EPR/EP3691LR/S002 Operator: Veolia Environmental Services Merseyside & Halton Ltd Waste Management licence No: 54268 Annual Tonnage: 0	Issue Date: 21/08/1995 Effective Date: 11/11/2009 Modified:: - Surrendered Date: Apr 3 2013 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered



ID	Location	Details		
F	231m 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
F	231m 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
F	231m 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: REN001 EPR reference: EA/EPR/TP3997CR/S002 Operator: Rentokil Initial 1927 Plc Waste Management licence No: 54261 Annual Tonnage: 0	Issue Date: 09/10/1992 Effective Date: - Modified:: - Surrendered Date: Dec 18 2012 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
I	299m 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



ID	Location	Details		
I	299m 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	360m 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: WHI005 EPR reference: EA/EPR/EP3397CV/V002 Operator: Stephen Washington Waste Management licence No: 54324 Annual Tonnage: 10000	Issue Date: 31/01/2001 Effective Date: - Modified:: 08/12/2003 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
L	391m 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
L	391m 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		
J	393m 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
J	393m 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
J	393m 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
J	393m 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



ID	Location	Details		
J	393m 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/V006 Operator: The Greener Gardening Company (Kirkby) Limited Waste Management licence No: 54394 Annual Tonnage: 279999	Issue Date: 03/09/2004 Effective Date: - Modified:: 10/02/2020 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
J	393m 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

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

3.7 Waste exemptions

Records within 500m	70
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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 28**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	132m SE	Knowsley Depot Acornfield Road LIVERPOOL L33 7RN	EPR/TF0537EK /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	132m 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



ID	Location	Site	Reference	Category	Sub-Category	Description
B	132m SE	Knowsley Depot Acornfield Road LIVERPOOL L33 7RN	EPR/TF0537EK /A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
B	132m SE	Knowsley Depot Acornfield Road LIVERPOOL L33 7RN	EPR/TF0537EK /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	132m SE	Knowsley Depot Acornfield Road LIVERPOOL L33 7RN	EPR/TF0537EK /A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
B	133m 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
B	133m 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
B	133m SE	KNOWSLEY DEPOT, ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7RN	WEX086093	Treating waste exemption	Not on a farm	Sorting mixed waste
B	133m 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)
B	133m SE	KNOWSLEY DEPOT, ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7RN	WEX086093	Treating waste exemption	Not on a farm	Recovery of scrap metal
B	133m 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
B	133m 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



ID	Location	Site	Reference	Category	Sub-Category	Description
B	133m SE	KNOWSLEY DEPOT, ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7RN	WEX088251	Treating waste exemption	Not on a farm	Sorting mixed waste
B	133m 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)
B	133m SE	KNOWSLEY DEPOT, ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7RN	WEX088251	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	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
C	138m S	UNIT 3, BRADMAN ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UR	WEX087988	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	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
D	174m W	. Hammond Road LIVERPOOL L33 7UL	EPR/TE5258A U/A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
D	174m W	. Hammond Road LIVERPOOL L33 7UL	EPR/TE5258A U/A001	Treating waste exemption	Non- Agricultura l Waste Only	Sorting mixed waste
D	174m W	. Hammond Road LIVERPOOL L33 7UL	EPR/TE5258A U/A001	Treating waste exemption	Non- Agricultura l Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	174m W	. Hammond Road LIVERPOOL L33 7UL	EPR/TE5258A U/A001	Treating waste exemption	Non- Agricultura l Waste Only	Recovery of scrap metal
4	188m 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



ID	Location	Site	Reference	Category	Sub-Category	Description
E	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
E	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
F	204m SW	Unit 1 Bradman House, Bradman Road, Kirkby Industrial Estate, Merseyside, L33 7UR	WEX125264	Treating waste exemption	Not on a farm	Sorting mixed waste
F	204m 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
H	224m 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
H	224m 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)
H	224m 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
H	224m W	Drawell House, Hammond Road, Knowsley Industrial Park, Liverpool, L33 7UL	WEX099972	Treating waste exemption	Not on a farm	Recovery of scrap metal
H	234m W	. Hammond Road LIVERPOOL L33 7UL	EPR/HF0734ZE /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
G	238m 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
G	239m 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



ID	Location	Site	Reference	Category	Sub-Category	Description
I	286m 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
I	299m 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
I	300m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337TW	WEX082476	Treating waste exemption	Not on a farm	Sorting mixed waste
I	300m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337TW	WEX082476	Treating waste exemption	Not on a farm	Manual treatment of waste
I	300m 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
I	300m SW	Able Clearance Recycling, Ashcroft Road, Knowlsey Industrial Estate, Kirkby, L337TW	WEX082476	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	367m 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
K	367m 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
K	367m 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)
K	367m SW	Drawell House Hammond Road Liverpool Merseyside L33 7UL	EPR/CH0079X C/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal



ID	Location	Site	Reference	Category	Sub-Category	Description
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX185888	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX185888	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX185888	Treating waste exemption	Not on a farm	Recovery of scrap metal
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX185888	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX021667	Storing waste exemption	Not on a farm	Storage of waste in secure containers
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX021667	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX021667	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	385m SW	HAMMOND ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7UL	WEX021667	Treating waste exemption	Not on a farm	Recovery of scrap metal
J	416m NE	WHITE MOSS HORTICULTURE LTD SIMONSWOOD MOSS MERSEYSIDE L33 3AN	EPR/WF0302L B/A001	Treating waste exemption	Non- Agricultura l Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	416m NE	White Moss Horticulture North Perimeter Road LIVERPOOL L33 3AP	EPR/DF0707LP /A001	Storing waste exemption	Non- Agricultura l Waste Only	Storage of waste in a secure place
J	417m NE	WHITE MOSS HORTICULTURE LTD SIMONSWOOD MOSS MERSEYSIDE L33 3AN	EPR/KE5945XS /A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
5	426m E	-	WEX127197	Storing waste exemption	On a farm	Storage of sludge



ID	Location	Site	Reference	Category	Sub-Category	Description
M	439m 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
M	439m 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
M	439m 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
M	439m S	Phoenix house Stockpit Road Liverpool Knowsley L33 7TQ	EPR/SF0507E M/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
M	439m S	Phoenix house Stockpit Road Liverpool Knowsley L33 7TQ	EPR/SF0507E M/A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste
M	439m S	Phoenix house Stockpit Road Liverpool Knowsley L33 7TQ	EPR/SF0507E M/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of textiles
M	439m 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)
M	439m 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
M	439m S	Phoenix house Stockpit Road Liverpool Knowsley L33 7TQ	EPR/SF0507E M/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
M	439m 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

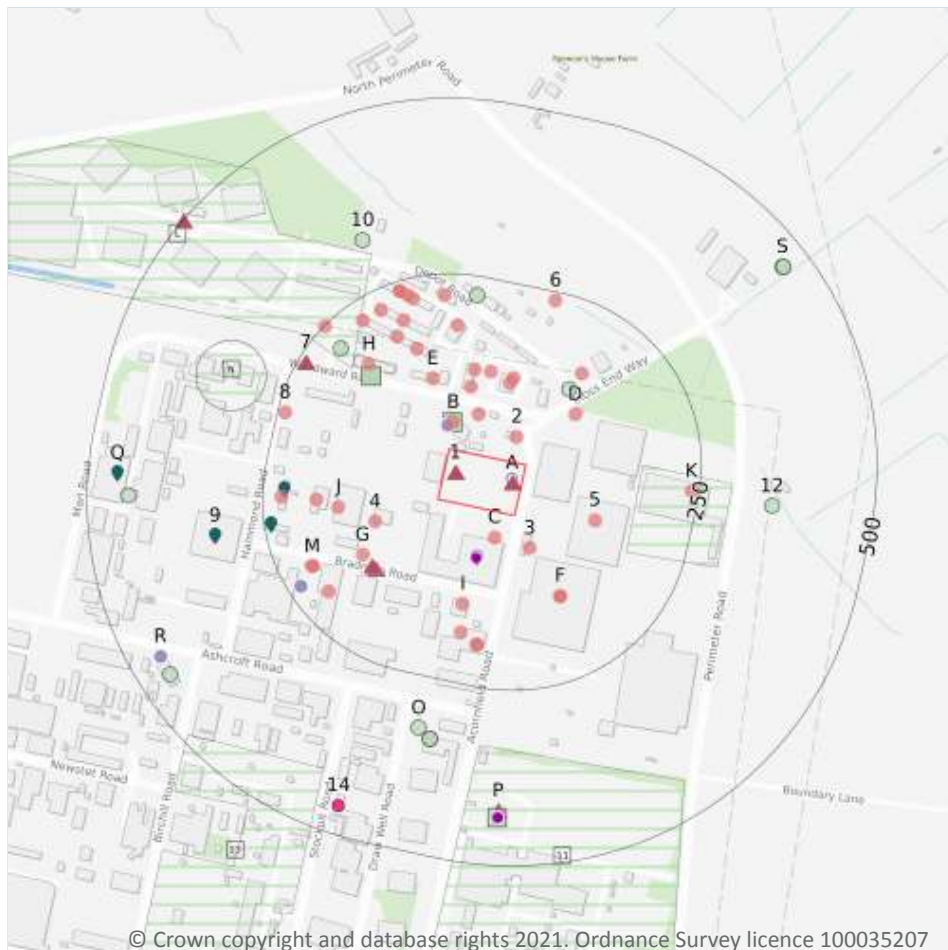


ID	Location	Site	Reference	Category	Sub-Category	Description
M	439m S	Phoenix house Stockpit Road Liverpool Knowsley L33 7TQ	EPR/SF0507E M/A001	Using waste exemption	Non-Agricultural Waste Only	Burning of waste as a fuel in a small appliance
M	481m S	STOCKPIT ROAD KNOWSLEY INDUSTRIAL PARK LIVERPOOL MERSEYSIDE L33 7TQ	EPR/GF0037W L/A001	Disposing of waste exemption	Non-Agricultural Waste Only	Burning waste in the open
M	481m 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
M	486m S	STOCKPIT ROAD, KNOWSLEY INDUSTRIAL PARK, LIVERPOOL, L33 7TQ	WEX149316	Storing waste exemption	Not on a farm	Storage of waste in secure containers

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
- List 1 Dangerous Substances
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

44

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 43**

ID	Location	Company	Address	Activity	Category
C	36m S	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
2	37m N	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	39m N	Artist in Lead	Redwood Point, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UZ	Glass	Industrial Products



ID	Location	Company	Address	Activity	Category
3	52m SE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	57m N	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
B	93m N	Proweld Welding Services	Unit 72 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Tools Including Machine Shops	Industrial Products
4	95m W	Sovereign Transport Services	The Morgan Brightside Building, Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Distribution and Haulage	Transport, Storage and Delivery
D	101m NE	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
E	103m N	Lakeside Upholstery	Unit 122 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Furniture	Consumer Products
B	109m N	C J Finishing	Unit 77 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Printing Related Machinery	Industrial Products
5	113m E	P D S Logistics Ltd	Unit 1-4, Acornfield Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UG	Container and Storage	Transport, Storage and Delivery
B	117m N	Alphatec 2000 Ltd	Unit 78 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Printing Related Machinery	Industrial Products
B	118m N	UK Waste & Recycling Ltd	Unit 70 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Waste Collection, Processing and Disposal Equipment	Industrial Products
B	120m N	North Mersey Business Centre	Merseyside, L33	Business Parks and Industrial Estates	Industrial Features
F	133m SE	Tradeteam Ltd	Knowsley Depot, Acornfield Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7RN	Distribution and Haulage	Transport, Storage and Delivery
F	133m SE	I B L Cold Stores	Acornfield Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7YX	Container and Storage	Transport, Storage and Delivery
G	134m SW	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
I	138m S	Altway Cars Ltd	Eagle House Unit 3, Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Vehicle Parts and Accessories	Motoring
J	142m W	Tank	Merseyside, L33	Tanks (Generic)	Industrial Features
E	151m N	Print Media Ltd	Unit 36 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Published Goods	Industrial Products
D	153m NE	Pylon	Merseyside, L33	Electrical Features	Infrastructure and Facilities
H	167m NW	North West Air Ambulance Charity	Lathom House North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Ambulance and Medical Transportation Services	Health Support Services
J	173m W	M P E	Hammond Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UL	Air and Water Filtration	Industrial Products
E	176m NW	Bluesat Solutions Ltd	North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Radar and Telecommunications Equipment	Industrial Products
E	177m N	Isocal UK Ltd	Unit 7 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Electrical Equipment Repair and Servicing	Repair and Servicing
I	179m S	L S M Multiservice s Ltd	Ashcroft House, Ashcroft Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7TW	Construction Completion Services	Construction Services
I	191m S	Step Up Security Ltd	Step up Security Services Ltd Security House, Acornfield Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7PA	Electronic Equipment	Industrial Products
I	191m S	Puresil Techniflex	Step up Security Services Ltd Security House, Acornfield Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7PA	General Construction Supplies	Industrial Products
E	194m N	M & B Bargains	Unit 53 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Container and Storage	Transport, Storage and Delivery
M	203m SW	Kirkby Jig & Tool Co Ltd	Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Precision Engineers	Engineering Services
M	203m SW	Atlantic Access	Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Construction and Tool Hire	Hire Services
M	204m SW	Universal Bags & Packaging	Bradman House 6, Bradman Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UR	Packaging	Industrial Products



ID	Location	Company	Address	Activity	Category
E	220m N	Integra Security Systems Ltd	Unit 19 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
E	221m NW	K Daly Flooring Ltd	Unit 57 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Construction Completion Services	Construction Services
E	221m NW	Electricity Sub Station	Merseyside, L33	Electrical Features	Infrastructure and Facilities
E	221m N	Underwater Vision	Unit 88 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Industrial Engineers	Engineering Services
J	223m W	Boundry Plant Ltd	Hammond Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UL	Construction and Tool Hire	Hire Services
E	228m N	Ecolec Solar Ltd	Unit 89 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
E	236m N	Klenz Ltd	Unit 91-92 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Clothing, Components and Accessories	Consumer Products
E	236m N	Marton Electronics Ltd	Unit 91-92 North Mersey Business Centre, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UY	Electronic Equipment	Industrial Products
6	238m N	Tank	Merseyside, L33	Tanks (Generic)	Industrial Features
K	239m E	G & S Transport	1, Perimeter Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 3AY	Distribution and Haulage	Transport, Storage and Delivery
8	240m W	Mast (Telecommunication)	Merseyside, L33	Telecommunications Features	Infrastructure and Facilities
H	249m NW	Pylon	Merseyside, L33	Electrical Features	Infrastructure and Facilities

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**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

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**

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 43**

ID	Location	Company	Address	Operational status	Tier
H	135m NW	Syntor Fine Chemicals Limited	Syntor Fine Chemicals Limited, Knowsley, Knowsley Industrial Estate, Woodward Road, Kirkby, Merseyside, L33 7UG	Current COMAH Site	COMAH Lower Tier Operator

ID	Location	Company	Address	Operational status	Tier
K	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	179m NW	Potter Logistics Ltd	Potter Logistics Ltd, Knowsley Rail Freight Terminal, Woodward Road, Knowsley Industrial Park, Liverpool, Merseyside, L33 7UZ	Historical NIHHS Site	-
N	278m W	Archimcya	Archimcya, Woodward Road, Kirkby, L33 7UZ	Historical NIHHS Site	-
N	278m W	Freeman Chemicals Ltd	Freeman Chemicals Ltd, Faraday Road, Knowsley, L33 7UZ	Historical NIHHS Site	-
11	331m S	Kodak Ltd	Kodak Ltd, Acornfield Road, Kirkby, L33 7UF	Historical NIHHS Site	-
13	417m SW	Baker Hughes Limited	Baker Hughes Limited, Liverpool, Knowsley Industrial Park, Kirkby Bank Road, Liverpool, Merseyside, L33 7SY	Current COMAH Site	COMAH Upper Tier Operator

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0
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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	7
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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 43**

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
G	133m 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
G	134m 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
7	239m 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
P	421m 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
L	498m 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

This data is sourced from Local Authority records.



4.9 Historical licensed industrial activities (IPC)

Records within 500m

48

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 43**

ID	Location	Details	
B	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	34m 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	231m 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	231m 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	231m 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	231m 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	231m 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	231m 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
P	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
P	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
P	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
P	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
P	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
P	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



ID	Location	Details	
P	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
P	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
P	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
P	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
P	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
P	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
P	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
P	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



ID	Location	Details	
P	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
P	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
R	454m 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
R	454m 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
R	454m 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
R	454m 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
R	454m 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

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



4.10 Licensed industrial activities (Part A(1))

Records within 500m

80

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 43**

ID	Location	Details	
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SURRENDER EFFECTIVE
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: 26/10/2020 Status: SURRENDER EFFECTIVE
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: 26/10/2020 Status: SUPERCEDED



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: CP3235XQ Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SUPERCEDED
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: 26/10/2020 Status: SURRENDER EFFECTIVE



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: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 26/10/2020 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: TP3633HM Original Permit Number: BU4376IS	EPR Reference: - Issue Date: - Effective Date: 14/07/2011 Last date noted as effective: 26/10/2020 Status: SURRENDER EFFECTIVE
B	34m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; HALOGEN CONTAINING COMPOUNDS EG HALOCARBONS Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
B	34m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
B	34m N	Operator: ORGANIC INTERMEDIATES LTD Installation Name: ORGANIC INTERMEDIATES LTD Process: ORGANIC CHEMICALS; OXYGEN CONTAINING COMPOUNDS EG ALCOHOLS Permit Number: BU4376IS Original Permit Number: BU4376IS	EPR Reference: - Issue Date: 17/12/2003 Effective Date: 17/12/2003 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
B	34m 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	34m 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



ID	Location	Details	
B	34m 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
B	34m 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	34m 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	34m 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	34m 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	34m 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: 26/10/2020 Status: SUPERCEDED
B	34m 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



ID	Location	Details	
B	34m 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: 26/10/2020 Status: SUPERCEDED
B	34m 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: 26/10/2020 Status: SUPERCEDED
B	34m 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: 26/10/2020 Status: SUPERCEDED
B	34m 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: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
C	70m 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: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: EFFECTIVE
C	70m S	Operator: SRCL LIMITED Installation Name: SRCL KNOWSLEY TREATMENT AND TRANSFER STATION Process: ASSOCIATED PROCESS Permit Number: KP3436NL Original Permit Number: KP3436NL	EPR Reference: - Issue Date: 16/12/2013 Effective Date: 16/12/2013 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
C	70m 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: - Issue Date: 16/12/2013 Effective Date: 16/12/2013 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
C	70m 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: - Issue Date: 16/12/2013 Effective Date: 16/12/2013 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
C	70m 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: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: SUPERCEDED
C	70m 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: 26/10/2020 Status: EFFECTIVE
C	70m 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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: EFFECTIVE



ID	Location	Details	
P	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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED
P	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
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: EFFECTIVE



ID	Location	Details	
P	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: 26/10/2020 Status: EFFECTIVE
P	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: UP3931AP Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 26/10/2015 Effective Date: 26/10/2015 Last date noted as effective: 26/10/2020 Status: EFFECTIVE
P	432m S	Operator: FUTURE INDUSTRIAL SERVICES LIMITED Installation Name: FUTURE INDUSTRIAL SERVICES LIMITED, ACORNFIELD ROAD WASTE MANAGEMENT CENTRE Process: ASSOCIATED PROCESS Permit Number: VP3936UG Original Permit Number: VP3936UG	EPR Reference: - Issue Date: 19/09/2008 Effective Date: 19/09/2008 Last date noted as effective: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: EFFECTIVE
P	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: 26/10/2020 Status: SUPERCEDED



ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED
P	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: 26/10/2020 Status: SUPERCEDED

ID	Location	Details	
P	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: 26/10/2020 Status: SUPERCEDED

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

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 43**

ID	Location	Address	Details	
J	220m 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
J	241m 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
9	321m 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
Q	458m 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 43**

ID	Location	Address	Details	
14	458m 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

0

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

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

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

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

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 43**

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, Perchloroethylene, Trichlorobenzene
P	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 43**

ID	Location	Name	Status	Receiving Water	Authorised Substances
B	39m N	Syntor Fine Chemicals, Knowsley Industrial L33 7uz	Active	-	Toluene, Xylene
H	153m NW	Nipa Laboratories Ltd, Woodyard Road	Not Active	River Alt	Toluene
H	153m NW	Archimica Ltd, Knowsley Industrial Park	Not Active	-	Toluene
H	153m NW	Organic Intermediates, Knowsley Industrial	Not Active	-	Toluene, Xylene
P	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

12

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 43**

ID	Location	Details	
D	124m 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)
H	211m 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)
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)
10	322m NW	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	324m 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	336m 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	336m 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)
12	355m 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)



ID	Location	Details	
Q	440m 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)
R	456m 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)
S	461m 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)
S	463m 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)

