Appendices to Chapter I
Ground Conditions and Soils

Contents:

Appendix 11
Preliminary Risk Assessment

Berkeley St James

MILTON KEYNES EAST

Preliminary Risk Assessment

70057521
MARCH 2021

CONFIDENTIAL

Berkeley St James

MILTON KEYNES EAST

Preliminary Risk Assessment

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APPENDICES

1 NTRODUCTION

1.1 TERMS OF REFERENCE

WSP was instructed by Berkley St James ('the Client') to undertake a Preliminary Risk Assessment (PRA) at the site known as Milton Keynes East (MKE) located in greater Milton Keynes, Buckinghamshire ('the site'). This report has been produced in support of the submission of a hybrid planning application.

The site location and current layout is presented in **Appendix A** (**Figure 1** and **Figure 2**).

1.2 PROPOSED DEVELOPMENT PLANS

The proposed development as per the application is understood to comprise a new mixed-use development area including residential dwellings, employment uses, schools, a community centre, public open spaces and further town features.

The final parameter plans are not available for inclusion within the timescales of this report but can be referenced within Appendix C2, Volume 2 of the Environmental Statement.

1.3 AIMS

The key aims of this assessment are to:

- Develop a preliminary Conceptual Site Model (CSM) to identify potential contamination risks associated with the proposed development of the Site;
- Evaluate likely contaminated land exposure pathways and their potential significance on identified receptors to support the proposed redevelopment; and
- Highlight environmental considerations (i.e. potential risk/constraints) with respect to ground, ground gas and groundwater conditions.

1.4 SCOPE OF WORKS

In order to meet the aims stated in Section 1.3 above, the following scope of works were undertaken:

- A review of plans made available by the client, publicly available regulatory information and available historical Ordnance Survey maps to assess the current and historical potentially contaminative uses of the Site, and of land uses in the vicinity of the site;
- A review of publicly available information pertaining to the geology, hydrogeology and hydrology of the site and surrounding area to assess ground conditions and the presence of plausible sensitive environmental receptors. This included a review of available borehole data, regulatory databases, mapping and historical reports;
- A review and comment on existing information and/or reports on the site, where available; and,
- Derivation of a preliminary CSM through the identification of plausible contaminant linkages in order to provide a qualitative ranked assessment of the likelihood of potential sources of land contamination posing a significant risk to the human health and the environment.

1.5 LEGISLATIVE CONTEXT AND GUIDANCE

This report has been prepared in general accordance with:

- Part 2A of the Environmental Protection Act 1990; and,
- The National Planning Policy Framework 2019.

The following good practice and statutory guidance were considered, and the assessment was undertaken in general accordance with:

- Environment Agency (EA) 'Land Contamination Risk Management', LCRM. 2020;
- NHBC, EA and CIEH 'Guidance for the Safe Development of Housing on Land Affected by Contamination' R&D66. 2008; and,
- CIRIA C552 'Contaminated Land Risk Assessment. A guide to good practice' (2001).

1.6 SOURCES OF INFORMATION

The following sources of information have been used in the production of the report:

- Groundsure Insights report, dated 23 July 2020, Order Ref: GSIP-2020-10326-1095;
- Environment Agency Catchment Data Explorer, https://environment.data.gov.uk/catchment-planning/, accessed 23 July 2020;
- Flood Map for Planning website, https://flood-warning-information.service.gov.uk/long-term-flood-risk/map?easting=488748&northing=242062, accessed on 23 July 2020;
- MAGIC website, https://magic.defra.gov.uk/, accessed on 21 July 2020;
- Department of the Environment Industry Profiles accessed on 21 July 2020;
- The British Geological Survey (BGS) Geological maps Sheet No. 203, Bedford, 1:50,000 Bedrock and Superficial Edition (2010) (online);
- British Geological Society, Borehole Records, accessed on 21 July 2020;
- Horton, A. – The geology of the new town of Milton Keynes: explanation of 1:25 000 special geological sheet SP83 with parts of SP73, 74, 84, 93, and 94. Dated 1974. Ref. CF74/16. London. http://pubs.bgs.ac.uk/publications.html?pubID=B01002#v=d&z=2&n=5&i=B01002_0015.jp2&y=573.599609375&x=295;
- Zetica online UXO Preliminary Hazard Map, accessed 21 July 2020;
- WSP - Geo-Environmental and Geotechnical Assessment Interpretative Report, Milton Keynes East Phase 1, Dated 25/10/2012. Ref 00028796; and
- WSP - Geo-Environmental and Geotechnical Interpretative Report, Caldecote Farm, Newport Pagnell, 2007. Ref. 12370178/001/01.

1.7 LIMITATIONS

This report is addressed to and may be relied upon by the Client and may not be relied upon or transferred to any other parties without the express written agreement of WSP.

This report should be read and used in full. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party. WSP cannot be held liable for third party information. Full details of the limitations are provided as **Appendix B**.

1.8 UNDERSTANDING RISK

It is important to recognise that any risks identified during a preliminary assessment such as that presented below are perceived risks based on the recorded information reviewed. A more detailed assessment of the actual risks can only be assessed following intrusive investigations. The preliminary assessments presented herein are qualitative based on professional judgements following review of the available data and within the context of the existing/proposed use. Those risk categories presented (Very Low, Low, Low to Moderate, Moderate, High, Very High) follow guidance presented in CIRIA Publication C552, Contaminated Land Risk Assessment – A Guide to Good Practice. CIRIA states that risk levels should be based both on an understanding of both the probability (likelihood) of a risk occurring and the magnitude of the potential consequence (severity) of a risk.

CIRIA defines four levels of probability and four levels of severity with relation to contaminated land, as presented in **Appendix C**.

2 SITE SETTING

2.1 SITE DESCRIPTION AND CURRENT USE

The site is located to the north east of Milton Keynes Central within the Moulsoe Civil Parish of Milton Keynes, in the county of Buckinghamshire. The site measures an approximate area of 440 ha. A summary of the site details is presented in **Table 2-1,** below. A Site Location Plan (**Figure 1**) and Proposed Land Use Plan (**Figure 2**) are presented in **Appendix A**.

An initial site walkover was undertaken by a member of WSP staff on the 11 February 2020 to assess the current site uses and areas of potential pertinence with regards to sources of contamination. Details from the walkover are also included in **Table 2-1**, below. Photos are included within the photographic record as **Figure 3** and **4**, presented in **Appendix D**.

Table 2-1 - Summary of Site Details

Detail	Comment
Name and Address of Site	Milton Keynes East, Milton Keynes
National Grid Reference	488963 241595
Site Description and Current Use	The site consists of a series of fields and agricultural land with occasional small scale developments/properties. The site is bound to the north by the A422 road, the east and west cut southbound through fields, and in the south the boundary mostly runs along the M1 motorway, though also includes the parcel of land and roads to the southwest of junction 14 of the M1. Properties that lie within the greater site boundary including a hotel and furniture store are excluded from the planning site boundary. The London Road A509 cuts through the centre of the site running in a north-south orientation and joins the M1 at junction 14. The River Ouzel flows through the centre of the site draining offsite to the north at Newport Pagnell. Several small watercourse/land drains discharge into the River Ouzel. The property off the A509 in the northern central part of the site appears to consist of a residential dwelling, farm buildings and areas of stockpiled waste materials and farm equipment. At the back of a property is a rectangular parcel of heavily vegetated land / marsh land with a further refuse pile. Further farm buildings are located to the south west of the above property adjacent to the A509. Evidence of fly tipping was noted in a number of locations across the site during the walkover and comprised building waste, minor household waste and farming equipment. Caravans and horses were also noted to be present on-site by the A509, just south of the Holiday Inn.
Site Setting and Surrounding Area	The town of Newport Pagnell is located approximately 2 km to the north / northwest of the site and Milton Keynes Central is located approximately 2 km to the southwest. Further agricultural land and fields extend to the east of the site within the civil parish of Moulsoe. The land immediately to the southwest and south of the site contains several industrial land uses including industrial estates and a sewage works.

Detail	Comment
Surface Cover & Topography	The central reservation of the site where the River Ouzel runs forms the lowest levels of the site at roughly 56 m AOD. From there the site levels gently increase on either side of the flood plain to a general grade of 60 m AOD. The eastern extent of the site gradually increases in grade to around 80 m AOD. The site is predominantly covered by farm land and grassland that is separated by mature hedgerows and semi-mature trees in places.

3 HISTORIC SETTING

3.1 ON-SITE AND OFF-SITE HISTORY

Historical maps were obtained as part of the Groundsure report (**Appendix E**) and were reviewed to identify potentially contaminative former land uses on site and within a 500 m radius of the site boundary.

It is understood that the site has seen little anthropogenic development and has remained predominantly as agricultural land and grassland. The limited on-site development has included a brickworks with associated clay pits and refuse heap, farms and occasional residential dwellings and allotments. The section of the M1 motorway passing through the south western extent of the site was constructed in 1950s. Several small-scale man-made surface water features are present across the site.

A summary of the pertinent on-site and off-site features relevant to contaminated land are presented in **Table 3-1** and **Table 3-2**, below. Further detail is available on the historical maps, as presented within **Appendix E**.

Table 3-1 - Summary of Pertinent History of the Site

Date of Historical Map / Imagery	Land Use on Site
1881	The A509 road is present running roughly north to south through the centre of the site. A brick works with associated brick kilns and clay pits is present in the northern central region of the site adjacent to the road. A refuse heap is also listed at the site. A farm labelled as 'Cottage Farm' is present in the south of the site. An unspecified tank is recorded in the west of the site in proximity to the River Ouzel.
1924	A plot of allotments is labelled on the map along the south eastern perimeter of the site (no longer labelled in 1976).
1925	The brick works are no longer labelled on the map and new structures have been established on the site. The associated clay pits to the east of the buildings appear to be infilled and the land is demarcated as marshland / vegetated. A new building has been constructed to the south of the former brick works on the western side of the A509. The Cottage Farm is relabelled as 'Waitworths Farm'.
1969	The former brick works site has been further developed with structures and a 'pump' is labelled on the map associated with the structures. A tank is labelled on the marshes behind the structures in 1972 mapping. Waitworths Farm has been further developed and relabelled as 'Hermitage Farm'. Tanks are recorded to be associated with the development.

Date of Historical Map / Imagery	Land Use on Site
1970 - Present	No significant changes noted, current site uses and layout established.

Table 3-2 - Summary of Pertinent History Off-site and in Surrounding Land

Date of Historical Map	Off-site Feature (within 500 m)
1881	Within the centre of the site at the location of the current Holiday Inn hotel complex (outside of planning application boundary) the farm estate 'Moulsoe Buildings' is present. Approximately 100 m south of the southern site boundary is an 'Old Gravel Pit' flanking the A509.
1886	South west: Occasional farms, small town of Willen from 200 m including church with burial yard. South: The town of Broughton from approximately 450 m including a burial yard and farms. East: The town of Moulsoe from 250 m including a church burial yard and gravel pits, and various small farm complexes. North east: fields and occasional farm complex. North west: The outskirts of Newport Pagnell (from approximately 400 m) including a Work House, farm fields, a gravel pit and farm complexes. West: Area of Caldecote with associated farm, Caldecote Mill and numerous wells.
1924	An unspecified tank is recorded on the mapping associated with the former Moulsoe Buildings (1924 – 1963). An area of allotments and an Anglo-Saxon Burial Ground are noted from approximately 80 to the north west of the site in Newport Pagnell.
1963	The M1 motorway is seen to be constructed running through the south western extent of the site in a south east to north west orientation.
1969	The gravel pit to the south of the site is now shown to be infilled and covered by vegetation. A pumping station is labelled on the map approximately 130 m to the west of the site at Caldecote.
1970	A Council Yard has been established located adjacent to the western site boundary and bound to the west by Willen Road.
1972	The Moulsoe Buildings farm has been developed into a hotel complex. A tank associated with an off-site farm, 'Cotton Valley Farm', is located adjacent to the southern border. A 'disused pit' is noted on the map approximately 420 m south of the site.

Date of Historical Map	Off-site Feature (within 500 m)
	To the north west, multiple 'works' have been developed from approximately 400 m. A pumping station is labelled on the map (possibly first constructed by 1938) located approximately 180 m from the western site boundary.
2000 (Google Earth Satellite Imagery)	By the 1970s, Milton Keynes had been largely developed to the west / south west of the site. Associated development within 500 m of the site boundary includes: the expansion and redevelopment of the town of Willen to the west, the development of the industrial complex of Tongwell also to the west, the construction of Willen Lake from approximately 80 m to the south west, the Cotton Valley sewage treatment works (first established 1974) immediately to the south of the site and Northfield Industrial complex immediately to the south of the A509 including various warehouses, light industrial units, a coach station and fuel filling stations.
2000	A quarry has been established approximately 100 m to the south east of the site.
2001	By 2001 the A509 has been extended beyond the northern and southern areas of the site: from junction 14 of the M1 to run east – west along the southern perimeter and partially through the site; and, in the north connecting to the A422 and passing to north east forming part of the northern site boarder. An industrial estate (Interchange Park) has been developed adjacent to the north of the northern A509.
2016	By 2010 the quarry to the south east is shown to be mostly backfilled / decommissioned and by 2016 the area is seen to be reinstated as a featureless field.

4 ENVIRONMENTAL SETTING

4.1 GEOLOGY

British Geological Survey (BGS) Geological map Sheet No. 203, Bedford, 1:50,000 Bedrock and Superficial Edition (2010) (online); BGS 'Geology of Britain' online viewer; and available nearby historic borehole records and geological publications were reviewed.

The superficial geology of the site and greater area is dictated largely by glacial erosional and depositional environments altering old river channels and flood plains. The site is drained by the River Ouzel, a major tributary of the River Great Ouse located downstream to the northwest at Newport Pagnell. The Ouzel flood plain extends across the site and is filled by Alluvium sediments that are entrenched into the First Terrace gravels. Sheets of periglacial Head Deposits blanket the First Terrace gravels on the sides of the Alluvium and up to the valley sides. At the eastern extent of the site and extending further eastwards are diamicton and glaciofluvial deposits formed in glacial conditions during the Quaternary Period. Superficial deposits are mapped as locally absent in most of the east of the site. There is a deep buried channel feature present roughly in the centre of the site running to the north-west, filled with glaciofluvial deposits (**Figure 4-2**).

Figure 4-1 - Superficial Geology. Source: BGS online mapping.

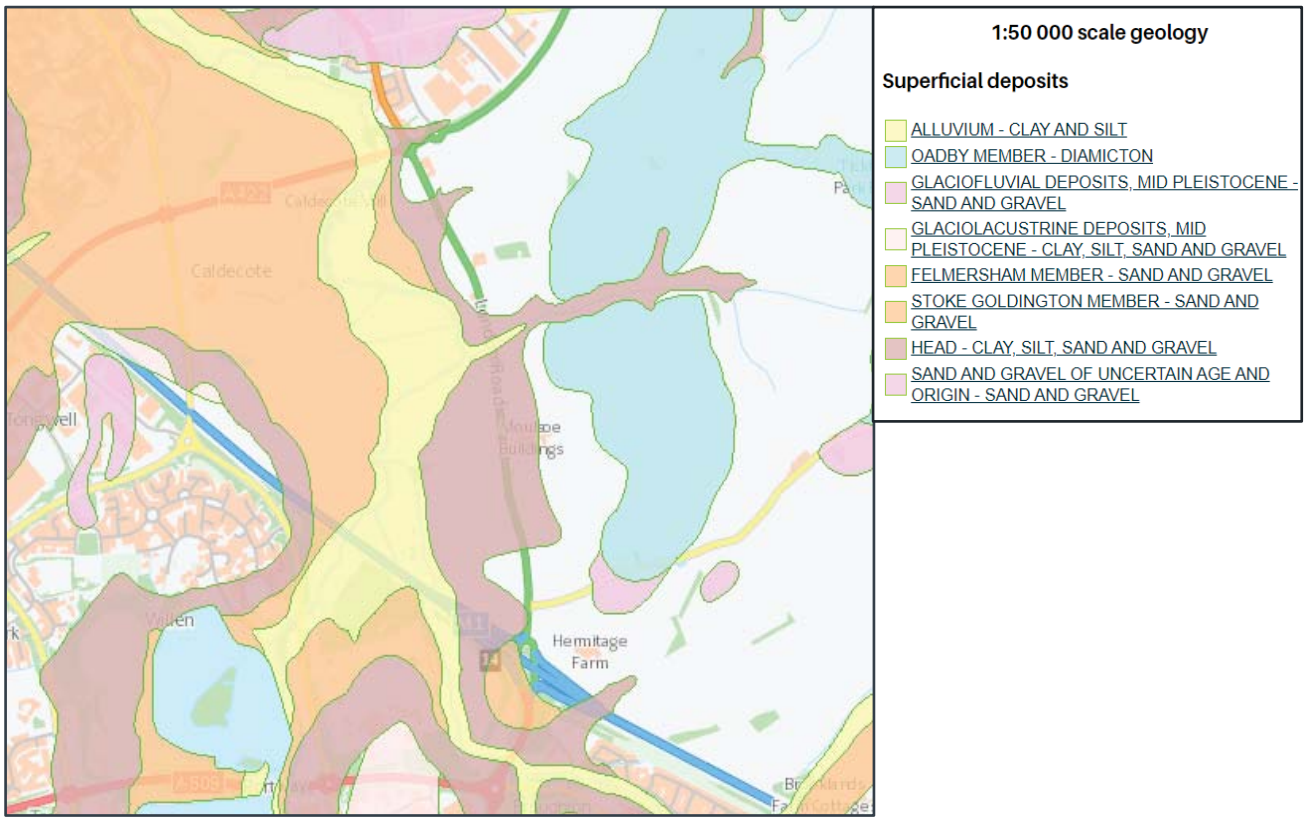
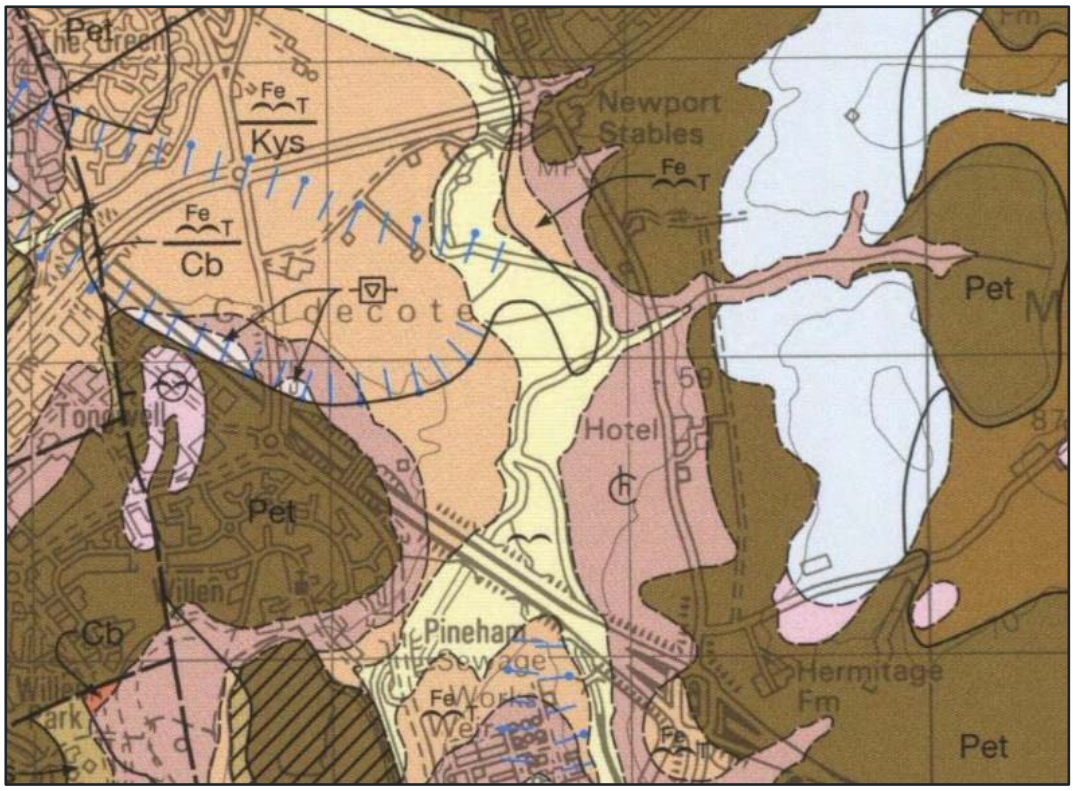


Figure 4-2 - Superficial and Bedrock Geology with buried channel feature demarked by blue arrows. Source: BGS online map Sheet No. 203 Bedford, 2010.



Bedrock deposits on site are that of the Oxford Clay Formation consisting of thick deposits of mudstones (21 - 24 m) with siltstone and sandstones at the base, underlain by silici-silty or silici-sandy mudstones of the Kellaways Sand Formation, underlain by the Great Oolite Group consisting of interbedded limestones and subordinate sandstones and mudstones. In turn the geology is underlain by the Lias Group made up of substantial thicknesses of mudstones.

Four major faults are present within the area with faulting also inferred to be present on site [1].

A summary of the anticipated geology, anticipated distribution and typical description is presented in **Table 4-1**.

[1] Horten. A, 1974.

Table 4-1 - Anticipated Ground Profile with Material Description

Stratum [1][2][5][6]	Distribution	Typical Thickness of Strata (m bgl) [1]	Typical Strata Description [1][2]	Aquifer Designation [2][3]
Made Ground	Limited to areas of previous development.	Unknown.	Unknown, anticipated to be highly variable.	Not Classified
Superficial Geology				
Head	Central region of the site.	Where present, up to 2.1 m [6]	Poorly sorted and poorly stratified Clay sand and gravel, locally with lenses of silt or peat and organic material	Secondary Undifferentiated Aquifer
Oadby Member - Diamicton	East only	Variable up to 20 m, typically 1 – 7m	Grey, weathering brown, characterised by Cretaceous and Jurassic rock fragments; subordinate lenses of sand and gravel, clay and silt.	Unproductive
Glaciofluvial Deposits	Centre and east of site.	Up to 15 m [5] (inferred)	Sand and gravel.	Secondary 'A' Aquifer
Alluvium	Central region of the site.	Where present, up to 2.5 m [6]	Normally soft to firm consolidated, compressible silty Clay, but can contain layers of silt, sand, peat and basal gravel.	Unproductive Strata
Felmersham Member - First Terrace: River Terrace Gravels	Central region of the site.	3 m	Gravel with sand.	Secondary 'A' Aquifer
Bedrock Geology				
Stewartby Member– Oxford Clay Formation	Far south-eastern extent only	22 – 27 m	Pale to medium grey, commonly smooth, variably silty, calcareous, blocky Mudstones.	Unproductive Strata
Peterborough Member - Oxford Clay Formation	Sitewide except for far eastern / north-eastern extent	21 – 24 m [5]	Brownish-grey, fissile, organic-rich (bituminous) Mudstones.	Unproductive Strata

Stratum [1][2][5][6]	Distribution	Typical Thickness of Strata (m bgl) [1]	Typical Strata Description [1][2]	Aquifer Designation [2][3]
Kellaways Sand Formation	Sitewide	5 – 8 m	Mudstone, grey, commonly silici-silty or silici-sandy, with (predominantly in the upper part) beds of calcareous Siltstone and Sandstone.	Secondary 'A' Aquifer
Great Oolite Group	Sitewide	65 to 71 m	Limestones, Mudstones and Siltstones	Predominantly Unproductive Strata

[1] Based on available historical exploratory hole logs.
[2] BGS online portal and mapping.
[3] Environment Agency online portal.
[4] Groundsure Report
(5) BGS Publication – Horten A, 1974
(6) Previous ground investigation reports.

4.2 HYDROLOGY

The site is located within the Great Ouse catchment area, falling both in the smaller Ouzel & Milton Keynes and Bedford operational catchments. The River Ouzel (also referred to as River Lovat) runs through the site in broadly a south to north direction, draining into the River Great Ouse approximately 1.3km (straight line distance) to the north. The River Ouzel itself has been heavily modified historically within the area and on-site there are networks of drains and historically manipulated watercourses flowing to the river from multiple areas of the site. In addition, there are several small ponds, disused wells and other small-scale surface water features dotted across the site. Off-site to the south west is Willen Lake (from approx. 70 m), one of two major balancing lakes within the River Ouzel flood management scheme.

The site is located within a Nitrate Protection Zone in relation to the River Great Ouse.

Evidence of the proposed Willen Sewage Works Outflow Tunnel running through the site north south is recorded within the Milton Keynes BGS Memoir document. (source: BGS publication on Milton Keynes).

4.3 HYDROGEOLOGY

The Glaciofluvial Deposits and the Felmersham Member Deposits are classified by the EA as Secondary A Aquifers. The Head deposits are classified as a Secondary Undifferentiated aquifer.

The Alluvium and Diamicton deposits are both classified by the EA as Unproductive strata.

The bedrock deposits of Oxford Clay are described as Unproductive strata. The Kellaways Sand Formation is classified as a Secondary A Aquifer. The underlying Great Oolite Group is generally classified as Unproductive strata at the site.

The Oxford Clay Formation is anticipated to largely act as an aquitard limiting the flow of water from superficial aquifers to the bedrock aquifers. The Oxford Clay Formation is not mapped to be present in the west of the site and it is therefore possible that the superficial aquifers in this area are in hydraulic continuity with the underlying aquifer within the Kellaways Sand Formation.

The Made Ground is not classified by the EA, however groundwater may be present as discontinuous pockets or as a perched water body within these deposits where present.

Ground investigations in 2007 and 2012 (summarised in **Section 5.6**) reported groundwater at shallow depths within the Head deposits, within the glacial Diamicton deposits and also within the Oxford Clay deposits during the in the centre and south east of the site.

It is anticipated that the shallow groundwater largely drains towards the River Ouzel in the centre of the site and ultimately the River Great Ouse, to the north as well as following the topographical gradient.

4.4 ABSTRACTION POINTS

There are four historical licensed groundwater abstraction sites within a 500 m radius of the site, one of which is within the site boundary, as detailed in **Table 4-2** below.

Table 4-2 - Licensed Groundwater Abstractions Summary

Abstraction Point	Licence Number	Approximate Distance and Direction	Use	Status
Well Moulsoe Buildings	6/33/10/*G/0002	On site, centre	General Farming & Domestic.	HISTORIC
Well at Caldecote Farm	6/33/10/*G/0007	276m, north	General Farming & Domestic	HISTORIC
Gravel pit at Newport Pagnell	6/33/10/*G/0010	279m, west	Mineral Washing	HISTORIC
Gravel pit at Broughton Barns	6/33/09/*G/0022	360m, south	Mineral Washing	6/33/09/*G/0022

There is one licenced surface water abstraction point listed within 500m of the site boundary. It is a historical abstraction license that is located on-site at the River Ouzel, as described in **Table 4-3** below.

Table 4-3 - Licensed Surface Water Abstractions Summary

Abstraction Point	Licence Number	Approximate Distance and Direction	Use	Status
River ouzel at Moulsoe	6/33/10/*S/0009	On site, centre/northwest	Spray Irrigation - Direct	HISTORIC Permit last active 2002.

4.5 FLOODING

The central reservation of the site where the River Ouzel runs is largely classified by the EA as 'Flood Zone 3' meaning it has a High probability of flooding. High risk means that each year this area has a chance of flooding from rivers and surface waters of greater than 3.3%.