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

4.19 Pollution inventory substances

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on **page 43**

ID: P, Location: 432m S, Permit: VP3936UG
 Operator: Future Industrial Services Limited
 Activity: 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
 Address: Acornfield Road Waste Management Centre Acornfield Road Knowsley Industrial Park Merseyside L33 7UF
 Sector: Waste Treatment, Sub-sector: Hazardous
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	Below Reporting Threshold
Air	Arsenic	1kg	Below Reporting Threshold
Air	Cadmium	1kg	Below Reporting Threshold
Air	Chromium	10kg	Below Reporting Threshold
Air	Copper	10kg	Below Reporting Threshold
Air	Lead	100kg	Below Reporting Threshold
Air	Mercury	1kg	Below Reporting Threshold
Air	Nickel	10kg	Below Reporting Threshold
Air	Selenium	100kg	Below Reporting Threshold
Air	Zinc	100kg	Below Reporting Threshold
Wastewater	Arsenic	5kg	Below Reporting Threshold
Wastewater	Cadmium	1kg	Below Reporting Threshold
Wastewater	Chromium	20kg	Below Reporting Threshold
Wastewater	Copper	20kg	Below Reporting Threshold
Wastewater	Lead	20kg	Below Reporting Threshold
Wastewater	Mercury	0.1kg	Below Reporting Threshold
Wastewater	Nickel	20kg	Below Reporting Threshold
Wastewater	Zinc	100kg	Below Reporting Threshold
Air	Sulphur oxides (SO ₂ and SO ₃) as SO ₂	100000kg	Below Reporting Threshold
Wastewater	Chlorides - as Cl	2000000kg	Below Reporting Threshold
Wastewater	Cyanides - as CN	50kg	Below Reporting Threshold

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

4.20 Pollution inventory waste transfers

Records within 500m

2

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 43**



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 Knowsley Industrial Park Merseyside L33 7UR
 Sector: Waste Treatment, Sub-sector: Hazardous
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	4.6	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.6	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
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.77	Absolute Value	18 01 08	cytotoxic and cytostatic medicines	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.6	Absolute Value	18 01 09	medicines other than those mentioned in 18 01 08	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	8562.17	Absolute Value	19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09	No
D10	Incineration on Land	0.19	Absolute Value	07 05 14	solid wastes other than those mentioned in 07 05 13	No
D10	Incineration on Land	0.22	Absolute Value	18 01 01	sharps (except 18 01 03)	No
D10	Incineration on Land	1234.44	Absolute Value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	7.18	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)	5.05	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
D1	Deposit into or onto land (eg landfill, etc.)	1138.45	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	3.54	Absolute Value	18 01 06	chemicals consisting of or containing dangerous substances	Yes
D10	Incineration on Land	122.73	Absolute Value	18 01 08	cytotoxic and cytostatic medicines	Yes
D10	Incineration on Land	167.94	Absolute Value	18 01 09	medicines other than those mentioned in 18 01 08	No
D10	Incineration on Land	12.31	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	5.34	Absolute Value	18 02 03	wastes whose collection and disposal is not subject to special requirements in order to prevent infection	No
D10	Incineration on Land	1.45	Absolute Value	18 02 08	medicines other than those mentioned in 18 02 07	No
D1	Deposit into or onto land (eg landfill, etc.)	976.78	Absolute Value	19 02 10	combustible wastes other than those mentioned in 19 02 08 and 19 02 09	No



ID: P, Location: 432m S, Permit: VP3936UG
 Operator: Future Industrial Services Limited
 Activity: 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
 Address: Acornfield Road Waste Management Centre Acornfield Road Knowsley Industrial Park Merseyside L33 7UF
 Sector: Waste Treatment, Sub-sector: Hazardous
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.26	Absolute Value	01 01 01	wastes from mineral metalliferous excavation	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	28.32	Absolute Value	06 01 01	sulphuric acid and sulphurous acid	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.16	Absolute Value	06 01 02	hydrochloric acid	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1	Absolute Value	06 01 04	phosphoric and phosphorous acid	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	21.56	Absolute Value	06 01 05	nitric acid and nitrous acid	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	49.1	Absolute Value	06 01 06	other acids	Yes



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)	2.89	Absolute Value	06 01 06	other acids	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	4.36	Absolute Value	06 02 03	ammonium hydroxide	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	44.49	Absolute Value	06 02 04	sodium and potassium hydroxide	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.6	Absolute Value	06 02 05	other bases	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)	1.11	Absolute Value	06 02 05	other bases	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.7	Absolute Value	06 03 13	solid salts and solutions containing heavy metals	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.08	Absolute Value	06 04 04	wastes containing mercury	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.19	Absolute Value	06 04 05	wastes containing other heavy metals	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	19.51	Absolute Value	06 09 03	calcium-based reaction wastes containing or contaminated with dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.03	Absolute Value	07 01 01	aqueous washing liquids and mother liquors	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.29	Absolute Value	07 01 04	other organic solvents, washing liquids and mother liquors	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5	Absolute Value	07 02 08	other still bottoms and reaction residues	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.6	Absolute Value	07 02 12	sludges from on-site effluent treatment other than those mentioned in 07 02 11	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.8	Absolute Value	07 05 13	solid wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	4111.58	Absolute Value	07 06 01	aqueous washing liquids and mother liquors	Yes
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	8845.32	Absolute Value	07 06 01	aqueous washing liquids and mother liquors	Yes



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)	0.08	Absolute Value	07 06 04	other organic solvents, washing liquids and mother liquors	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	3.6	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	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)	33.06	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	8.76	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	76.76	Absolute Value	08 01 11	waste paint and varnish containing organic solvents or other dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	47.3	Absolute Value	08 01 12	waste paint and varnish other than those mentioned in 08 01 11	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.4	Absolute Value	08 01 13	sludges from paint or varnish containing organic solvents or other dangerous substances	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)	3.62	Absolute Value	08 01 13	sludges from paint or varnish containing organic solvents or other dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	190.15	Absolute Value	08 01 13	sludges from paint or varnish containing organic solvents or other dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R2	Solvent reclamation/regeneration	0.8	Absolute Value	08 01 13	sludges from paint or varnish containing organic solvents or other dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	58.09	Absolute Value	08 01 14	sludges from paint or varnish other than those mentioned in 08 01 13	No
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	27.19	Absolute Value	08 01 15	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	5.34	Absolute Value	08 01 17	wastes from paint or varnish removal containing organic solvents or other dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2	Absolute Value	08 01 20	aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19	No
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	9.19	Absolute Value	08 01 21	waste paint or varnish remover	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	11.97	Absolute Value	08 02 02	aqueous sludges containing ceramic materials	No
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	17.49	Absolute Value	08 03 12	waste ink containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	9	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	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)	18.52	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	12.38	Absolute Value	08 04 09	waste adhesives and sealants containing organic solvents or other dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	56.98	Absolute Value	08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.12	Absolute Value	08 04 11	adhesive and sealant sludges containing organic solvents or other dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	5.47	Absolute Value	08 04 11	adhesive and sealant sludges containing organic solvents or other dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.52	Absolute Value	08 05 01	waste isocyanates	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)	0.05	Absolute Value	08 05 01	waste isocyanates	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	7.54	Absolute Value	10 01 24	sands from fluidised beds	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	3.6	Absolute Value	10 12 03	particulates and dust	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	3.18	Absolute Value	11 01 05	pickling acids	Yes



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)	0.49	Absolute Value	11 01 05	pickling acids	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	31.87	Absolute Value	11 01 06	acids not otherwise specified	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)	0.98	Absolute Value	11 01 06	acids not otherwise specified	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	15.44	Absolute Value	11 01 10	sludges and filter cakes other than those mentioned in 11 01 09	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.77	Absolute Value	11 01 11	aqueous rinsing liquids containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	11.34	Absolute Value	11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	4.82	Absolute Value	11 01 13	degreasing wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.25	Absolute Value	11 01 14	degreasing wastes other than those mentioned in 11 01 13	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.87	Absolute Value	11 01 98	other wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.6	Absolute Value	12 01 14	machining sludges containing dangerous substances	Yes
D1	Deposit into or onto land (eg landfill, etc.)	8	Absolute Value	12 01 16	waste blasting material containing dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	30.06	Absolute Value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.77	Absolute Value	13 02 08	other engine, gear and lubricating oils	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.41	Absolute Value	13 03 07	mineral-based non-chlorinated insulating and heat transmission oils	Yes
R9	Oil e-refining or other reuses of oil	23.62	Absolute Value	13 04 03	bilge oils from other navigation	Yes
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	157.74	Absolute Value	13 05 02	sludges from oil/water separators	Yes
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	4.42	Absolute Value	13 05 03	interceptor sludges	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1	Absolute Value	13 05 07	oily water from oil/water separators	Yes
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	1.4	Absolute Value	13 05 07	oily water from oil/water separators	Yes



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)	1.35	Absolute Value	13 07 02	petrol	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	0.6	Absolute Value	13 07 02	petrol	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)	9.1	Absolute Value	13 07 03	other fuels (including mixtures)	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	2.2	Absolute Value	13 07 03	other fuels (including mixtures)	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)	22.53	Absolute Value	14 06 03	other solvents and solvent mixtures	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	23.4	Absolute Value	14 06 03	other solvents and solvent mixtures	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)	40.93	Absolute Value	15 01 02	plastic packaging	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)	90.6	Absolute Value	15 01 06	mixed packaging	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.05	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	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)	32.01	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	4.13	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	3.97	Absolute Value	15 01 10	packaging containing residues of or contaminated by dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.92	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	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)	3.84	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	37.16	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes
D10	Incineration on Land	0.35	Absolute Value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	1.95	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.5	Absolute Value	16 01 14	antifreeze fluids containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	72.27	Absolute Value	16 03 03	inorganic wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	58.92	Absolute Value	16 03 04	inorganic wastes other than those mentioned in 16 03 03	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	11.16	Absolute Value	16 03 05	organic wastes containing dangerous substances	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)	5.4	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	51.14	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	221.14	Absolute Value	16 03 06	organic wastes other than those mentioned in 16 03 05	No
D1	Deposit into or onto land (eg landfill, etc.)	3.58	Absolute Value	16 03 06	organic wastes other than those mentioned in 16 03 05	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	12.63	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	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)	5.25	Absolute Value	16 05 04	gases in pressure containers (including halons) containing dangerous substances	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)	0.4	Absolute Value	16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.64	Absolute Value	16 05 07	discarded inorganic chemicals consisting of or containing dangerous substances	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)	2.16	Absolute Value	16 05 07	discarded inorganic chemicals consisting of or containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.27	Absolute Value	16 05 08	discarded organic chemicals consisting of or containing dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	27.84	Absolute Value	16 05 08	discarded organic chemicals consisting of or containing dangerous substances	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)	0.2	Absolute Value	16 06 01	lead batteries	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)	0.3	Absolute Value	16 06 02	Ni-Cd batteries	Yes



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)	0.26	Absolute Value	16 06 04	alkaline batteries (except 16 06 03)	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)	0.21	Absolute Value	16 06 05	other batteries and accumulators	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	21.46	Absolute Value	16 06 06	separately collected electrolyte from batteries and accumulators	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)	0.5	Absolute Value	16 07 09	wastes containing other dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1.2	Absolute Value	16 07 09	wastes containing other dangerous substances	Yes
R8	Recovery of components from catalysts	1049.79	Absolute Value	16 08 02	spent catalysts containing dangerous transition metals (3) or dangerous transition metal compounds	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.65	Absolute Value	16 09 03	peroxides, for example hydrogen peroxide	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	75.87	Absolute Value	16 10 01	aqueous liquid wastes containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	2.18	Absolute Value	16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	11	Absolute Value	16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.26	Absolute Value	17 03 01	bituminous mixtures containing coal tar	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.18	Absolute Value	17 06 01	insulation materials containing asbestos	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	105.68	Absolute Value	19 01 07	solid wastes from gas treatment	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	17.8	Absolute Value	19 02 04	premixed wastes composed of at least one hazardous waste	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	52.71	Absolute Value	19 02 04	premixed wastes composed of at least one hazardous waste	Yes
D1	Deposit into or onto land (eg landfill, etc.)	12.22	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	39.95	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	Yes
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	3274.14	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	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)	21.24	Absolute Value	19 02 07	oil and concentrates from separation	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	9.18	Absolute Value	19 02 07	oil and concentrates from separation	Yes
R9	Oil e-refining or other reuses of oil	38.42	Absolute Value	19 02 07	oil and concentrates from separation	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	51.95	Absolute Value	19 08 13	sludges containing dangerous substances from other treatment of industrial waste water	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	2.56	Absolute Value	19 11 05	sludges from on-site effluent treatment containing dangerous substances	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)	76.37	Absolute Value	19 12 02	ferrous metal	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)	8.98	Absolute Value	19 12 03	non-ferrous metal	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	32.35	Absolute Value	19 12 11	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	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)	15	Absolute Value	19 12 11	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	Yes
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	1827.12	Absolute Value	19 12 11	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	Yes



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	35.08	Absolute Value	19 12 11	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.6	Absolute Value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	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)	0.08	Absolute Value	20 01 13	solvents	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)	0.42	Absolute Value	20 01 21	fluorescent tubes and other mercury-containing waste	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)	1.43	Absolute Value	20 01 23	discarded equipment containing chlorofluorocarbons	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.6	Absolute Value	20 01 25	edible oil and fat	No
R12	Exchange of wastes obtained from any of the operations numberd R1 to R11	224.12	Absolute Value	20 01 27	paint, inks, adhesives and resins containing dangerous substances	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	5.26	Absolute Value	20 01 29	detergents containing dangerous substances	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)	0.95	Absolute Value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes



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)	0.05	Absolute Value	20 01 36	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	No
R12	Exchange of wastes obtained from any of the operations numbered R1 to R11	125.47	Absolute Value	07 01 08	other still bottoms and reaction residues	Yes

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

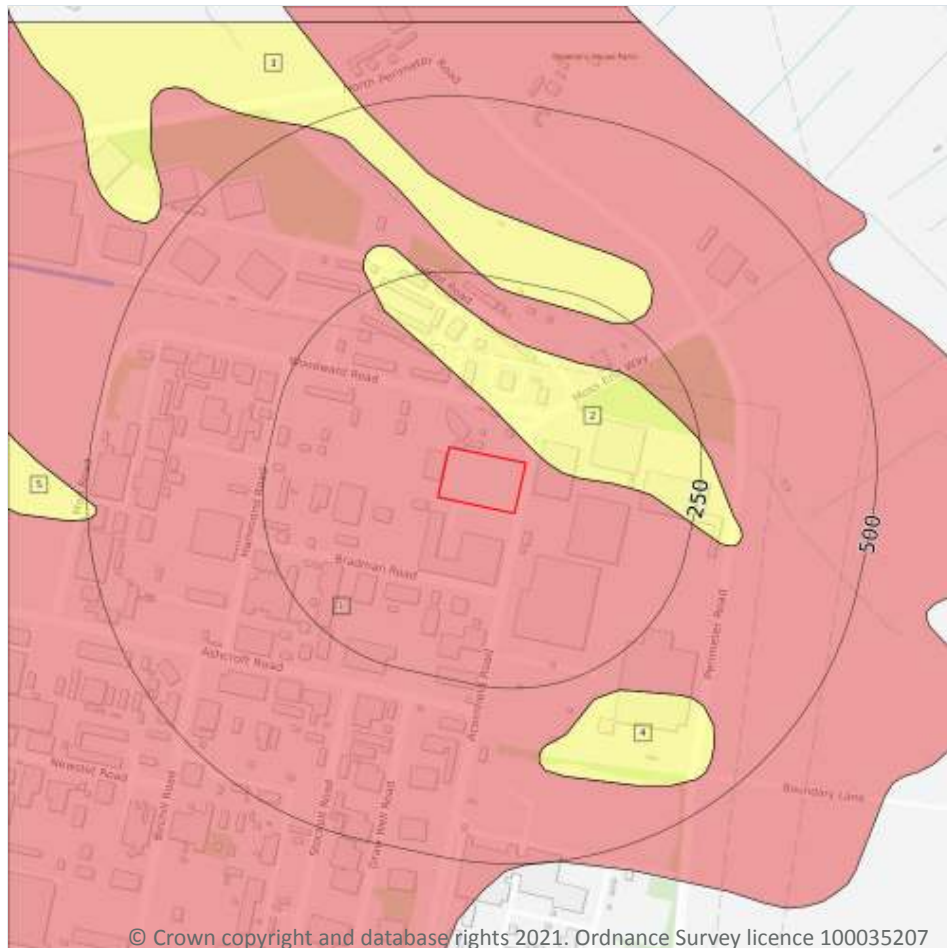
4.21 Pollution inventory radioactive waste

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

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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 95**

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	20m 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

ID	Location	Designation	Description
3	227m N	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	289m 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	488m 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

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

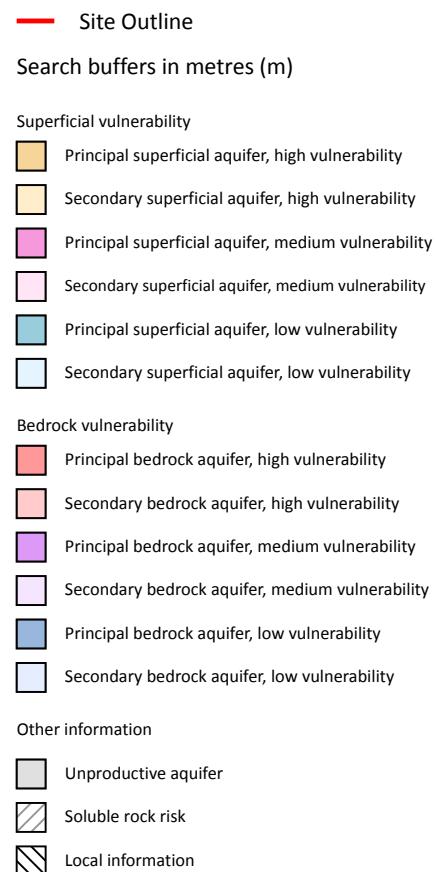
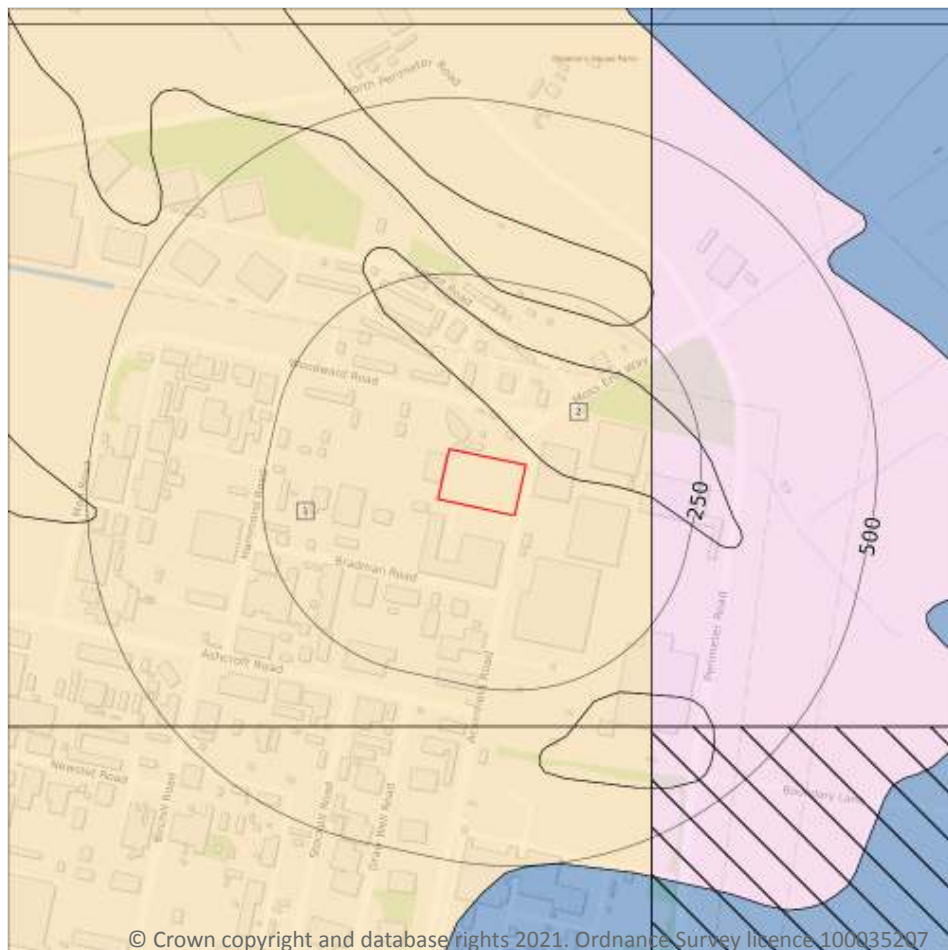
Features are displayed on the Bedrock aquifer map on **page 97**

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 98**

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	20m NE	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

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

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 100**

ID	Location	Details	
B	316m S	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 S	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 S	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): 1,591,135 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 S	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): 1,591,135 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	501m 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: -
C	501m 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): 90,920 Max Daily Volume (m ³): 340.95 Original Application No: - Original Start Date: 01/07/1988 Expiry Date: - Issue No: 102 Version Start Date: 26/07/2016 Version End Date: -
D	690m 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): 250,030 Max Daily Volume (m ³): 818.28 Original Application No: - Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
D	690m 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): 250,030 Max Daily Volume (m ³): 818.28 Original Application No: - Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
D	690m 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): 250,030 Max Daily Volume (m ³): 818.28 Original Application No: - Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -



ID	Location	Details	
-	711m 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: -
-	711m 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: -
-	711m 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: -
-	974m 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): 150,000 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: -
-	1440m 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: -



ID	Location	Details	
-	1440m 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): 150,000 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: -
-	1440m 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): 150,000 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: -
-	1440m 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): 150,000 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: -
-	1440m 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): 150,000 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	
-	1447m 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: -
-	1447m 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: -
-	1447m 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: -
-	1447m 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: -
-	1447m 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: -



ID	Location	Details	
-	1447m 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: -
-	1450m 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: -
-	1450m 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: -
-	1450m 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: -
-	1450m 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	
-	1450m 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: -
-	1450m 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: -
-	1465m 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: -
-	1558m 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): 12,000 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: -

ID	Location	Details	
-	1607m 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: -
-	1607m 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: -
-	1608m 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: -
-	1608m 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	
-	1608m 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): 4,546 Max Daily Volume (m ³): 113.65 Original Application No: - Original Start Date: 04/11/1991 Expiry Date: - Issue No: 102 Version Start Date: 18/12/2018 Version End Date: -
-	1769m 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): 1,464,000 Max Daily Volume (m ³): 8,000 Original Application No: - 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: 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: -
-	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): 36,368 Max Daily Volume (m ³): 100 Original Application No: - 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): 36,368 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 101 Version Start Date: 12/12/2005 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	2
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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 100**

ID	Location	Details	
A	280m 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: -
A	280m E	Status: Active 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): 45,460 Max Daily Volume (m ³): 1,000.12 Original Application No: - Original Start Date: 14/06/1984 Expiry Date: - Issue No: 100 Version Start Date: 14/06/1984 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 100**

ID	Location	Details	
D	690m 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): 250,030 Max Daily Volume (m ³): 818.28 Original Application No: - Original Start Date: 20/01/1989 Expiry Date: - Issue No: 101 Version Start Date: 18/03/2011 Version End Date: -
-	1769m 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): 1,464,000 Max Daily Volume (m ³): 8,000 Original Application No: - 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 100**

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

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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 113**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	229m 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	237m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
1	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	244m 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 113**

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 113**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	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 113**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	1693m NE	River	Simonswood Brook	GB112069060630	Moderate	Good	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site

2

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 113**

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	2015
A	On site	Lower Mersey Basin and North Merseyside Permo-Triassic Sandstone Aquifers	GB41201G101700	Poor	Poor	Poor	2016

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



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

7.2 Historical Flood Events

Records within 250m

0

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

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

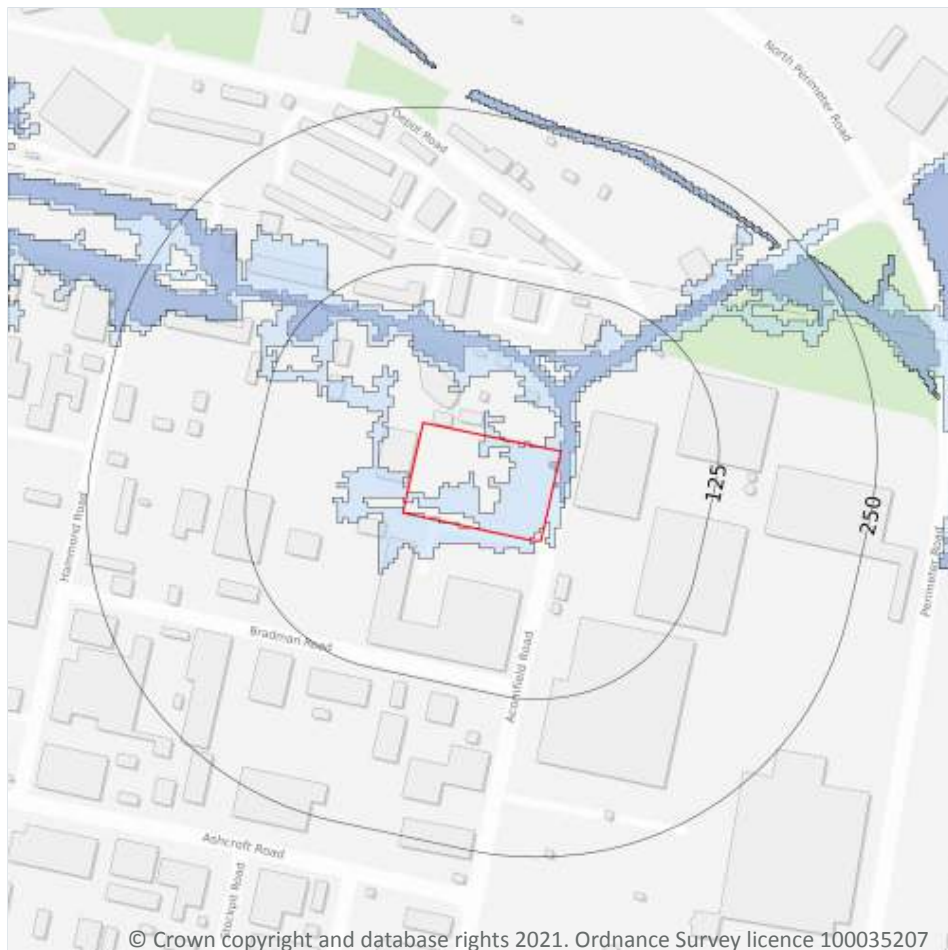
0

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

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 116**

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.

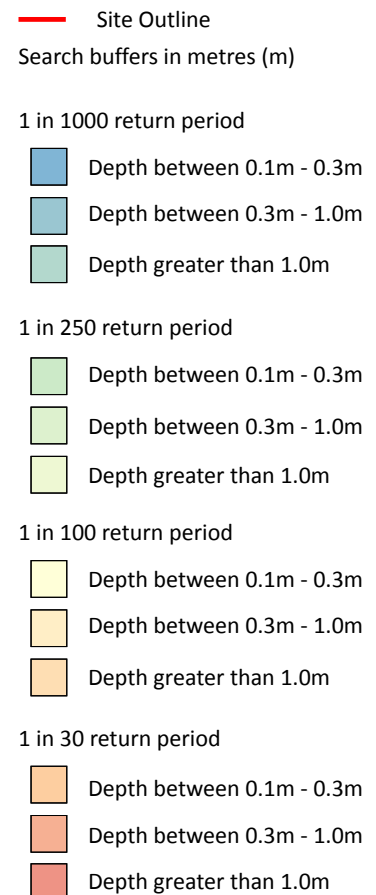
Features are displayed on the River and coastal flooding map on **page 116**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



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 120**

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 Ambiantal 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 122**

This data is sourced from Ambient 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 123**

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 123**

ID	Location	Name	Local Authority name
1	267m NE	Liverpool and Manchester	West Lancashire
2	443m SE	Liverpool and Manchester	Knowsley
-	1563m E	Liverpool and 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	S642	Existing
271m NE	ALT NVZ	Surface Water	S642	Existing
1920m E	Sankey Brook (Black Bk to Mersey) NVZ	Surface Water	S639	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
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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
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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 English Heritage, 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 English Heritage, 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 English Heritage, 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 English Heritage, 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 131**

ID	Location	Classification	Description
1	On site	Urban	-
2	227m NE	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.

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

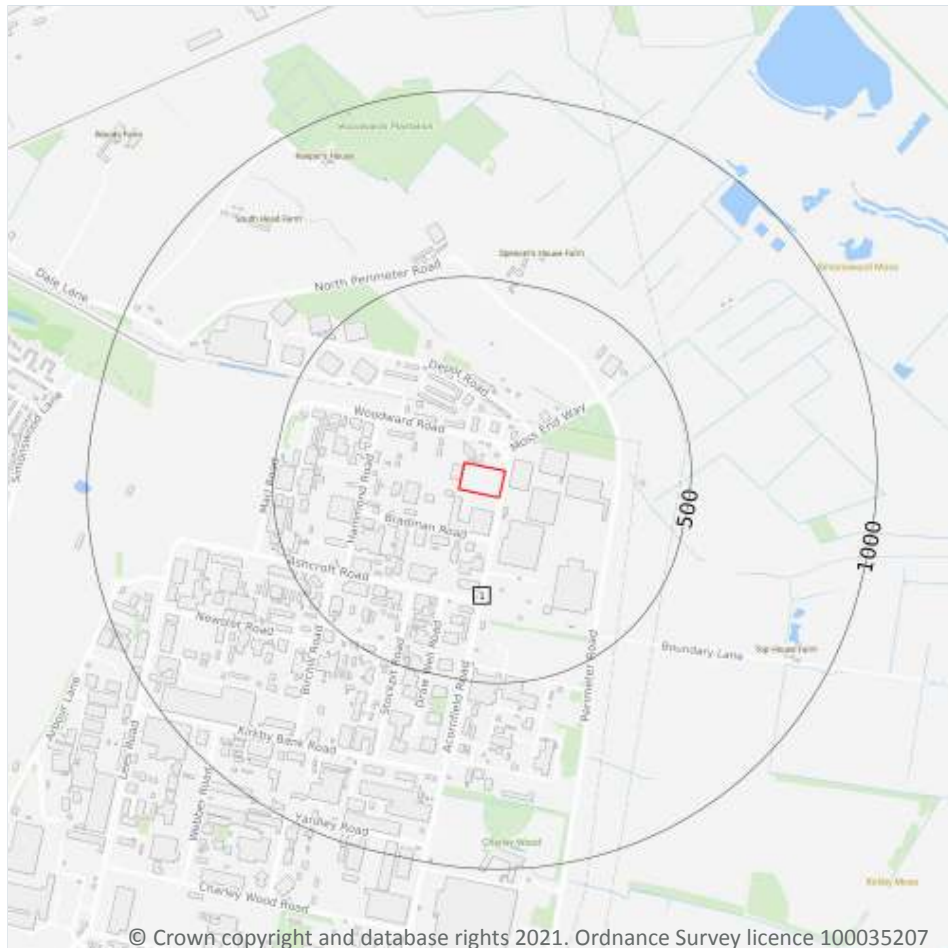
0

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 134**

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

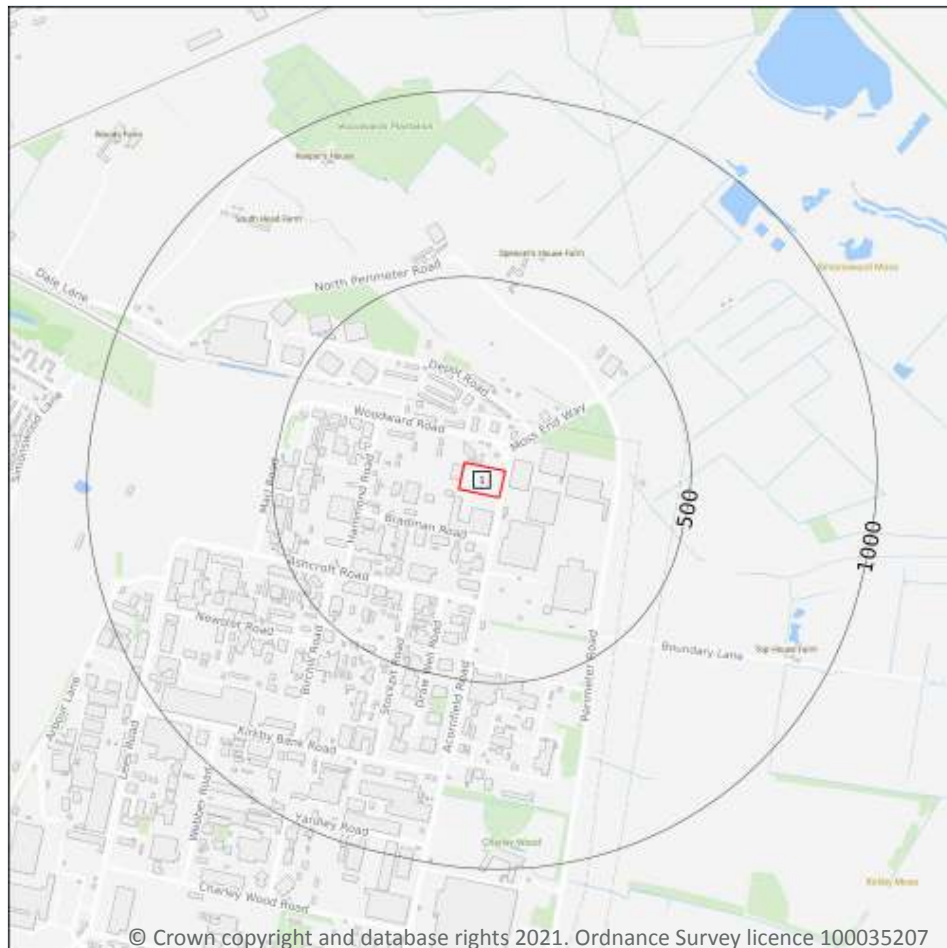
0

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.

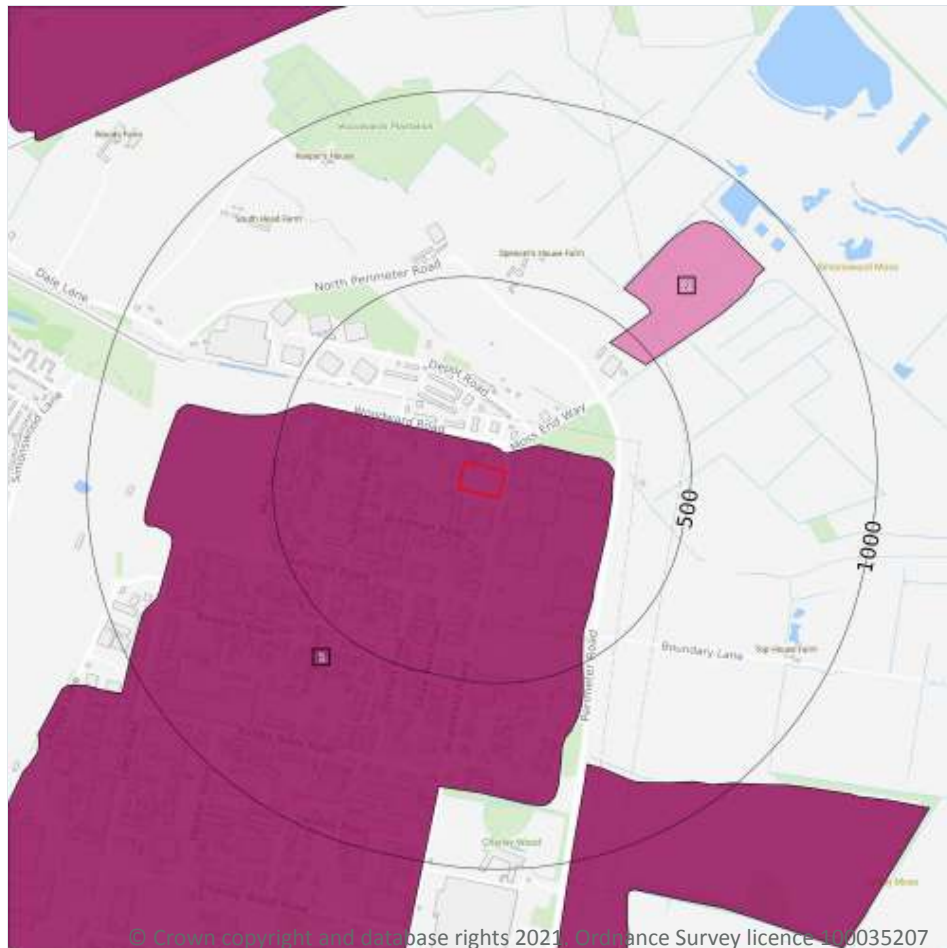
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 138**

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 139**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	445m 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

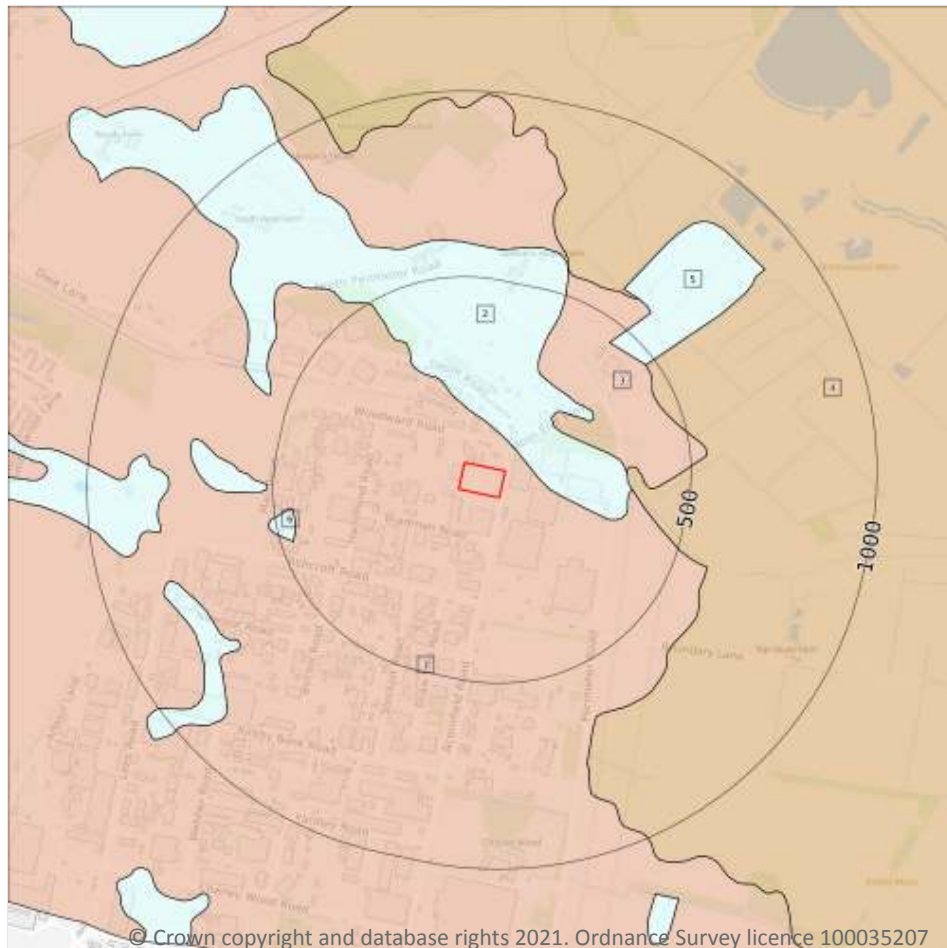
0

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).

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

6

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 141**

ID	Location	LEX Code	Description	Rock description
1	On site	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND
2	58m NE	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
3	177m NE	SSA-S	SHIRDLEY HILL SAND FORMATION	SAND
4	327m E	PEAT-P	PEAT	PEAT



ID	Location	LEX Code	Description	Rock description
5	445m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	449m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
---------------------------	----------

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
20m NE	Mixed	High	Low

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.