The remainder of the site is classified as at a Very Low risk of flooding from rivers or the sea, meaning there is a <0.1% chance of flooding to occur each year.

Areas of the site in proximity to the surface water features including the land drains / tributaries of the River Ouzel and the river itself are classified as ranging from Low risk to High risk of flooding. Further, the central channel of the site along the River Ouzel floodplain is classified as being at risk from flooding from reservoirs.

4.6 RADON

Public Health England defines affected areas as those with a 1% chance or more of a house having a radon concentration at or above the action level of 200 Bq/m^3. The site is reported to lie in an area where less than 1% of properties are above the action level therefore no radon protective measures are considered necessary.

5 REGULATORY INFORMATION, CONSULTATION AND THIRD-PARTY REPORTS

5.1 REGULATORY DATABASE

The Groundsure report includes information and data collected from several organisations including the Environment Agency (EA), the Local Authority, the British Geological Survey (BGS), Department for Environment, Food & Rural Affairs (Defra), Health & Safety Executives (HSE), and the National Radiological Protection Board (NRPB).

It is considered that the information listed in **Table 5-1, Table 5-2 and Table 5-3** represents data of potential relevance in relation of contamination at the site and in close proximity to the site. Full detail can be found presented within the Groundsure report, provided in **Appendix E**.

Table 5-1 - Summary of Database Searches: Pollution incidents

Descriptor	On-site	0-249 m	250-500 m	Details
Licensed Pollution Release	0	2	4	The closest registered pollution release site is located approximately 207m southeast of the site at Esca Food Solutions Ltd for the processing of meat products. The remaining sites are located to the east and southwest of the site relating to permits for surface cleaning, incineration and combustion, manufacturing of non-alcoholic beverages and for coating processes.
Licensed Discharges to Controlled Waters	11	12	9	The on-site discharge consents are listed as for the discharge of final/treated sewage effluent, agricultural discharge and miscellaneous discharges to surface waters.
Pollutant Release to Public Sewer	0	1	1	As discharges of Special Category Effluents to the public sewer. The closest record is associated with the Cotton Valley Wastewater Treatment Works for Alpheus Environmental Limited.
List 1 Dangerous Substances	0	2	0	The closest record is approximately 95m east at Chemetall Plc for the release of Cadmium and Mercury to the River Ouse. Active permit.
Pollution Incidents (Category 3 'Minor' and above)	1	3	2	The onsite incident occurred in 2003 and involved the release of inorganic chemicals / products, specifically alkalis resulting in a Minor impact to Land (Category 3). The remaining offsite incidents were mostly recorded as Category 3 incidents impacting either land, water or air. The exception is one Significant incident (Category 1) that took place in 2017 involving the release of a microbial pollutant that was recorded to impact Water. The incident took place approximately 100 m southwest of the site.

Descriptor	On-site	0-249 m	250-500 m	Details
Pollution Inventory Substances	1	1	1	The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. The data consist of the most recent complete year available. The onsite inventory permits relate to operations at the Cotton Valley Wastewater Treatment Station. The off-site permits are registered to Alpheus Environmental and Coca-Cola Partners.
Part 2(A) Licensed Industrial Activities	0	2	1	The licensed industrial activities within 250 m of the site are associated with the Cotton Valley Waste Treatment Centre for various related processes. The remaining off-site license site is located from approximately 320 m southeast associated with the Coca-cola Enterprises.

Table 5-2 - Summary of Database Searches: Waste Facilities

Feature	On-site	0-249m	250-500m	Details
Historical Landfill Sites	0	5	1	The closest historically active landfill site is located from approximately 32 m southeast of the site. Where data is provided, the landfills are listed to have accepted inert and or industrial waste. The landfills are recorded to the southeast, west and south of the site boundary.
Historical Waste Sites	0	2	0	Closest record is of a Waste Transfer Station located from approximately 9m east of the site at Cotton Valley Sewage Works. The second record is of a Recycling Works for aggregates registered from approximately 227 m north of the site.
Licensed Waste Sites	2	8	11	As active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation. The first of the two on-site licensed waste facilities is located in the southwest of the site and is the registered active Cotton Valley Waste Transfer Station receiving household, commercial and industrial waste. Six further offsite waste licenses are associated with the Cotton Valley works including that for sewage sludge treatment, non-biodegradable waste and for landfill gas use. The second onsite license is at Hermitage Farm for the use of waste in construction. This license was surrendered in 2014. The remaining offsite waste licenced sites are held for waste activities associated with mineral mining (generally associated

Feature	On-site	0-249m	250-500m	Details
				with Willen Road Quarry to the north), waste landfilling or waste transfer stations.
Waste Exemptions	5	9	11	As activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Multiple onsite records associated with the Moulsoe, Wychelm Cottage and Hermitage farms. Offsite records are located all surrounding the site and include for sorting, treating, using and disposing of waste.

Numerous recent industrial or potentially contaminative land uses were identified within 250 m of the site. A summary is presented in **Table 5-3**, below, and the full list is included within the appended Groundsure data report.

Table 5-3 - Summary of Database Searches: Recent Industrial Land Uses

Distance from Site	Potentially contaminative recent land uses
On-site or in the immediate vicinity	Water pumping station, silos, electricity substations.
>100m	Electricity substations, water pumping stations, sewage pumping, settling tanks, generic storage tanks, warehouses.
101 – 250m	Tanks, vehicle service centres including sales and hire services and repairs garages, distribution centre, electricity substations, retail businesses, construction services, business park, electricity substations, quarries and mechanical engineers.

5.2 SENSITIVE LAND USES

The Groundsure report indicates that there are no ecological or other sensitive land uses identified within 500 m of the site. There are no Sites of Special Scientific or Areas of Outstanding Natural Beauty Interest within 1 km of the site.

The Moulsoe Buildings Farmhouse located in the centre of the site off-site is a Grade II listed building.

5.3 LOCAL AUTHORITY ENQUIRY

The EA and the EHO for the Milton Keynes Council were contacted by WSP (via email on the 23 July 2020) regarding any environmentally pertinent information held relating to the site. A response was received on 20 August 2020.

The EA stated that they do not hold any records for soil or groundwater contamination or remedial works beneath the site or within a 250 m radius, no records of spills or leaks from above ground

storage tanks, and they do not have any water quality monitoring sites within a 1 km radius of specified site. The records of landfill and waste transfer stations is detailed within **Section 5.1**.

The response from Milton Keynes Council confirmed much of the information gathered by the Groundsure report, and has been included within **Section 5.1** and **5.2**. The further pertinent information obtained is summarised below, with further detail presented in **Appendix F**.

- Details for a number of tanks, most notably: a record for a petroleum licence held by Hermitage Farm (south of the site) for a 500-gallon petroleum tank, converted to a diesel tank license in 1995. Unknown as to whether the tank is still operational or whether it is above or below ground.
- Two further locations surrounding the site boarder were identified as infilled ground (south and north west of the site).
- There are a number of small sites surrounding the site that have had minor contamination requiring remediation mitigation to satisfy planning conditions following a change of use. These sites are described by the Council as not considered likely to have an impact on the site.

5.4 UNEXPLODED ORDNANCE (UXO)

A preliminary desk study assessment was produced by Zetica UXO Ltd (18th November 2020) to further understand the potential UXO hazard level for the site: the preliminary assessment concluded that the site was of Low UXO hazard risk and did not require further desk-based assessment at this stage.

Further detail of the assessment is included within **Appendix F**.

5.5 PLANNING HISTORY

A search was made of the Milton Keynes Council's planning portal on 23 February 2021.

One record of a planning application was found on-site from the last 5 years:

- Ref. 16/03424/EIASCR: Screening opinion in respect of a proposed relining of an existing sewage pipeline between Cotton Valley Water Recycling Centre and Newport Pagnell Pumping Station.
- Decision: EIA not required. Nov 2016.

Various other small-scale applications are registered surrounding the site and also relating to the properties encompassed within the MKE site boundary but not covered by this development proposal. These applications generally concern extensions and improvement works to existing properties.

5.6 PREVIOUS REPORTS

The Milton Keynes East (MKE) Phase 1 Geo-Environmental Interpretative report and Caldecote Farm Geo-Environmental Interpretative report, have been consulted to obtain baseline data to support this Preliminary Risk Assessment. Details relevant to the current site risk assessment are summarised in the below.

Geo-Environmental and Geotechnical Assessment Interpretative Report, Milton Keynes East Phase 1. WSP, 2012

The site in question is located at the south east of the masterplan site and comprises what is referred to as Phase 1 of the MKE site. The report includes the findings from a geo-environmental and geotechnical intrusive ground investigation and the following Phase 2 risk assessment.

- The geology of the area was confirmed to generally match that of the published BGS mapping with the upper most bedrock being that of the Oxford Clay Formation. Superficial geology was described as Glacial Till covering the majority of surface, Head deposits in the west of the site, and undifferentiated sands encountered across the vast majority of the exploratory locations. Made Ground was found at no greater than 0.20 m thickness. Groundwater was encountered at shallow depths at around 1 m bgl within the Head deposits and also at around 7 m bgl within the Oxford Clay Formation.
- The intrusive works comprised multiple methods of investigation including trial pits, window sampler boreholes, cable percussive boreholes and various geotechnical testing. Monitoring wells were installed for assessment of ground gas and groundwater and samples were collected for laboratory testing. Results for the soils assessment were included within the report however groundwater samples were not retrieved.
- Overall, the assessment found that the soils tested did not present evidence of contaminants of concern at significantly elevated concentrations. Selected soil samples were shown to contain aromatic and aliphatic hydrocarbons above guideline assessment criteria thresholds however these were marginal. Further, one marginally elevated concentration of semi-volatile 2,4-Dinitrophenol was encountered, however also considered to be of low significance to the risk.
- Preliminary ground gas monitoring indicated that the risk from ground gas on the proposed development is considered to be very low.

Geo-Environmental and Geotechnical Interpretative Report, Caldecote Farm, Newport Pagnell. WSP, 2007

The report is of a phase 2 site investigation at the site referred to as 'Caldecote Farm, Newport Pagnell', falling mostly within in the centre of the current site boundary between London Road and Willen Road and covering an approximate area of 260Ha.

- The intrusive investigation comprised a total of 27 trial pits excavated to prove ground conditions, undertaken in-situ testing and to retrieve soil samples.
- Soil samples were analysed for a number of geotechnical parameters in addition to a limited scope of chemical analysis including for heavy metals, polyaromatic hydrocarbons, pH and sulphide.
- The ground investigation found that the geology encountered mostly matched that of the published BGS mapping with the exception of the presence of Head deposits overlying the River Terrace Gravels and the absence of Glacial Lake Deposits.
- The soils contamination assessment was undertaken using Soil Guideline Values (SGVs) valid at the time of reporting and that have since been superseded. When compared with SGVs for a residential with home grown produce land-use, the report finds a limited number of exceedances within samples of the topsoil, Alluvium and Head deposits. The exceeding analytes included cadmium and arsenic, and in all cases, the results were deemed to be either reflective of background concentrations or a non-significant anomaly. When compared to guideline assessment criteria in line with current industry standard, no contaminants of concern exceed their thresholds within the dataset available.

6 PRELIMINARY CONCEPTUAL SITE MODEL

6.1 INTRODUCTION

The preliminary Conceptual Site Model (CSM) is based upon the environmental conditions of the site as described in the previous sections and was developed in the context of the proposed development.

The assessment followed a risk-based approach; with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' contaminant linkage concept introduced in the guidance documents (principally the EA's LCMR) on the practical implementation of the Environmental Protection Act 1990.

Environmental risk can be defined as the combination of the consequence of a harmful effect and the probability of its occurrence. The existence of a contaminant linkage is primarily dependant on site usage and environmental conditions.

The environmental risk assessment has been carried out by identifying and evaluating the significance of the following:

- Potential sources of contamination: these include actual or potentially contaminating materials and activities, located either on or in the vicinity of the site;
- Potential receptors of contamination: these include future land users; and,
- Potential pathways for contamination migration: these are the routes or mechanisms by which contaminants may migrate from the source to the receptor.

6.2 POTENTIAL SOURCES OF CONTAMINATION

Table 6-1 provides a summary of the potential sources of contamination that may be present at the site, as well as the likely nature of such sources.

Table 6-1 - Potential Sources of Contamination

Potential Source	Potential Contaminants of Concern	Likely / Anticipated Distribution
ON-SITE		
Recent and Historical Agricultural land including farm infrastructure / associated pollution incidents	Various contaminants including pesticides, herbicides, nitrates, asbestos, petroleum hydrocarbons and heavy metals.	Site wide, notably surrounding farm boundaries and infrastructure in the centre, south and north.
Made Ground associated fly tipping and construction of M1 motorway	A wide range of possible contaminants including: asbestos, heavy metals, inorganics inc. cyanide, solvents, petroleum hydrocarbons, polyaromatic hydrocarbons (PAH), BTEX (benzene, toluene, ethylbenzene and xylene) and ground gases (methane, hydrogen sulphide and carbon dioxide).	Various locations/southern extent of site for M1.

Potential Source	Potential Contaminants of Concern	Likely / Anticipated Distribution
Historical Brick Works with brick kilns, clay pits and refuse heap	A wide range of possible contaminants including: asbestos, heavy metals (namely lead from the brick works), inorganics inc. cyanide, solvents, petroleum hydrocarbons, polyaromatic hydrocarbons (PAH), BTEX (benzene, toluene, ethylbenzene and xylene) and ground gases (methane, hydrogen sulphide and carbon dioxide).	North, centre.
Historical and recent Tanks	A range of contaminants, namely: petroleum hydrocarbons, PAH, BTEX, volatile organic compounds (VOCs) and semi volatile organics (SVOCs), heavy metals and solvents.	Various locations.
Historical Allotments	A range of possible contaminants including asbestos, heavy metals, inorganics (e.g. cyanide), petroleum hydrocarbons, PAH and ground gases (methane and carbon dioxide).	South eastern extent.
Organic rich soils – Alluvium (peat)	Ground gases including methane and carbon dioxide.	Central region of the site.
OFF-SITE		
Historical land-uses off-site but within this greater site boundary, including: farm infrastructure, tanks and hotel complex.	Asbestos, heavy metals, petroleum hydrocarbons, PAHs, BTEX, solvents, pesticides and herbicides, nitrates, VOCs and SVOCs.	Central, northern and south western points within the greater land boundary.
Further historical land-uses to the west including: M1 construction works, pumping station, wells and council yard.	A wide range of contaminants including: asbestos, heavy metals, petroleum hydrocarbons, PAHs and BTEX.	West.
Historical Allotments	A range of possible contaminants including asbestos, heavy metals, inorganics (e.g. cyanide), petroleum hydrocarbons, PAH and ground gases (methane and carbon dioxide).	All surrounding, closest south east and east.
Historical burial grounds and church yards	Various possible contaminants, namely asbestos, pathogens, formaldehyde, PAHs, heavy metals and ground gases (methane, hydrogen sulphide and carbon dioxide).	All surrounding, closest from 200 m east
Historical gravel pits and unspecified infilled pits	A wide range of possible contaminants relating to surrounding land uses, including: asbestos, heavy metals, inorganics, petroleum hydrocarbons, PAHs, VOCs &	All surrounding, closest from 100 m south.

Potential Source	Potential Contaminants of Concern	Likely / Anticipated Distribution
	SVOCs, and ground gases (methane and carbon dioxide).	
Historical landfill sites / Infilled land	A wide range of potential contaminants relating to the surrounding previous land uses, including: asbestos, heavy metals, inorganics (e.g. cyanide), petroleum hydrocarbons, PAHs, BTEX, mineral oils, PCBs, solvents, microbial, VOC and SVOCs and ground gases (methane, carbon dioxide and hydrogen sulphide).	Various locations, primarily located to the north west, south and south east of the site.
Historical and recent farm land and associated infrastructure	Namely pesticides & herbicides, nitrates, asbestos, heavy metals, petroleum hydrocarbons and PAHs.	All surrounding.
Historical and recent Tanks	A range of contaminants, namely: petroleum hydrocarbons, PAH, BTEX, volatile organic compounds (VOCs) and semi volatile organics (SVOCs), heavy metals and solvents.	Various locations.
Recent industrial / commercial land uses including:		
Development associated with the expansion of Milton Keynes, including: Cotton Valley Sewage Works, various industrial complexes including Northfield Industrial park and Tongwell.	A wide range of potential contaminants including: asbestos, heavy metals, inorganics (e.g. cyanide), petroleum hydrocarbons, PAHs, BTEX, mineral oils, PCBs, solvents, pathogens, VOC and SVOCs and ground gases (methane, carbon dioxide and hydrogen sulphide).	Adjacent to the west / south of the site.
Car Dealers; Road Haulage Services; Garage.	Waste oils (PAHs), heavy metals, brake fluids and fuels.	Multiple locations to the south, west and north of the site.
Miscellaneous industrial/commercial facilities Inc. distribution centres, warehouses, and light goods manufacturers.	A wide range of possible contaminants, including: asbestos, heavy metals, inorganics (e.g. cyanide), petroleum hydrocarbons, PAHs and ground gases (methane and carbon dioxide).	Multiple locations to the south, west and north of the site.

6.3 POTENTIAL RECEPTORS

In the context of the future proposed development, the following potential receptors were identified:

HUMAN HEALTH

- Future site users (e.g. residents, public open space users, school users);
- Construction workers and future maintenance workers; and,
- Third party neighbours.

CONTROLLED WATERS

Surface waters

- River Ouzel and its tributaries (onsite);
- River Great Ouse (off-site)
- Artificial surface water channels and drainage (onsite).

Shallow Aquifers

- Groundwater within the Glaciofluvial Deposits (Secondary A Aquifer);
- Felmersham Member (Secondary A); and,
- Head Deposits (Secondary Undifferentiated).

Deeper Aquifer

Kellaways Sand Formation (Secondary A Aquifer).Other

- Flora
- Services (eg. Potable water pipes) /Building Structures (eg. Concrete)

6.4 PLAUSIBLE PRELIMINARY CONTAMINANT LINKAGES

Table 6-2 provides an evaluation of the potential contaminant linkages that were considered to be plausible on the basis of the information currently available for the site and the proposed end use.

Table 6-2 - Plausible Preliminary Contaminative Linkages

Potential Contaminant Sources	Receptor	Pathways	Comments
ON-SITE			
▪ Agricultural land and associated farm infrastructure ▪ Made Ground soils /fly tipping ▪ Historical brick works site with refuse heap and infilled clay pit ▪ Historical and recent tanks ▪ Historical allotments ▪ Alluvium	**Human Health** ▪ Future site users	▪ Dermal contact ▪ Indirect ingestion of contaminants ▪ Inhalation of dust/fibres ▪ Ground gas/vapour migration	Overall, there is limited evidence of widescale historical manipulation and development of the site and therefore a limited number of potential sources of on-site contamination. The exceptions are namely the historical brick works, tanks, allotments and the farm infrastructure and the potential contamination generated by these sources is likely to be local to the source. Where these former uses are located, there is the potential for contamination to be present within the soils and/or groundwater. The proposed development is understood to comprise a large mixed-use residential and commercial development with areas of open space and soft landscaping. Where hardstanding is present, the exposure pathway of contaminated material to future site users will be limited and / or removed. The risk to future site users is therefore considered to be **Low**. Where areas of soft landscaping are proposed and where overlapping with the potential sources, the risks to future site users is considered to be **Low-Moderate** and should be further investigated. Ground gas and vapours may be generated in the vicinity of the former structures on site, tanks and namely the infilled areas of land. Similarly, Alluvium deposits (mapped in the centre of the site) with associated organic soils such as peat have the ability to generate ground gas. Ground gas may impact underground structures and services where it can accumulate in confined spaces and pose a risk of asphyxiation or explosion. This is considered to pose a **Low-Moderate** risk to future site users in the locations of potential sources where built structures also are proposed (particularly basements), and a **Low** risk in the remainder of the site. Where risks associated with ground gases and vapours are considered to be **Low-Moderate,** they would need to be investigated and potential risks mitigated based on the findings.
	Human Health ▪ Construction workers and future		The risk to future ground / maintenance workers is considered to be **Low-Moderate** across the site due to the potential for direct contact (e.g. dermal exposure or inhalation) with asbestos and potentially contaminated soils.

Potential Contaminant Sources	Receptor	Pathways	Comments
	maintenance workers		
	Human Health ■ Adjacent site users		The site is surrounded by a variety of land uses including commercial/industrial, residential and agricultural / open land. Risks may be present where neighbouring land uses are high sensitivity such as the residential dwellings to the south west and north. However due to the distance from sources identified on-site, the risk to adjacent site users from on-site contamination is considered to be **Low**. Migration of ground gas and / or vapours off-site is considered to be **Low**.
	Controlled Waters – Aquifers • Glaciofluvial Deposits • Felmersham Member • Head Deposits • Kellaways Sand Formation	■ Vertical and lateral leaching from impacted soil ■ Vertical and lateral migration from groundwater	Contaminants present within shallow soils or groundwater, such as that potentially associated with farming activities, has the potential to leach into underlying aquifers via surface water or rain water infiltration leading to vertical and lateral migration. The cohesive or 'Unproductive strata' likely act as aquicludes / aquitards where they overlie the water bearing units, thus restricting vertical or lateral migration of groundwater into the aquifers. The proposed development is understood to include areas of soft landscaping and hardstanding / building cover. In areas of hardstanding, the pathway of infiltration to below ground water receptors is limited. In areas proposed to be uncapped, rainfall will be able to infiltrate though shallow soils, including any Made Ground deposits, and pose a risk to underlying groundwater receptors. Given the historical uses of the site, there is the potential for contaminants to be present within shallow soils and groundwater in the vicinity of the identified sources. A sewer line is also indicated to be present in the south of the site connecting to the sewage treatment works, the condition and location of which is uncertain. Given this, the risk to groundwater is considered to be **Low** for the majority of the site**,** and **Low-Moderate** for the historically developed points.

Potential Contaminant Sources	Receptor	Pathways	Comments
	Controlled Waters – Surface Waters • River Ouzel and tributaries • Drains and surface water channels • River Great Ouse (off-site)		Surface water features may be impacted by contaminants from recent and historical land uses (e.g. agricultural) that migrate via surface water runoff. Based on the previous land uses of the site, the risk posed to surface waters is considered to be **Low – Moderate**.
	• Flora • Services • Building structures	• Direct contact with contaminated soils and groundwater	Given the historical land uses on the site, namely the agricultural use, and the unknown quantity and composition of the Made Ground at formerly developed points, there is the potential for future plant life to be in direct contact with contaminated soils and groundwater. Aggressive ground conditions from made ground or contaminants may be present on site which could affect future building structures or permeate into drinking water pipes. However, the risk is considered to be **Low**.
OFF-SITE			
▪ Recent industrial / commercial land-uses, including: sewage works, industrial complex, fuelling stations, coach stations, council yard, quarries, tanks and electrical substations. ▪ Historical land uses, including: burial grounds, infilled pits and quarries, farm infrastructure, allotments, landfills and tanks.	**Human Health** ▪ Future site users; ▪ Construction workers and future maintenance workers	▪ Ingestion or inhalation of impacted soils windblown from adjacent properties; ▪ Inhalation of asbestos fibres blown from adjacent properties; and, ▪ Ground gas/vapour migration.	The developed areas surrounding the site are predominantly covered with hardstanding which prevents windblown dust / fibres migrating from adjacent properties. The remaining surrounding area exists as agricultural land and therefore likely maintained / covered by vegetation, are also considered unlikely to generate windblown dust Areas of open ground such as the mineral extraction quarry on the western perimeter of the site have the potential to generate wind-blown dust. Made Ground deposits are anticipated to be present to the north, west and south of the site and therefore it is possible that ground gas generation and migration could be occurring from these areas. Furthermore, off-site sources such as infilled land, historical landfill sites and the sewage works have the potential to generate ground gases and vapours. The risk posed to the site and its future users is considered to be **Low-Moderate** and should be investigated further.

Potential Contaminant Sources	Receptor	Pathways	Comments
	Controlled waters – Surface Waters • River Ouzel and tributaries • Drains and surface water channels **Controlled waters – Aquifers** • Glaciofluvial Deposits • Felmersham Member • Head Deposits • Kellaways Sand Formation	▪ Vertical and lateral migration within groundwater.	Groundwater in the region is considered to broadly drain northwards in line with the River Ouzel catchment. More locally, water may drain onto site towards the River Ouzel from the west. Therefore, potentially contaminated groundwater from sources to the south and west of the site have the potential to impact the site (including developments associated with the Milton Keynes expansion, Cotton Valley Sewage Works, Northfield Industrial complex, tanks, council yard etc). Therefore, the risk to groundwater underlying the site and the on-site River Ouzel is considered to be **Low-Moderate**.
	• Flora • Services • Building structures	▪ Vertical and lateral migration within groundwater.	Groundwater is considered likely to flow in a broadly northward direction with local eastward flow from the west of the site. Therefore, potentially contaminated groundwater from sources to the south and west of the site could impact the site. The risk to future plant life in landscaped areas is considered to be **Low-Moderate**.

7 CONCLUSIONS AND RECOMMENDATIONS

7.1 CONCLUSIONS

Based on the information detailed within this report, the following conclusions have been made in the context of the proposed development.

SITE SETTING AND HISTORY

The site is located to the north east of Milton Keynes and measures an approximate area of 440 ha. The majority of the current land-use is open land / agricultural with occasional small-scale developments (mostly fall outside of application boundary). The London Road A509 cuts through the centre of the site running in a north-south orientation and joins the M1 at junction 14. The River Ouzel flows through the centre of the site draining off-site to the north at Newport Pagnell.

Historically, the site has seen limited development with the land predominantly existing as open fields and agricultural space. The exceptions include a brick works with associated refuse heap and clay pits in the centre north of the site, occasional tanks, allotments in the south and small-scale farm complexes. The surrounding land to the north, west and south have included various industrial and commercial uses both historically and in recent time, including the development associated with the expansion of Milton Keynes, Cotton Valley Sewage Works, Tongwell industrial area and Northfield industrial complex. The majority of the land use to the east of the site remains predominantly agricultural.

ENVIRONMENTAL SETTING

The superficial geology of the site and greater area is dictated largely by glacial erosional and depositional environments altering old river channels and flood plains of the Great Ouse River. Superficial deposits mapped on-site include Head deposits, Glaciofluvial Deposits, Diamicton, Alluvium, and River Terrace Gravels (Felmersham Member).

Bedrock deposits on-site are that of the Oxford Clay Formation (thick deposits of mudstones with siltstone and sandstones at the base), underlain by silici-silty or silici-sandy mudstones of the Kellaways Sand Formation, underlain by the Great Oolite Group consisting of interbedded limestones and subordinate sandstones and mudstones. There is a deep buried glacial channel mapped in the centre and north-west of the site reportedly filled with glaciofluvial deposits. Four major faults are present within the area with faulting also inferred to be present on site.

The River Ouzel flows through the centre of the site draining off-site to the north to the River Great Ouse. Its tributaries extend across the site on either side of the river, and in addition multiple small historically manipulated watercourses and land drains are present across the site.

There are a number of shallow aquifer bodies mapped by the EA to be present on-site: Secondary A Aquifers of the Glaciofluvial Deposits and the Felmersham Member Deposits, and the Secondary Undifferentiated Aquifer of the Head deposits. The Alluvium and Diamicton deposits are both classified by the EA as Unproductive strata.

The bedrock deposits of Oxford Clay are described as Unproductive strata. The Kellaways Sand Formation is classified as a Secondary A Aquifer. The underlying Great Oolite Group is generally classified as Unproductive strata at the site. The Oxford Clay Formation is anticipated to largely act as an aquitard limiting the flow of water from superficial aquifers to the bedrock aquifers.

The Groundsure report indicates that there are no ecological or other sensitive land uses identified within 500 m of the site.

PRELIMINARY CONCEPTUAL SITE MODEL

The environmental risk assessment has been carried out by identifying and evaluating the significance of the sources, pathways and receptors on-site and in the surrounding off-site area in the context of a mixed use residential/commercial development.

Risks to future site users from on-site contamination is considered to be Low for the majority of the site, and Low-Moderate in areas of former development. The risk from on-site sources of ground gas and vapours is similarly considered to be Low for the majority of the site, and Low-Moderate where sources are present and built structures are proposed overlying or in the immediate vicinity. The risk posed to the site and its future users from off-site sources of ground gas and vapours is considered to be Low-Moderate, largely from possible sources to the south and west of the site.

The risk to future ground / maintenance workers is considered to be Low-Moderate across the site due to the potential for direct contact with potentially contaminated soils/groundwaters. The risk to adjacent site users from on-site contamination is considered to be Low.

The risk to groundwater within the underlying shallow and deep aquifers from on-site sources is considered to be Low for the majority of the site, and Low-Moderate for the limited areas of historical development. Based on the previous land uses of the site, namely the considerable agricultural use and the likely history of surface run-off, the risk posed to the River Ouzel, its tributaries and the multiple manipulated surface water features is considered to be Low-Moderate. The risk posed by off-site sources of contamination to the underlying aquifers and the River Ouzel is considered to be Low-Moderate, namely due to off-site sources being to the south and west.

The risk to on-site flora, future services and building structures from on-site and off-site sources of soil and groundwater contamination is considered to be Low-Moderate.

7.2 RECOMMENDATIONS

The following is recommended based on this Preliminary Risk Assessment:

- An intrusive ground investigation should be undertaken at the site. It should be compliant with current UK guidance e.g. BS10175 and include a Generic Quantitative Risk Assessment (GQRA) to allow the assessment of identified plausible contaminant linkages and if remedial measures may be required. Due to the large scale of the development it is likely the development will be phased and therefore a phased approach to a future site investigation is likely.
- It is advised the ground investigations are designed based on the following technical objectives:
  - Characterisation of ground and groundwater conditions underlying the site;
  - Soil and groundwater sampling for contamination with investigation of identified potential sources;
  - Groundwater level, ground gas and vapour monitoring where relevant;
  - Ground gas and vapour assessment; and,
  - Provision of a GQRA to assess risk to human health and controlled waters.

Appendix A

FIGURES

Notes:
Do not scale from this drawing.
All contractors must visit the site and be responsible for taking and checking Dimensions.
All construction information should be taken from figured dimensions only.
Any discrepancies between drawings, specifications and site conditions must be brought to the attention of the supervising officer.
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Key

🟥 Redline boundary

Rev	Date	Description	Drawn	Chkd
D3	22.02.21	updated due to changes to redline boundary	LB	AH
D2	17.02.21	updated due to changes to redline boundary	LB	AH
D1	22.12.20	first issue for comment	LB	AH

Drawing Status
DRAFT

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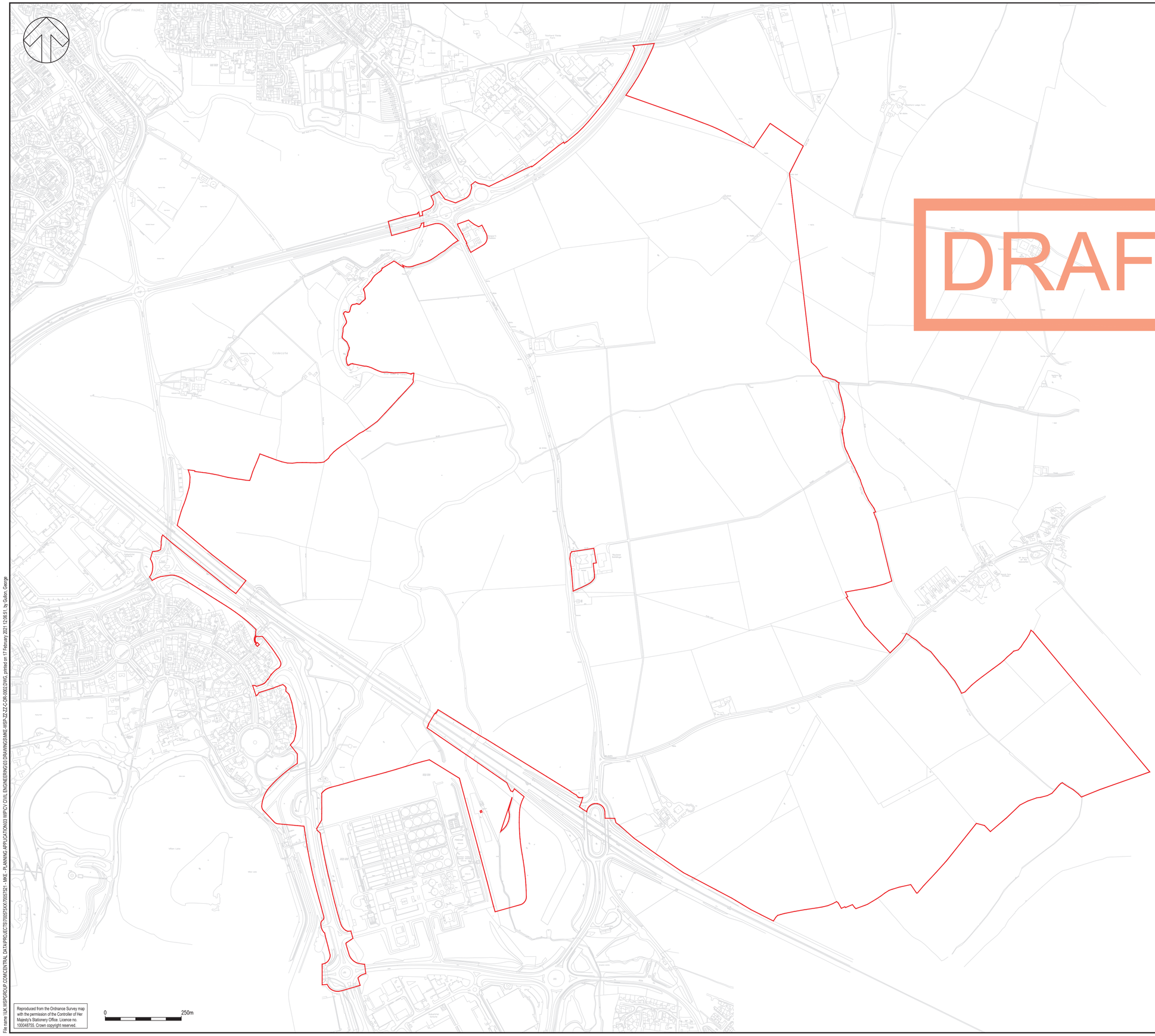
Project
Milton Keynes East

Drawing Title
Site Location Plan

Scale @ A0 1:5000
Job Ref. 01312
Drawing No. 01312 _S_100
Revision D3
Scale Bar 0 50 100 150 200 250m



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0 250m

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KEY:

REDLINE BOUNDARY

DRAFT

REV	DATE	BY	DESCRIPTION	CHK	APP
P04	17/02/2021	GLG	STORM CONTROUR EXTENTS ADDED	ARP	AJN
P03	08/02/2021	GLG	ADDITIONAL REDLINE BOUNDARY UPDATES	ARP	AJN
P02	18/12/2020	GLG	REDLINE BOUNDARY AMENDED	ARP	AG
P01	14/12/2020	GLG	FIRST ISSUE	ARP	AG

DRAWING STATUS:
S0 - WORK IN PROGRESS

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CLIENT:
BERKELEY ST JAMES

ARCHITECT:
JTP / STEPHEN GEORGE AND PARTNERS

SITE/PROJECT:
MILTON KEYNES EAST

TITLE:
PLANNING APPLICATION - REDLINE BOUNDARY

SCALE @ A1:	CHECKED:		APPROVED:
1:6000	ARP		AG
PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70057521	GLG	GLG	February 21

DRAWING No: MKE-WSP-ZZ-ZZ-C-DR-0002 REV: P04

File name: \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70057521\5 WIP\CV CIVIL ENGINEERING\03 DRAWINGS\MKE-WSP-ZZ-ZZ-C-DR-0002.DWG, printed on 17 February 2021 12:06:51, by Gulbin, George

Appendix B

WSP REPORT LIMITATIONS

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.

2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.

3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.

4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.

6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.

7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.

8. WSP UK Limited does not warrant work / data undertaken / provided by others.

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:

- **i.** The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
- **ii.** Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.

10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.

11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.

12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.

13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.

14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.

15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.

16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective

effects of any future changes or amendments to these values. Specific assumptions associated with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.

18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.

19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.

20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.

22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.

25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.

28. The data is presented and will be compared with assessment criteria.

Appendix C

CIRIA RISK DEFINITIONS

CIRIA RISK DEFINITIONS

Table A1 - Classifications of Probability

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

Table A2 - Classifications of Consequence

Classification	Definition
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services (significant harm as defined m the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve, Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). Easily repairable effects of damage to buildings, structures and services

The risk categories presented in this report, taking into account both probability and severity, are based on the matrix presented in **Table A3** below, following CIRIA C552.

Table A3 - Adopted Risk Categories / Comparison of Consequence Against Probability

Probability	Consequence			
	Severe	**Medium**	**Mild**	**Minor**
High Likelihood	Very High Risk	High Risk	Moderate Risk	Low to Moderate Risk
Likely	High Risk	Moderate Risk	Low to Moderate Risk	Low Risk
Low Likelihood	Moderate Risk	Low to Moderate Risk	Low Risk	Very Low Risk
Unlikely	Low to Moderate Risk	Low Risk	Very Low Risk	Very Low Risk

Appendix D

PHOTOGRAPHIC LOG

DO NOT SCALE

KEY

PROPOSED PARKING LOCATION

PROPOSED WALKING ROUTE STARTING/FINISHING LOCATION

PROPOSED CAR ROUTE

PROPOSED WALKING ROUTE

REV	DATE	BY	DESCRIPTION	CHK	APP
P01		AML	FIRST ISSUE		

DRAWING STATUS: S0 - WORK IN PROGRESS

wsp

Mountbatten House, Basing View, Basingstoke, RG21 4HJ, UK
T+ 44 (0) 1256 318 800, F+ 44 (0) 1256 318 700
wsp.com

CLIENT: BERKELEY GROUP

ARCHITECT: JTP/STEPHEN GEORGE AND PARTNERS

SITE/PROJECT: MILTON KEYNES EAST

TITLE: SITE VISIT PLAN - AERIAL PICTURES OVERVIEW

SCALE @ A1:	CHECKED:	APPROVED:
1:5000		

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70051078	AML	AML	٤٠ ٠٤ ٠, 20

DRAWING No:	REV:
1078-WSP-HGT-MKE-GE-0001	P01

File name \\UK.WSPGROUP.COM\CENTRAL DATA\PROJECTS\70051078\70051078XX\70051078 - MILTON KEYNES EAST - ST JAMES\02 WIP\GE GEOTECHNICAL ENGINEERING\02 DRAWING\EHLP\1078-WSP-HGT-MKE-GE-SITE VISIT.DWG, printed on 23 January 2020 13:56:20, by Munoz Limia, Alfonso

1. (7, 8)

2. (19,20.21)

3. (26,27,28)

4. (39, 40, 41).

5. (49,50)

Key:

Select site photos from walkover with associated location and directional details. Please refer to Figure 3 for the photo location plan with corresponding numbers.

Photo 1: South west of the site in between Willen town, Willen Lake and the water treatment facility. Photo reference 7 and 8.

Photo 2: East extent of the site and evidence of flying tipping. Photo reference 19, 20 and 21.

Photo 3: Central to site, photos of caravan use on-site. Photo reference 26, 27 and 28.

Photo 4: North of the site, evidence of fly tipping including agricultural debris. Photo reference 39, 40 and 41.

Photo 5: Southern extent of site. Photo reference 49 and 50.

IMPORTANT – Please Read

6 Devonshire Square
London
EC2M 4YE
Tel: +44 (0) 207 337 1700
Fax: +44 (0) 207 337 1701

Site:
Milton Keynes East

Figure 4.

Title:
Photographic Record

Project No:	Created By:	Date:
70057521	AG	July 2020

Client:
Berkley St James

Appendix E

GROUNDSURE REPORT

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

CENTRE OF POND 96M FROM 29 LONDON ROAD 112M FROM A509, LONDON ROAD, MOULSOE,MK16 0JB

Order Details

Date: 23/07/2020

Your ref: 70057521

Our Ref: GSIP-2020-10326-1095

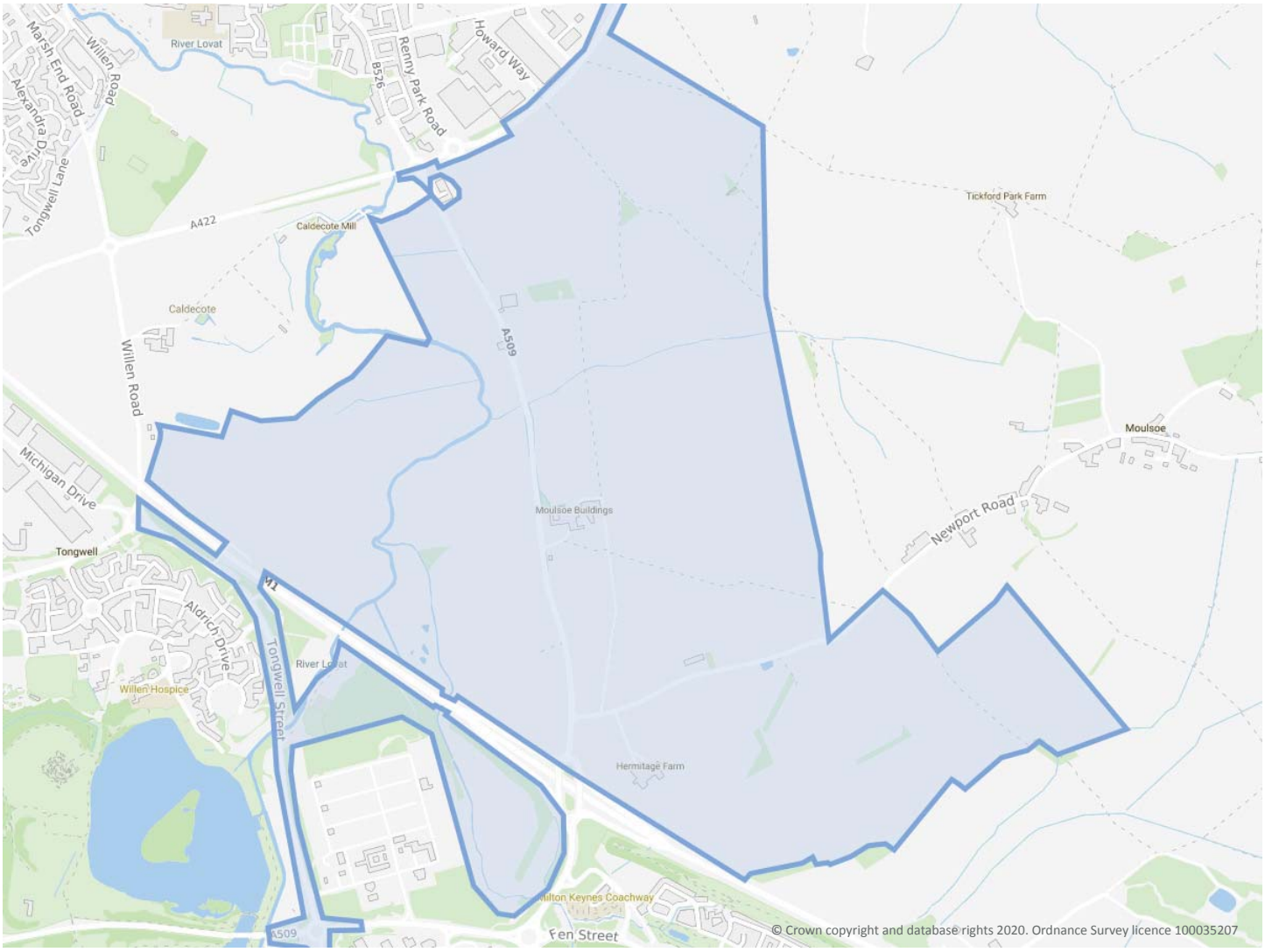
Client: WSP UK LIMITED

Site Details

Location: 488963 241595

Area: 420.6 ha

Authority: Milton Keynes



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	12	10	8	28	-
16	1.2	Historical tanks	4	4	50	18	-
19	1.3	Historical energy features	2	0	8	14	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	0	0	0	-
21	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
22	2.1	Historical industrial land uses	14	11	9	28	-
25	2.2	Historical tanks	4	6	83	37	-
30	2.3	Historical energy features	2	0	19	45	-
32	2.4	Historical petrol stations	0	0	0	0	-
33	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35	3.4	Historical landfill (EA/NRW records)	0	1	4	1	-
36	3.5	Historical waste sites	0	1	1	0	-
37	3.6	Licensed waste sites	2	0	8	11	-
43	3.7	Waste exemptions	50	1	16	43	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
54	4.1	Recent industrial land uses	14	3	157	-	-
65	4.2	Current or recent petrol stations	0	0	0	0	-
65	4.3	Electricity cables	0	0	0	0	-
65	4.4	Gas pipelines	0	0	0	0	-
65	4.5	Sites determined as Contaminated Land	0	0	0	0	-

65	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
66	4.7	Regulated explosive sites	0	0	0	0	-
66	4.8	Hazardous substance storage/usage	0	0	0	0	-
66	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
66	**4.10**	**Licensed industrial activities (Part A(1))**	0	0	9	18	-
71	**4.11**	**Licensed pollutant release (Part A(2)/B)**	0	0	2	4	-
72	4.12	Radioactive Substance Authorisations	0	0	0	0	-
72	**4.13**	**Licensed Discharges to controlled waters**	24	6	7	9	-
79	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
80	**4.15**	**Pollutant release to public sewer**	0	0	2	1	-
80	**4.16**	**List 1 Dangerous Substances**	0	0	2	0	-
81	**4.17**	**List 2 Dangerous Substances**	0	0	2	33	-
82	**4.18**	**Pollution Incidents (EA/NRW)**	2	1	5	3	-
84	**4.19**	**Pollution inventory substances**	25	0	2	2	-
93	**4.20**	**Pollution inventory waste transfers**	1	0	1	1	-
98	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
99	**5.1**	**Superficial aquifer**	Identified (within 500m)				
103	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
105	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
116	**5.4**	**Groundwater vulnerability- soluble rock risk**	Identified (within 0m)				
116	5.5	Groundwater vulnerability- local information	None (within 0m)				
117	**5.6**	**Groundwater abstractions**	1	0	0	3	4
119	**5.7**	**Surface water abstractions**	1	0	0	0	2
120	5.8	Potable abstractions	0	0	0	0	0
121	5.9	Source Protection Zones	0	0	0	0	-
121	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
122	**6.1**	**Water Network (OS MasterMap)**	34	20	60	-	-

131	**6.2**	**Surface water features**	1	5	23	-	-
132	**6.3**	**WFD Surface water body catchments**	4	-	-	-	-
132	**6.4**	**WFD Surface water bodies**	2	1	0	-	-
133	6.5	WFD Groundwater bodies	0	-	-	-	-

Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
134	**7.1**	**Risk of Flooding from Rivers and Sea (RoFRaS)**	High (within 50m)				
135	**7.2**	**Historical Flood Events**	6	4	2	-	-
136	7.3	Flood Defences	0	0	0	-	-
136	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
136	**7.5**	**Flood Storage Areas**	0	1	0	-	-
137	**7.6**	**Flood Zone 2**	Identified (within 50m)				
138	**7.7**	**Flood Zone 3**	Identified (within 50m)				

Page	Section	Surface water flooding	
139	**8.1**	**Surface water flooding**	1 in 30 year, Greater than 1.0m (within 50m)

Page	Section	Groundwater flooding	
141	**9.1**	**Groundwater flooding**	Moderate (within 50m)

Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
142	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
143	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
143	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
143	10.4	Special Protection Areas (SPA)	0	0	0	0	0
143	10.5	National Nature Reserves (NNR)	0	0	0	0	0
144	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
144	**10.7**	**Designated Ancient Woodland**	0	0	0	0	11
145	10.8	Biosphere Reserves	0	0	0	0	0
145	10.9	Forest Parks	0	0	0	0	0
145	10.10	Marine Conservation Zones	0	0	0	0	0
145	10.11	Green Belt	0	0	0	0	0
145	10.12	Proposed Ramsar sites	0	0	0	0	0

146	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
146	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
146	10.15	Nitrate Sensitive Areas	0	0	0	0	0
146	**10.16**	**Nitrate Vulnerable Zones**	1	0	0	0	1
148	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
149	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
150	11.1	World Heritage Sites	0	0	0	-	-
151	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
151	11.3	National Parks	0	0	0	-	-
151	**11.4**	**Listed Buildings**	1	0	1	-	-
152	**11.5**	**Conservation Areas**	0	0	1	-	-
152	11.6	Scheduled Ancient Monuments	0	0	0	-	-
152	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
153	**12.1**	**Agricultural Land Classification**	Grade 2 (within 250m)				
155	12.2	Open Access Land	0	0	0	-	-
156	**12.3**	**Tree Felling Licences**	16	0	1	-	-
157	**12.4**	**Environmental Stewardship Schemes**	1	4	1	-	-
157	**12.5**	**Countryside Stewardship Schemes**	7	0	1	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
159	**13.1**	**Priority Habitat Inventory**	11	9	16	-	-
161	13.2	Habitat Networks	0	0	0	-	-
161	**13.3**	**Open Mosaic Habitat**	0	0	1	-	-
161	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
163	**14.1**	**10k Availability**	Identified (within 500m)				
164	**14.2**	**Artificial and made ground (10k)**	8	2	4	5	-
166	**14.3**	**Superficial geology (10k)**	17	1	14	13	-

168	14.4	Landslip (10k)	0	0	0	0	-
169	**14.5**	**Bedrock geology (10k)**	5	1	2	4	-
170	**14.6**	**Bedrock faults and other linear features (10k)**	4	0	1	4	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
171	**15.1**	**50k Availability**	Identified (within 500m)				
172	**15.2**	**Artificial and made ground (50k)**	0	1	0	1	-
173	15.3	Artificial ground permeability (50k)	0	0	-	-	-
174	**15.4**	**Superficial geology (50k)**	14	1	12	5	-
176	**15.5**	**Superficial permeability (50k)**	Identified (within 50m)				
177	15.6	Landslip (50k)	0	0	0	0	-
177	15.7	Landslip permeability (50k)	None (within 50m)				
178	**15.8**	**Bedrock geology (50k)**	3	0	0	3	-
179	**15.9**	**Bedrock permeability (50k)**	Identified (within 50m)				
179	**15.10**	**Bedrock faults and other linear features (50k)**	3	0	1	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
181	**16.1**	**BGS Boreholes**	136	61	220	-	-
Page	Section	Natural ground subsidence					
199	**17.1**	**Shrink swell clays**	Moderate (within 50m)				
201	**17.2**	**Running sands**	Low (within 50m)				
203	**17.3**	**Compressible deposits**	Moderate (within 50m)				
205	**17.4**	**Collapsible deposits**	Very low (within 50m)				
207	**17.5**	**Landslides**	Low (within 50m)				
209	**17.6**	**Ground dissolution of soluble rocks**	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
211	18.1	Natural cavities	0	0	0	0	-
212	**18.2**	**BritPits**	2	0	2	3	-
213	**18.3**	**Surface ground workings**	19	11	17	-	-
215	18.4	Underground workings	0	0	0	0	0
215	**18.5**	**Historical Mineral Planning Areas**	1	1	2	0	-

216	18.6	Non-coal mining	0	0	0	0	0
216	18.7	Mining cavities	0	0	0	0	0
216	18.8	JPB mining areas	None (within 0m)				
216	18.9	Coal mining	None (within 0m)				
216	18.10	Brine areas	None (within 0m)				
217	18.11	Gypsum areas	None (within 0m)				
217	18.12	Tin mining	None (within 0m)				
217	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
218	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
219	**20.1**	**BGS Estimated Background Soil Chemistry**	149	18	-	-	-
228	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
229	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
230	21.1	Underground railways (London)	0	0	0	-	-
230	21.2	Underground railways (Non-London)	0	0	0	-	-
230	21.3	Railway tunnels	0	0	0	-	-
230	21.4	Historical railway and tunnel features	0	0	0	-	-
230	21.5	Royal Mail tunnels	0	0	0	-	-
231	21.6	Historical railways	0	0	0	-	-
231	21.7	Railways	0	0	0	-	-
231	21.8	Crossrail 1	0	0	0	0	-
231	21.9	Crossrail 2	0	0	0	0	-
231	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 21/06/2017

Site Area: 420.6ha

Recent site history - 2015 aerial photograph

Capture Date: 22/08/2015

Site Area: 420.6ha

Recent site history - 2012 aerial photograph

Capture Date: 07/09/2012

Site Area: 420.6ha

Recent site history - 2006 aerial photograph

Capture Date: 04/11/2006

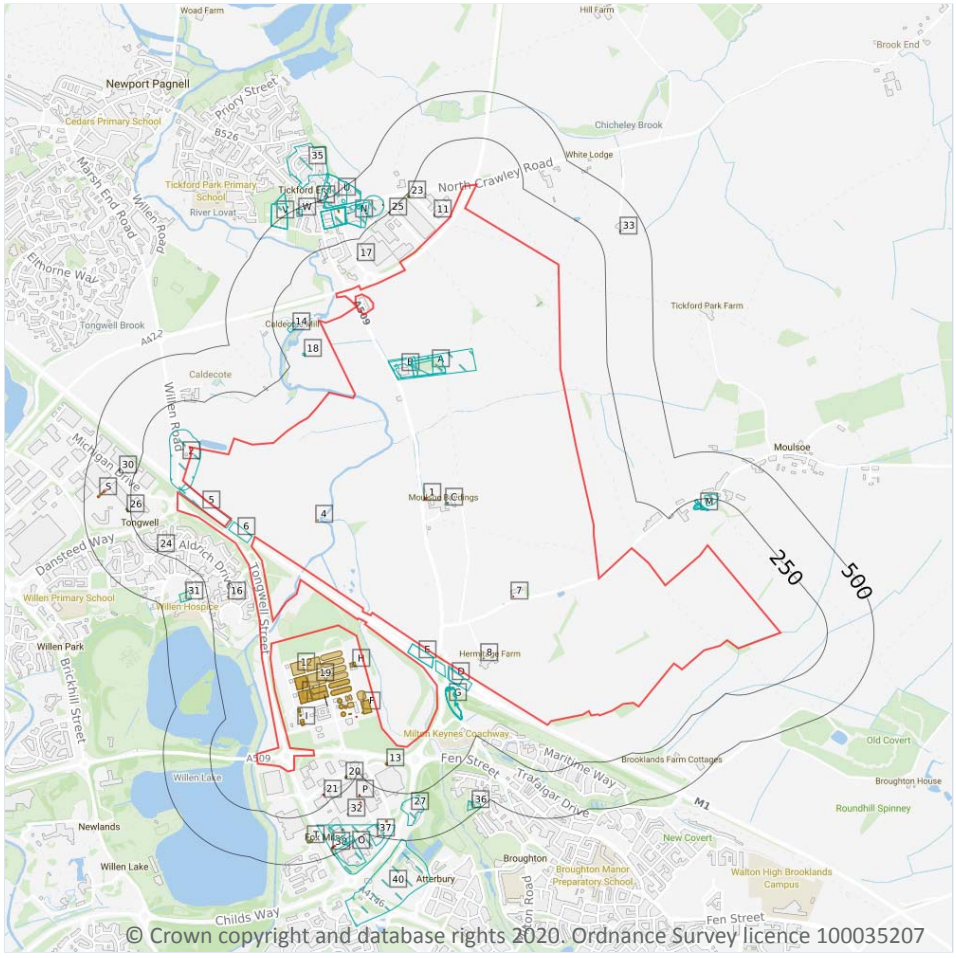
Site Area: 420.6ha

Recent site history - 1999 aerial photograph

Capture Date: 28/08/1999

Site Area: 420.6ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	58

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
2	**On site**	**Council Yard**	**1971**	**1757229**