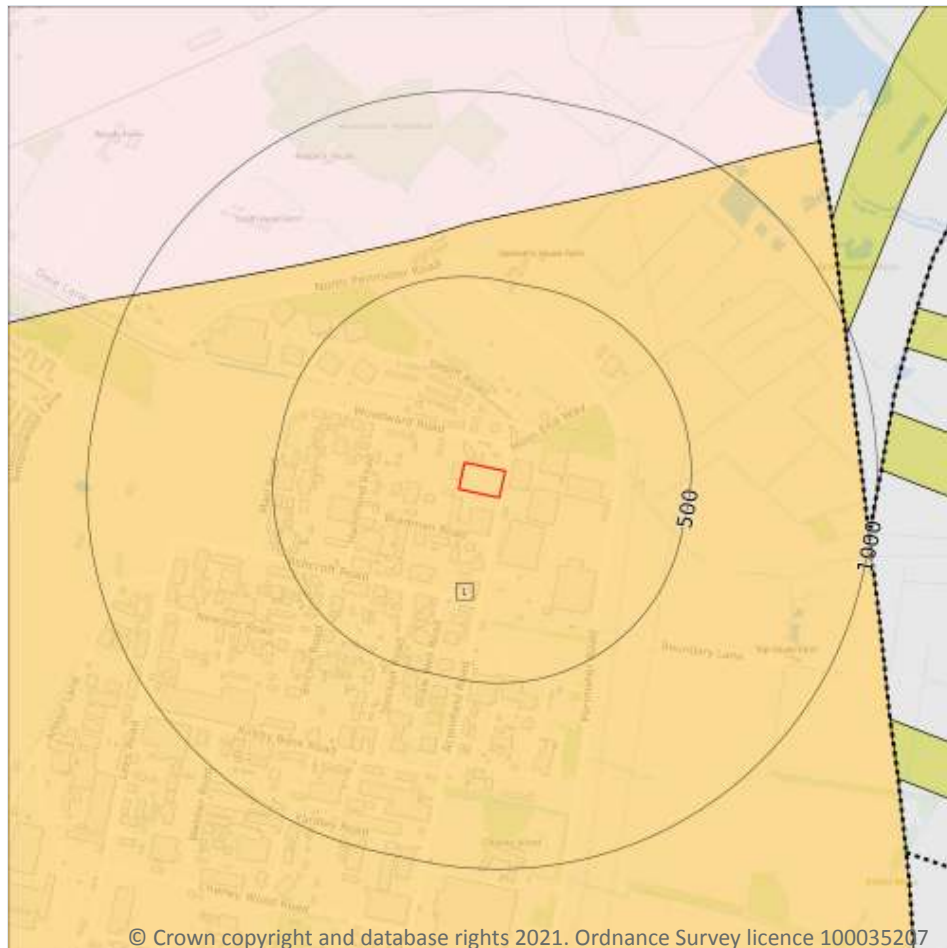
15.7 Landslip permeability (50k)

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 143**

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	High

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

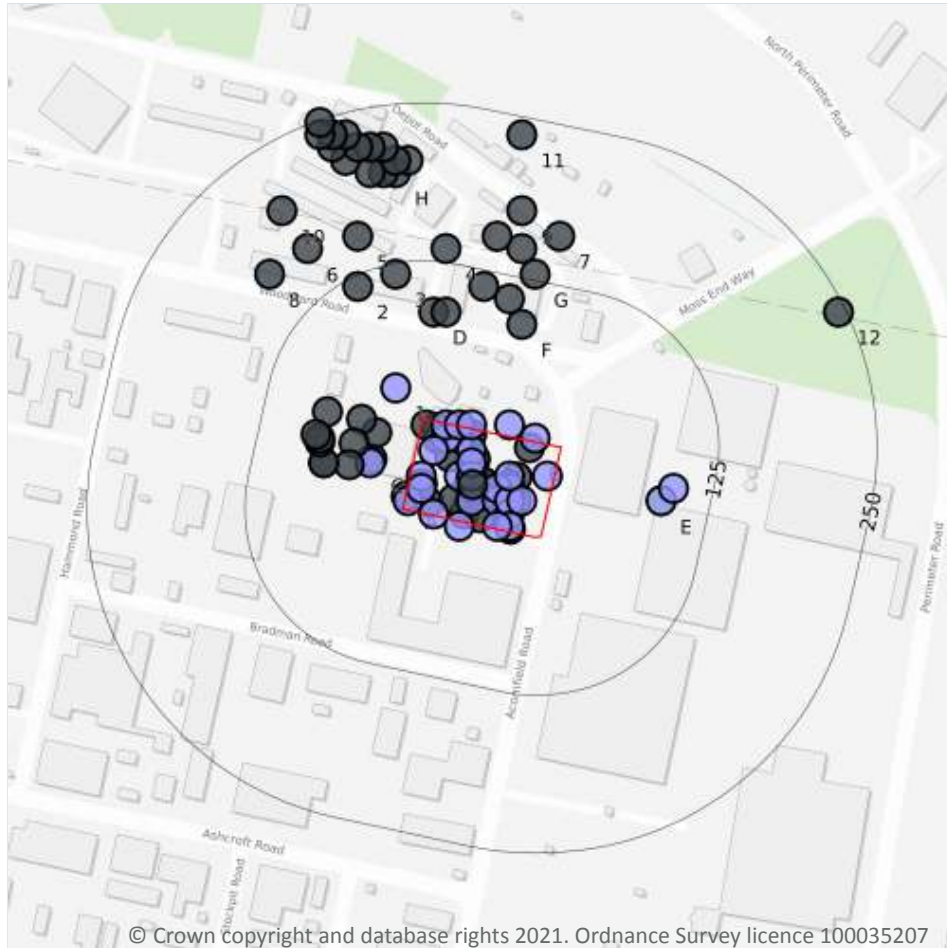
Records within 500m**0**

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

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16.1 BGS Boreholes

Records within 250m

110

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 145**

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
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



ID	Location	Grid reference	Name	Length	Confidential	Web link
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
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	343796 399372	Syntor Knowsley Part 2a EBH503	-	Y	N/A
A	1m N	343740 399390	CLARIANT PHASE I & II KIRKBY 208	4.0	N	17529619
A	3m N	343750 399390	CLARIANT PHASE I & II KIRKBY 309	3.2	N	17529632
B	3m N	343800 399380	CLARIANT PHASE I & II KIRKBY 101	4.0	N	17529519
A	4m S	343740 399310	CLARIANT PHASE I & II KIRKBY 315	4.0	N	17529642



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	9m N	343780 399390	CLARIANT PHASE I & II KIRKBY 206	9.0	N	17529617
C	33m W	343671 399363	Syntor Knowsley Part 2a EHP502	-	Y	N/A
C	33m W	343670 399360	CLARIANT PHASE I & II KIRKBY 202	9.0	N	17529615
1	33m NW	343690 399420	CLARIANT PHASE I & II KIRKBY 201	4.5	N	17529614
C	33m W	343675 399384	Syntor Knowsley Part 2a EHP501	-	Y	N/A
C	47m W	343663 399395	Syntor Knowsley Part 2a EWS504	-	Y	N/A
C	49m W	343657 399376	Syntor Knowsley Part 2a EWS505	-	Y	N/A
C	49m W	343653 399359	Syntor Knowsley Part 2a EWS506	-	Y	N/A
C	69m W	343633 399360	Syntor Knowsley Part 2a EWS503A	-	Y	N/A
C	69m W	343633 399360	Syntor Knowsley Part 2a EWS503	-	Y	N/A
C	75m W	343636 399401	Syntor Knowsley Part 2a EWS501	-	Y	N/A
C	76m W	343630 399377	Syntor Knowsley Part 2a EWS502A	-	Y	N/A
C	76m W	343630 399380	Syntor Knowsley Part 2a EWS502	-	Y	N/A
C	80m W	343627 399383	Syntor Knowsley Part 2a EWS502B	-	Y	N/A
D	85m N	343720 399480	KNOWSLEY INDUSTRIAL PARK NORTH 15	-	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
D	87m N	343730 399480	KNOWSLEY INDUSTRIAL PARK NORTH 16	-	Y	N/A
F	89m N	343790 399470	KNOWSLEY INDUSTRIAL PARK NORTH 19	-	Y	N/A
E	94m E	343910 399340	ACORNFIELD ROAD KNOWSLEY INDUSTRIAL PARK NORTH KIRKBY 2	9.75	N	17561949
F	107m N	343780 399490	MERSEYSIDE COUNCIL 6	-	Y	N/A
F	112m N	343760 399500	KNOWSLEY INDUSTRIAL PARK NORTH 18	-	Y	N/A
2	117m NW	343660 399500	KNOWSLEY INDUSTRIAL PARK NORTH 12	-	Y	N/A
3	117m N	343690 399510	KNOWSLEY INDUSTRIAL PARK NORTH 13	-	Y	N/A
G	130m N	343800 399510	KNOWSLEY INDUSTRIAL PARK NORTH 20	-	Y	N/A
4	136m N	343730 399530	KNOWSLEY INDUSTRIAL PARK NORTH 14	-	Y	N/A
G	148m N	343790 399530	KNOWSLEY INDUSTRIAL PARK NORTH 23	-	Y	N/A

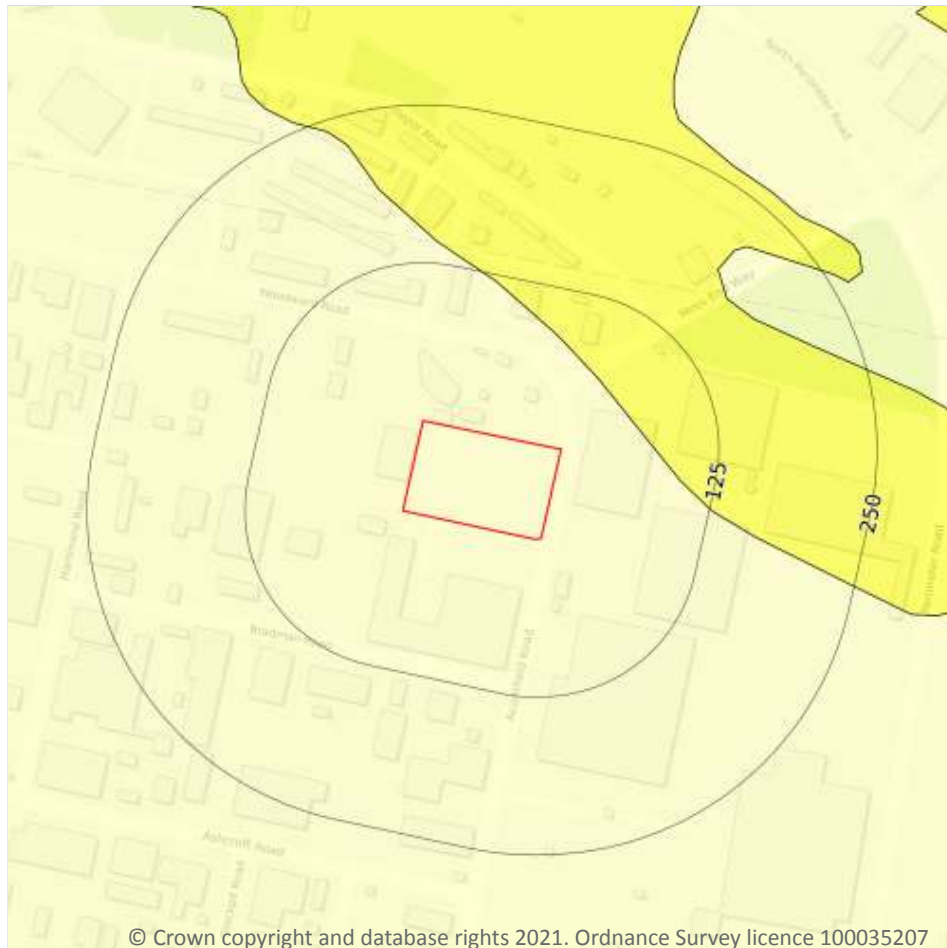


ID	Location	Grid reference	Name	Length	Confidential	Web link
G	154m N	343770 399540	KNOWSLEY INDUSTRIAL PARK NORTH 21	-	Y	N/A
5	154m N	343660 399540	KNOWSLEY INDUSTRIAL PARK NORTH 11	-	Y	N/A
6	163m NW	343620 399530	KNOWSLEY INDUSTRIAL PARK NORTH 10	-	Y	N/A
7	164m N	343820 399540	KNOWSLEY INDUSTRIAL PARK NORTH 24	-	Y	N/A
8	167m NW	343590 399510	KNOWSLEY INDUSTRIAL PARK NORTH 9	-	Y	N/A
9	177m N	343790 399560	KNOWSLEY INDUSTRIAL PARK NORTH 22	-	Y	N/A
H	196m N	343690 399590	NORTH MERSEY BUSINESS CENTRE 7	-	Y	N/A
H	197m N	343680 399590	NORTH MERSEY BUSINESS CENTRE TP 2	-	Y	N/A
10	199m NW	343600 399560	KNOWSLEY INDUSTRIAL PARK NORTH 8	-	Y	N/A
H	199m N	343670 399590	NORTH MERSEY BUSINESS CENTRE 6	-	Y	N/A
H	205m N	343700 399600	NORTH MERSEY BUSINESS CENTRE A	-	Y	N/A
H	206m N	343690 399600	NORTH MERSEY BUSINESS CENTRE TP 1	-	Y	N/A
H	214m N	343650 399600	NORTH MERSEY BUSINESS CENTRE TP 4	-	Y	N/A
H	217m N	343680 399610	NORTH MERSEY BUSINESS CENTRE 5	-	Y	N/A
H	219m N	343670 399610	NORTH MERSEY BUSINESS CENTRE TP 3	-	Y	N/A
H	221m N	343660 399610	NORTH MERSEY BUSINESS CENTRE 4	-	Y	N/A
H	226m N	343640 399610	NORTH MERSEY BUSINESS CENTRE 3	-	Y	N/A
H	233m N	343650 399620	NORTH MERSEY BUSINESS CENTRE 2	-	Y	N/A
H	236m N	343640 399620	NORTH MERSEY BUSINESS CENTRE TP 5	-	Y	N/A
H	236m N	343640 399620	NORTH MERSEY BUSINESS CENTRE B	-	Y	N/A
11	236m N	343790 399620	MERSEYSIDE COUNCIL 8	-	Y	N/A
H	239m N	343630 399620	NORTH MERSEY BUSINESS CENTRE 1	-	Y	N/A
12	244m NE	344040 399480	MERSEYSIDE COUNCIL 7	-	Y	N/A
H	249m N	343630 399630	NORTH MERSEY BUSINESS CENTRE TP 6	-	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

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).

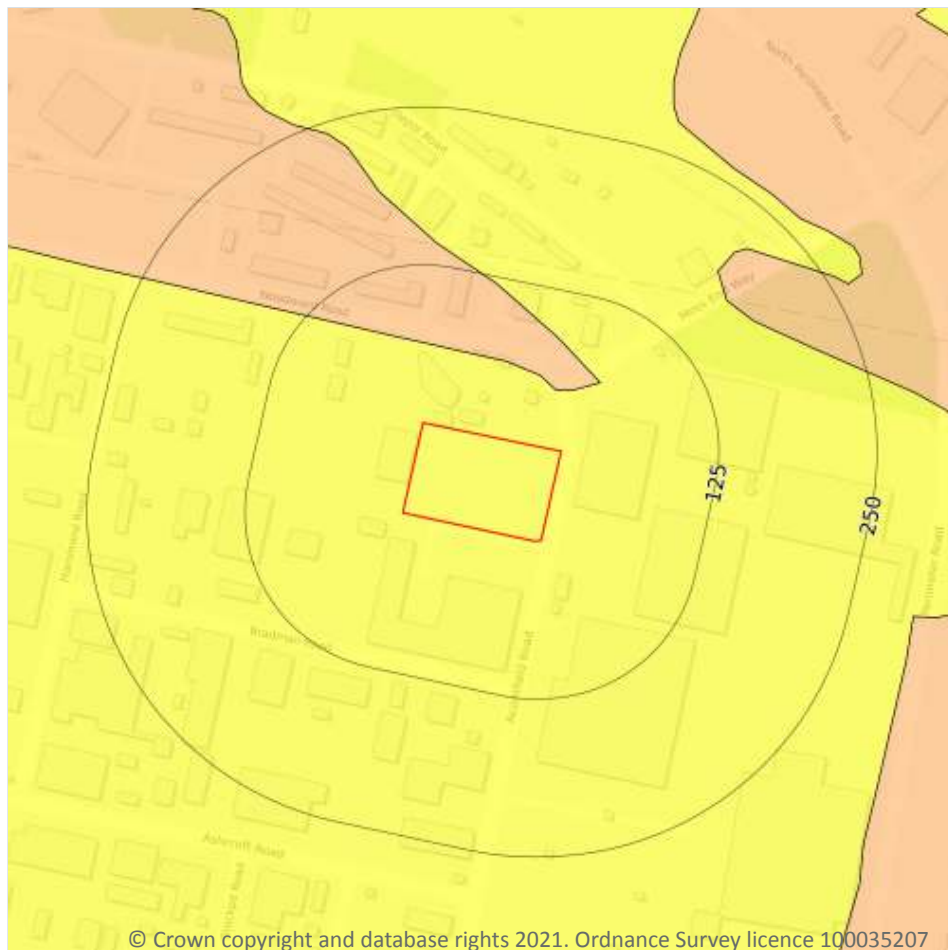
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 150**

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



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

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 151**

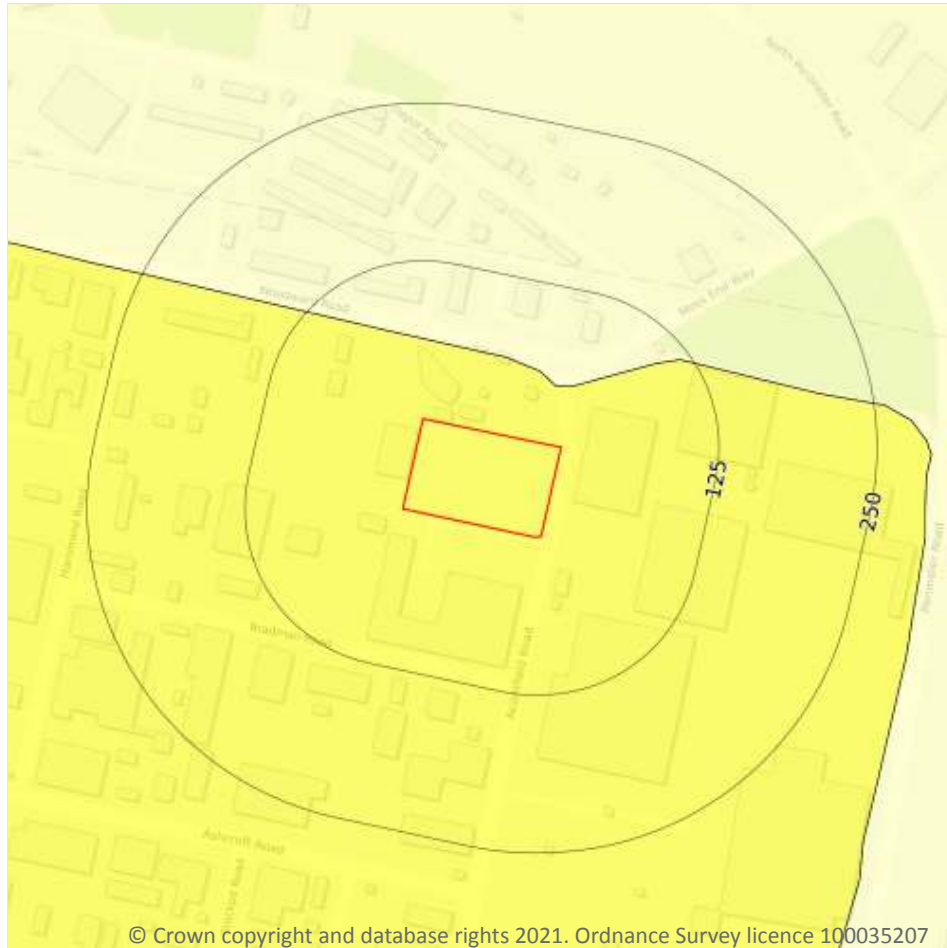
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
47m N	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



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

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 153**

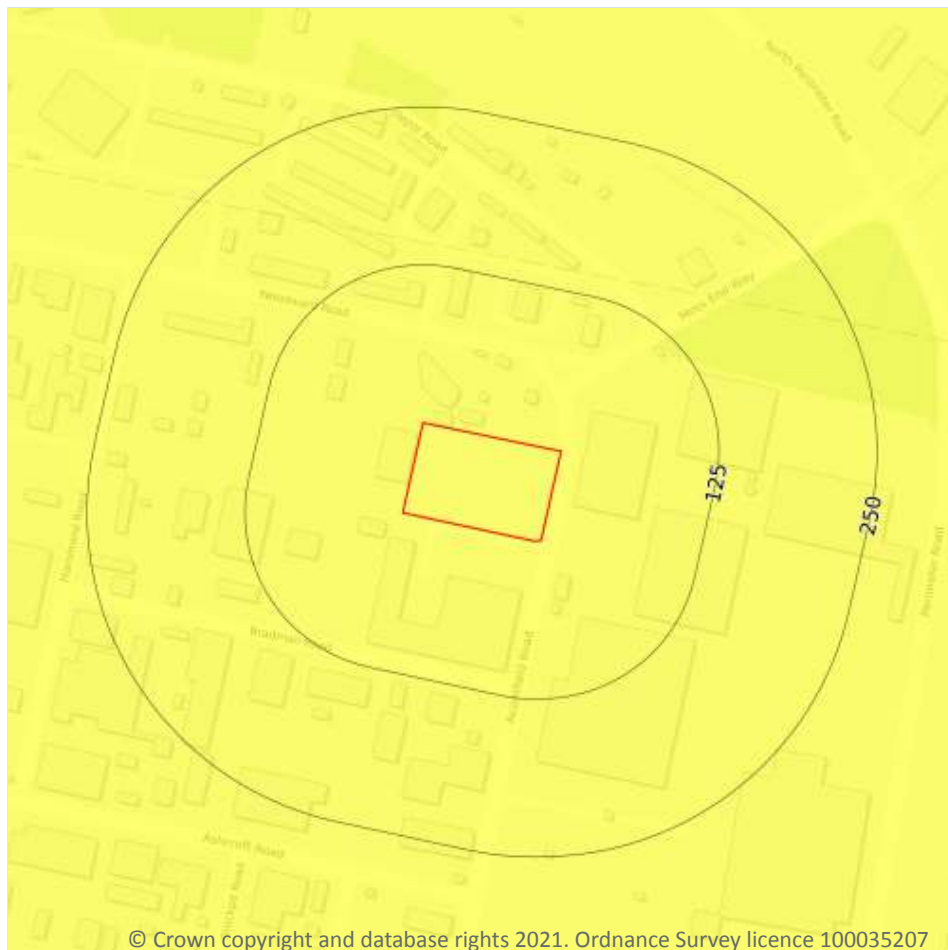
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.
47m N	Negligible	Compressible strata are not thought to occur.



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.