ID	Location	Land use	Dates present	Group ID
5	**On site**	**Cuttings**	**1963**	**1752311**
6	**On site**	**Cuttings**	**1963**	**1752312**
A	**On site**	**Brick Works**	**1899**	**1764192**
A	**On site**	**Unspecified Pit**	**1899**	**1789473**
A	**On site**	**Unspecified Pit**	**1924 - 1950**	**1807524**
A	**On site**	**Unspecified Pit**	**1963**	**1838599**
B	**On site**	**Brick Field**	**1882**	**1763609**
B	**On site**	**Brick Kilns**	**1882**	**1770138**
B	**On site**	**Refuse Heap**	**1882**	**1770646**
C	**On site**	**Unspecified Tank**	**1963**	**1790302**
C	**On site**	**Unspecified Tank**	**1924 - 1950**	**1802186**
D	11m SW	Cuttings	1971	1833559
E	16m SW	Cuttings	1971	1820089
E	16m SW	Cuttings	1963	1836242
D	20m SW	Cuttings	1963	1845881
9	21m SW	Cuttings	1963	1752313
G	44m E	Old Gravel Pit	1899	1789259
G	44m E	Unspecified Pit	1924 - 1950	1797703
G	45m E	Refuse Heap	1882	1770645
G	46m E	Old Gravel Pit	1899	1804024
G	46m E	Old Gravel Pit	1950	1810025
14	117m W	Unspecified Mill	1971	1758932
18	144m SW	Pumping Station	1971	1766155
M	186m N	Refuse Heap	1882	1770643
M	188m N	Unspecified Ground Workings	1924 - 1950	1817840
M	189m N	Unspecified Pit	1967	1777633
22	210m N	Grave Yard	1882	1763085
M	219m N	Unspecified Ground Workings	1950	1806684

ID	Location	Land use	Dates present	Group ID
M	219m N	Unspecified Ground Workings	1899	1834088
N	262m NW	Unspecified Works	1971	1771698
27	262m S	Unspecified Disused Pit	1971	1766608
28	273m NW	Gravel Pit	1899	1757960
N	277m NW	Site of Burial Ground	1938	1774023
O	318m S	Industrial Estate	1991	1757583
31	337m W	Grave Yard	1882	1763092
Q	338m N	Unspecified Workhouse	1899	1767044
Q	338m N	Hospital	1951	1821715
Q	339m N	Hospital	1971	1807108
Q	339m N	Hospital	1963	1840710
Q	343m N	Workhouse	1882	1751318
N	360m NW	Burial Ground	1971	1803226
N	360m NW	Burial Ground	1963	1846185
R	364m SE	Unspecified Warehouse	1987	1757699
T	382m S	Unspecified Tanks	1991	1761564
U	388m NW	Burial Ground	1951	1829898
U	388m NW	Burial Ground	1924	1845508
35	423m NW	Unspecified Works	1971	1825651
36	431m SE	Grave Yard	1882	1763084
V	432m NW	Cemetery	1951	1811710
V	433m NW	Cemetery	1963	1793666
V	433m NW	Cemetery	1971	1812762
37	435m S	Unspecified Warehouse	1987	1757698
U	436m NW	Gravel Pit	1963	1757959
W	451m NW	Pumping Station	1971	1766154
O	462m SE	Unspecified Heap	1987	1757003
39	485m SE	Unspecified Factory	1987	1765695

ID	Location	Land use	Dates present	Group ID
40	494m S	Unspecified Disused Pit	1991	1766609

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**76**

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 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
3	**On site**	**Unspecified Tank**	**1881**	**284104**
4	**On site**	**Unspecified Tank**	**1881**	**284113**
8	**On site**	**Tanks**	**1969**	**287383**
C	**On site**	**Unspecified Tank**	**1925**	**284103**
F	29m W	Tanks	1983	296659
F	29m W	Tanks	1993	293589
10	38m W	Settling Tank	1993	292206
H	45m W	Tanks	1983	287381
H	64m W	Tanks	1983	287382
F	78m W	Unspecified Tank	1993	299884
F	78m W	Unspecified Tank	1983	300724
I	89m E	Tanks	1991	300019
I	90m E	Tanks	1993	292593
I	91m E	Tanks	1982	299709
I	92m E	Tanks	1991	287380
I	93m E	Tanks	1982	294956
I	93m E	Tanks	1991	294433

ID	Location	Land use	Dates present	Group ID
I	93m E	Tanks	1993	301192
I	95m E	Tanks	1982 - 1993	291812
F	98m W	Tanks	1993	298565
F	99m W	Tanks	1993	288589
F	99m W	Tanks	1993	292860
F	99m W	Tanks	1993	292280
F	99m W	Tanks	1993	301687
F	100m W	Tanks	1983	300606
F	100m W	Tanks	1983	295965
F	100m W	Tanks	1993	291967
12	101m E	Tanks	1993	300771
13	107m SW	Unspecified Tank	1982 - 1990	294806
J	111m E	Tanks	1993	300827
F	112m W	Tanks	1993	289325
J	112m E	Tanks	1991	299675
J	112m E	Tanks	1982	294374
F	113m W	Tanks	1993	298714
K	117m E	Tanks	1993	295206
K	118m E	Tanks	1982	297585
K	118m E	Tanks	1991	295079
F	132m W	Tanks	1993	298461
15	133m S	Tanks	1993	297099
F	137m W	Unspecified Tank	1993	295933
F	138m W	Unspecified Tank	1983	284106
F	147m W	Unspecified Tank	1993	289814
F	147m W	Unspecified Tank	1983	284105
F	150m W	Gas Holder	1983 - 1993	292343
K	153m E	Tanks	1983	292879

ID	Location	Land use	Dates present	Group ID
F	167m W	Unspecified Tank	1993	293682
F	167m W	Unspecified Tank	1983	298884
F	167m W	Unspecified Tank	1983	298480
F	168m W	Unspecified Tank	1993	300812
F	168m W	Unspecified Tank	1993	299166
F	168m W	Unspecified Tank	1983	297529
J	173m E	Tanks	1983	287379
19	182m E	Tanks	1993	301434
L	183m E	Tanks	1993	289556
L	184m E	Tanks	1983	296070
L	184m E	Tanks	1983	289633
20	201m SE	Tanks	1982 - 1990	296899
23	230m NW	Unspecified Tank	1988 - 1992	292682
26	261m W	Tanks	1993	299845
32	359m SE	Unspecified Tank	1982 - 1990	296098
33	371m NE	Unspecified Tank	1925	284117
N	377m NW	Unspecified Tank	1980 - 1991	291596
T	383m S	Unspecified Tank	1992 - 1995	290777
T	386m S	Unspecified Tank	1992 - 1995	296267
S	397m W	Tanks	1991 - 1994	297873
S	405m W	Unspecified Tank	1991 - 1994	290554
34	405m S	Unspecified Tank	1982 - 1990	293637
Q	407m N	Unspecified Tank	1991	289327
Q	407m N	Unspecified Tank	1989	297807
Q	407m N	Unspecified Tank	1980	297552
Q	415m N	Unspecified Tank	1969	284108
Q	415m N	Tanks	1980 - 1991	290135
S	416m W	Unspecified Tank	1991 - 1994	290759

ID	Location	Land use	Dates present	Group ID
W	476m NW	Tanks	1980	287372
W	476m NW	Unspecified Tank	1969	284107
W	476m NW	Unspecified Tank	1969	284109

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**24**

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 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
1	**On site**	**Electricity Substation**	**1996**	**170351**
7	**On site**	**Electricity Substation**	**1996**	**170353**
11	67m NW	Electricity Substation	1992	170317
F	112m W	Gas Governor	1993	185705
16	142m W	Electricity Substation	1991	182759
17	143m N	Electricity Substation	1999	177927
F	150m W	Gas Holder	1983 - 1993	180674
21	202m SE	Electricity Substation	1982 - 1990	180696
24	235m SW	Electricity Substation	1991	170287
25	246m NW	Electricity Substation	1989 - 1999	179080
29	298m NW	Gas Governor	1989 - 1999	176803
N	313m NW	Electricity Substation	1969	184741
N	314m NW	Electricity Substation	1980	175979
N	315m NW	Electricity Substation	1989 - 1991	177392
P	319m SE	Electricity Substation	1982 - 1990	178329

ID	Location	Land use	Dates present	Group ID
30	331m W	Electricity Substation	1991 - 1994	178741
P	350m SE	Electricity Substation	1982 - 1990	181444
S	380m W	Electricity Substation	1991 - 1994	185263
R	410m SE	Electricity Substation	1982 - 1995	176043
S	421m W	Electricity Substation	1991 - 1994	174436
R	442m SE	Electricity Substation	1982 - 1995	179538
38	459m SE	Electricity Substation	1989	170495
X	496m NW	Electricity Substation	1980 - 1999	175286
X	499m NW	Electricity Substation	1989 - 1991	182400

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 un-grouped 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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

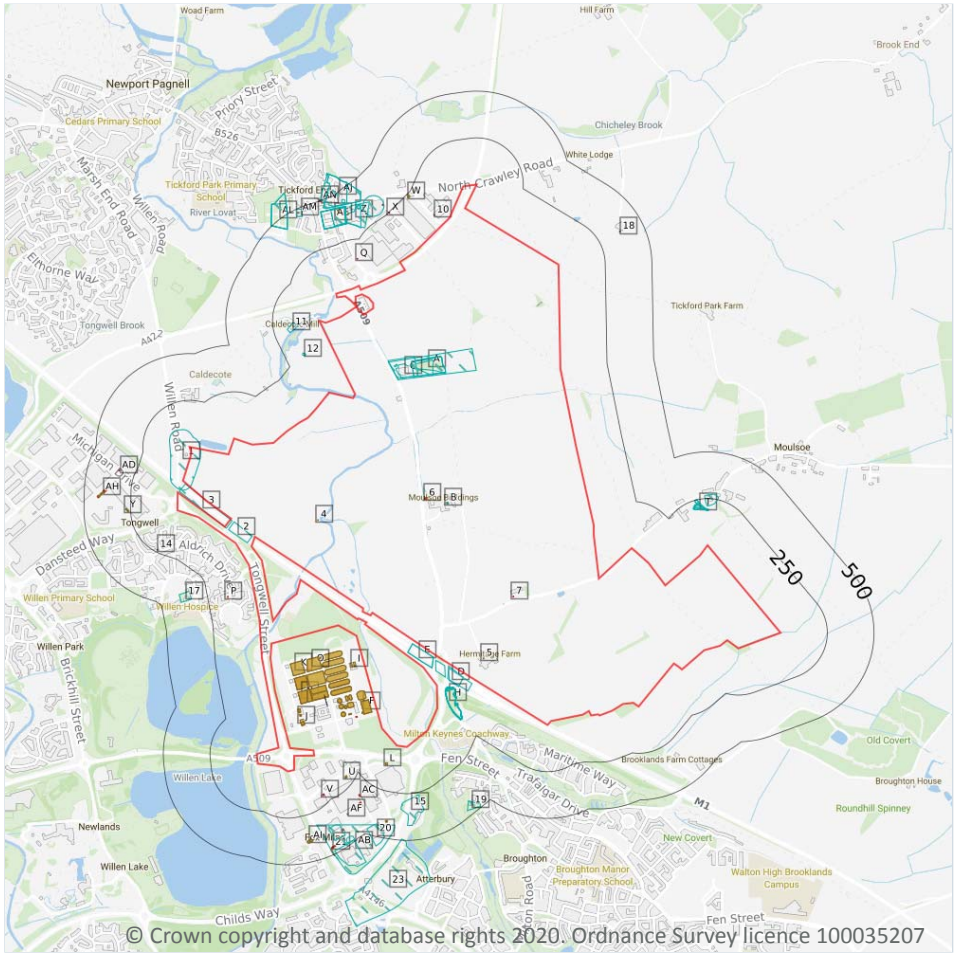
1.6 Historical military land

Records within 500m	0

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.

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

2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m	62

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

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Council Yard**	**1971**	**1757229**
2	**On site**	**Cuttings**	**1963**	**1752312**
3	**On site**	**Cuttings**	**1963**	**1752311**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Pit**	**1950**	**1807524**
A	**On site**	**Unspecified Pit**	**1924**	**1807524**
A	**On site**	**Unspecified Pit**	**1899**	**1789473**
A	**On site**	**Brick Works**	**1899**	**1764192**
A	**On site**	**Unspecified Pit**	**1963**	**1838599**
B	**On site**	**Unspecified Tank**	**1950**	**1802186**
B	**On site**	**Unspecified Tank**	**1924**	**1802186**
B	**On site**	**Unspecified Tank**	**1963**	**1790302**
C	**On site**	**Refuse Heap**	**1882**	**1770646**
C	**On site**	**Brick Field**	**1882**	**1763609**
C	**On site**	**Brick Kilns**	**1882**	**1770138**
D	11m SW	Cuttings	1971	1833559
E	16m SW	Cuttings	1963	1836242
E	16m SW	Cuttings	1971	1820089
D	20m SW	Cuttings	1963	1845881
9	21m SW	Cuttings	1963	1752313
H	44m E	Unspecified Pit	1950	1797703
H	44m E	Unspecified Pit	1924	1797703
H	44m E	Old Gravel Pit	1899	1789259
H	45m E	Refuse Heap	1882	1770645
H	46m E	Old Gravel Pit	1899	1804024
H	46m E	Old Gravel Pit	1950	1810025
11	117m W	Unspecified Mill	1971	1758932
12	144m SW	Pumping Station	1971	1766155
T	186m N	Refuse Heap	1882	1770643
T	188m N	Unspecified Ground Workings	1950	1817840
T	188m N	Unspecified Ground Workings	1924	1817840
T	189m N	Unspecified Pit	1967	1777633

ID	Location	Land Use	Date	Group ID
13	210m N	Grave Yard	1882	1763085
T	219m N	Unspecified Ground Workings	1899	1834088
T	219m N	Unspecified Ground Workings	1950	1806684
Z	262m NW	Unspecified Works	1971	1771698
15	262m S	Unspecified Disused Pit	1971	1766608
16	273m NW	Gravel Pit	1899	1757960
Z	277m NW	Site of Burial Ground	1938	1774023
AB	318m S	Industrial Estate	1991	1757583
17	337m W	Grave Yard	1882	1763092
AE	338m N	Hospital	1951	1821715
AE	338m N	Unspecified Workhouse	1899	1767044
AE	339m N	Hospital	1963	1840710
AE	339m N	Hospital	1971	1807108
AE	343m N	Workhouse	1882	1751318
Z	360m NW	Burial Ground	1963	1846185
Z	360m NW	Burial Ground	1971	1803226
AG	364m SE	Unspecified Warehouse	1987	1757699
AI	382m S	Unspecified Tanks	1991	1761564
AJ	388m NW	Burial Ground	1951	1829898
AJ	388m NW	Burial Ground	1924	1845508
AJ	423m NW	Unspecified Works	1971	1825651
19	431m SE	Grave Yard	1882	1763084
AL	432m NW	Cemetery	1951	1811710
AL	433m NW	Cemetery	1963	1793666
AL	433m NW	Cemetery	1971	1812762
20	435m S	Unspecified Warehouse	1987	1757698
AJ	436m NW	Gravel Pit	1963	1757959
AM	451m NW	Pumping Station	1971	1766154

ID	Location	Land Use	Date	Group ID
AB	462m SE	Unspecified Heap	1987	1757003
22	485m SE	Unspecified Factory	1987	1765695
23	494m S	Unspecified Disused Pit	1991	1766609

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m **130**

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

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
4	**On site**	**Unspecified Tank**	**1881**	**284113**
5	**On site**	**Tanks**	**1969**	**287383**
8	**On site**	**Unspecified Tank**	**1881**	**284104**
B	**On site**	**Unspecified Tank**	**1925**	**284103**
F	29m W	Tanks	1983	296659
F	29m W	Tanks	1993	293589
F	29m W	Tanks	1993	293589
G	38m W	Settling Tank	1993	292206
G	38m W	Settling Tank	1993	292206
I	45m W	Tanks	1983	287381
I	64m W	Tanks	1983	287382
F	78m W	Unspecified Tank	1993	299884
F	78m W	Unspecified Tank	1993	299884
F	78m W	Unspecified Tank	1983	300724
J	89m E	Tanks	1991	300019
J	90m E	Tanks	1993	292593
J	90m E	Tanks	1993	292593

ID	Location	Land Use	Date	Group ID
J	91m E	Tanks	1982	299709
J	92m E	Tanks	1991	287380
J	93m E	Tanks	1993	301192
J	93m E	Tanks	1993	301192
J	93m E	Tanks	1982	294956
J	93m E	Tanks	1991	294433
J	95m E	Tanks	1991	291812
J	96m E	Tanks	1993	291812
J	96m E	Tanks	1993	291812
J	96m E	Tanks	1982	291812
F	98m W	Tanks	1993	298565
F	98m W	Tanks	1993	298565
F	99m W	Tanks	1993	288589
F	99m W	Tanks	1993	288589
F	99m W	Tanks	1993	292860
F	99m W	Tanks	1993	292860
F	99m W	Tanks	1993	292280
F	99m W	Tanks	1993	292280
F	99m W	Tanks	1993	301687
F	99m W	Tanks	1993	301687
F	100m W	Tanks	1983	300606
F	100m W	Tanks	1983	295965
F	100m W	Tanks	1993	291967
F	100m W	Tanks	1993	291967
K	101m E	Tanks	1993	300771
K	101m E	Tanks	1993	300771
L	107m SW	Unspecified Tank	1982	294806
L	107m SW	Unspecified Tank	1990	294806

ID	Location	Land Use	Date	Group ID
M	111m E	Tanks	1993	300827
M	111m E	Tanks	1993	300827
F	112m W	Tanks	1993	289325
F	112m W	Tanks	1993	289325
M	112m E	Tanks	1991	299675
M	112m E	Tanks	1982	294374
F	113m W	Tanks	1993	298714
F	113m W	Tanks	1993	298714
N	117m E	Tanks	1993	295206
N	117m E	Tanks	1993	295206
N	118m E	Tanks	1982	297585
N	118m E	Tanks	1991	295079
F	132m W	Tanks	1993	298461
F	132m W	Tanks	1993	298461
O	133m S	Tanks	1993	297099
O	133m S	Tanks	1993	297099
F	137m W	Unspecified Tank	1993	295933
F	137m W	Unspecified Tank	1993	295933
F	138m W	Unspecified Tank	1983	284106
F	147m W	Unspecified Tank	1993	289814
F	147m W	Unspecified Tank	1993	289814
F	147m W	Unspecified Tank	1983	284105
F	150m W	Gas Holder	1983	292343
F	150m W	Gas Holder	1993	292343
F	150m W	Gas Holder	1993	292343
N	152m E	Tanks	1993	295206
N	152m E	Tanks	1993	295206
N	153m E	Tanks	1983	292879

ID	Location	Land Use	Date	Group ID
F	167m W	Unspecified Tank	1993	293682
F	167m W	Unspecified Tank	1993	293682
F	167m W	Unspecified Tank	1983	298884
F	167m W	Unspecified Tank	1983	298480
F	168m W	Unspecified Tank	1993	300812
F	168m W	Unspecified Tank	1993	300812
F	168m W	Unspecified Tank	1993	299166
F	168m W	Unspecified Tank	1993	299166
F	168m W	Unspecified Tank	1983	297529
M	173m E	Tanks	1983	287379
R	182m E	Tanks	1993	301434
R	182m E	Tanks	1993	301434
S	183m E	Tanks	1993	289556
S	183m E	Tanks	1993	289556
S	184m E	Tanks	1983	296070
S	184m E	Tanks	1983	289633
U	201m SE	Tanks	1982	296899
U	202m SE	Tanks	1990	296899
W	230m NW	Unspecified Tank	1988	292682
W	230m NW	Unspecified Tank	1992	292682
Y	261m W	Tanks	1993	299845
Y	261m W	Tanks	1993	299845
AF	359m SE	Unspecified Tank	1990	296098
AF	359m SE	Unspecified Tank	1982	296098
18	371m NE	Unspecified Tank	1925	284117
Z	377m NW	Unspecified Tank	1980	291596
Z	378m NW	Unspecified Tank	1989	291596
Z	378m NW	Unspecified Tank	1991	291596

ID	Location	Land Use	Date	Group ID
AI	383m S	Unspecified Tank	1995	290777
AI	383m S	Unspecified Tank	1992	290777
AI	383m S	Unspecified Tank	1995	290777
AI	383m S	Unspecified Tank	1992	290777
AI	386m S	Unspecified Tank	1995	296267
AI	386m S	Unspecified Tank	1992	296267
AI	386m S	Unspecified Tank	1995	296267
AI	386m S	Unspecified Tank	1992	296267
AH	397m W	Tanks	1994	297873
AH	397m W	Tanks	1994	297873
AH	397m W	Tanks	1991	297873
AH	405m W	Unspecified Tank	1991	290554
AK	405m S	Unspecified Tank	1982	293637
AK	405m S	Unspecified Tank	1990	293637
AH	405m W	Unspecified Tank	1994	290554
AH	405m W	Unspecified Tank	1994	290554
AE	407m N	Unspecified Tank	1989	297807
AE	407m N	Unspecified Tank	1991	289327
AE	407m N	Unspecified Tank	1980	297552
AE	415m N	Unspecified Tank	1969	284108
AE	415m N	Tanks	1989	290135
AE	415m N	Tanks	1991	290135
AE	415m N	Tanks	1980	290135
AH	416m W	Unspecified Tank	1991	290759
AH	416m W	Unspecified Tank	1994	290759
AH	416m W	Unspecified Tank	1994	290759
AM	476m NW	Tanks	1980	287372
AM	476m NW	Unspecified Tank	1969	284107

ID	Location	Land Use	Date	Group ID
AM	476m NW	Unspecified Tank	1969	284109

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**66**

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

Features are displayed on the Past land use - un-grouped map on **page 22**

ID	Location	Land Use	Date	Group ID
6	**On site**	**Electricity Substation**	**1996**	**170351**
7	**On site**	**Electricity Substation**	**1996**	**170353**
10	67m NW	Electricity Substation	1992	170317
F	112m W	Gas Governor	1993	185705
F	112m W	Gas Governor	1993	185705
P	142m W	Electricity Substation	1991	182759
P	142m W	Electricity Substation	1991	182759
Q	143m N	Electricity Substation	1999	177927
Q	143m N	Electricity Substation	1999	177927
F	150m W	Gas Holder	1983	180674
F	150m W	Gas Holder	1993	180674
F	150m W	Gas Holder	1993	180674
V	202m SE	Electricity Substation	1982	180696
V	202m SE	Electricity Substation	1990	180696
14	235m SW	Electricity Substation	1991	170287
X	246m NW	Electricity Substation	1994	179080
X	246m NW	Electricity Substation	1994	179080
X	246m NW	Electricity Substation	1999	179080
X	246m NW	Electricity Substation	1999	179080

ID	Location	Land Use	Date	Group ID
X	247m NW	Electricity Substation	1989	179080
X	247m NW	Electricity Substation	1991	179080
AA	298m NW	Gas Governor	1994	176803
AA	298m NW	Gas Governor	1994	176803
AA	298m NW	Gas Governor	1999	176803
AA	298m NW	Gas Governor	1999	176803
AA	299m NW	Gas Governor	1989	176803
AA	299m NW	Gas Governor	1991	176803
Z	313m NW	Electricity Substation	1969	184741
Z	314m NW	Electricity Substation	1980	175979
Z	315m NW	Electricity Substation	1989	177392
Z	315m NW	Electricity Substation	1991	177392
AC	319m SE	Electricity Substation	1990	178329
AC	319m SE	Electricity Substation	1982	178329
AD	331m W	Electricity Substation	1991	178741
AD	332m W	Electricity Substation	1994	178741
AD	332m W	Electricity Substation	1994	178741
AC	350m SE	Electricity Substation	1990	181444
AC	351m SE	Electricity Substation	1982	181444
AH	380m W	Electricity Substation	1991	185263
AH	380m W	Electricity Substation	1994	185263
AH	380m W	Electricity Substation	1994	185263
AG	410m SE	Electricity Substation	1995	176043
AG	410m SE	Electricity Substation	1992	176043
AG	410m SE	Electricity Substation	1995	176043
AG	410m SE	Electricity Substation	1992	176043
AG	410m SE	Electricity Substation	1989	176043
AG	411m SE	Electricity Substation	1982	176043

ID	Location	Land Use	Date	Group ID
AG	411m SE	Electricity Substation	1982	176043
AH	421m W	Electricity Substation	1991	174436
AH	421m W	Electricity Substation	1994	174436
AH	421m W	Electricity Substation	1994	174436
AG	442m SE	Electricity Substation	1989	179538
AG	442m SE	Electricity Substation	1982	179538
AG	442m SE	Electricity Substation	1982	179538
AG	443m SE	Electricity Substation	1995	179538
AG	443m SE	Electricity Substation	1992	179538
AG	443m SE	Electricity Substation	1995	179538
AG	443m SE	Electricity Substation	1992	179538
21	459m SE	Electricity Substation	1989	170495
AN	496m NW	Electricity Substation	1994	175286
AN	496m NW	Electricity Substation	1994	175286
AN	496m NW	Electricity Substation	1999	175286
AN	496m NW	Electricity Substation	1999	175286
AN	497m NW	Electricity Substation	1980	175286
AN	499m NW	Electricity Substation	1989	182400
AN	499m NW	Electricity Substation	1991	182400

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.

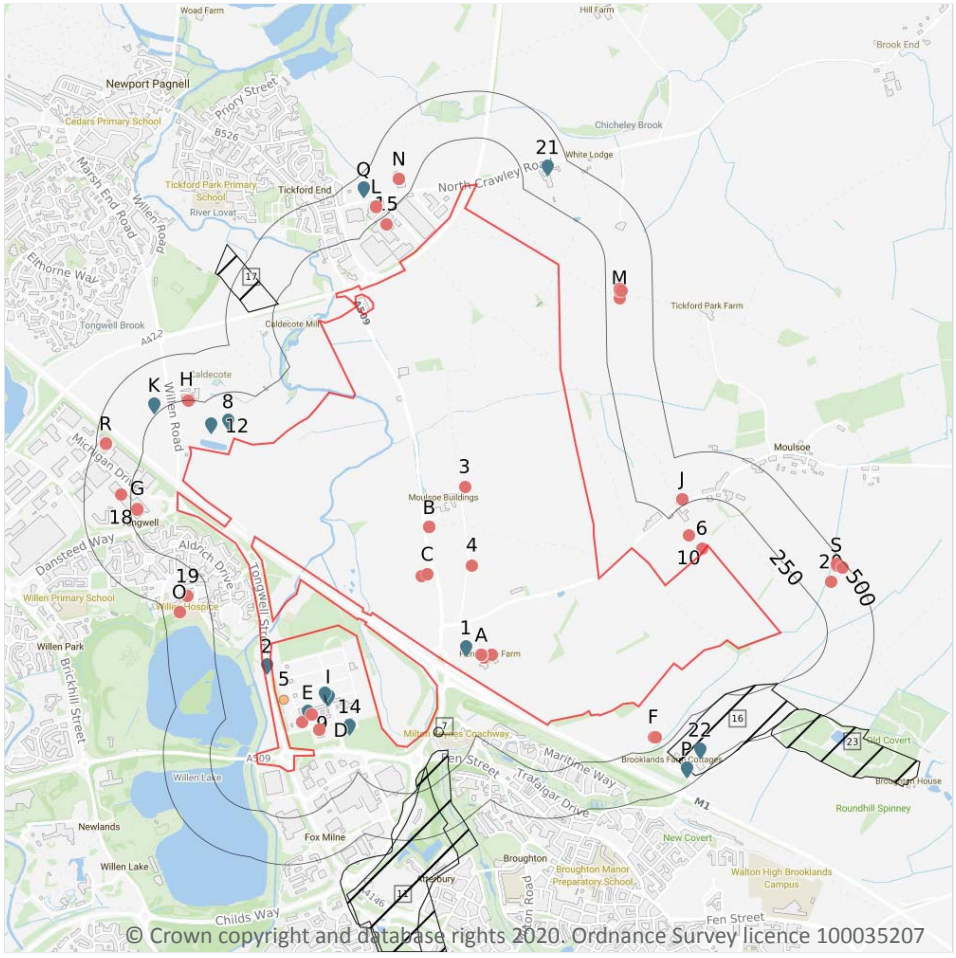
2.5 Historical garages

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



3.1 Active or recent landfill

Records within 500m	0

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

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	6

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.

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Details		
7	32m SE	Site Address: Broughton Barn, Broughton Grounds Lane, Milton Keynes Licence Holder Address: 98 High Street, Newport Pagnell, Buckinghamshire	Waste Licence: Yes Site Reference: WDA/162, 0400/5412 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: GFX Hartigan Limited First Recorded - Last Recorded: -
11	116m SE	Site Address: Middleton North East Landfill, Broughton, Milton Keynes Licence Holder Address: Saxon Courtt, 502 Avebury Boulevard, Central Milton Keynes	Waste Licence: Yes Site Reference: WD/1135/5, WDA/368 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 20/01/1992 Licence Surrender: 13/04/1993	Operator: Commission for New Towns Licence Holder: Commission For New Towns First Recorded 01/02/1992 Last Recorded: 14/01/1993
13	147m SE	Site Address: Broughton Quarry, Broughton, Milton Keynes, Buckinghamshire Licence Holder Address: 98 High Street, Newport Pagnell, Buckinghamshire	Waste Licence: Yes Site Reference: WDA/146, WD/1019/1 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 17/11/1978 Licence Surrender: 30/04/1994	Operator: GFX Hartigan Limited Licence Holder: GFX Hartigan Limited First Recorded 01/01/1974 Last Recorded: 31/12/1990

ID	Location	Details		
16	214m S	Site Address: Broughton Barns, Broughton Grounds Lane, Milton Keynes, Buckinghamshire Licence Holder Address: Frome, Marston Bigot, Somerset	Waste Licence: Yes Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: WV1/L/REE001 Licence Issue: 07/06/2000 Licence Surrender: 31/12/2011	Operator: Aggregate Industries U K Ltd Licence Holder: Aggregate Industries U K Ltd First Recorded 13/12/2006 Last Recorded: -
17	236m W	Site Address: Borrow Pit, Caldecote Lane, Newport Pagnell Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Dowsett Eng Construction Limited Licence Holder: - First Recorded - Last Recorded: -
23	413m S	Site Address: Broughton Grounds, Broughton, Milton Keynes Licence Holder Address: Broughton Grounds, Broughton, Newport Pagnell, Buckinghamshire	Waste Licence: Yes Site Reference: WDA/162, 0400/5411, WD/1019/5 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 17/04/1980 Licence Surrender: 24/02/1993	Operator: Amey Roadstone Corporation Limited Licence Holder: J M Farms Limited First Recorded 17/04/1980 Last Recorded: 24/02/1993

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

3.5 Historical waste sites

Records within 500m **2**

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 34**

ID	Location	Address	Further Details	Date
5	9m E	Site Address: Cotton Valley Sewage Works, Portway, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA	Type of Site: Waste Transfer Station Planning application reference: 15/02731/MIN Description: Scheme comprises construction of waste transfer station, ready mix concrete plant and overnight parking of 14 HGVs (resubmission of 14/02589/MIN). The associated works include sewer systems, landscaping, infrastructure, enabling and access roads. Data source: Historic Planning Application Data Type: Point	08/04/2016

ID	Location	Address	Further Details	Date
H	227m N	Site Address: Caldecote Farm, Willen Road, NEWPORT PAGNELL, Buckinghamshire, MK16 0JJ	Type of Site: Recycling Works Planning application reference: 06/01096/MIN Description: Scheme comprises recycling of aggregates. An application (ref: 06/01096/MIN) for detailed planning permission was granted by Milton Keynes B.C. Planning decision obtained 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 **21**

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

Features are displayed on the Waste and landfill map on **page 34**

ID	Location	Details		
1	**On site**	**Site Name: Hermitage Farm Site Address: Hermitage Farm, Newport Road, Moulsoe, Buckinghamshire, MK16 0HR Correspondence Address: -**	**Type of Site: Use of waste in construction 100,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RIC114 EPR reference: EA/EPR/BB3730RC/S002 Operator: Mr Nigel Richards & Mrs Elizabeth Richards Waste Management licence No: 103272 Annual Tonnage: 0**	**Issue Date: 21/12/2011 Effective Date: - Modified:: - Surrendered Date: Mar 24 2014 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered**
2	**On site**	**Site Name: Cotton Valley Waste Transfer Station Site Address: Cotton Valley Waste Transfer Station, Tongwell Street, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -**	**Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MIC108 EPR reference: EA/EPR/CB3300HV/V003 Operator: Mick George Limited Waste Management licence No: 401939 Annual Tonnage: 300000**	**Issue Date: 03/06/2015 Effective Date: - Modified:: 21/03/2018 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified**

ID	Location	Details		
8	93m N	Site Name: Willen Road Quarry (Site 2) Site Address: Willen Road Quarry (Site 2), Willen Road, Newport Pagnell, Milton Keynes, Buckinghamshire, MK16 0JJ Correspondence Address: -	Type of Site: Management of inert or extractive waste at mine Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SMI145 EPR reference: EA/EPR/DB3804TQ/A001 Operator: Smith Construction Group Limited Waste Management licence No: 403124 Annual Tonnage: 0	Issue Date: 08/08/2016 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
12	133m N	Site Name: Willen Road Quarry (site2) Site Address: Willen Road, Newport Pagnell, Buckinghamshire, MK16 0JJ Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SCG001 EPR reference: EA/EPR/EB3807HA/A001 Operator: Smith Construction Group Limited Waste Management licence No: 403829 Annual Tonnage: 399999	Issue Date: 26/07/2017 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
E	137m E	Site Name: Alpheus Environmental - Cotton Valley Sewage Treatment Site Address: Cotton Valley S T W, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ALP002 EPR reference: EA/EPR/TP3590NK/A001 Operator: Alpheus Environmental Ltd Waste Management licence No: 70090 Annual Tonnage: 75000	Issue Date: 17/07/1992 Effective Date: - Modified:: 02/05/1995 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

ID	Location	Details		
14	166m W	Site Name: Cotton Valley W W T W Site Address: Land/ Premises At, Tongwell Street, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Transfer Station taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ANG070 EPR reference: EA/EPR/CP3195EK/A001 Operator: Anglian Water Services Ltd Waste Management licence No: 100065 Annual Tonnage: 0	Issue Date: 29/04/2008 Effective Date: - Modified:: - Surrendered Date: Apr 6 2010 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
I	235m W	Site Name: Cotton Valley Sludge Treatment Centre Site Address: Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Sewage sludge treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AWS777 EPR reference: EA/EPR/KP3092EK/A001 Operator: Anglian Water Services Ltd Waste Management licence No: 101791 Annual Tonnage: 249999	Issue Date: 09/08/2010 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	235m W	Site Name: Cotton Valley Sludge Treatment Centre Site Address: Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Sewage sludge treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AWS777 EPR reference: EA/EPR/KP3092EK/V003 Operator: Anglian Water Services Limited Waste Management licence No: 101791 Annual Tonnage: 249999	Issue Date: 09/08/2010 Effective Date: - Modified:: 15/11/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
I	249m E	Site Name: Cottonvalley C H P Site Address: Cottonvalley Wastewater Treatment Works, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASL005 EPR reference: EA/EPR/RP3331XK/V002 Operator: Anglian Water Services Ltd Waste Management licence No: 400038 Annual Tonnage: 0	Issue Date: 28/03/2013 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	249m E	Site Name: Cottonvalley C H P Site Address: Cottonvalley Wastewater Treatment Works, Pineham, Milton Keynes, Buckinghamshire, MK15 9PA Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ASL005 EPR reference: EA/EPR/RP3331XK/V003 Operator: Anglian Water Services Limited Waste Management licence No: 400038 Annual Tonnage: 0	Issue Date: 28/03/2013 Effective Date: - Modified:: 18/08/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
K	291m NW	Site Name: Willen Road Quarry Site Address: Willen Road Quarry, Willen Road, Newport Pagnell, Buckinghamshire, MK16 0JJ Correspondence Address: -	Type of Site: Use of waste for reclamation etc 50,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SMI143 EPR reference: EA/EPR/DB3304LU/S002 Operator: Smith Construction Group Limited Waste Management licence No: 402703 Annual Tonnage: 0	Issue Date: 23/09/2015 Effective Date: - Modified:: - Surrendered Date: Jul 17 2017 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
K	291m NW	Site Name: Willen Road Quarry Site Address: Willen Road Quarry, Willen Road, Newport Pagnell, Buckinghamshire, MK16 0QE Correspondence Address: -	Type of Site: Treatment of waste to produce soil 75,000 tpy Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SGS001 EPR reference: EA/EPR/CB3434RE/A001 Operator: Specialist Groundwork Services (Construction) Ltd Waste Management licence No: 103420 Annual Tonnage: 174998	Issue Date: 13/01/2012 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
21	388m E	Site Name: North Crawley Road Site Address: North Crawley Rd, Newport Pagnell, Buckinghamshire, MK16 9HG Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HWM064 EPR reference: EA/EPR/LP3093VM/T001 Operator: H W Martin Waste Ltd Waste Management licence No: 75190 Annual Tonnage: 25000	Issue Date: 22/06/2006 Effective Date: 06/10/2010 Modified:: 03/09/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
22	403m SE	Site Name: G F X Hartigan Ltd - Broughton Barn Site Address: Brougton Barn, Broughton Grounds Lane, Milton Keynes Correspondence Address: 98, High Street, Newport Pagnell, Bucks, MK16 8EJ	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GFX002 EPR reference: - Operator: G F X Hartigan Ltd Waste Management licence No: 75011 Annual Tonnage: 80	Issue Date: 07/06/2000 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
P	424m SE	Site Name: G F X Hartigan Ltd - Broughton Barn Site Address: Brougton Barn, Broughton Grounds Lane, Milton Keynes, Buckinghamshire, MK16 0HY Correspondence Address: P O Box 2104, Buckingham, Bucks, MK18 2EZ	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GFX002 EPR reference: - Operator: G F X H Properties Ltd Waste Management licence No: 75011 Annual Tonnage: 80	Issue Date: 07/06/2000 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
P	424m SE	Site Name: Broughton Barn Landfill Site Address: Brougton Barn Quarry, Broughton Grounds Lane, Broughton, Newport Pagnell, Buckinghamshire, MK16 0HY Correspondence Address: Greystones, Huncote Road, Croft, Leicester, Leics, LE9 3GT	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AGG003 EPR reference: - Operator: Aggregate Industries U K Ltd Waste Management licence No: 75011 Annual Tonnage: 80	Issue Date: 07/06/2000 Effective Date: 12/12/2006 Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
P	424m SE	Site Name: Broughton Barns Site Address: Brougton Barns, Broughton Grounds Lane, Milton Keynes, Buckinghamshire, MK16 0HY Correspondence Address: -	Type of Site: Landfill taking other wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AG0001 EPR reference: EA/EPR/RP3292NM/S004 Operator: Aggregate Industries U K Ltd Waste Management licence No: 75011 Annual Tonnage: 880	Issue Date: 07/06/2000 Effective Date: 13/12/2006 Modified:: - Surrendered Date: Dec 31 2011 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
P	424m SE	Site Name: Broughton Barns Site Address: Brougton Barns, Broughton Grounds Lane, Milton Keynes, Buckinghamshire, MK16 0HY Correspondence Address: -	Type of Site: Landfill taking other wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AG0001 EPR reference: EA/EPR/RP3292NM/S004 Operator: Aggregate Industries U K Ltd Waste Management licence No: 75011 Annual Tonnage: 880	Issue Date: 07/06/2000 Effective Date: 13/12/2006 Modified:: - Surrendered Date: Dec 31 2011 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

ID	Location	Details		
Q	428m NW	Site Name: North Crawley Rd Site Address: North Crawley Rd, Newport Pagnell, Bucks, MK16 9HG Correspondence Address: Mill House, East Haddon, Northampton, Northants, NN6 8DU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG002 EPR reference: - Operator: Wrg Group Ltd Waste Management licence No: 75190 Annual Tonnage: 0	Issue Date: 22/06/2006 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
Q	428m NW	Site Name: North Crawley Rd Site Address: Civic Amenty Site, North Crawley Rd, Newport Pagnell, Bucks, MK16 9PS Correspondence Address: 3, Sidings Court, White Rose Way, Doncaster, South Yorks, DN4 5NU	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG002 EPR reference: - Operator: Waste Recycling Group Ltd Waste Management licence No: 75190 Annual Tonnage: 25000	Issue Date: 22/06/2006 Effective Date: - Modified:: 14/09/2006 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
Q	428m NW	Site Name: North Crawley Rd Site Address: Civic Amenty Site, North Crawley Rd, Newport Pagnell, Buckinghamshire, MK16 9HG Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WRG002 EPR reference: TP3096NH/V003 Operator: Waste Recycling Group Ltd Waste Management licence No: 75190 Annual Tonnage: 25000	Issue Date: 22/06/2006 Effective Date: - Modified:: 03/09/2009 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	**110**

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 34**

ID	Location	Site	Reference	Category	Sub-Category	Description
3	On site	-	WEX224533	Storing waste exemption	On a farm	Storage of sludge
4	On site	-	WEX224561	Storing waste exemption	On a farm	Storage of sludge
A	On site	-	WEX205291	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX205291	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	-	WEX205291	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX205291	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX205291	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	On site	-	WEX205291	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	-	WEX205291	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	On site	-	WEX205291	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
A	On site	-	WEX205291	Treating waste exemption	On a Farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	-	WEX205291	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
A	On site	-	WEX205291	Using waste exemption	On a Farm	Use of waste in construction
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044184	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044184	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044184	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044184	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044174	Using waste exemption	On a farm	Use of waste in construction
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044174	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX044174	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX061826	Storing waste exemption	On a farm	Storage of sludge
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX061826	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX061826	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0HR	WEX061883	Using waste exemption	On a farm	Use of waste for a specified purpose

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/XE5444ZU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/XE5444ZU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Treating waste exemption	Agricultural Waste Only	Aerobic composting and associated prior treatment
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
A	On site	Hermitage Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HR	EPR/KF0332TP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
B	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0JA	WEX144885	Using waste exemption	Not on a farm	Use of waste in construction
B	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0JA	WEX014112	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
B	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0JA	WEX014112	Storing waste exemption	On a farm	Storage of waste in a secure place
B	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0JA	WEX014112	Storing waste exemption	On a farm	Storage of sludge
B	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, MK16 0JA	WEX014112	Using waste exemption	On a farm	Use of waste in construction
B	On site	Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA	EPR/CH0518JP/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
B	On site	Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA	EPR/CH0518JP/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
B	On site	Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA	EPR/CH0518JP/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
B	**On site**	**Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA**	**EPR/CH0518JP /A001**	**Using waste exemption**	**Both agricultural and non-agricultural waste**	**Spreading waste on agricultural land to confer benefit**
B	**On site**	**Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA**	**EPR/CH0518JP /A001**	**Using waste exemption**	**Both agricultural and non-agricultural waste**	**Use of waste for a specified purpose**
B	**On site**	**Moulsoe Buildings Farm London Road NEWPORT PAGNELL Buckinghamshire MK16 0JA**	**EPR/CH0518JP /A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
C	**On site**	**-**	**WEX159058**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
C	**On site**	**-**	**WEX224655**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
C	**On site**	**-**	**WEX105539**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
6	14m NW	-	WEX073692	Storing waste exemption	On a farm	Storage of sludge
9	95m E	Cotton Valley WRC Pineham Buckinghamshire MK15 9PA	EPR/VE5885YV /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
10	112m NW	Land at SP9054041550	EPR/BE5946N T/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	113m N	Cotton Valley Waste Transfer Station, Tongwell Street, Pineham, Milton Keynes, MK15 9PA	WEX142967	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	113m N	Cotton Valley Waste Transfer Station, Tongwell Street, Pineham, Milton Keynes, MK15 9PA	WEX181771	Using waste exemption	Not on a farm	Use of waste in construction
E	156m E	PINEHAM, MILTON KEYNES, MK15 9PA	WEX165927	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
E	156m E	PINEHAM, MILTON KEYNES, MK15 9PA	WEX169408	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
E	156m E	PINEHAM MILTON KEYNES MK15 9PA	WEX002109	Using waste exemption	Not on a farm	Use of waste in construction
F	184m SE	-	WEX160325	Storing waste exemption	On a Farm	Storage of sludge
F	188m SE	-	WEX117593	Storing waste exemption	On a farm	Storage of sludge
15	207m NW	Unit 4 Plover Close Interchange Park MK16 9PS	EPR/RE5382VW/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
G	214m W	Michegan Drive, Tongwell, Milton Keynes, Bedfordshire, MK15 8JD	EA/EPR/VP3848YN/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
G	216m W	VERMONT PLACE, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8JD	WEX204517	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	216m W	VERMONT PLACE, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8JD	WEX204517	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	216m W	VERMONT PLACE, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8JD	WEX042168	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	218m W	Michigan Drive, Tongwell, Milton Keynes, MK15 8JD	EA/EPR/VP3951ZM/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
H	248m N	SMITH HOUSE, MAIDSTONE ROAD, KINGSTON, MILTON KEYNES, MK10 0BD	WEX099060	Using waste exemption	Not on a farm	Use of waste in construction
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Treating waste exemption	Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Using waste exemption	Agricultural Waste Only	Spreading waste on agricultural land to confer benefit
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
J	280m NW	Church Farm Newport Road NEWPORT PAGNELL Buckinghamshire MK16 0HW	EPR/FH0575RF/A001	Using waste exemption	Agricultural Waste Only	Use of waste for a specified purpose
18	304m W	MICHIGAN DRIVE TONGWELL MILTON KEYNES BUCKINGHAMSHIRE MK15 8JD	EPR/JF0902WF/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
L	315m NW	4, PLOVER CLOSE, INTERCHANGE PARK, NEWPORT PAGNELL, MK16 9PS	WEX114615	Storing waste exemption	Not on a farm	Storage of waste in a secure place
L	315m NW	4, PLOVER CLOSE, INTERCHANGE PARK, NEWPORT PAGNELL, MK16 9PS	WEX114615	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	315m NW	4, PLOVER CLOSE, INTERCHANGE PARK, NEWPORT PAGNELL, MK16 9PS	WEX075070	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	317m NW	Unit 4 Plover Close Newport Pagnell MK16 9PS	EPR/GE5147TX/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
M	323m E	Land at SP9017042820 MK16 9HG	EPR/KE5251RQ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

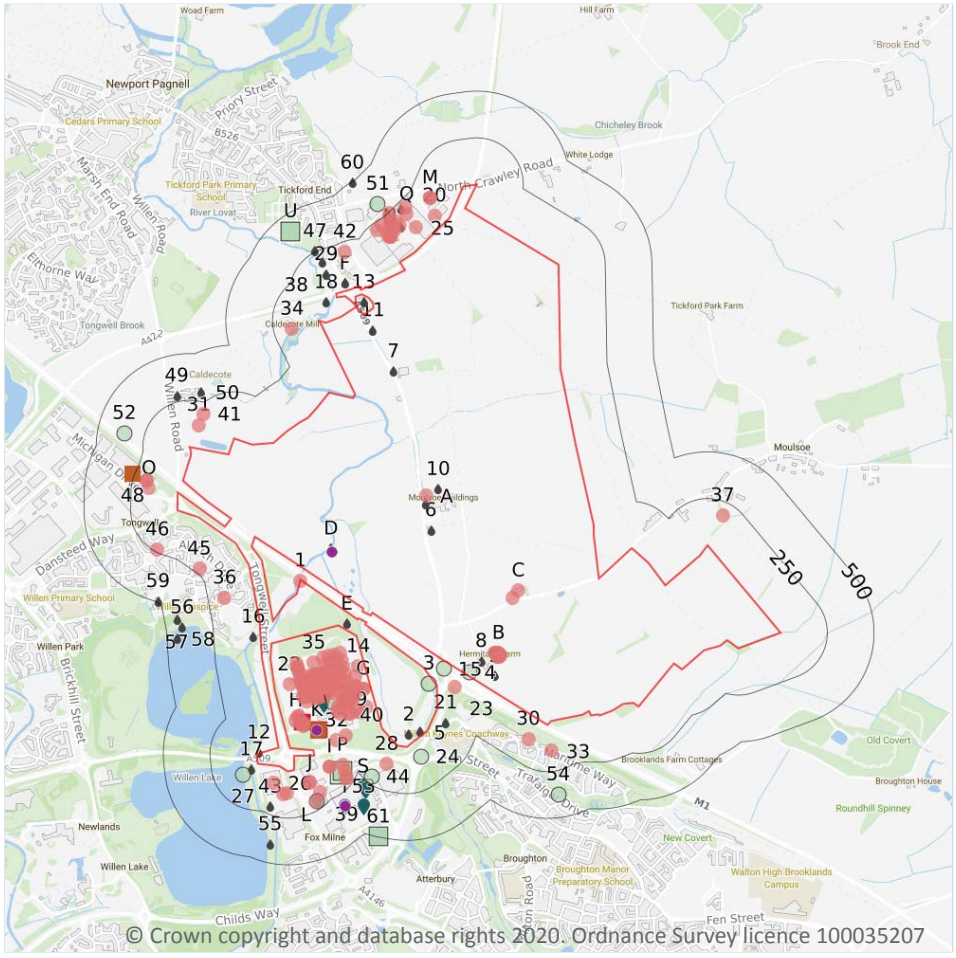
ID	Location	Site	Reference	Category	Sub-Category	Description
M	324m E	-	WEX117568	Storing waste exemption	On a farm	Storage of sludge
M	324m E	-	WEX117569	Storing waste exemption	On a farm	Storage of sludge
M	324m E	-	WEX148815	Storing waste exemption	On a Farm	Storage of sludge
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Crushing and emptying waste vehicle oil filters
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX/A001	Using waste exemption	Both agricultural and non-agricultural waste	Incorporation of ash into soil
N	331m NW	tickford fields north crawley road newport pagnell bucks MK16 9HG	EPR/EF0036FX/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
M	334m E	Land at SP9018042860	EPR/ME5545KG/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
19	355m W	Willen Hospice Milton Road MILTON KEYNES MK15 9AB	EPR/EE5955AJ/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
20	378m NE	-	WEX073018	Storing waste exemption	On a farm	Storage of sludge
O	415m W	MILTON ROAD, WILLEN, MILTON KEYNES, MK15 9AB	WEX168397	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	415m W	MILTON ROAD, WILLEN, MILTON KEYNES, MK15 9AB	WEX168397	Storing waste exemption	Not on a farm	Storage of waste in secure containers
O	415m W	MILTON ROAD WILLEN MILTON KEYNES MK15 9AB	WEX007176	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
R	451m W	ATLANTIC HOUSE 3A, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	WEX165442	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
R	451m W	ATLANTIC HOUSE 3A, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	WEX165442	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
R	451m W	ATLANTIC HOUSE 3A, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	WEX000890	Storing waste exemption	Not on a farm	Storage of waste in secure containers
R	451m W	ATLANTIC HOUSE 3A, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	WEX000890	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
R	451m W	ATLANTIC HOUSE 3A, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	WEX000890	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
R	452m W	Atlantic House 3a Michigan Drive MILTON KEYNES MK15 8HQ	EPR/UH0112YZ/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
R	452m W	Atlantic House 3a Michigan Drive MILTON KEYNES MK15 8HQ	EPR/UH0112YZ/A001	Treating waste exemption	Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
S	458m NE	Land at SP91334139	EPR/KE5049XV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
S	465m NE	-	WEX073691	Storing waste exemption	On a farm	Storage of sludge
S	475m NE	Land at SP 91360 41380	EPR/CE5342CL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
S	475m NE	Land at SP91364138	EPR/ME5144XH/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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

4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- 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	174

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Company	Address	Activity	Category
1	On site	Pumping Station	Buckinghamshire, MK15	Water Pumping Stations	Industrial Features
A	On site	Electricity Sub Station	Buckinghamshire, MK16	Electrical Features	Infrastructure and Facilities
B	On site	Silo	Buckinghamshire, MK16	Hoppers and Silos	Farming