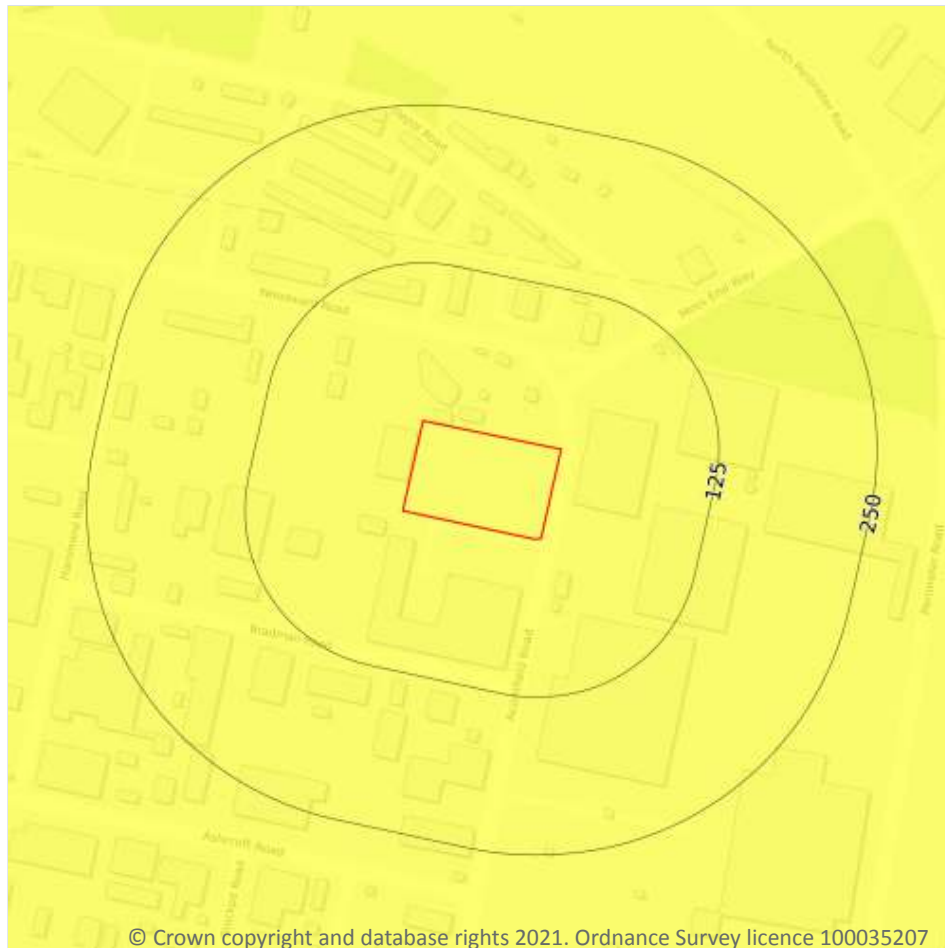
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 155**

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



- 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 156**

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

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.

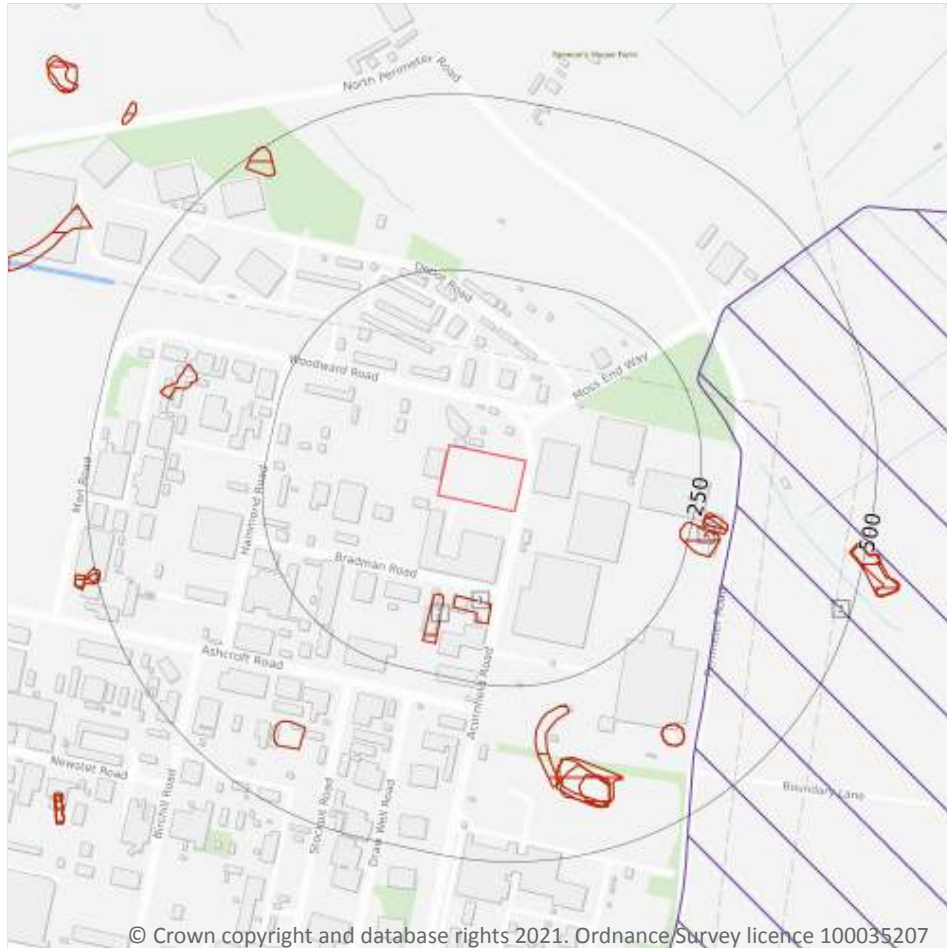
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 157**

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, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- 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 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 Peter Brett Associates (PBA).

18.2 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.

18.3 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, ground workings and natural cavities map on **page 159**

ID	Location	Land Use	Year of mapping	Mapping scale
1	134m S	Unspecified Heaps	1976	1:10000
2	138m S	Unspecified Heap	1976	1:10000
A	236m E	Marl Pit	1907	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 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 data is sourced from Ordnance Survey/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, ground workings and natural cavities map on **page 159**



ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	270m NE	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 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 Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0
------------------------	----------

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

This data is sourced from Johnson Poole and Bloomer.

18.9 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.

18.10 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.

18.11 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

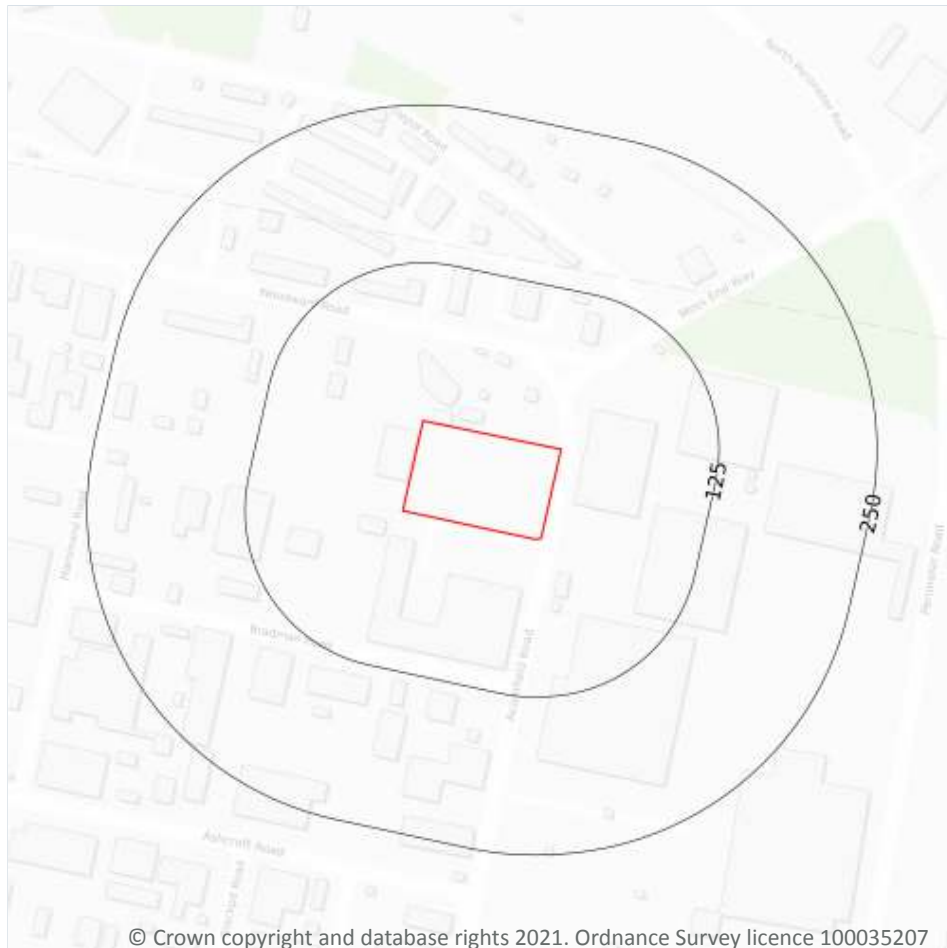
18.13 Clay mining

Records on site	0
-----------------	---

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 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 163**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 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
20m NE	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.

20.2 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.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

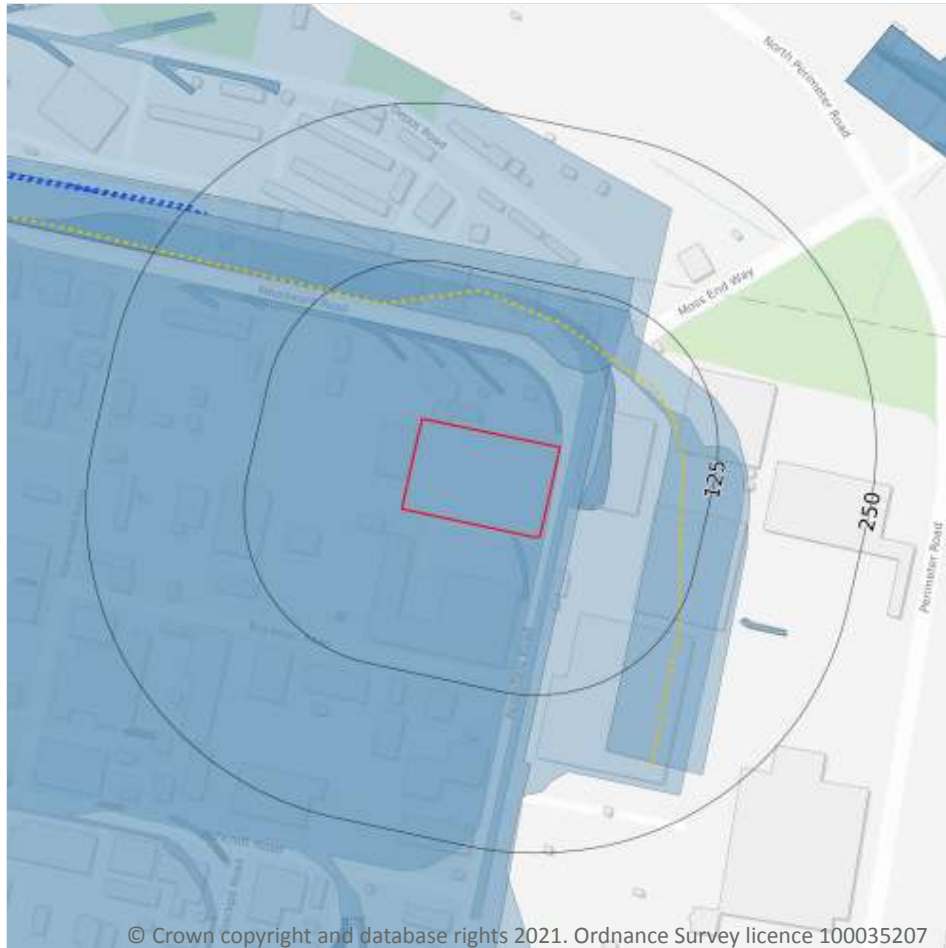
0

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.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- 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

21.1 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.

21.2 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.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

14

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 165**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1961	2500
On site	Railway Sidings	1966	10560
On site	Railway Sidings	1976	10000
4m S	Railway Sidings	1962	1250
11m N	Railway Sidings	1971	1250
24m E	Railway Sidings	1962	1250
32m N	Railway Sidings	1962	1250
63m N	Railway Sidings	1955	10560
94m SW	Railway Sidings	1971	1250
153m NW	Railway Sidings	1962	1250
171m SE	Railway Sidings	1992	1250
173m SE	Railway Sidings	1994	1250
184m NW	Railway Sidings	1962	1250
249m NW	Railway Sidings	1962	1250

This data is sourced from Ordnance Survey/Groundsure.



21.5 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.

21.6 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 165**

Location	Description
81m NE	Razed

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m**2**

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 165**

Location	Name	Type
236m NW	-	rail
247m NW	-	rail

This data is sourced from Ordnance Survey and OpenStreetMap.



21.8 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.

21.9 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.

21.10 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>.

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SMALL SCALE SURVEY PLANS



Site Details:

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Field Road, Knowsley, L33 7UZ

Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: County Series

Map date: 1925-1928

Scale: 1:10,560

Printed at: 1:10,560



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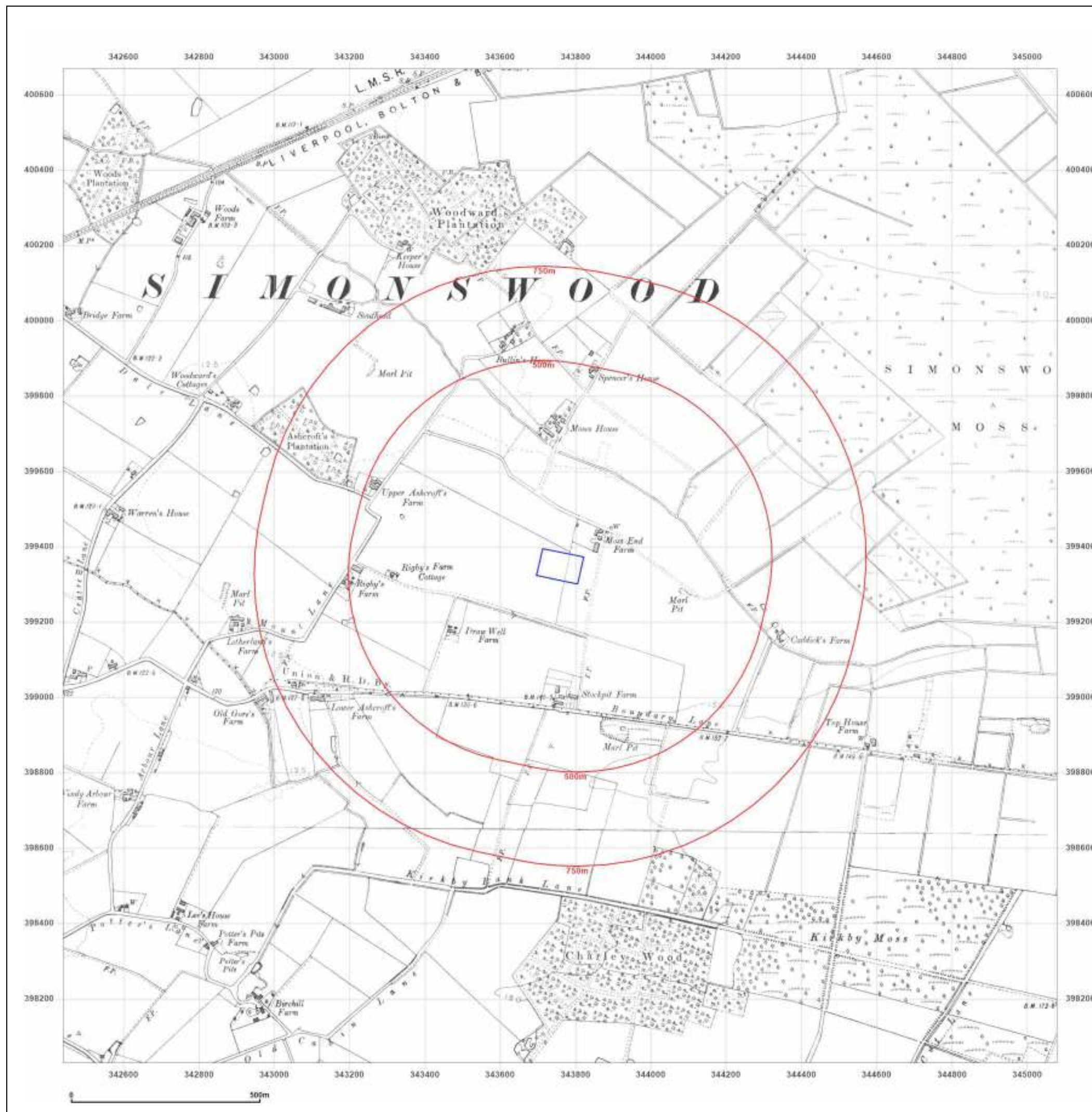


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1949
Edition 1955
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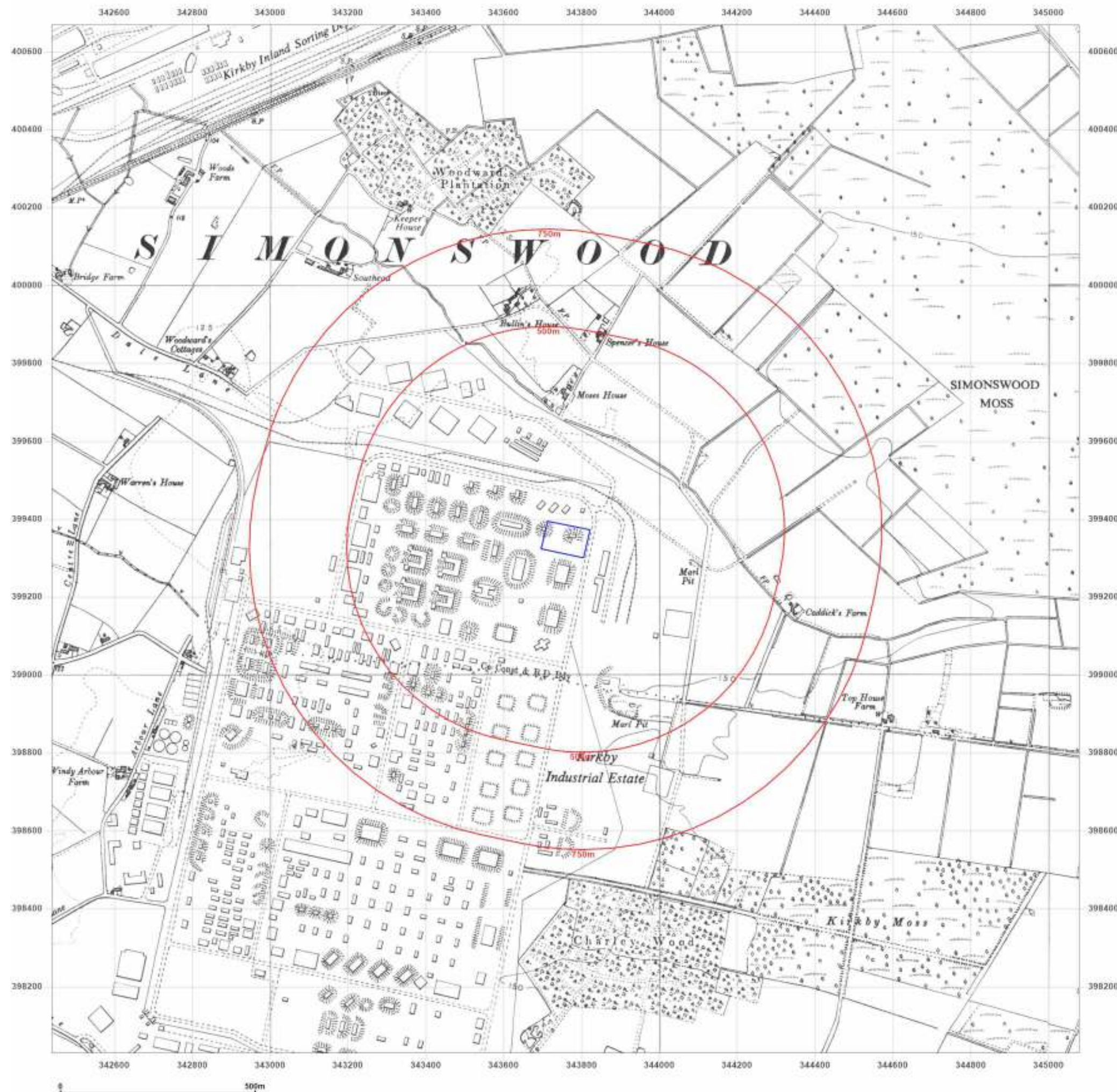


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: Provisional

Map date: 1965-1967

Scale: 1:10,560

Printed at: 1:10,560



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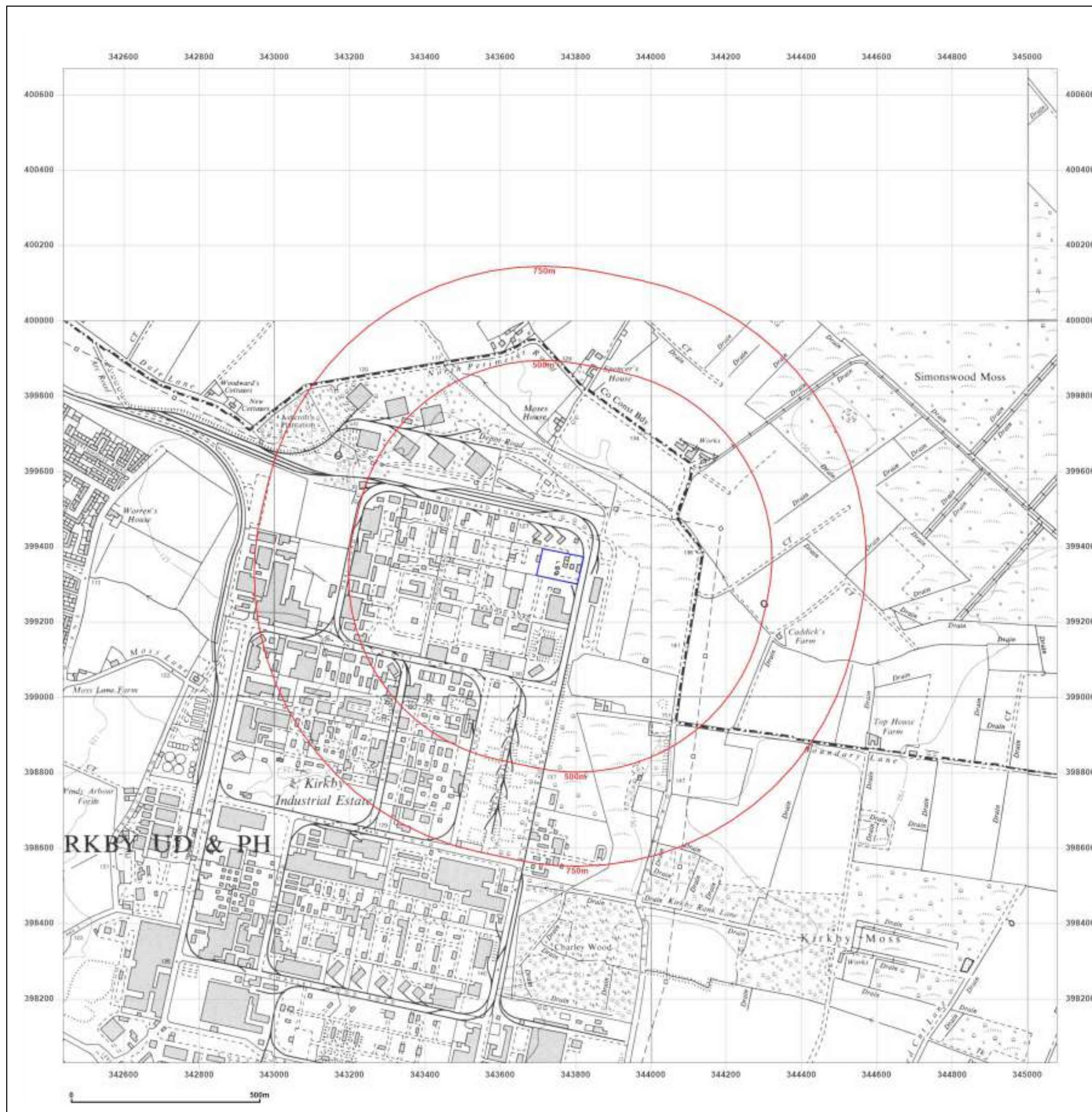


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Client Ref: 4199
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Map Name: National Grid

Map date: 1987-1990

Scale: 1:10,000

Printed at: 1:10,000



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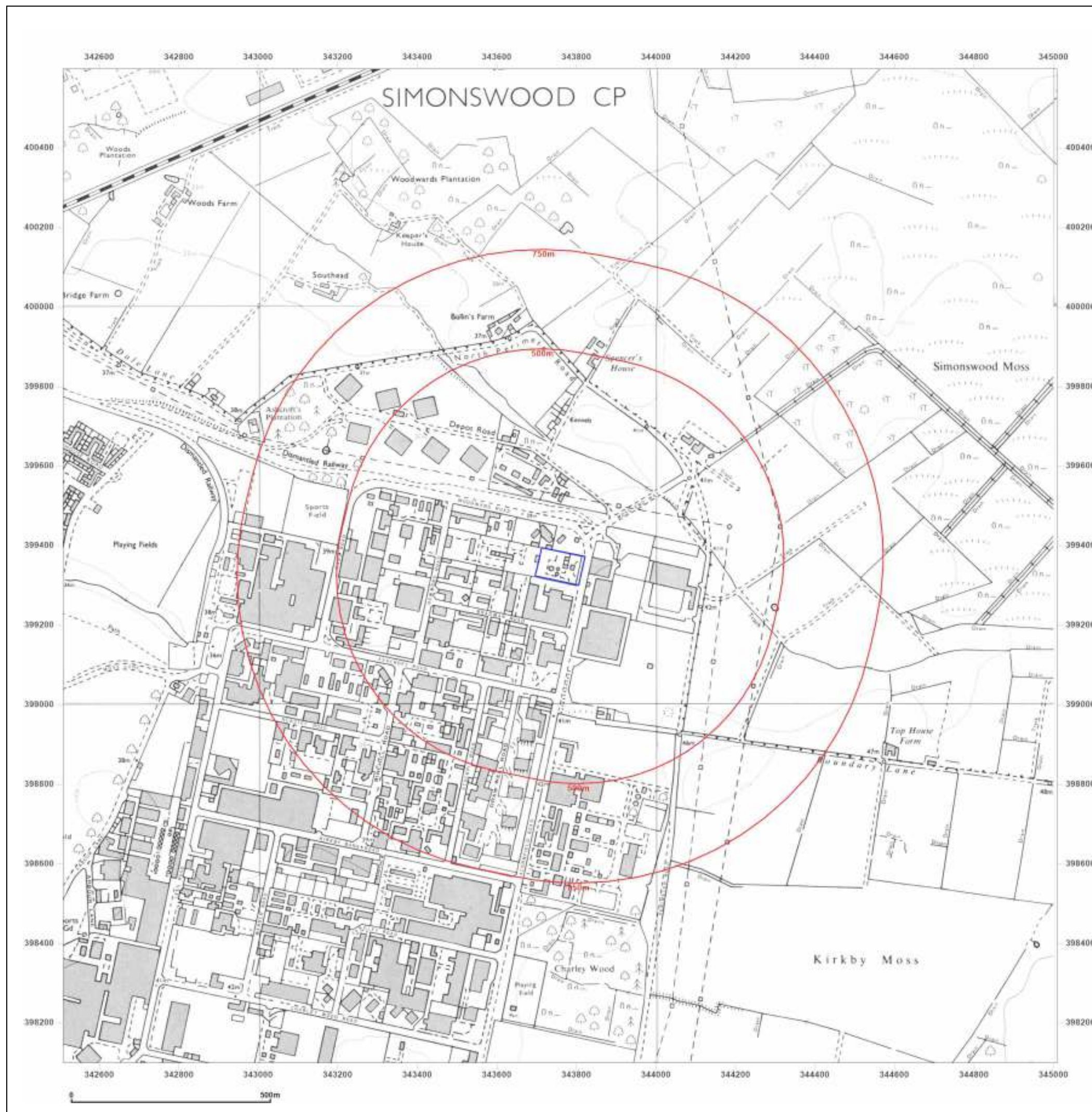


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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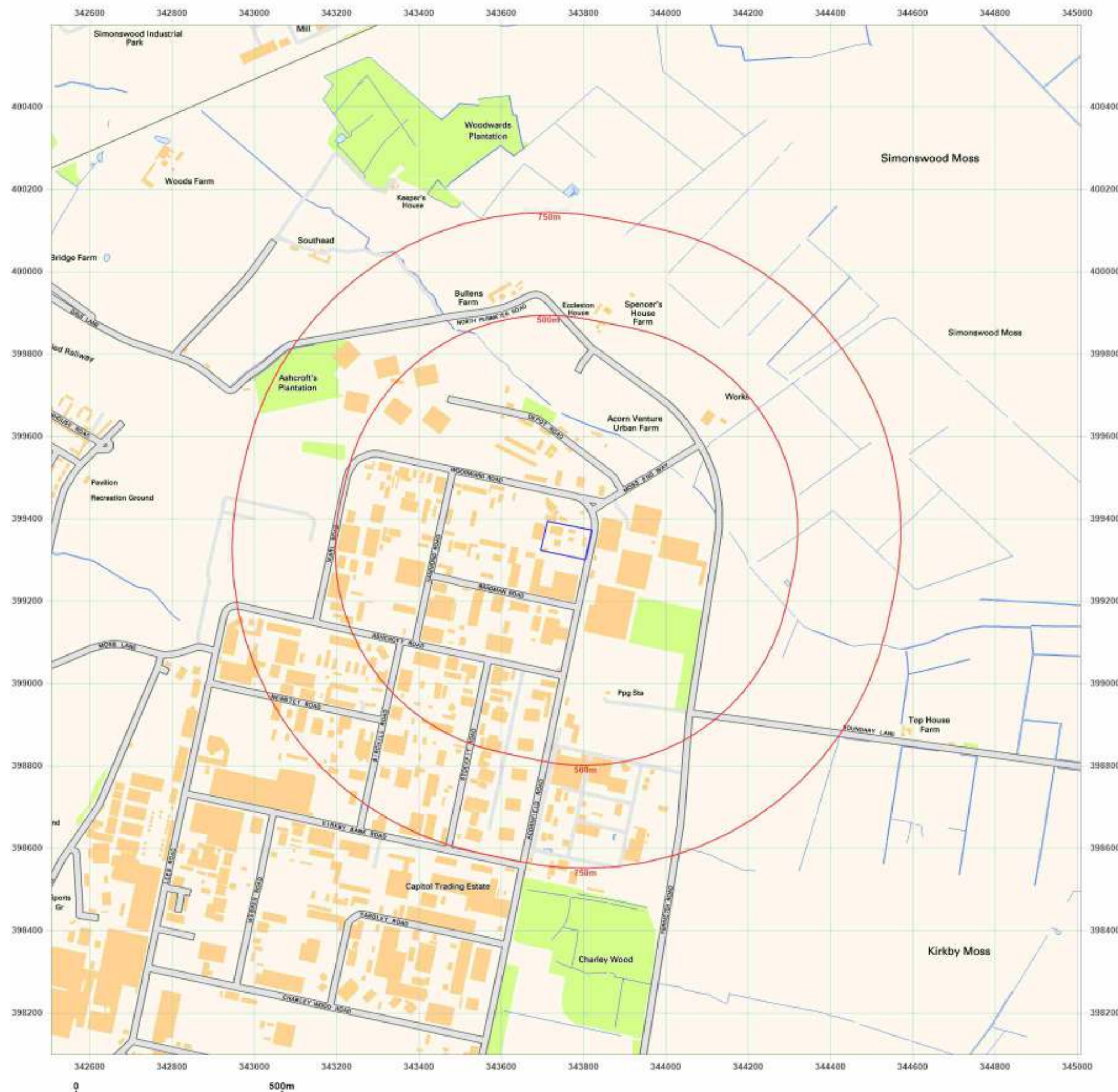


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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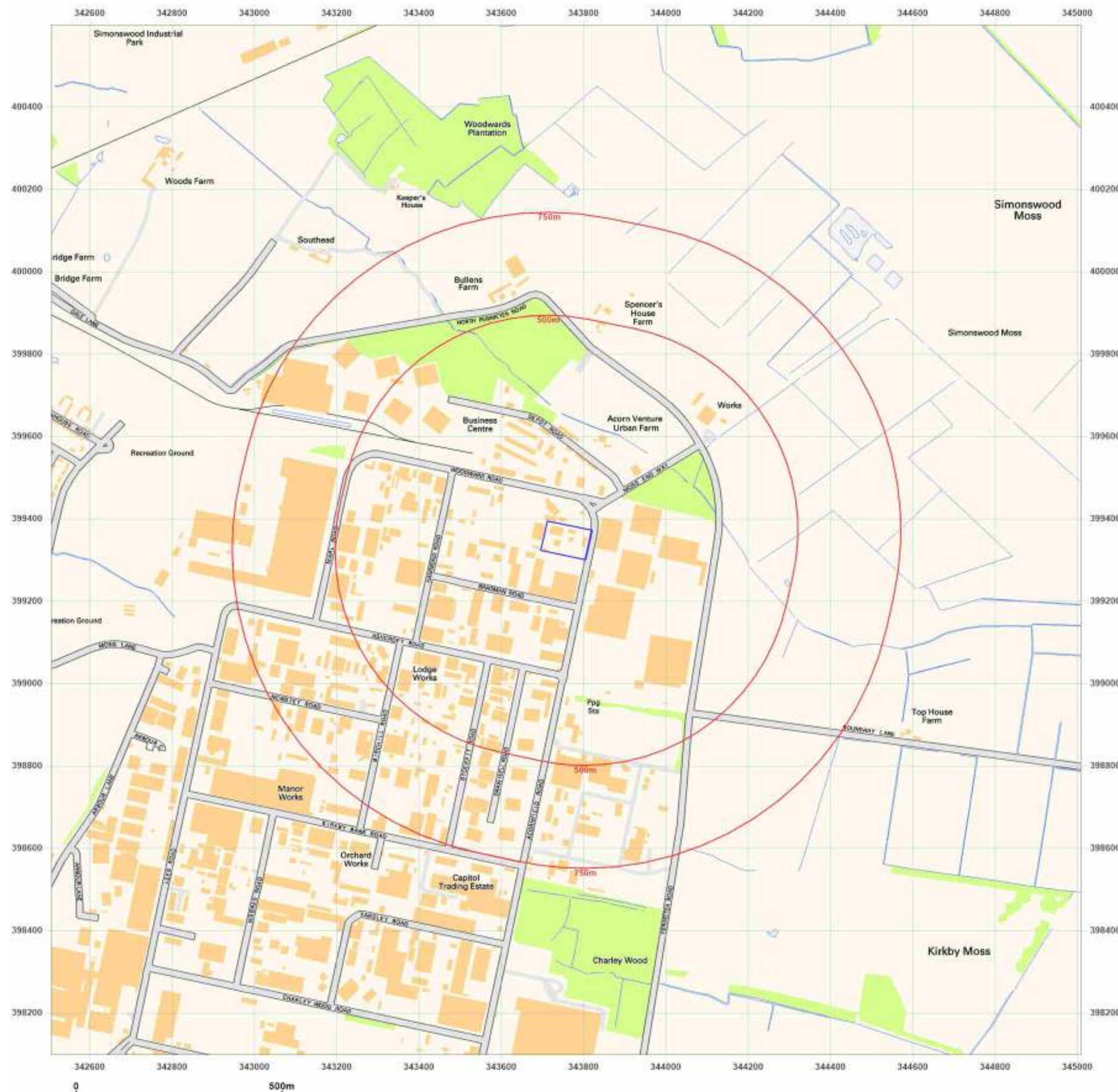


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



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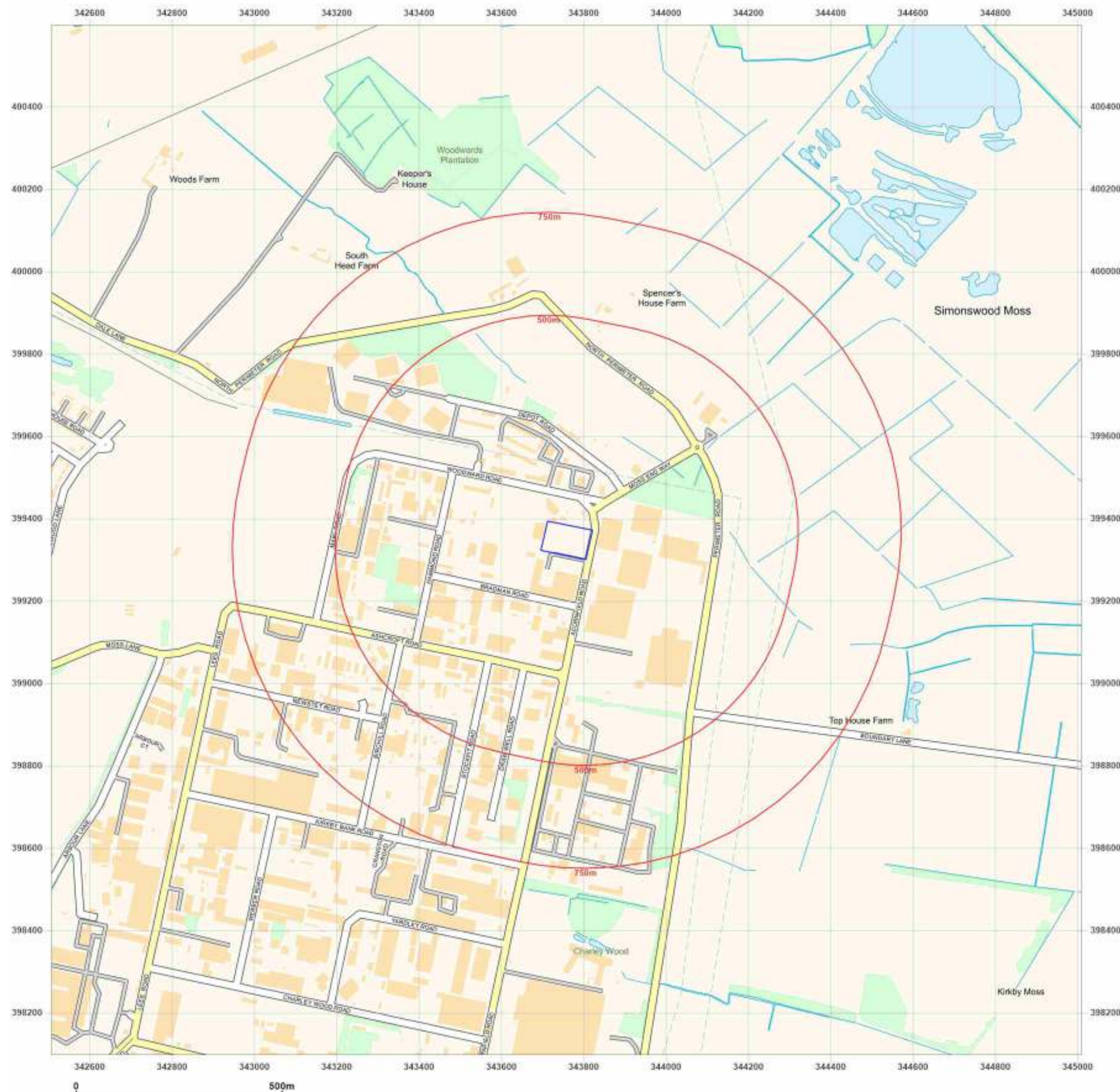


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LARGE SCALE SURVEY PLANS



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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
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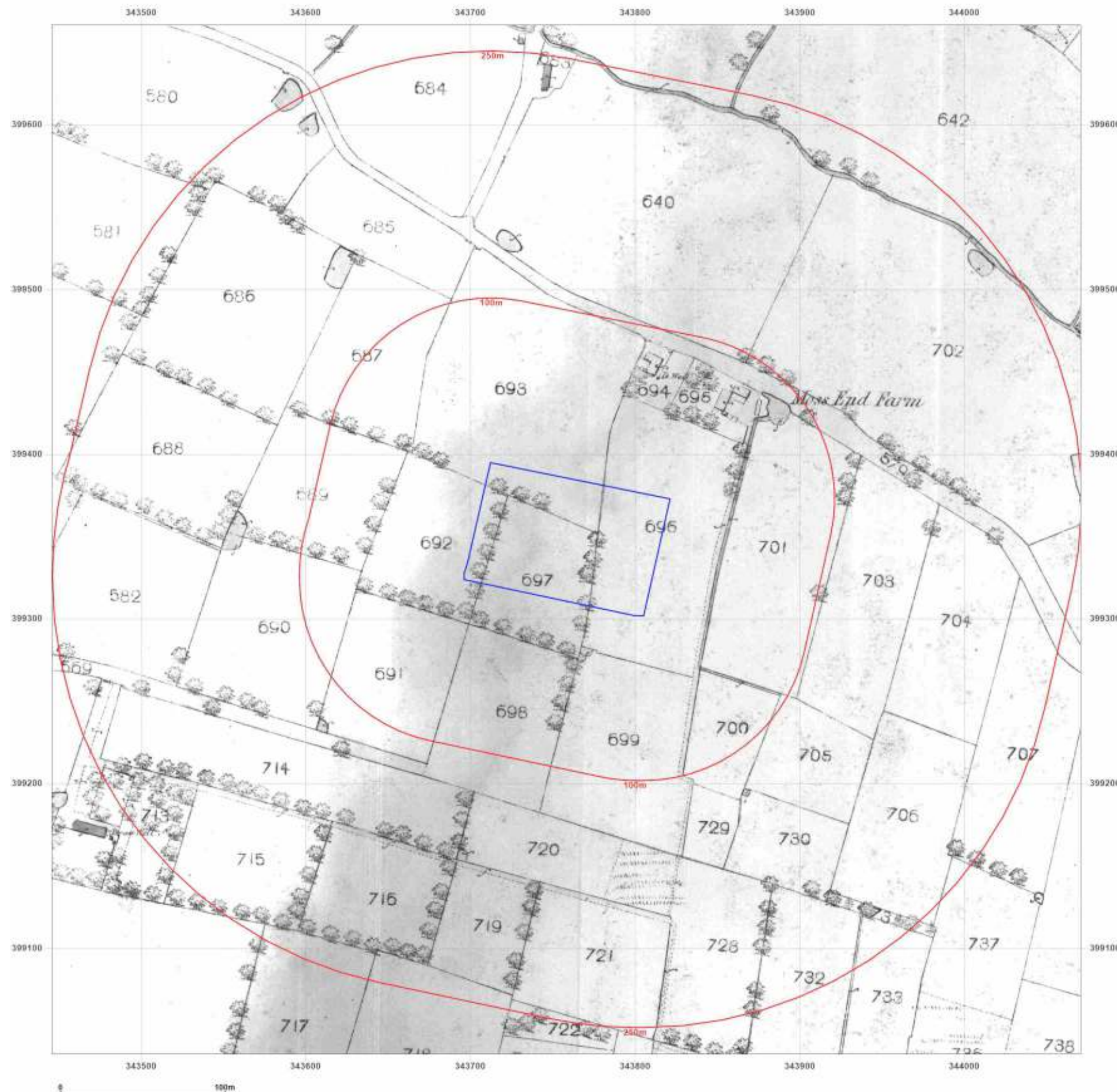