ID	Location	Company	Address	Activity	Category
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
B	**On site**	**Silo**	**Buckinghamshire, MK16**	**Hoppers and Silos**	**Farming**
C	**On site**	**Office Furniture Requirements**	**Unit 1, Newport Road, Moulsoe, Newport Pagnell, Buckinghamshire, MK16 0HS**	**Office and Shop Equipment**	**Industrial Products**
C	**On site**	**Electricity Sub Station**	**Buckinghamshire, MK16**	**Electrical Features**	**Infrastructure and Facilities**
14	34m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
G	40m W	Sewage Pumping	Buckinghamshire, MK15	Waste Storage, Processing and Disposal	Infrastructure and Facilities
G	41m W	Pumping Station	Buckinghamshire, MK15	Water Pumping Stations	Industrial Features
G	52m W	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
19	64m W	Settling Tank	Buckinghamshire, MK15	Waste Storage, Processing and Disposal	Infrastructure and Facilities
20	65m NW	Electricity Sub Station	Buckinghamshire, MK16	Electrical Features	Infrastructure and Facilities
H	68m E	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
G	69m W	Settling Tank	Buckinghamshire, MK15	Waste Storage, Processing and Disposal	Infrastructure and Facilities
G	79m W	Sewage Works	Buckinghamshire, MK15	Waste Storage, Processing and Disposal	Infrastructure and Facilities
22	81m E	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
H	82m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	83m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
23	88m SW	Mast (Telecommunication)	Buckinghamshire, MK10	Telecommunications Features	Infrastructure and Facilities
25	89m NW	Electricity Sub Station	Buckinghamshire, MK16	Electrical Features	Infrastructure and Facilities
H	89m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
26	91m S	Warehouse	Buckinghamshire, MK15	Container and Storage	Transport, Storage and Delivery
H	92m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
H	96m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
H	96m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	100m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
I	101m SE	Tesla Service Centre Milton Keynes	10 Northfield Drive, Northfield, Milton Keynes, Buckinghamshire, MK15 0DQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
I	102m SE	TNT Express	10, Northfield Drive, Northfield, Milton Keynes, Buckinghamshire, MK15 0DQ	Distribution and Haulage	Transport, Storage and Delivery
H	102m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
H	104m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
H	106m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	107m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
J	107m SE	Enterprise Rent-A-Car	9, Northfield Drive, Northfield, Milton Keynes, Buckinghamshire, MK15 0DQ	Vehicle Hire and Rental	Hire Services
J	108m SE	Pennings	9, Northfield Drive, Town Centre, Milton Keynes, Buckinghamshire, MK15 0DQ	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	111m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	111m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	112m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
28	113m SW	Tank	Buckinghamshire, MK10	Tanks (Generic)	Industrial Features
G	113m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	113m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	114m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	117m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	117m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
L	117m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
30	118m SW	Electricity Sub Station	Buckinghamshire, MK10	Electrical Features	Infrastructure and Facilities
G	125m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
31	125m N	Gravel and Sand Workings	Buckinghamshire, MK16	Sand, Gravel and Clay Extraction and Merchants	Extractive Industries
L	126m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	132m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
32	135m NE	Mast	Buckinghamshire, MK15	Telecommunications Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
G	136m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	136m E	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	137m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	138m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
M	138m NW	A C C T I M	Acctim House, Jenna Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QJ	Jewellery, Gems, Clocks and Watches	Consumer Products
G	138m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
M	139m NW	Sturdy Europe	Acctim House, Jenna Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QJ	Vehicle Parts and Accessories	Motoring
G	139m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	140m E	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	140m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	140m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
33	141m S	Clean Cut Drilling	78, Maritime Way, Brooklands, Milton Keynes, Buckinghamshire, MK10 7FS	Cutting, Drilling and Welding Services	Construction Services
G	141m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	142m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	142m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	143m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	143m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	143m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
G	144m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	144m NW	Intelligent Home Energy	Suite 416 Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Construction Completion Services	Construction Services
N	144m NW	Hardware for You Ltd	Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	General Construction Supplies	Industrial Products
N	144m NW	Solarspot	Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	General Construction Supplies	Industrial Products
N	144m NW	James Luxury Services	Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Airlines and Airline Services	Transport, Storage and Delivery
N	144m NW	Bucks Biz Business Centres	Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Business Parks and Industrial Estates	Industrial Features
N	144m NW	Woburn Media	Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Published Goods	Industrial Products
G	145m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	145m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	147m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	147m E	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	148m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	150m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	150m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	150m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	151m NW	Active Data Installations Ltd	Unit 40 Interchange Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Electrical and Electronic Engineers	Engineering Services

ID	Location	Company	Address	Activity	Category
34	152m W	E Drive Ltd	Caldecote Mill, London Road, Newport Pagnell, Buckinghamshire, MK16 0HA	Vehicle Hire and Rental	Hire Services
G	153m W	Chimney	Buckinghamshire, MK15	Chimneys	Industrial Features
G	153m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	155m NW	Milton Keynes Pest Control Ltd	242 Interchange House Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PY	Pest and Vermin Control	Contract Services
O	155m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
N	156m NW	Electricity Sub Stations	Buckinghamshire, MK16	Electrical Features	Infrastructure and Facilities
35	158m S	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
P	159m E	Lancaster B M W & Mini	Northfield Drive, Northfield, Milton Keynes, Buckinghamshire, MK15 0DQ	New Vehicles	Motoring
N	160m NW	D J B Labcare	Unit 12 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
36	161m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
G	164m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	167m NW	Purchase a V	Unit 14 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Electronic Equipment	Industrial Products
G	171m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	172m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	172m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	173m NW	J A Sylvester Mechanical Services Ltd	Unit 16 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Mechanical Engineers	Engineering Services
G	173m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
G	174m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
Q	175m NW	Electricity Sub Stations	Buckinghamshire, MK16	Electrical Features	Infrastructure and Facilities
N	175m NW	Arlec Electrical Co Ltd	Unit 18 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Lampshades and Lighting	Consumer Products
O	179m W	Charles Tyrwhitt Shirts	3d, Michigan Drive, Tongwell, Milton Keynes, Buckinghamshire, MK15 8HQ	Clothing, Components and Accessories	Consumer Products
O	179m W	Millennium Mats	3d, Michigan Drive, Tongwell, Milton Keynes, Buckinghamshire, MK15 8HQ	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
37	179m NE	Mast	Buckinghamshire, MK16	Telecommunications Features	Infrastructure and Facilities
P	182m SE	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
39	183m SE	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
G	184m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
40	188m NE	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
41	189m N	Caldecote Farm Quarry	Buckinghamshire, MK16	Unspecified Quarries Or Mines	Extractive Industries
N	189m NW	P Q S Survey	Unit 4 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Measurement and Inspection Equipment	Industrial Products
N	193m NW	Zumbach Electronics Ltd	Unit 22 Cromwell Business Centre, Howard Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QS	Electrical and Electronic Engineers	Engineering Services
G	196m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	196m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
42	196m NW	Garden 2 Jar	55, Hopton Grove, Newport Pagnell, Buckinghamshire, MK16 0DW	Catering and Non Specific Food Products	Foodstuffs

ID	Location	Company	Address	Activity	Category
G	197m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	197m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	197m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	197m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	198m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	199m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	200m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	202m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	203m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	203m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	203m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	204m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
Q	206m NW	Nampak Plastics	Jenna Way, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9QJ	Rubber, Silicones and Plastics	Industrial Products
G	206m W	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
P	207m SE	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
R	208m SE	Milton Keynes Audi	Milton Keynes Audi, Northfield Drive, Northfield, Milton Keynes, Buckinghamshire, MK15 0DQ	New Vehicles	Motoring
P	210m SE	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
N	211m NW	Sunrider Europe	14, Plover Close, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PS	Distribution and Haulage	Transport, Storage and Delivery
G	215m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	215m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	216m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	216m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	216m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	216m NW	Pfeiffer Vacuum Ltd	16, Plover Close, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PS	Measurement and Inspection Equipment	Industrial Products
G	217m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	217m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	220m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	221m S	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	224m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
45	224m SW	Pest Control M K	19, Bates Close, Willen, Milton Keynes, Buckinghamshire, MK15 9HZ	Pest and Vermin Control	Contract Services
N	226m NW	Legend Brands Europe	22, Plover Close, Interchange Park, Newport Pagnell, Buckinghamshire, MK16 9PS	Air and Water Filtration	Industrial Products
G	234m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
46	236m SW	Electricity Sub Station	Buckinghamshire, MK15	Electrical Features	Infrastructure and Facilities
G	236m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features

ID	Location	Company	Address	Activity	Category
G	236m E	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	236m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	236m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	236m E	Tanks	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	236m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	236m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	237m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	238m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	240m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	240m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	241m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	241m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	243m W	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
G	244m E	Tank	Buckinghamshire, MK15	Tanks (Generic)	Industrial Features
N	245m NW	Electricity Sub Station	Buckinghamshire, MK16	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	0

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.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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.

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	27

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 54**

ID	Location	Details	
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: CP3634EH Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 16/01/2014 Effective Date: 16/01/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED

ID	Location	Details	
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: ASSOCIATED PROCESS Permit Number: JP3839RD Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 27/11/2015 Effective Date: 27/11/2015 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: ASSOCIATED PROCESS Permit Number: CP3634EH Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 16/01/2014 Effective Date: 16/01/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: JP3839RD Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 27/11/2015 Effective Date: 27/11/2015 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: OTHER WASTE DISPOSAL; WASTE OILS >10 T/D Permit Number: PP3434ML Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 19/10/2007 Effective Date: 19/10/2007 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: ASSOCIATED PROCESS Permit Number: VP3632DP Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 14/12/2016 Effective Date: 14/12/2016 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
K	109m N	Operator: ALPHEUS ENVIRONMENTAL LIMITED Installation Name: COTTON VALLEY WASTE TREATMENT CENTRE EPR/PP3434ML Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: VP3632DP Original Permit Number: PP3434ML	EPR Reference: - Issue Date: 14/12/2016 Effective Date: 14/12/2016 Last date noted as effective: 15/05/2020 Status: EFFECTIVE

ID	Location	Details	
G	249m E	Operator: ANGLIAN WATER SERVICES LIMITED Installation Name: COTTONVALLEY CHP Process: COMBUSTION; WASTE DERIVED FUEL =>3MW BUT 50MW Permit Number: RP3331XK Original Permit Number: RP3331XK	EPR Reference: - Issue Date: 04/02/2009 Effective Date: 04/02/2009 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
G	249m E	Operator: ANGLIAN WATER SERVICES LIMITED Installation Name: COTTONVALLEY CHP Process: ASSOCIATED PROCESS Permit Number: AP3034ZW Original Permit Number: RP3331XK	EPR Reference: - Issue Date: 28/03/2013 Effective Date: 28/03/2013 Last date noted as effective: 01/04/2013 Status: EFFECTIVE
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ASSOCIATED PROCESS Permit Number: BN5327IH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 17/03/2006 Effective Date: 17/03/2006 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: BN5327IH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 17/03/2006 Effective Date: 17/03/2006 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: UP3634TR Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 23/06/2010 Effective Date: 23/06/2010 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: CP3437DF Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 07/12/2016 Effective Date: 07/12/2016 Last date noted as effective: 15/05/2020 Status: SUPERCEDED

ID	Location	Details	
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: REFRESCO DRINKS UK LIMITED Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: YP3200BH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 04/12/2019 Effective Date: 01/01/2020 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: CP3437DF Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 07/12/2016 Effective Date: 07/12/2016 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ASSOCIATED PROCESS Permit Number: CP3437DF Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 07/12/2016 Effective Date: 07/12/2016 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: BN5327IH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 17/03/2006 Effective Date: 17/03/2006 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: QP3035VG Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 13/03/2014 Effective Date: 13/03/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ASSOCIATED PROCESS Permit Number: QP3035VG Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 13/03/2014 Effective Date: 13/03/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED

ID	Location	Details	
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: QP3035VG Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 13/03/2014 Effective Date: 13/03/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ASSOCIATED PROCESS Permit Number: UP3634TR Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 23/06/2010 Effective Date: 23/06/2010 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: UP3634TR Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 23/06/2010 Effective Date: 23/06/2010 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: VP3839ER Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 20/01/2014 Effective Date: 20/01/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: ASSOCIATED PROCESS Permit Number: VP3839ER Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 20/01/2014 Effective Date: 20/01/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED
T	319m SE	Operator: COCA COLA ENTERPRISES LTD Installation Name: COCA-COLA - MILTON KEYNES EPR/BN5327IH Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: VP3839ER Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 20/01/2014 Effective Date: 20/01/2014 Last date noted as effective: 15/05/2020 Status: SUPERCEDED

ID	Location	Details	
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: REFRESCO DRINKS UK LIMITED Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: YP3200BH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 04/12/2019 Effective Date: 01/01/2020 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
T	319m SE	Operator: COCA-COLA EUROPEAN PARTNERS GREAT BRITAIN LIMITED Installation Name: REFRESCO DRINKS UK LIMITED Process: ASSOCIATED PROCESS Permit Number: YP3200BH Original Permit Number: BN5327IH	EPR Reference: - Issue Date: 04/12/2019 Effective Date: 01/01/2020 Last date noted as effective: 15/05/2020 Status: EFFECTIVE

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

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

Records within 500m **6**

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 54**

ID	Location	Address	Details	
R	207m SE	Esca Food Solutions Ltd, 1 Northfield Drive, Northfield, MK15 0DA	Process: Meat Processing Facility Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
G	231m E	Alpheus Environmental Ltd, Cottonvalley Waste Treatment Centre, Tongwell Street, Pineham, MK15 9PA	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
S	284m SW	Ball Beverage Packaging UK Ltd (Formerly Rexam Beverage Can Ltd), Northfield Drive, Northfield, MK15 0DA	Process: Surface Cleaning Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
S	297m SW	Coca-cola Enterprises Ltd, 7 Northfield Drive, Northfield, MK15 0DD	Process: Manufacture of Non-Alcoholic Beverages Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
S	297m SW	Rexam Beverage Can Ltd, Northfield Drive, Northfield, MK15 0DA	Process: Surface Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
53	373m SW	Nacanco Northfield Drive, MK15 0DA	Process: Coating Processes Status: Historical Permit 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	**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	**46**

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

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Address	Details	
2	**On site**	**ALFRED MCALPINE PLC, SITE OFFICE, PINEHAM, MILTON KEYNES, BUCKS, MK15 9PA**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY** **Permit Number: PRCNF18109** **Permit Version: 1** **Receiving Water: BROUGHTON BROOK**	**Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)** **Issue date: 05/12/2007** **Effective Date: 31/07/2007** **Revocation Date: -**

ID	Location	Address	Details	
5	On site	NORTHFIELD IND EST	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW1NF1048 Permit Version: 1 Receiving Water: Broughton Brook	Status: SURRENDERED UNDER EPR 2010 Issue date: 13/04/1973 Effective Date: 13/04/1973 Revocation Date: 20/11/2018
6	On site	WYCHELM COTTAGE, LONDON ROAD, MOULSOE, NEWPORT PAGNELL, BUCKS, MK16 0JA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF02678 Permit Version: 1 Receiving Water: Trib River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/05/1990 Effective Date: 14/05/1990 Revocation Date: 23/01/1992
7	On site	27&29 LONDON RD, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF05277 Permit Version: 1 Receiving Water: unnamed tributary River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 23/03/1994 Effective Date: 23/03/1994 Revocation Date: -
8	On site	HERMITAGE FARM, NEWPORT ROAD, MOULSOE, NEWPORT PAGNALL, BUCKS, MK16 0HR	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF03354 Permit Version: 1 Receiving Water: Trib Broughton Brook	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 15/08/1990 Effective Date: 15/08/1990 Revocation Date: 23/01/1992
9	On site	HERMITAGE FARM, MOULSOE, BUCKS.	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG1004 Permit Version: 1 Receiving Water: River Ousel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 24/05/1963 Effective Date: 24/05/1963 Revocation Date: 01/05/1991
10	On site	MOULSOE BUILDINGS FARM	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG0542 Permit Version: 1 Receiving Water: River Lovat or Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: 20/02/1991
11	On site	WEPENER FARM BARNS, 23 LONDON ROAD, NEWPORT PAGNELL, MILTON KEYNES, BUCKS, MK16 0HA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF17993 Permit Version: 1 Receiving Water: DITCH TRIB OF R OUZEL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 17/05/2007 Effective Date: 01/11/2007 Revocation Date: -

ID	Location	Address	Details	
A	On site	COACH HOUSE, MOULSOE BUILDINGS, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF00638 Permit Version: 1 Receiving Water: Trib River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 24/04/1989 Effective Date: 24/04/1989 Revocation Date: 16/01/1992
A	On site	COACH HOUSE, MOULSOE BUILDINGS, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF00638 Permit Version: 2 Receiving Water: Trib River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 17/01/1992 Effective Date: 17/01/1992 Revocation Date: 30/05/1996
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AW1NF1858 Permit Version: 1 Receiving Water: ABBEY LAGOON/R GT OUSE/R OUZEL	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/07/1986 Effective Date: 03/07/1986 Revocation Date: 17/05/1990
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10275 Permit Version: 1 Receiving Water: LAGOONS/R GT OUSE/R OUZEL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 19/05/1990 Effective Date: 18/05/1990 Revocation Date: 15/12/1996
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 1 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 17/12/1996 Effective Date: 16/12/1996 Revocation Date: 31/12/1998
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 1 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 17/12/1996 Effective Date: 16/12/1996 Revocation Date: 31/12/1998

ID	Location	Address	Details	
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 2 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/12/1998 Effective Date: 01/01/1999 Revocation Date: 24/07/2006
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 2 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 24/12/1998 Effective Date: 01/01/1999 Revocation Date: 24/07/2006
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 3 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/07/2006 Effective Date: 25/07/2006 Revocation Date: 08/05/2008
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 3 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/07/2006 Effective Date: 25/07/2006 Revocation Date: 08/05/2008
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 4 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/07/2006 Effective Date: 09/05/2008 Revocation Date: 31/03/2009
D	On site	COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 4 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 25/07/2006 Effective Date: 09/05/2008 Revocation Date: 31/03/2009

ID	Location	Address	Details	
D	**On site**	**COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 5 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL**	**Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 13/07/2015**
D	**On site**	**COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB**	**Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 5 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL**	**Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 14/10/2008 Effective Date: 01/04/2009 Revocation Date: 13/07/2015**
E	**On site**	**COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 6 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL**	**Status: VARIED UNDER EPR 2010 Issue date: 14/07/2015 Effective Date: 14/07/2015 Revocation Date: -**
E	**On site**	**COTTON VALLEY WATER RECYCLING CTR, TONGWELL STREET, FOX MILNE, MILTON KEYNES, BUCKINGHAMSHIRE, MK15 0SB**	**Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: AWCNF10296 Permit Version: 6 Receiving Water: RIVER GREAT OUSE/RIVER OUZEL**	**Status: VARIED UNDER EPR 2010 Issue date: 14/07/2015 Effective Date: 14/07/2015 Revocation Date: -**
12	4m N	PORTWAY H5 (WEST OF V11), WILLEN LAKE, MILTON KEYNES, BUCKS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRCNF00892 Permit Version: 1 Receiving Water: River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 12/05/1989 Effective Date: 12/05/1989 Revocation Date: 14/02/1992
13	33m SW	LONDON RD NOS 19-25, LONDON ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF1632 Permit Version: 1 Receiving Water: Trib River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/01/1985 Effective Date: 28/01/1985 Revocation Date: 06/02/1992

ID	Location	Address	Details	
F	38m N	NEWPORT PAGNELL LONDON ROAD STW, LONDON ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: AW1NF187 Permit Version: 3 Receiving Water: Tributary River Ouzel NT	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/06/1985 Effective Date: 30/06/1985 Revocation Date: -
F	38m N	NEWPORT PAGNELL LONDON ROAD STW, LONDON ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF2974 Permit Version: 1 Receiving Water: River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 02/02/1988 Effective Date: 02/02/1988 Revocation Date: 11/03/1992
16	38m W	WILLEN VILLAGE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW1NF2045 Permit Version: 1 Receiving Water: River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/05/1986 Effective Date: 09/05/1986 Revocation Date: 26/06/1991
17	46m SW	NORTHFIELD IND EST	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW1NF1049 Permit Version: 1 Receiving Water: River Ouzel	Status: SURRENDERED UNDER EPR 2010 Issue date: 13/04/1973 Effective Date: 13/04/1973 Revocation Date: 20/11/2018
18	63m SW	CALDECOTE MILL, LONDON ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF1724 Permit Version: 1 Receiving Water: Trib River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/01/1985 Effective Date: 30/01/1985 Revocation Date: 24/03/1992
21	72m SE	MILTON KEYNES COACHWAY, BROOK FURLONG, MILTON KEYNES, BUCKS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF04286 Permit Version: 1 Receiving Water: Broughton Brook	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 18/04/1991 Effective Date: 18/04/1991 Revocation Date: 19/03/2001
29	116m NW	LONDON ROAD NO.42, NEWPORT PAGNELL, BUCKS.	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF2987 Permit Version: 1 Receiving Water: River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 02/02/1988 Effective Date: 02/02/1988 Revocation Date: 05/03/1992

ID	Location	Address	Details	
N	146m NW	TICKFORD FIELDS FARM, NEWPORT PAGNELL, BUCKS	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG0084 Permit Version: 1 Receiving Water: Chicheley Brook	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 21/03/1963 Effective Date: 21/03/1963 Revocation Date: 20/02/1991
38	181m NW	LONDON ROAD NO.42, NEWPORT PAGNELL, BUCKS.	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF2987 Permit Version: 2 Receiving Water: River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 06/03/1992 Effective Date: 06/03/1992 Revocation Date: -
43	211m SW	TONGWELL STREET, NORTHFIELD IND. ESTATE, FOX MILTON, MILTON KEYNES, BUCKS, MK15 0YS	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PRCNF01518 Permit Version: 1 Receiving Water: River Ouzel	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 16/08/1989 Effective Date: 16/08/1989 Revocation Date: -
Q	217m NW	TICKFORD FIELDS FARM, CRAWLEY ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG0124 Permit Version: 1 Receiving Water: Trib River Ouse	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 22/03/1963 Effective Date: 22/03/1963 Revocation Date: 04/04/1991
47	253m NW	34 LONDON ROAD, NEWPORT PAGNELL, MILTON KEYNES, MK16 0HA	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: EPRQB3198WA Permit Version: 1 Receiving Water: RIVER OUZEL	Status: NEW ISSUED UNDER EPR 2010 Issue date: 29/01/2020 Effective Date: 29/01/2020 Revocation Date: -
49	283m N	CALDECOTE FARM, NEWPORT PAGNELL, BUCKS.	Effluent Type: AGRICULTURE - UNSPECIFIED Permit Number: PR1NFG0821 Permit Version: 1 Receiving Water: River Lovat	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/05/1963 Effective Date: 28/05/1963 Revocation Date: 20/02/1991
50	300m N	CALDECOTE FARM, WILLEN ROAD, CALDECOTE, MILTON KEYNES, BUCKS, MK16 0JJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PRCNF17963 Permit Version: 1 Receiving Water: DITCH TRIB R OUZEL	Status: SURRENDERED UNDER EPR 2010 Issue date: 01/02/2007 Effective Date: 01/07/2007 Revocation Date: 06/02/2013

ID	Location	Address	Details	
55	400m S	NORTHFIELD IND EST	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: AW1NF1050 Permit Version: 1 Receiving Water: River Ouzel	Status: SURRENDERED UNDER EPR 2010 Issue date: 13/04/1973 Effective Date: 13/04/1973 Revocation Date: 20/11/2018
56	413m W	MANOR FARM DEVELOPMENT, WILLEN, MILTON KEYNES.	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR1NF2630 Permit Version: 1 Receiving Water: Willen Lake	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 23/04/1987 Effective Date: 23/04/1987 Revocation Date: 17/02/1992
57	435m W	HOSPICE OF OUR LADY & ST. JOHN, MANOR FARM HOUSE, WILLEN, BUCKS.	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1LFU33 Permit Version: 1 Receiving Water: Land	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/09/1979 Effective Date: 04/09/1979 Revocation Date: 19/02/1992
58	448m W	THE HOSPICE, WILLEN, MILTON KEYNES, BUCKINGHAMSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: PR1NF2085 Permit Version: 1 Receiving Water: Via Willen Lake River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 04/07/1985 Effective Date: 04/07/1985 Revocation Date: 11/02/1992
59	493m SW	SOCIETY OF THE SACRED MISSION PRIOR, WILLEN, NR MILTON KEYNES	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: PR1NF1634 Permit Version: 1 Receiving Water: Trib River Ouzel	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 28/01/1985 Effective Date: 28/01/1985 Revocation Date: 19/02/1992
60	494m NW	WASTE TRANSFER STATION, NORTH CRAWLEY ROAD, NEWPORT PAGNELL, BUCKS	Effluent Type: UNSPECIFIED Permit Number: PRCLF00454 Permit Version: 1 Receiving Water: land	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 08/02/1989 Effective Date: 08/02/1989 Revocation Date: 01/10/1996

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	3

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 54**

ID	Location	Address	Details	
K	111m N	ALPHEUS ENVIRONMENTAL LTD, WASTE MANAGEMENT FACILITY, COTTON VALLEY WASTEWATER TREATMENT WORKS, PINEHAM, MILTON KEYNES, MK15 9PA	Permission reference: BQ2561 Local Authority: MILTON KEYNES COUNCIL First received date: 01/06/2003	Last received date: 01/01/2018 Status: EFFECTIVE
K	111m N	ALPHEUS ENVIRONMENTAL LTD, COTTONVALLEY WASTEWASTER TREATMENT WORKS, PINEHAM, MILTON KEYNES, MILTON KEYNES, MK15 9PA	Permission reference: CD2360 Local Authority: BUCKINGHAMSHIRE COUNTY COUNCIL First received date: 05/01/2009	Last received date: 01/01/2018 Status: RECEIVED
48	262m NW	Bong UK Limited, THE ENVELOPE BUILDING, MICHIGAN DRIVE, TONGWELL, MILTON KEYNES, MK15 8HQ	Permission reference: SCE0117C2 Local Authority: MILTON KEYNES COUNCIL First received date: 01/01/2014	Last received date: 01/01/2018 Status: EFFECTIVE

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

4.16 List 1 Dangerous Substances

Records within 500m	2

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 54**

ID	Location	Name	Status	Receiving Water	Authorised Substances
H	95m E	Chemetall Plc	Active	River Ouse	Mercury (other), Cadmium
K	114m N	Alpheus Environmental Limited (mk)	Active	Na	Mercury (other), Cadmium, Carbon tetrachloride, para-para-DDT, Pentachlorophenol, Aldrin, Dieldrin, Endrin, Hexachlorobenzene, Hexachlorobutadiene, 1,2-dichloroethane, Trichlorobenzene

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

4.17 List 2 Dangerous Substances

Records within 500m	35

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 54**

ID	Location	Name	Status	Receiving Water	Authorised Substances
P	170m SE	Tnt Uk Ltd	Not Active	Na	pH
P	175m SE	Evans Halshaw Of Milton Keynes	Not Active	Na	pH
U	413m NW	British Rail Maintenance Ltd	Not Active	Na	pH
U	413m NW	Dunstable Honda	Not Active	Na	pH
U	413m NW	Spillers Speciality Feeds Ltd	Not Active	Na	pH
U	413m NW	Drakard Manufacturing Ltd	Not Active	Na	pH
U	413m NW	Former Kara Foods	Not Active	Na	pH
U	413m NW	Elettronica (uk) Ltd	Not Active	Na	Boron, Chromium, Copper, Nickel, pH
U	413m NW	Miletree Construction Ltd	Not Active	Na	pH
U	413m NW	Milton Keynes Launderette Ltd	Not Active	Na	pH
U	413m NW	British Telecommunications Plc	Not Active	Na	pH
U	413m NW	Nationwide Crash Repair Centre Ltd	Not Active	Na	pH
U	413m NW	John Lewis	Not Active	Na	pH
U	413m NW	Bg Aengenheister - Netherfield Washeteria	Not Active	Na	pH
U	413m NW	Mr Browning - Stony Stratford Washeteria	Not Active	Na	pH
U	413m NW	Redland Readymix Ltd	Not Active	Na	pH
U	413m NW	Hartigan Readymix	Not Active	Na	pH
U	413m NW	Save Retail Ltd	Not Active	Na	pH
U	413m NW	British Rail London Midland Region	Not Active	Na	pH
U	413m NW	Gilberts Kosher Foods Ltd	Not Active	Na	pH
U	413m NW	Total Oil Direct Operations	Not Active	Na	pH
U	413m NW	Livingwell Health & Leisure Ltd	Not Active	Na	pH