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: County Series

Map date: 1893

Scale: 1:2,500

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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: County Series

Map date: 1908

Scale: 1:2,500

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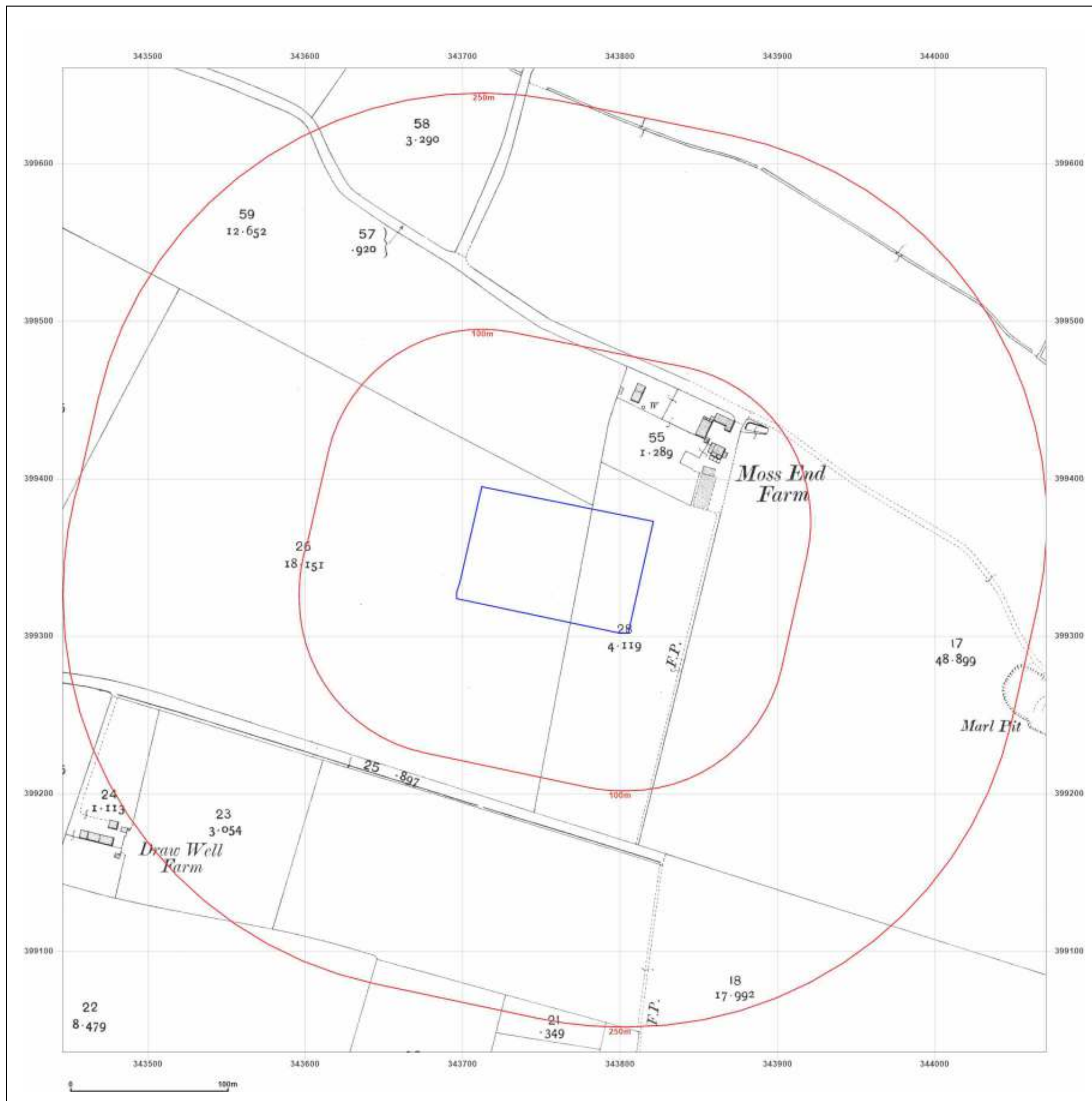


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: County Series

Map date: 1927

Scale: 1:2,500

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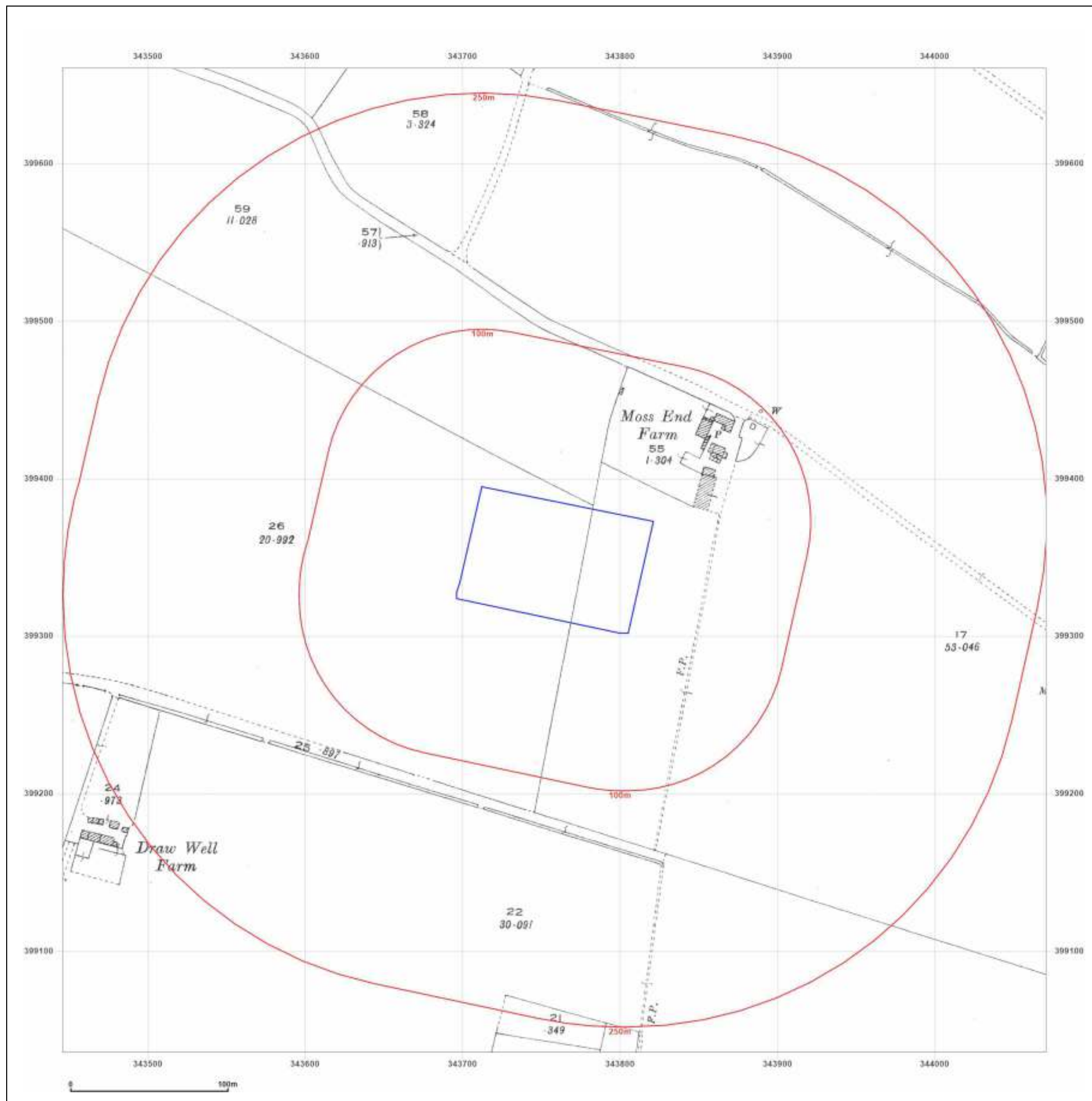


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1960-1961

Scale: 1:2,500

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Edition 1961
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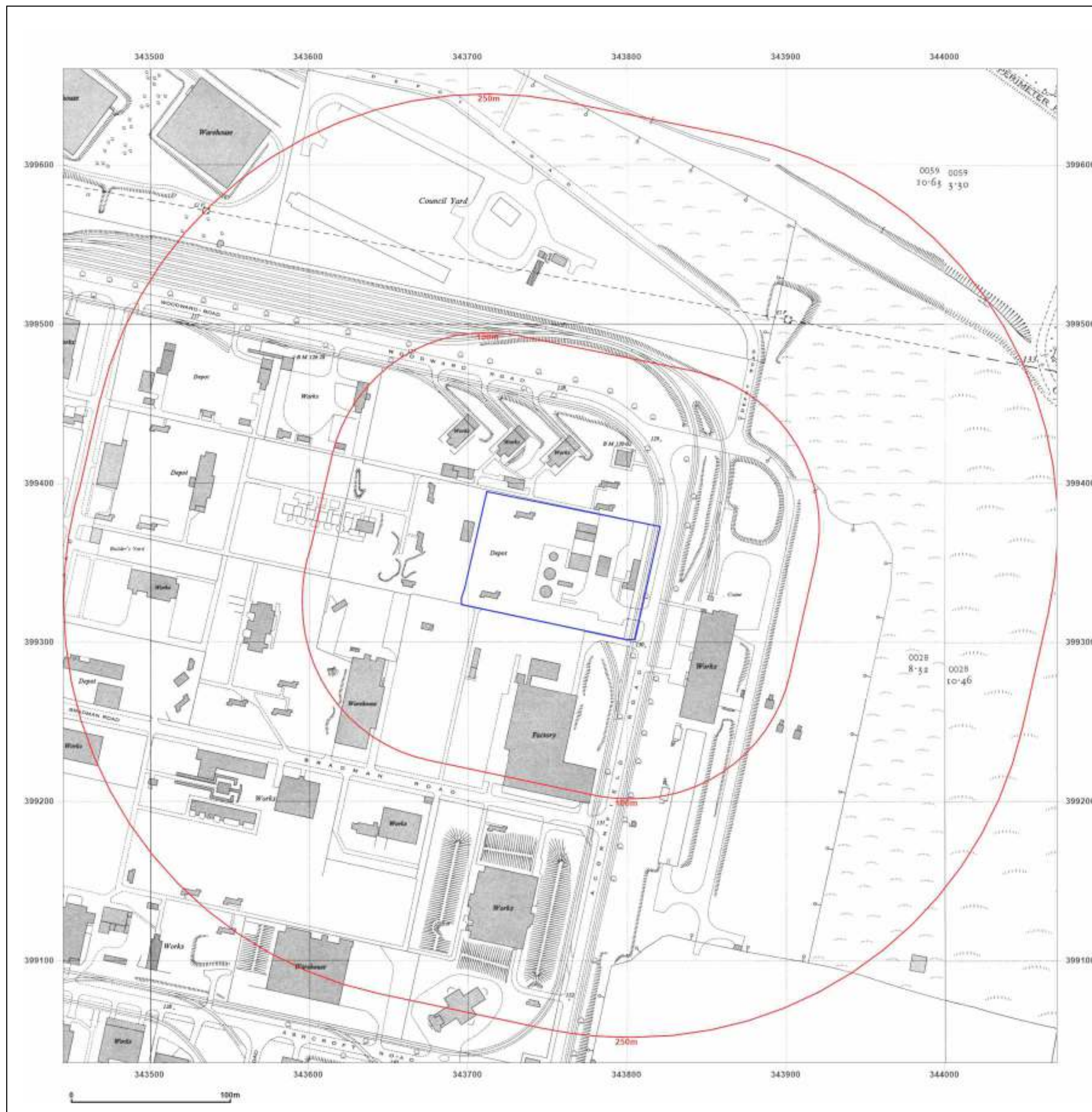


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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1959-1962

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1971-1976

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

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Field Road, Knowsley, L33 7UZ

Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1992-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
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Surveyed 1993
Revised 1993
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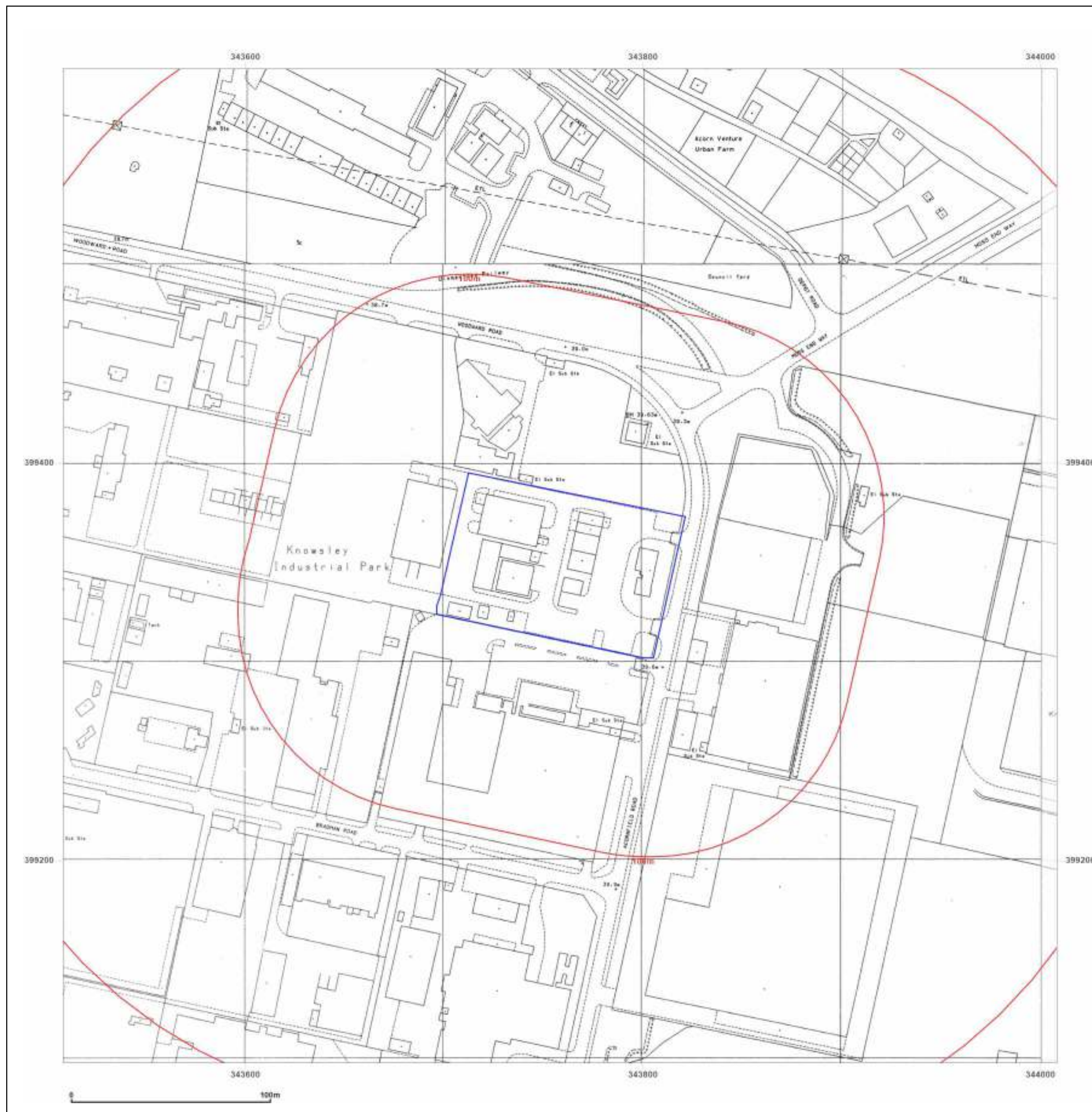


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Production date: 23 February 2021

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Site Details:

Knowsley Industrial Park, Acorn
Field Road, Knowsley, L33 7UZ

Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

Knowsley Industrial Park, Acorn
Field Road, Knowsley, L33 7UZ

Client Ref: 4199
Report Ref: CMAPS-CM-940903-4199-230221HIS
Grid Ref: 343758, 399348

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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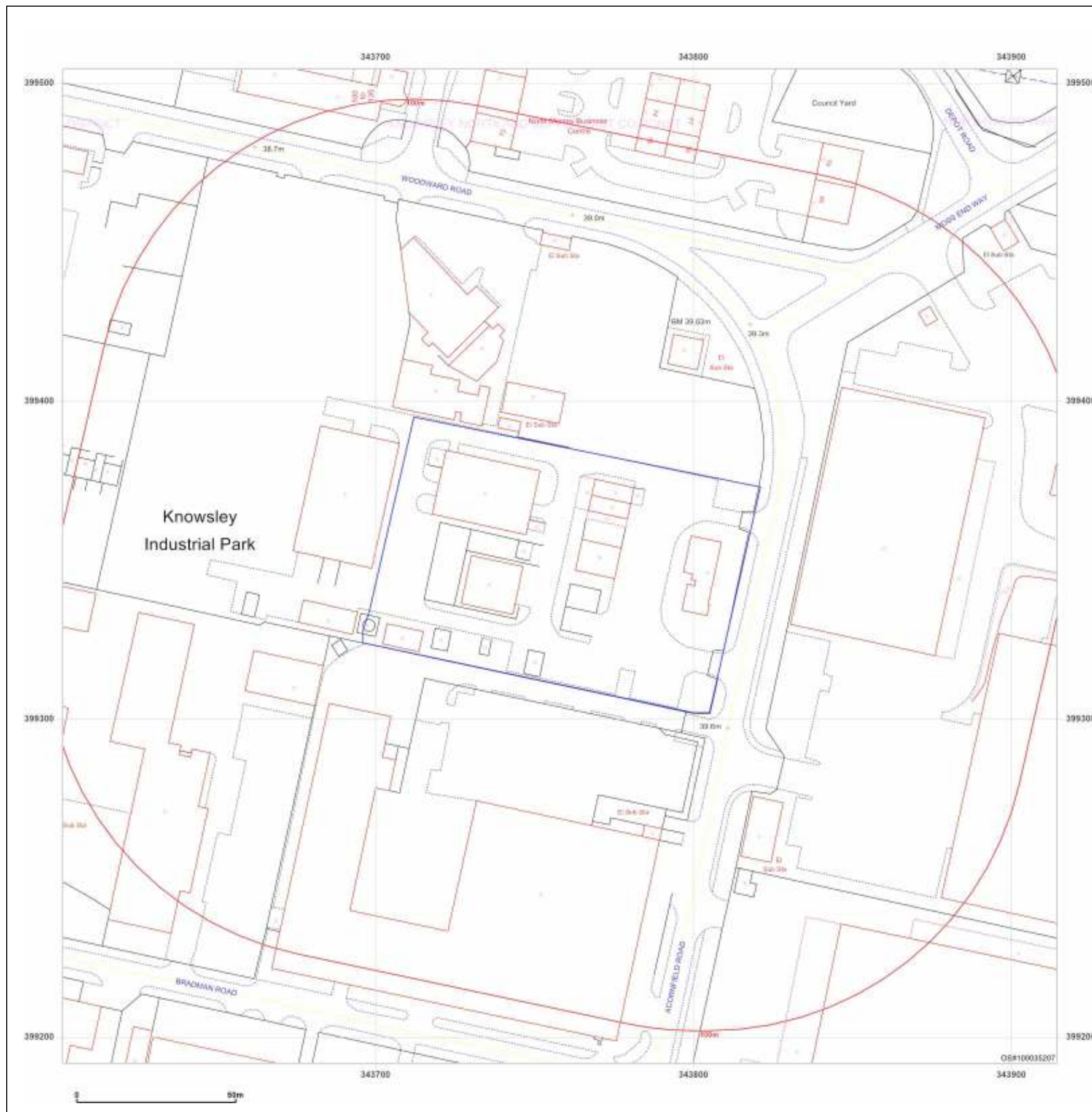