ID	Location	Name	Status	Receiving Water	Authorised Substances
U	413m NW	Tesco Stores Ltd	Not Active	Na	pH
U	413m NW	Aston Martin Lagonda Ltd	Not Active	Na	pH
U	413m NW	Aston Martin Lagonda Ltd	Not Active	Na	Chromium, pH, Zinc
U	413m NW	Polygram Distribution Facility	Not Active	Na	pH
U	413m NW	Abel Drew Printhaus	Not Active	Na	pH
U	413m NW	Mk Powder Coaters	Not Active	Na	pH
U	413m NW	Reedbut Ltd	Not Active	Na	pH
U	413m NW	Bletchley Train Maintenance Depot	Not Active	Na	pH
U	413m NW	Eurodollar Rent A Car	Not Active	Na	pH
U	413m NW	Crownhill	Not Active	Na	pH
U	413m NW	Shell Station	Not Active	Na	pH
U	413m NW	Hays Distribution Services Ltd	Not Active	Na	pH
61	498m S	Matthews Office Furniture Plc	Active	Na	pH

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	**11**

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 54**

ID	Location	Details	
3	**On site**	**Incident Date: 18/02/2003** **Incident Identification: 137646** **Pollutant: Inorganic Chemicals/Products** **Pollutant Description: Alkalis**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
4	**On site**	**Incident Date: 27/11/2001** **Incident Identification: 45319** **Pollutant: Oils and Fuel** **Pollutant Description: Diesel**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**

ID	Location	Details	
15	36m SW	Incident Date: 14/07/2003 Incident Identification: 173617 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
24	87m SE	Incident Date: 05/08/2003 Incident Identification: 179131 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
27	99m SW	Incident Date: 01/06/2017 Incident Identification: 1527930 Pollutant: Other Pollutant Pollutant Description: Microbiological	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
R	208m SE	Incident Date: 06/09/2003 Incident Identification: 188019 Pollutant: Inorganic Chemicals/Products Pollutant Description: Ammonia Solutions	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
44	212m SW	Incident Date: 16/08/2001 Incident Identification: 24531 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	222m W	Incident Date: 22/12/2002 Incident Identification: 127302 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
51	323m NW	Incident Date: 31/05/2003 Incident Identification: 162078 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
52	357m W	Incident Date: 19/05/2003 Incident Identification: 159459 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
54	376m S	Incident Date: 16/11/2002 Incident Identification: 121325 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) 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	29

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 54**

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluorides - as F	2000kg	6290kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chlorides - as Cl	2000000kg	4600000kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	411000kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Simazine	0.01kg	0.02kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	0.0191kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Arsenic	5kg	25.4kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	17000000kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Brominated diphenylethers - penta-, octa- and deca-BDE	0.1kg	Below Reporting Threshold
Controlled Waters	Benzo(a)pyrene	1kg	Below Reporting Threshold
Controlled Waters	Benzo(b)fluoranthene	1kg	Below Reporting Threshold
Controlled Waters	Benzo(k)fluoranthene	1kg	Below Reporting Threshold
Controlled Waters	Octylphenols and octylphenol ethoxylates	1kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold
Air	Carbon tetrachloride (Tetrachloromethane)	10kg	Below Reporting Threshold
Air	Chloroform (Trichloromethane)	100kg	Below Reporting Threshold
Controlled Waters	Chloroform (Trichloromethane)	5kg	Below Reporting Threshold
Controlled Waters	Isoproturon	0.01kg	Below Reporting Threshold
Controlled Waters	Dichloromethane (DCM) (Methylene chloride)	10kg	Below Reporting Threshold
Controlled Waters	Organotin compounds - as Sn	5kg	Below Reporting Threshold
Controlled Waters	Phenols - total as C	20kg	Below Reporting Threshold
Controlled Waters	Chromium	20kg	Below Reporting Threshold
Controlled Waters	Lead	20kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	0.0001kg	Below Reporting Threshold
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as ITEQ	0.0001kg	Below Reporting Threshold
Air	Ammonia	1000kg	Below Reporting Threshold

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(g,h,i)perylene	0.1kg	0.35kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	579000kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Zinc	100kg	502kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Toluene	10kg	34.1kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluoranthene	0.1kg	0.22kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	2990kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Naphthalene	1kg	29.5kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Indeno(1,2,3-cd)pyrene	1kg	1.26kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nickel	20kg	150kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Anthracene	0.1kg	1.07kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	29.1kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nonylphenols and nonylphenol ethoxylates	1kg	70.9kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Diuron	0.05kg	0.34kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Methane	10000kg	27000kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Asbestos	0.1kg	2.23kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	73400kg

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Di(2-ethylhexyl)phthalate (DEHP)	0.1kg	51.4kg

ID: K, Location: 109m N, Permit: PP3434ML
Operator: Alpheus Environmental Limited
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Cotton Valley Waste Treatment Centre Pineham Buckinghamshire MK15 9PA
Sector Waste Treatment, Sub-sector: Hazardous
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Hexachlorobutadiene	0.1kg	Below Reporting Threshold
Wastewater	Aldrin	0.0005kg	Below Reporting Threshold
Wastewater	Atrazine	0.05kg	Below Reporting Threshold
Wastewater	Dichlorodiphenyltrichloroethane (DDT)	0.0005kg	Below Reporting Threshold
Wastewater	Dieldrin	0.0005kg	Below Reporting Threshold
Wastewater	Hexachlorobenzene (HCB)	0.01kg	Below Reporting Threshold
Wastewater	Cadmium	1kg	Below Reporting Threshold
Wastewater	Endosulfan	0.0005kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Endrin	0.0005kg	Below Reporting Threshold
Wastewater	Pentachlorophenol (PCP)	0.05kg	Below Reporting Threshold
Wastewater	Simazine	0.01kg	Below Reporting Threshold
Wastewater	Trifluralin	0.001kg	Below Reporting Threshold
Wastewater	Carbon tetrachloride (Tetrachloromethane)	1kg	Below Reporting Threshold
Wastewater	Trichlorobenzene - all isomers	0.01kg	Below Reporting Threshold
Wastewater	Mercury	0.1kg	Below Reporting Threshold
Wastewater	Organotin compounds - as Sn	5kg	Below Reporting Threshold
Wastewater	Polychlorinated biphenyls (PCBs)	0.001kg	Below Reporting Threshold

ID: K, Location: 109m N, Permit: PP3434ML
Operator: Alpheus Environmental Limited
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Cotton Valley Waste Treatment Centre Pineham Buckinghamshire MK15 9PA
Sector: Waste Treatment, Sub-sector: Hazardous
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Dichlorvos	0.0005kg	0.002kg

ID: T, Location: 320m SE, Permit: BN5327IH
Operator: Coca-Cola European Partners Great Britain Limited
Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY VEGETABLE RAW MATERIALS WITH A FINISHED PRODUCT CAPACITY > 300 T/D (OR 600 T/D FOR OPERATIONS LESS THAN 90 CONSECUTIVE DAYS IN ANY YEAR_
Address: Coca-Cola Northfield Drive Heighington Lane Business Park Milton Keynes MK15 0DD
Sector: Food & Drink, Sub-sector: Food & Drink
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Chromium	20kg	Below Reporting Threshold
Wastewater	Copper	20kg	Below Reporting Threshold
Wastewater	Lead	20kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Mercury	0.1kg	Below Reporting Threshold
Wastewater	Nickel	20kg	Below Reporting Threshold
Wastewater	Zinc	100kg	Below Reporting Threshold
Air	Carbon dioxide	10000000kg	Below Reporting Threshold

ID: T, Location: 320m SE, Permit: BN5327IH
Operator: Coca-Cola European Partners Great Britain Limited
Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY VEGETABLE RAW MATERIALS WITH A FINISHED PRODUCT CAPACITY > 300 T/D (OR 600 T/D FOR OPERATIONS LESS THAN 90 CONSECUTIVE DAYS IN ANY YEAR_
Address: Coca-Cola Northfield Drive Heighington Lane Business Park Milton Keynes MK15 0DD
Sector: Food & Drink, Sub-sector: Food & Drink
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Total organic carbon (TOC)	50000kg	188247kg

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

4.20 Pollution inventory waste transfers

Records within 500m	**3**

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 54**

ID: D, Location: On site, Permit: AWCNF10296
Operator: Anglian Water
Activity: -
Address: Cotton Valley STW -
Sector: Water Industry, Sub-sector: Water Industry
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	451.54	Absolute Value	19 08 01	screenings	No
R10	Land treatment resulting in benefit to agriculture or ecological improvement	22971.39	Absolute Value	19 08 05	sludges from treatment of urban waste water	No

ID: K, Location: 109m N, Permit: PP3434ML
Operator: Alpheus Environmental Limited
Activity: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING PHYSICO-CHEMICAL TREATMENT
Address: Cotton Valley Waste Treatment Centre Pineham Buckinghamshire MK15 9PA
Sector: Waste Treatment, Sub-sector: Hazardous
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D9	Physio-chemical treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numberes D1 to D12 (eg evaporation, drying, calcination, etc.)	77.9	Absolute Value	19 02 05	sludges from physico/chemical treatment 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)	38	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	Yes
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	26.6	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	Yes
R9	Oil e-refining or other reuses of oil	32.44	Absolute Value	19 02 05	sludges from physico/chemical treatment containing dangerous substances	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)	2.2	Absolute Value	19 12 11	other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	Yes
D14	Repackaging prior to submission to any of the operations numbered D1 to D13	0.04	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)	0.27	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	No

ID: T, Location: 320m SE, Permit: BN5327IH
Operator: Coca-Cola European Partners Great Britain Limited
Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY VEGETABLE RAW MATERIALS WITH A FINISHED PRODUCT CAPACITY > 300 T/D (OR 600 T/D FOR OPERATIONS LESS THAN 90 CONSECUTIVE DAYS IN ANY YEAR_
Address: Coca-Cola Northfield Drive Heighington Lane Business Park Milton Keynes MK15 0DD
Sector Food & Drink, Sub-sector: Food & Drink
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R5	Recycling/reclamation of other inorganic materials	308.2	Absolute Value	15 01 01	paper and cardboard packaging	No
R5	Recycling/reclamation of other inorganic materials	182.94	Absolute Value	15 01 02	plastic packaging	No
R5	Recycling/reclamation of other inorganic materials	8.48	Absolute Value	17 04 07	mixed metals	No
R5	Recycling/reclamation of other inorganic materials	145.08	Absolute Value	15 01 03	wooden packaging	No
R4	Recycling/reclamation of metals and metal compounds	156.28	Absolute Value	20 03 01	mixed municipal waste	No

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	7	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
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 30	detergents other than those mentioned in 20 01 29	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.41	Absolute Value	16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	0.205	Absolute Value	20 01 40	metals	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)	0.05	Absolute Value	20 01 02	glass	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)	0.205	Absolute Value	15 02 03	absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02	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)	0.205	Absolute Value	16 01 20	glass	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)	0.2	Absolute Value	16 01 21	hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14	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)	0.245	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)	0.015	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)	3.06	Absolute Value	08 03 12	waste ink 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)	0.5	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)	0.01	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)	0.01	Absolute Value	07 06 04	other organic solvents, washing liquids and mother liquors	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	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	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)	0.1	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
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 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)	0.025	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)	0.021	Absolute Value	16 03 05	organic wastes containing dangerous substances	Yes

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

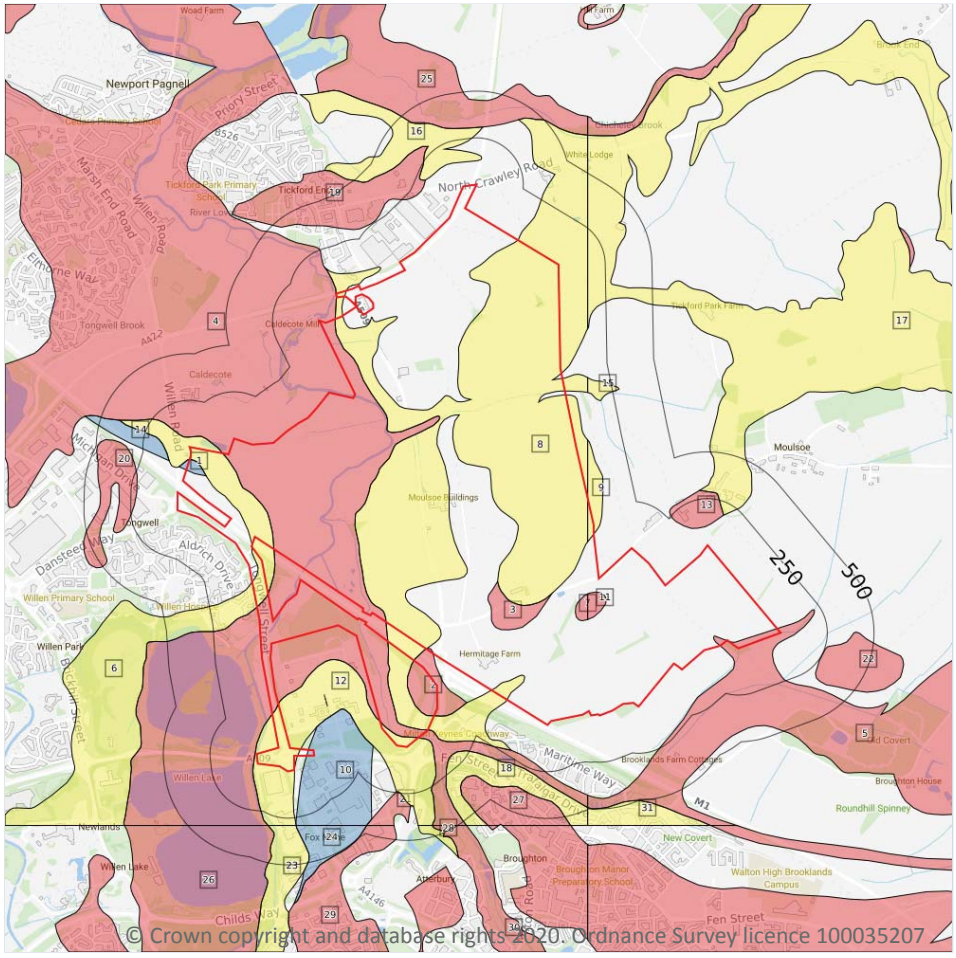
4.21 Pollution inventory radioactive waste

Records within 500m	0

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



5.1 Superficial aquifer

Records within 500m	31

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 99**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	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

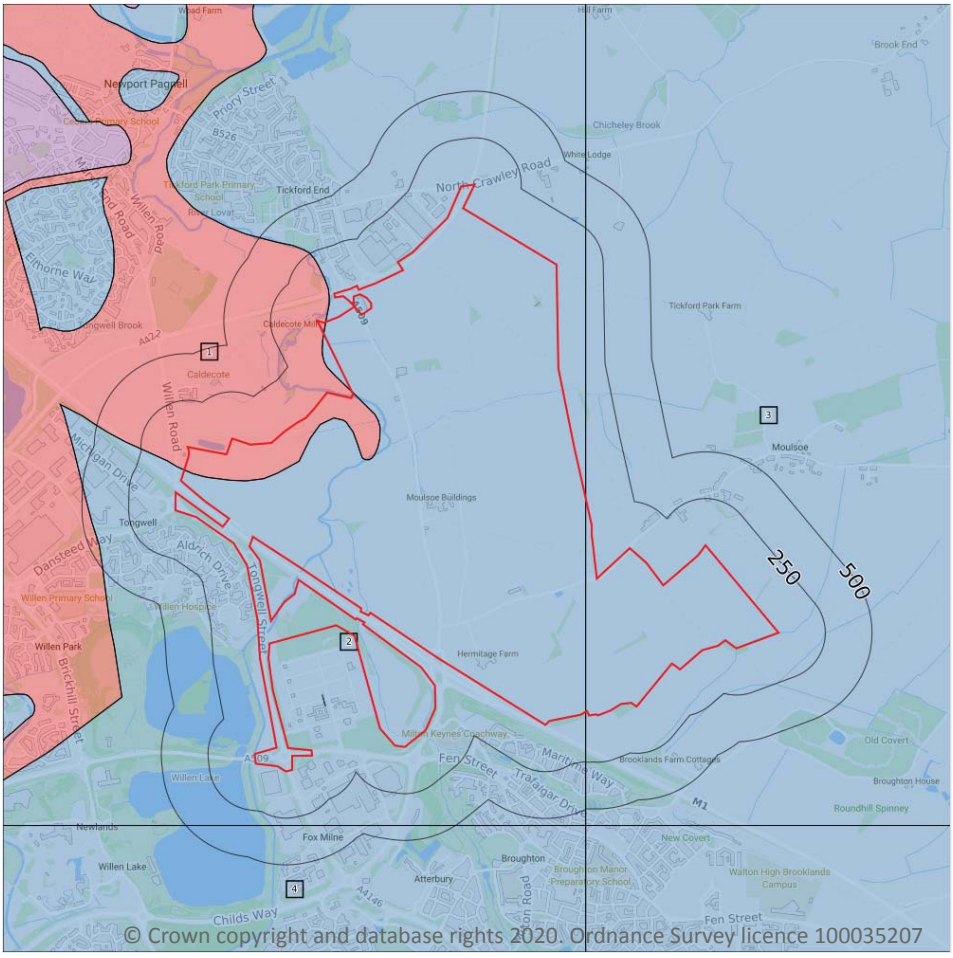
ID	Location	Designation	Description
3	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
4	**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**
5	**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**
6	**On site**	**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**
7	**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**
8	**On site**	**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**
9	**On site**	**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**
10	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
11	**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**
12	**On site**	**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**
13	100m N	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
14	102m W	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
15	118m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
16	127m 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

ID	Location	Designation	Description
17	150m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
18	186m 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
19	194m NW	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
20	219m W	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
21	243m S	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
22	253m SE	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
23	289m S	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
24	293m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
25	304m N	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
26	308m S	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
27	326m SE	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
28	424m S	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
29	426m S	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
30	442m S	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

ID	Location	Designation	Description
31	481m S	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



5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

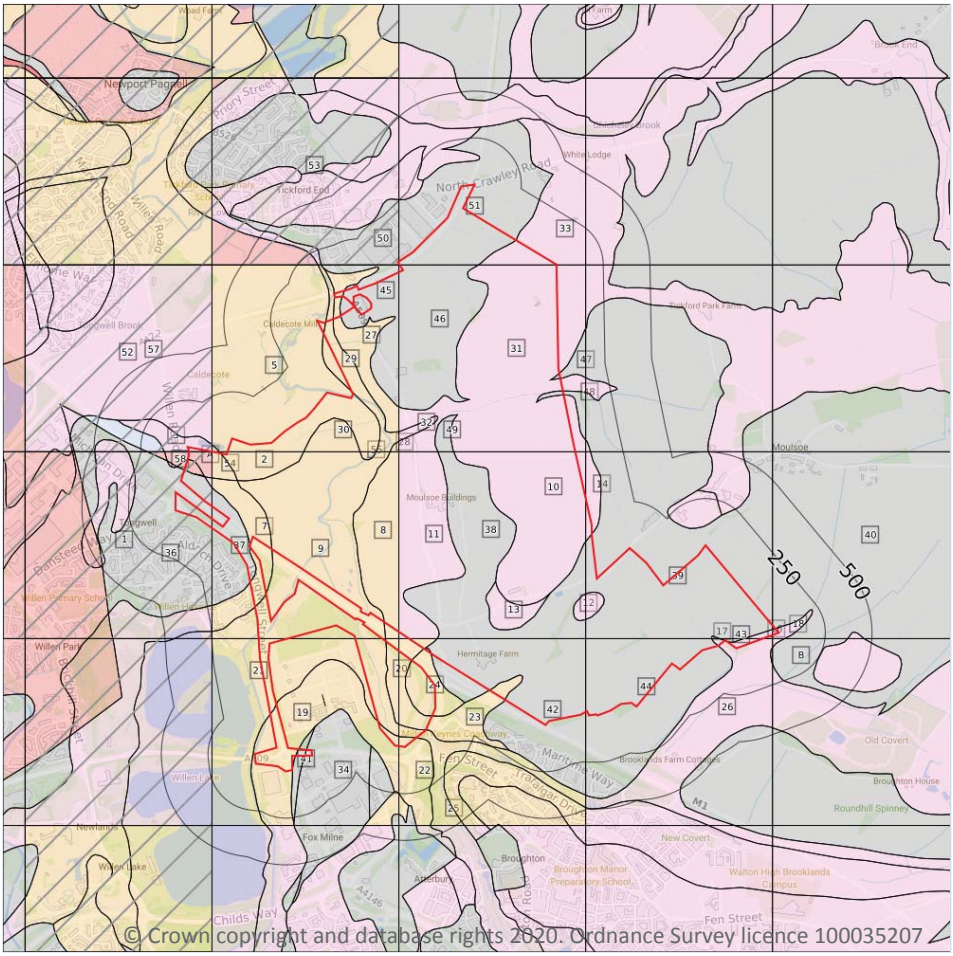
Features are displayed on the Bedrock aquifer map on **page 103**

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	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
4	289m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	58

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 105**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
13	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
14	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
16	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
17	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
18	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
19	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
20	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
21	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
22	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
23	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
24	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
25	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
26	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
27	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
28	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
29	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
30	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
31	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
32	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
33	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
34	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
35	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
36	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
37	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
38	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
39	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
40	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
41	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
42	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
43	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
44	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
45	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
46	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
47	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
48	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
49	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
50	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
51	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
54	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
55	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
A	**On site**	**Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: <3m Patchiness value: <90% Recharge potential: No Data**	**Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures**
56	18m S	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
57	35m N	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
58	42m W	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures
B	42m SE	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Intermediate Infiltration value: 40-70% Dilution value: <300mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Well connected fractures

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	3

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
1	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**0.0%**
52	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**0.0%**
53	**Significant soluble rocks are likely to be present. Low possibility of localised subsidence or dissolution-related degradation of bedrock occurring naturally, but may be possible in adverse conditions such as high surface or subsurface water flow.**	**1.0%**

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

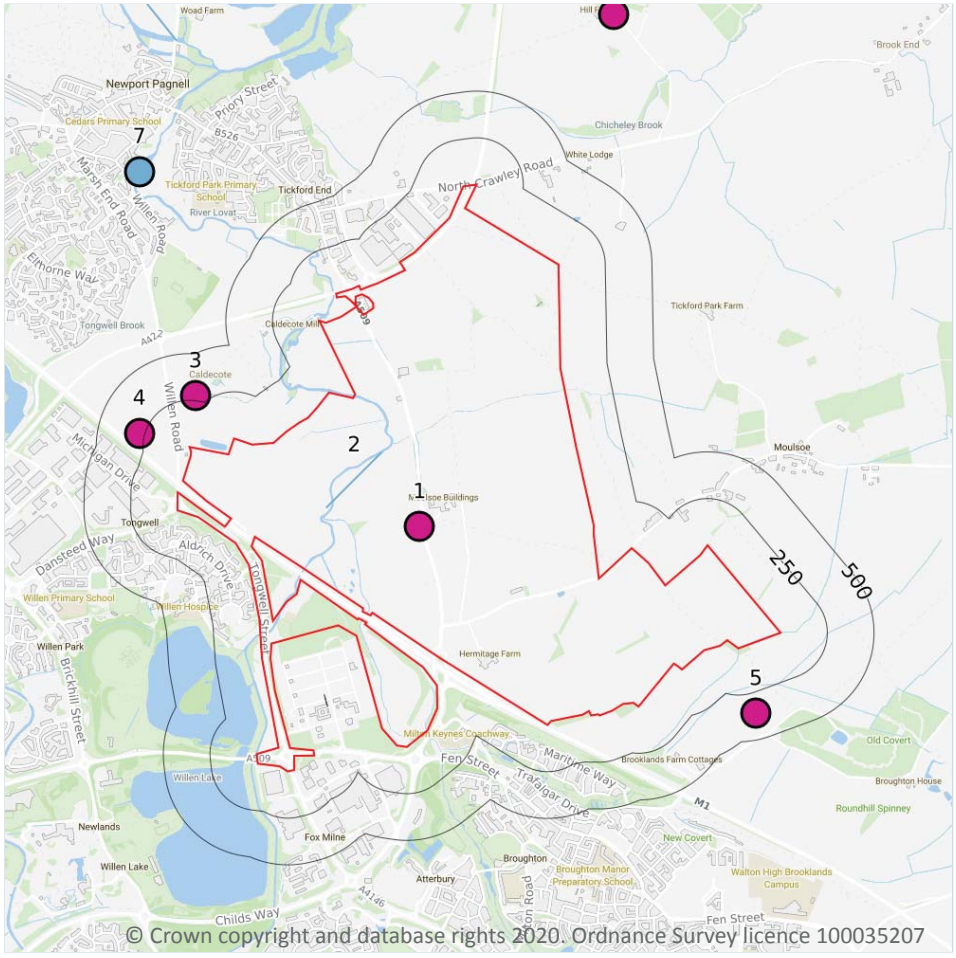
5.5 Groundwater vulnerability- local information

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
- 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	8

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 117**

ID	Location	Details	
1	**On site**	**Status: Historical** **Licence No: 6/33/10/*G/0002** **Details: General Farming & Domestic** **Direct Source: GROUND WATER SOURCE OF SUPPLY** **Point: WELL MOULSOE BUILDINGS** **Data Type: Point** **Name: COLLINS** **Easting: 489100** **Northing: 241600**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: -** **Original Start Date: 01/12/1967** **Expiry Date: -** **Issue No: 100** **Version Start Date: 06/12/1967** **Version End Date: -**
3	276m N	Status: Historical Licence No: 6/33/10/*G/0007 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT CALDECOTE FARM Data Type: Point Name: MORGAN Easting: 487900 Northing: 242300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/08/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/08/1966 Version End Date: -
4	279m W	Status: Historical Licence No: 6/33/10/*G/0010 Details: Mineral Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: GRAVEL PIT AT NEWPORT PAGNELL Data Type: Point Name: SPECIALIST GROUNDWORK SERVICES CONSTRUCTION LTD Easting: 487600 Northing: 242100	Annual Volume (m^3): 291600 Max Daily Volume (m^3): 1944 Original Application No: - Original Start Date: 19/05/2006 Expiry Date: 31/03/2016 Issue No: 2 Version Start Date: 27/11/2006 Version End Date: -
5	360m S	Status: Historical Licence No: 6/33/09/*G/0022 Details: Mineral Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: GRAVEL PIT AT BROUGHTON BARNS Data Type: Point Name: G F X HARTIGAN LTD Easting: 490900 Northing: 240600	Annual Volume (m^3): 91000 Max Daily Volume (m^3): 363.6 Original Application No: - Original Start Date: 01/03/1998 Expiry Date: 31/12/2007 Issue No: 100 Version Start Date: 01/03/1998 Version End Date: -
6	1169m NE	Status: Historical Licence No: 6/33/11/*G/0114 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT CHICHELEY Data Type: Point Name: FOUNTAINE Easting: 490140 Northing: 244340	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/04/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1967 Version End Date: -

ID	Location	Details	
-	1399m SE	Status: Historical Licence No: 6/33/09/*G/0023 Details: General Washing/Process Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT WHITGUNDOLES FM Data Type: Point Name: G F X HARTIGAN LTD Easting: 492050 Northing: 240070	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 26/04/1999 Expiry Date: 31/12/2010 Issue No: 100 Version Start Date: 26/04/1999 Version End Date: -
-	1399m SE	Status: Historical Licence No: 6/33/09/*G/0023 Details: Mineral Washing Direct Source: GROUND WATER SOURCE OF SUPPLY Point: BOREHOLE AT WHITSUNDOLES FM Data Type: Point Name: HALL BROTHERS LTD Easting: 492050 Northing: 240070	Annual Volume (m^3): 24000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 26/04/1999 Expiry Date: 31/12/2010 Issue No: 101 Version Start Date: 26/03/2008 Version End Date: -
-	1832m NE	Status: Historical Licence No: 6/33/11/*G/0122 Details: General Farming & Domestic Direct Source: GROUND WATER SOURCE OF SUPPLY Point: WELL AT CHICHELEY Data Type: Point Name: FONTAINE Easting: 490500 Northing: 244900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/04/1967 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1967 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**3**

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 117**

ID	Location	Details	
2	**On site**	**Status: Historical** **Licence No: 6/33/10/*S/0009** **Details: Spray Irrigation - Direct** **Direct Source: SURFACE WATER SOURCE OF SUPPLY** **Point: RIVER OUZEL AT MOULSOE** **Data Type: Line** **Name: CARINGTON** **Easting: 488600** **Northing: 241700**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: -** **Original Start Date: 01/12/1992** **Expiry Date: 30/06/2002** **Issue No: 100** **Version Start Date: 01/12/1992** **Version End Date: -**
7	1240m NW	Status: Historical Licence No: 6/33/10/*S/0008 Details: General use relating to Secondary Category (Medium Loss) Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER OUZEL AT NEWPORT PAGNELL Data Type: Point Name: COWLEY Easting: 487600 Northing: 243500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/06/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/06/1973 Version End Date: -
8	1600m NW	Status: Active Licence No: 6/33/05/*S/0049 Details: Spray Irrigation - Direct Direct Source: SURFACE WATER SOURCE OF SUPPLY Point: RIVER OUSE-NEWPORT PAGNELL Data Type: Line Name: Shires Farms Easting: 487400 Northing: 244700	Annual Volume (m^3): 22,700 Max Daily Volume (m^3): 1,136.50 Original Application No: - Original Start Date: 01/04/1983 Expiry Date: - Issue No: 101 Version Start Date: 15/03/2016 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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.