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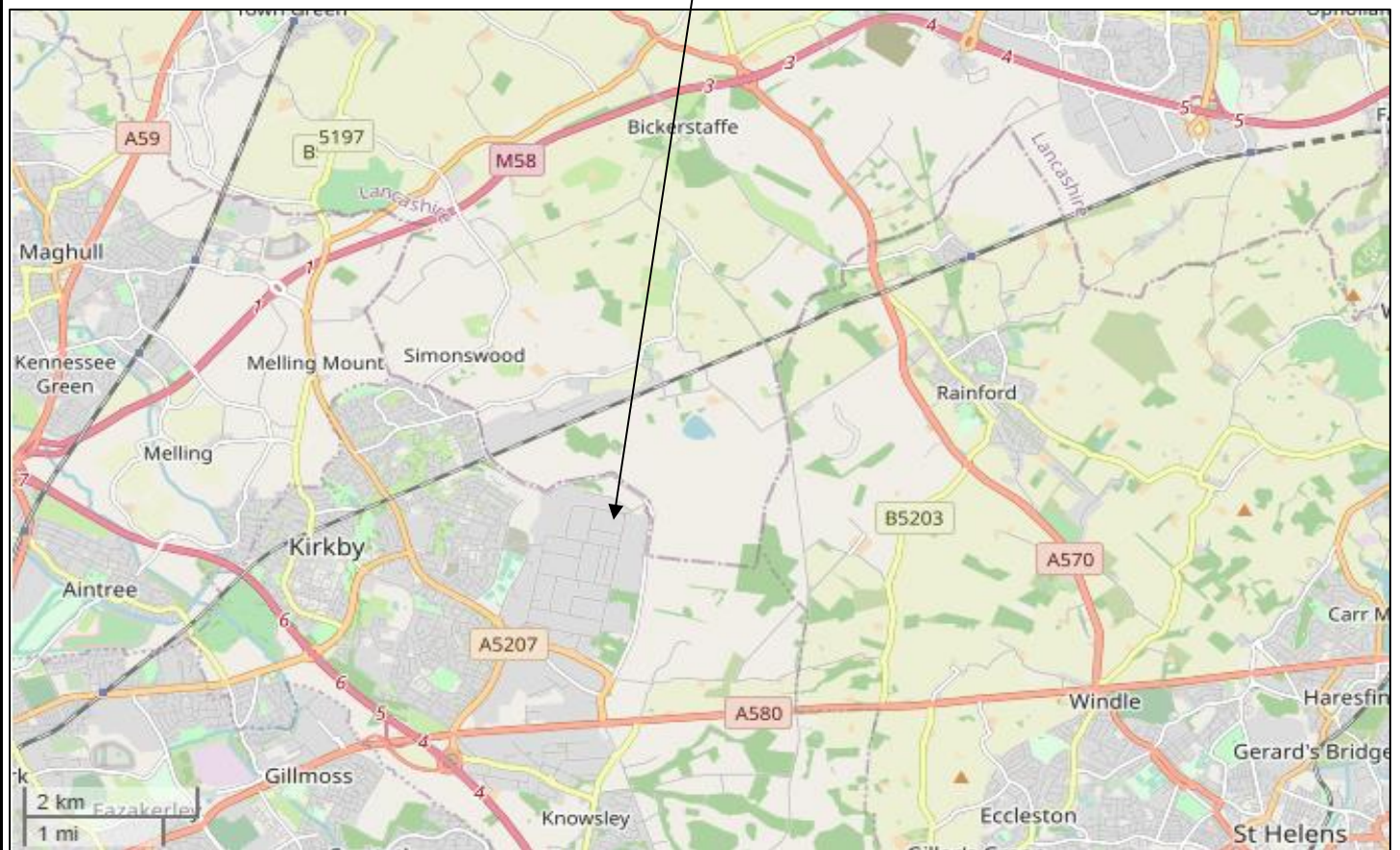
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Production date: 23 February 2021

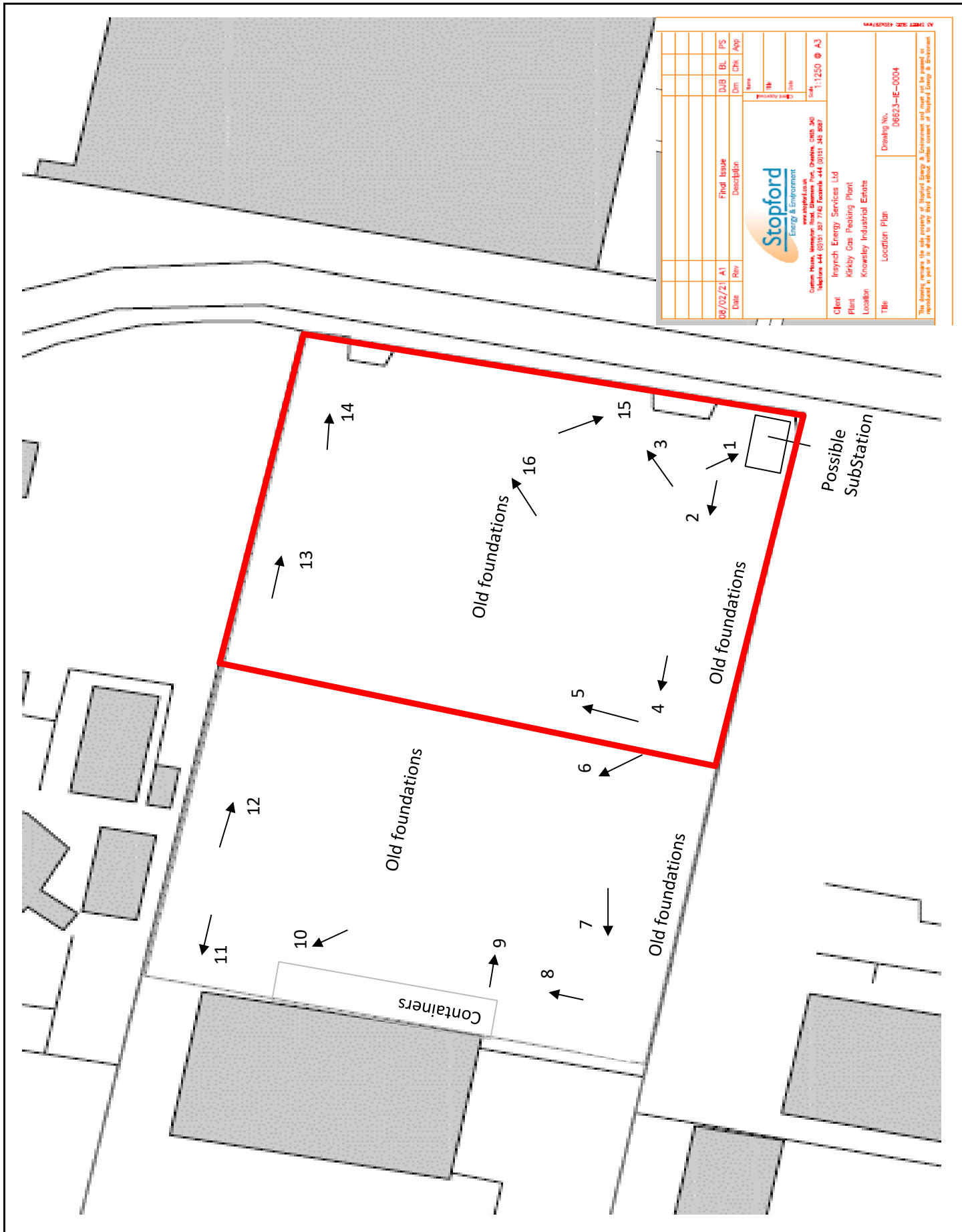
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FIGURES

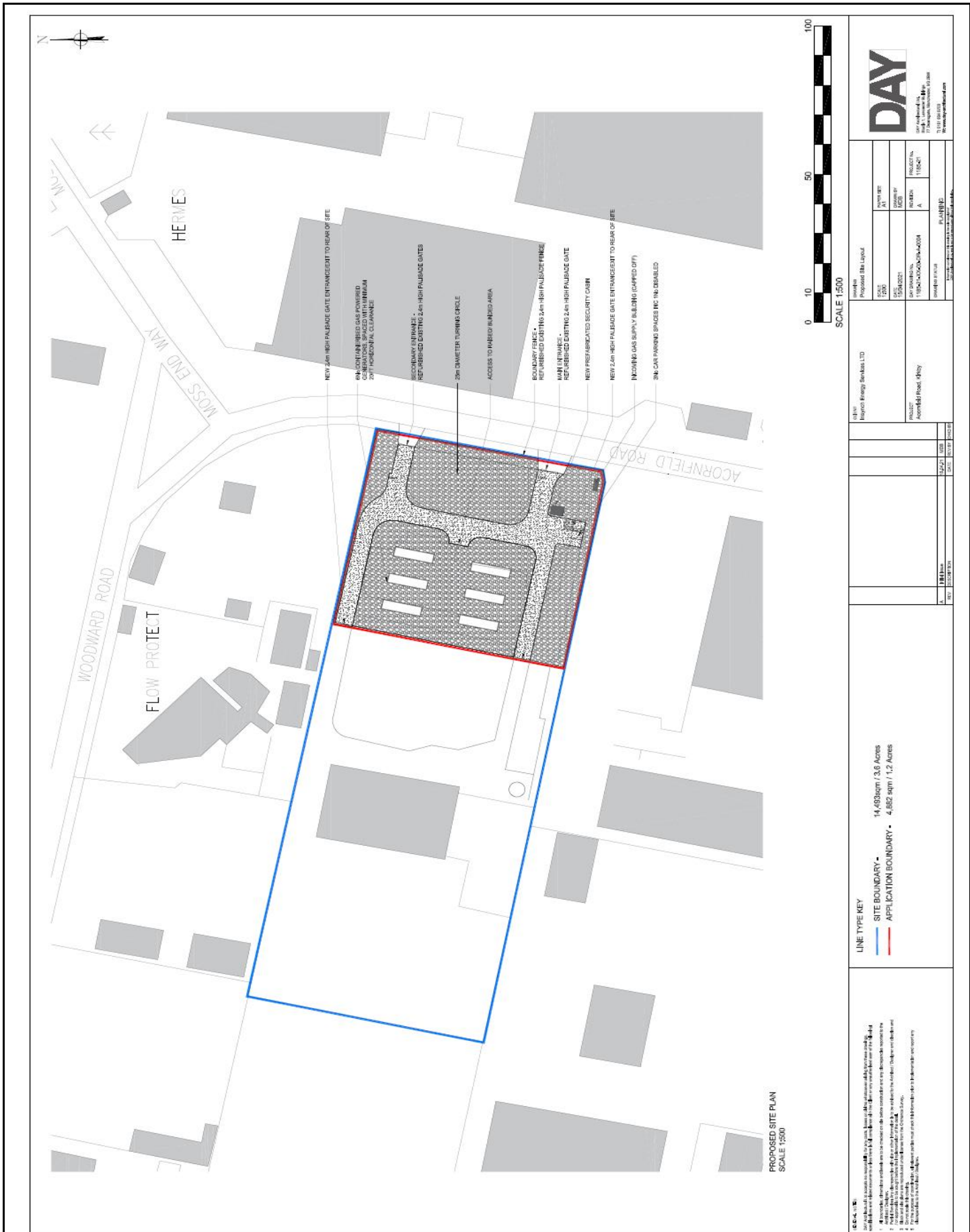


 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Site Location			
Site ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, KNOWSLEY, LIVERPOOL, MERSEYSIDE, L33 7UG	Date Drawn 10/05/2021	Date Checked	Orientation 	Job No. 7177
Client STOPFORD PROJECTS LIMITED	Drawn By DJ	Checked By	Scale As Shown	Figure No. 1

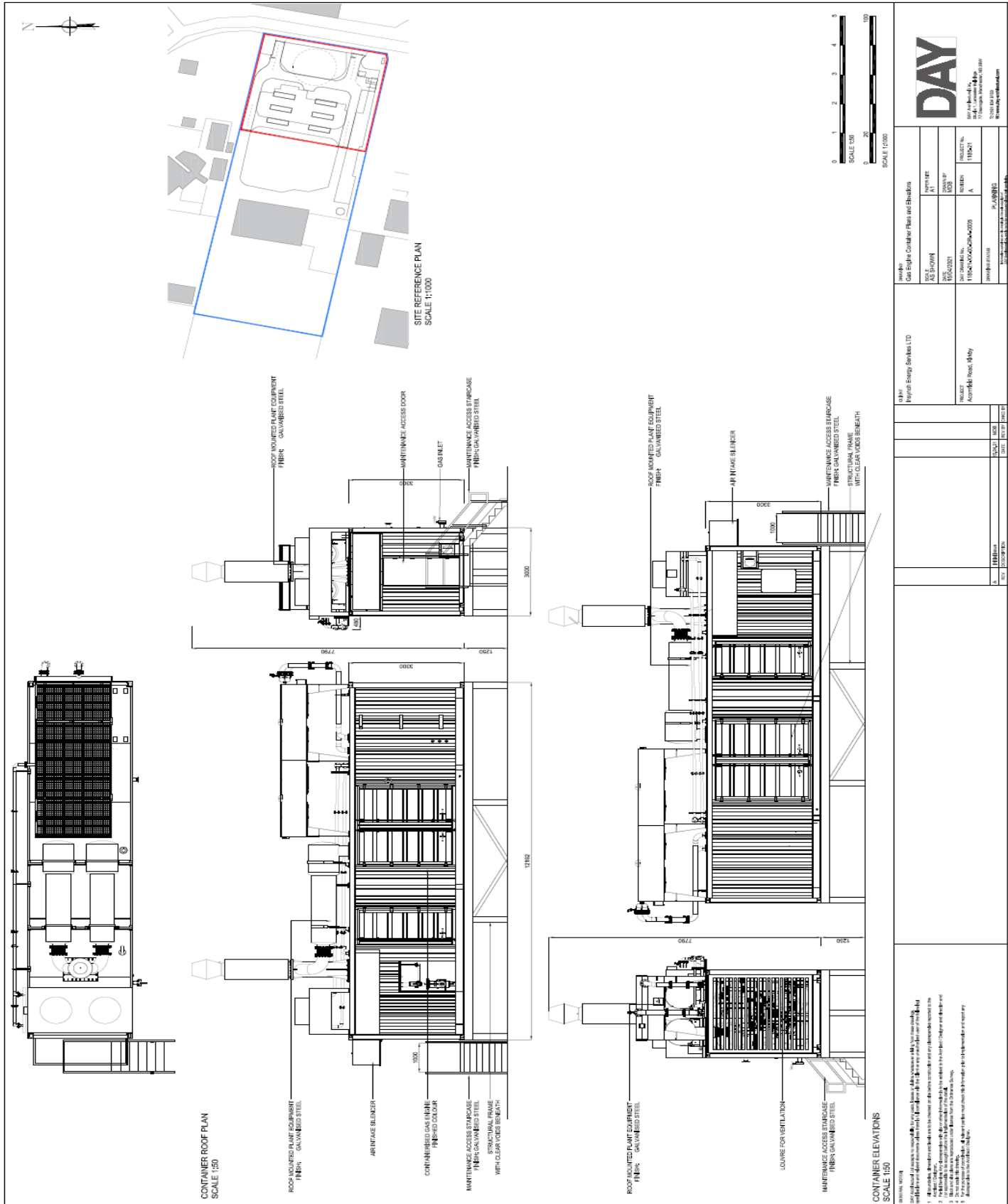


08/02/21	A1	Final Issue	DJB	BL	PS					
Date	Rev	Description	Drn	Chk	App					
 Stopford Energy & Environment Current Issue, Manager: info@stopford.co.uk Telephone: +44 (0)151 587 7462 Fax: +44 (0)151 585 882 Email: info@stopford.co.uk						Name: _____ Title: _____ Job: _____	Scale: 1:1250 @ A3			
Client			Inspec Energy Services Ltd							
Plant			Kirkby Gas Peaking Plant							
Location			Knowsley Industrial Estate							
Title			Location Plan			Drawing No. D6623-IE-0004				
This drawing remains the sole property of Stopford Energy & Environment and must not be passed on, reproduced, or used for any other purpose without the written consent of Stopford Energy & Environment.										

SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Current Layout & Photographs Locations			
	Date Drawn 10-May-21	Date Checked	Orientation 	Job No. 7177
Client STOPFORD PROJECTS LIMITED	Drawn By DJ	Checked By	Scale —	Figure No. 2



 SUB SURFACE SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS 3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907	Proposed Layout			
Site ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK, KNOWSLEY, LIVERPOOL, MERSEYSIDE, L33 7UG	Date Drawn 10-May-21	Date Checked	Orientation 	Job No. 7177
Client STOPFORD PROJECTS LIMITED	Drawn By DJ	Checked By	Scale —	Figure No. 3



SUB SURFACE

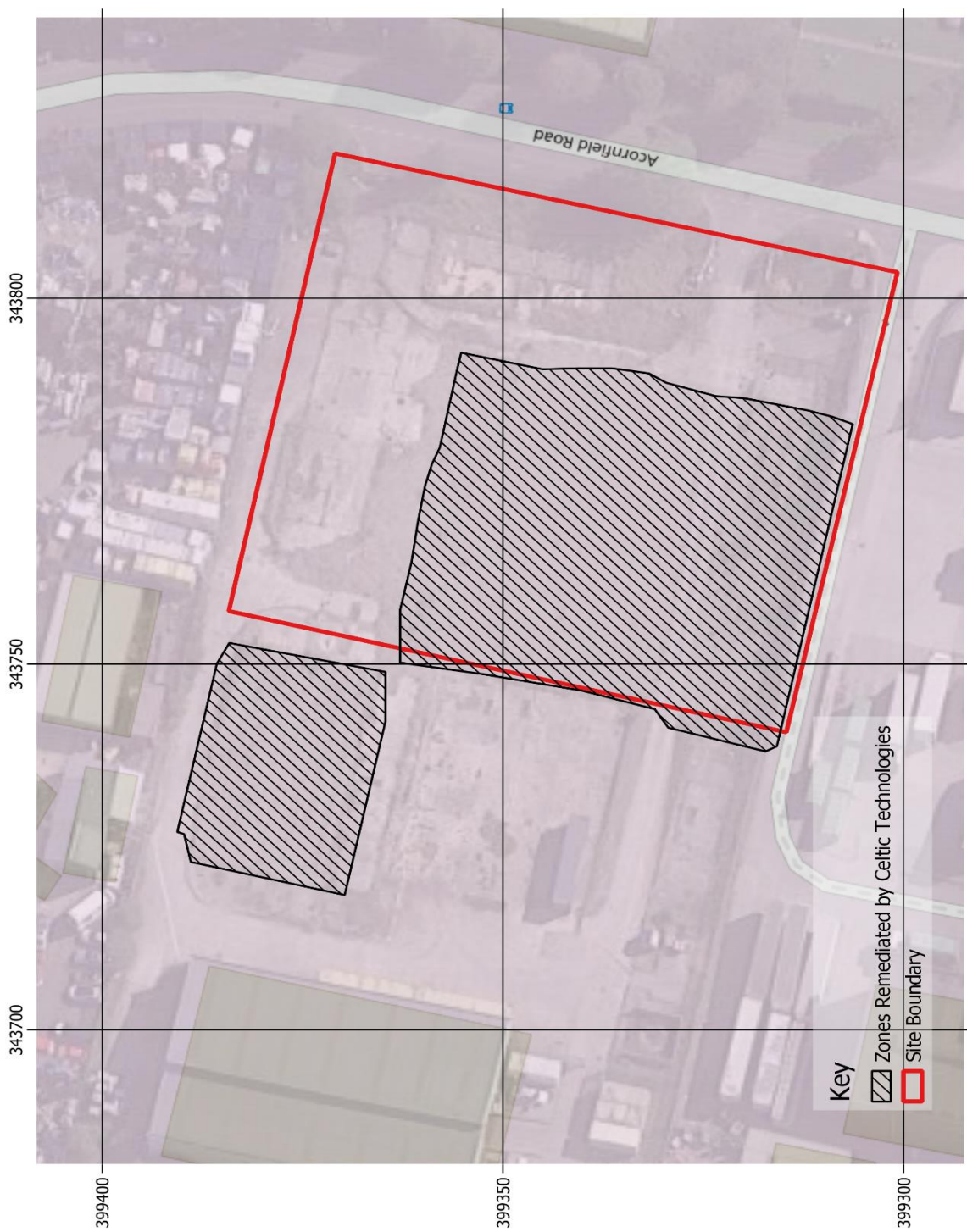
SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel. (01772) 561135 Fax (01772) 204907

Site
ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK,
KNOWSLEY, LIVERPOOL, MERSEYSIDE, L33 7UG

Client
STOPFORD PROJECTS LIMITED

Proposed Elevations

Date Drawn 10-May-21	Date Checked	Orientation 	Job No. 7177
Drawn By DJ	Checked By	Scale —	Figure No. 4



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
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Site
ACORNFIELD ROAD, KNOWSLEY INDUSTRIAL PARK,
KNOWSLEY, LIVERPOOL, MERSEYSIDE, L33 7UG

Client
STOPFORD PROJECTS LIMITED

Previously Remediated Zones

Date Drawn 10-May-21	Date Checked	Orientation 	Job No. 7177
Drawn By DJ	Checked By	Scale —	Figure No. 5