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

5.9 Source Protection Zones

Records within 500m	0

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

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

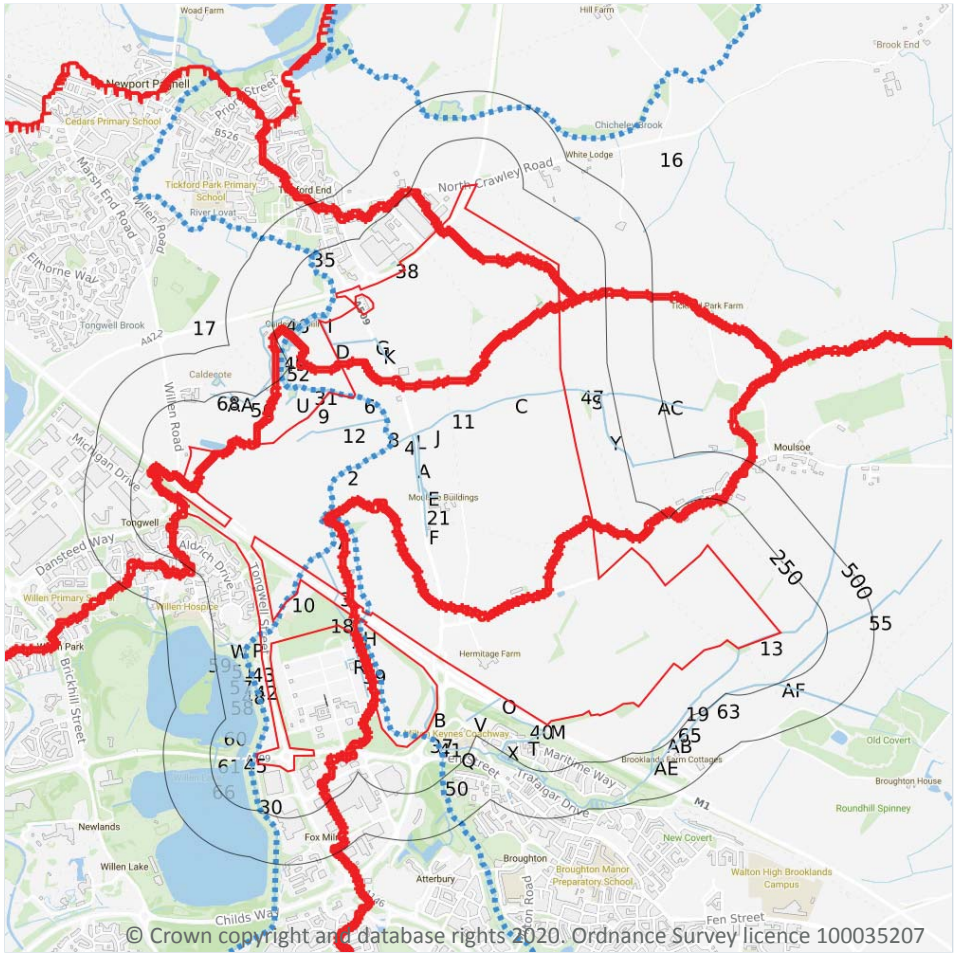
5.10 Source Protection Zones (confined aquifer)

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



6.1 Water Network (OS MasterMap)

Records within 250m	114

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 122**

ID	Location	Type of water feature	Ground level	Permanence	Name
2	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**River Ouzel**

ID	Location	Type of water feature	Ground level	Permanence	Name
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
11	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
12	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
A	On site	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
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Junction

ID	Location	Type of water feature	Ground level	Permanence	Name
I	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
I	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
J	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
K	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
L	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
M	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
M	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
30	2m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
31	9m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
O	10m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	14m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
35	15m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
O	19m SW	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
37	20m SE	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	Broughton Junction
38	23m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
39	24m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	25m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
I	31m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
I	31m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
I	35m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
M	35m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	35m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
40	39m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	40m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
41	41m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Junction
R	42m W	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
M	47m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	51m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	54m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
42	63m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
43	63m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
45	68m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
I	69m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
46	70m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	70m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
47	70m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	72m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
I	72m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
I	73m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel

ID	Location	Type of water feature	Ground level	Permanence	Name
S	74m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	83m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
P	83m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
P	84m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	85m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
R	92m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
48	94m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
I	108m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
I	108m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
T	113m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse may not contain water all year round	-
49	116m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
U	120m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
50	123m SE	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
Q	123m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Broughton Junction
V	143m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
51	148m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
I	149m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
I	149m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
T	150m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse may not contain water all year round	-
U	156m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Ouzel
W	160m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
X	164m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse may not contain water all year round	-
I	170m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
I	170m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
Y	176m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	180m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat

ID	Location	Type of water feature	Ground level	Permanence	Name
52	183m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Lovat
S	185m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	186m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	187m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	188m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
55	196m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
56	200m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
57	201m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
58	201m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
59	205m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
60	211m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
61	211m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Willen Lake
63	214m S	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
AA	215m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	219m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AA	221m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AC	222m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
65	223m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AE	236m S	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
66	240m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Willen Lake
AF	248m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
68	249m NW	Lake, loch or reservoir.	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	**29**

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 122**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	4

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 122**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
16	**On site**	**River WB catchment**	**Chicheley Brook**	**GB105033038040**	**Bedford Great Ouse**	**Upper and Bedford Ouse**
17	**On site**	**River WB catchment**	**Ouzel DS Caldecote Mill**	**GB105033037972**	**Ouzel and Milton Keynes**	**Upper and Bedford Ouse**
18	**On site**	**River WB catchment**	**Ouzel US Caldecote Mill**	**GB105033037971**	**Ouzel and Milton Keynes**	**Upper and Bedford Ouse**
19	**On site**	**River WB catchment**	**Broughton Brook**	**GB105033037930**	**Ouzel and Milton Keynes**	**Upper and Bedford Ouse**

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

6.4 WFD Surface water bodies

Records identified	4

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 122**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
14	**On site**	**River**	**Broughton Brook**	**GB105033037930**	**Poor**	**Good**	**Poor**	**2016**
15	**On site**	**River**	**Ouzel US Caldecote Mill**	**GB105033037971**	**Moderate**	**Good**	**Moderate**	**2016**
34	15m W	River	Ouzel DS Caldecote Mill	GB105033037972	Moderate	Good	Moderate	2016

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
79	352m N	River	Chicheley Brook	GB105033038040	Poor	Good	Poor	2016

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

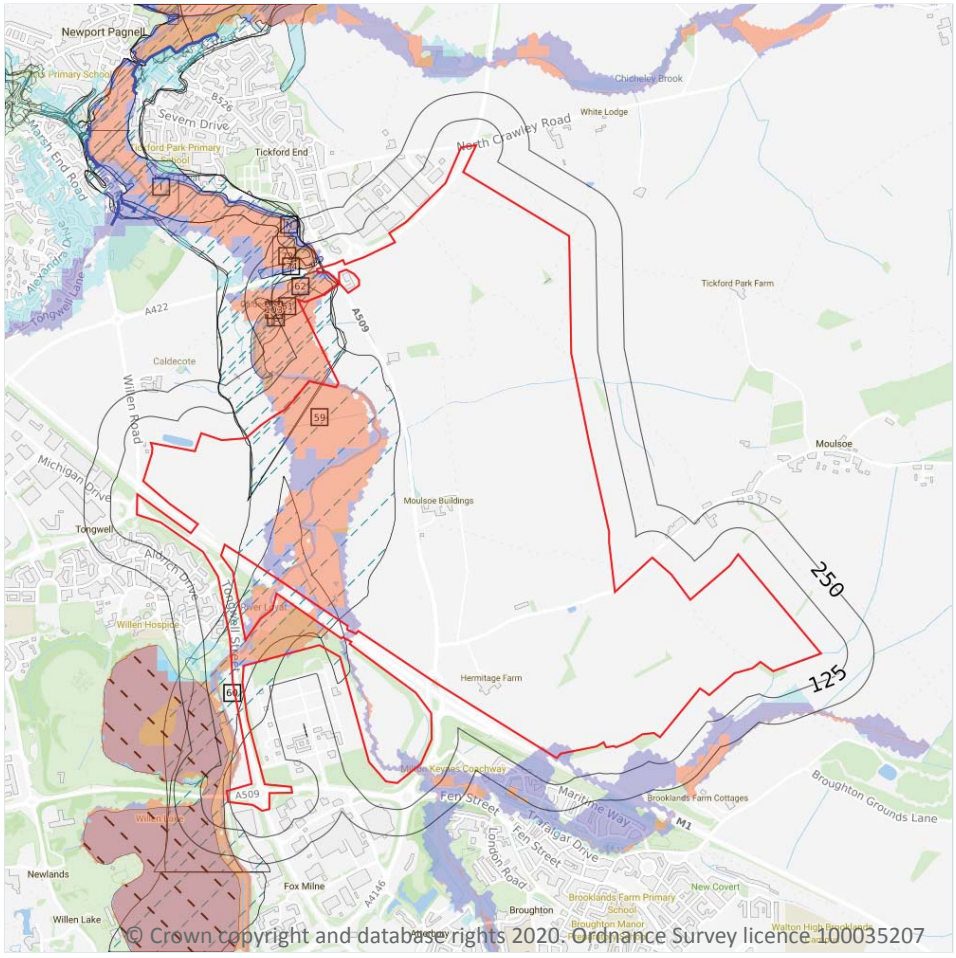
6.5 WFD Groundwater bodies

Records on site	0

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.

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

Environment Agency river and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	**103**

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).

Features are displayed on the River and coastal flooding map on **page 134**

Distance	RoFRaS flood risk
On site	**High**
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	**12**

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.

Features are displayed on the River and coastal flooding map on **page 134**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
59	**On site**	**March 1947**	**1947-01-01 1947-12-31**	**Unknown**	**Unknown**	**Fluvial**
60	**On site**	**March 1947**	**1947-01-01 1947-12-31**	**Unknown**	**Unknown**	**Fluvial**
61	**On site**	**Easter 1998**	**1998-01-01 1998-12-31**	**Unknown**	**Unknown**	**Fluvial**
62	**On site**	**September 1992**	**1992-01-01 1992-12-31**	**Unknown**	**Unknown**	**Fluvial**
G	**On site**	**March 1947**	**1947-01-01 1947-12-31**	**Unknown**	**Unknown**	**Fluvial**
G	**On site**	**March 1947**	**1947-01-01 1947-12-31**	**Unknown**	**Unknown**	**Fluvial**
72	17m N	September 1992	1992-01-01 1992-12-31	Unknown	Unknown	Fluvial
I	19m NW	Easter 1998	1998-01-01 1998-12-31	Unknown	Unknown	Fluvial
I	19m NW	Easter 1998	1998-01-01 1998-12-31	Unknown	Unknown	Fluvial
74	19m NW	September 1992	1992-01-01 1992-12-31	Unknown	Unknown	Fluvial
103	94m SW	September 1992	1992-01-01 1992-12-31	Unknown	Unknown	Fluvial
N	189m NW	September 1992	1992-01-01 1992-12-31	Unknown	Unknown	Fluvial

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	1

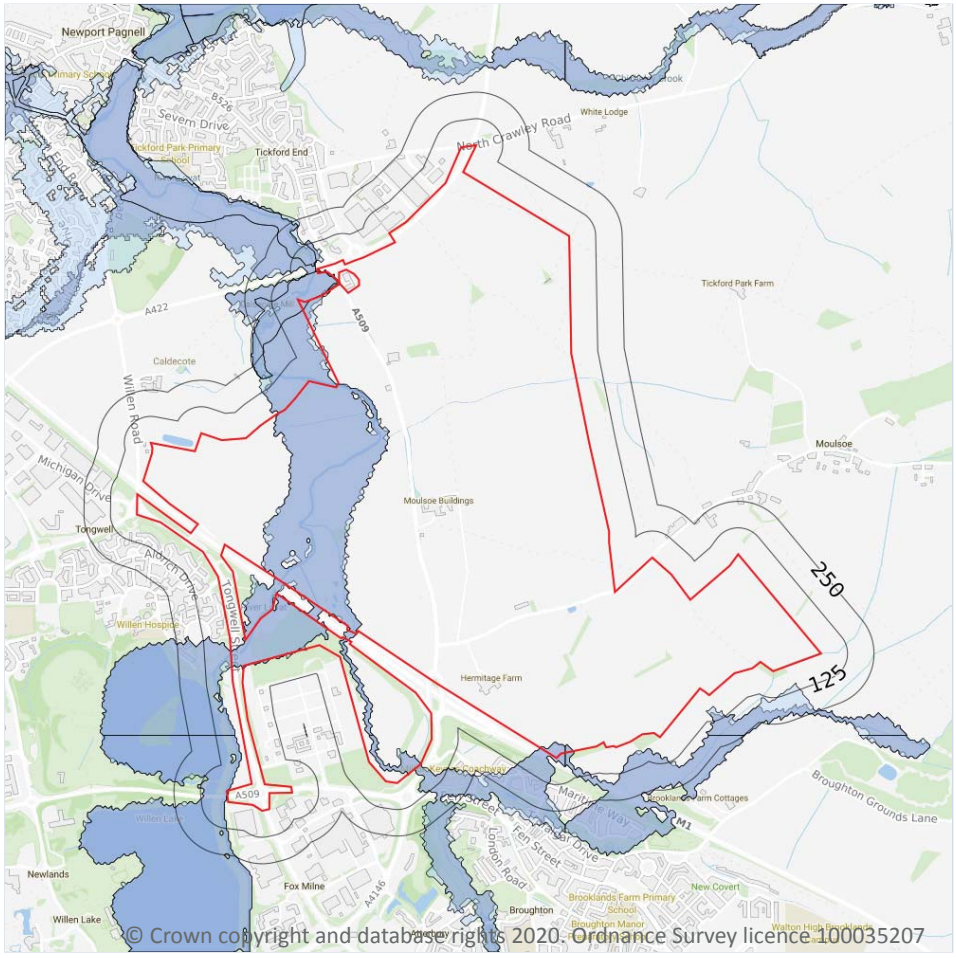
Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

Features are displayed on the River and coastal flooding map on **page 134**

ID	Location	Update
J	48m W	Flood Storage Area

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 134**

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

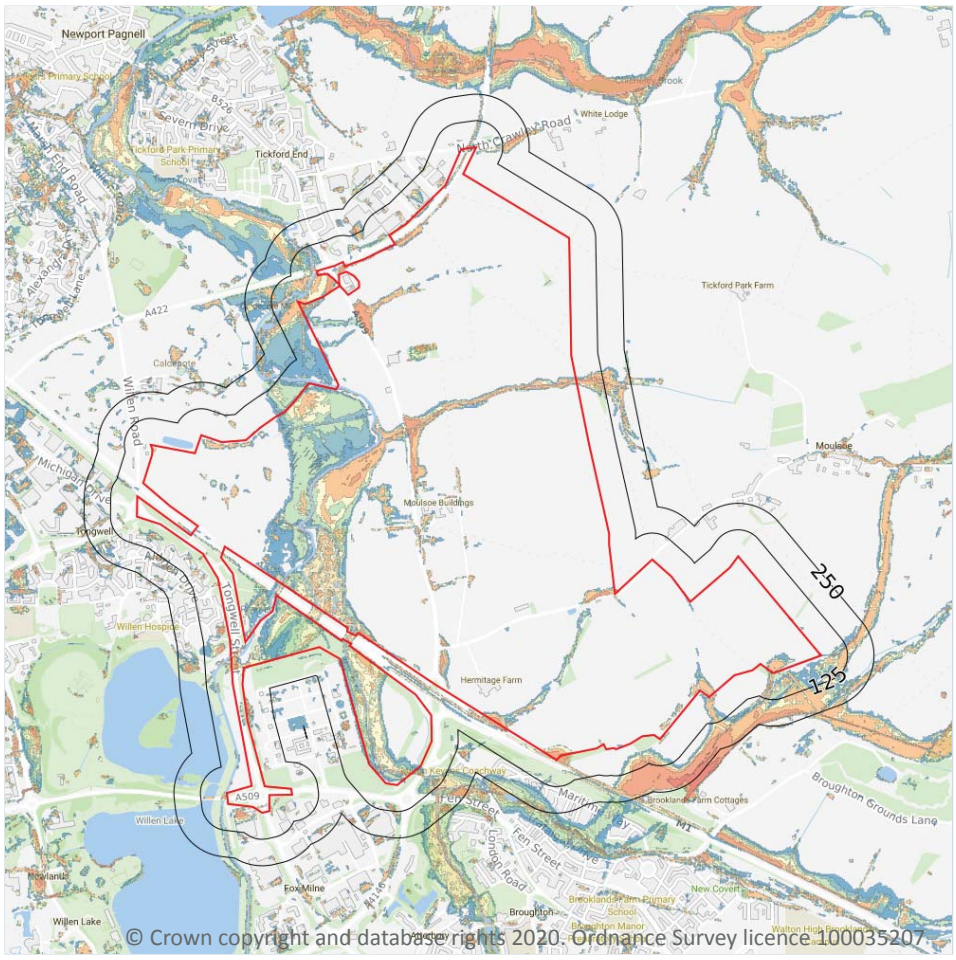
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 134**

Location	Type
On site	**Zone 3 - (Fluvial Models)**

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
Highest risk within 50m	**1 in 30 year, Greater than 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 139**

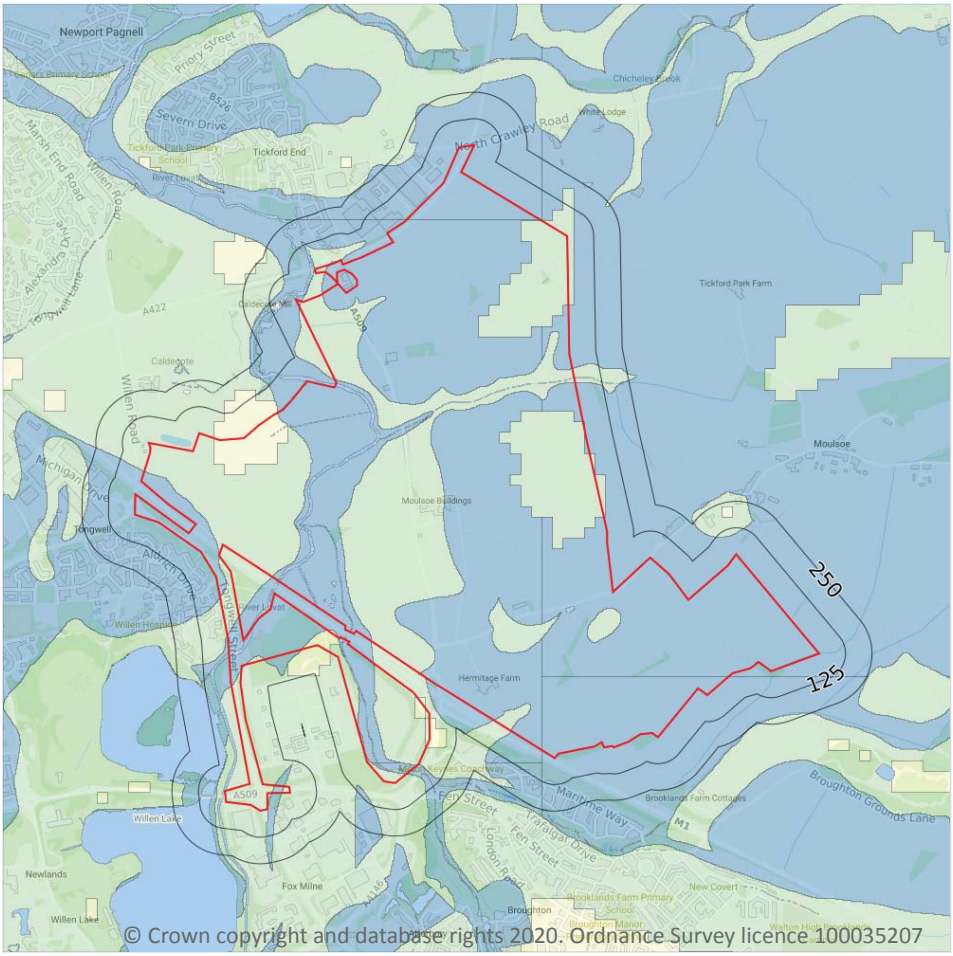
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

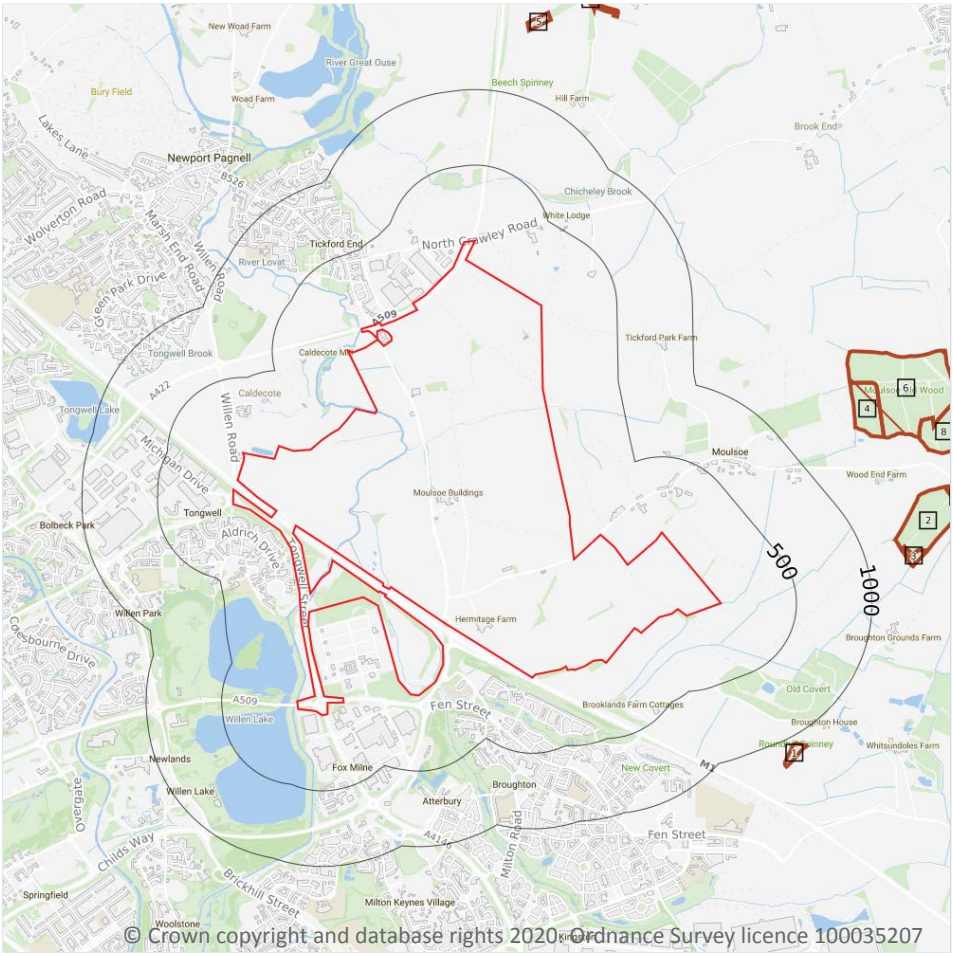
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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 141**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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	0

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.

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

10.7 Designated Ancient Woodland

Records within 2000m	11

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.

Features are displayed on the Environmental designations map on **page 142**

ID	Location	Name	Woodland Type
1	1052m SE	Roundhill Spinney	Ancient & Semi-Natural Woodland
2	1232m E	Lower Wood	Ancient Replanted Woodland
3	1247m E	Lower Wood	Ancient & Semi-Natural Woodland
4	1428m NE	Moulsoe Old Wood	Ancient & Semi-Natural Woodland
5	1435m N	Mouthslade Spinney	Ancient & Semi-Natural Woodland
6	1533m NE	Moulsoe Old Wood	Ancient Replanted Woodland
7	1672m NE	Lower Wood	Ancient & Semi-Natural Woodland
8	1705m NE	Moulsoe Old Wood	Ancient & Semi-Natural Woodland
9	1719m NE	Newfield Spinney	Ancient & Semi-Natural Woodland
-	1725m E	Unknown	Ancient & Semi-Natural Woodland
-	1836m N	Longclose Spinney	Ancient & Semi-Natural Woodland

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	0

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

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	2

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	**Great Ouse NVZ**	**Surface Water**	**S391**	**Existing**

Location	Name	Type	NVZ ID	Status
665m NW	Bedford Great Oolite	Groundwater	G74	Existing

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

SSSI Impact Zones and Units

Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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.

Features are displayed on the SSSI Impact Zones and Units map on **page 148**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

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	2

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.

Features are displayed on the Visual and cultural designations map on **page 150**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Moulsoe Buildings Farmhouse, Moulsoe, Milton Keynes, MK16**	**II**	**1212914**	**16/02/1984**
3	245m N	Church Of St Mary, Moulsoe, Milton Keynes, MK16	I	1212922	17/11/1966

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

11.5 Conservation Areas

Records within 250m	1

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.

Features are displayed on the Visual and cultural designations map on **page 150**

ID	Location	Name	District	Date of designation
2	238m W	Willen	Milton Keynes	08/02/1978

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.

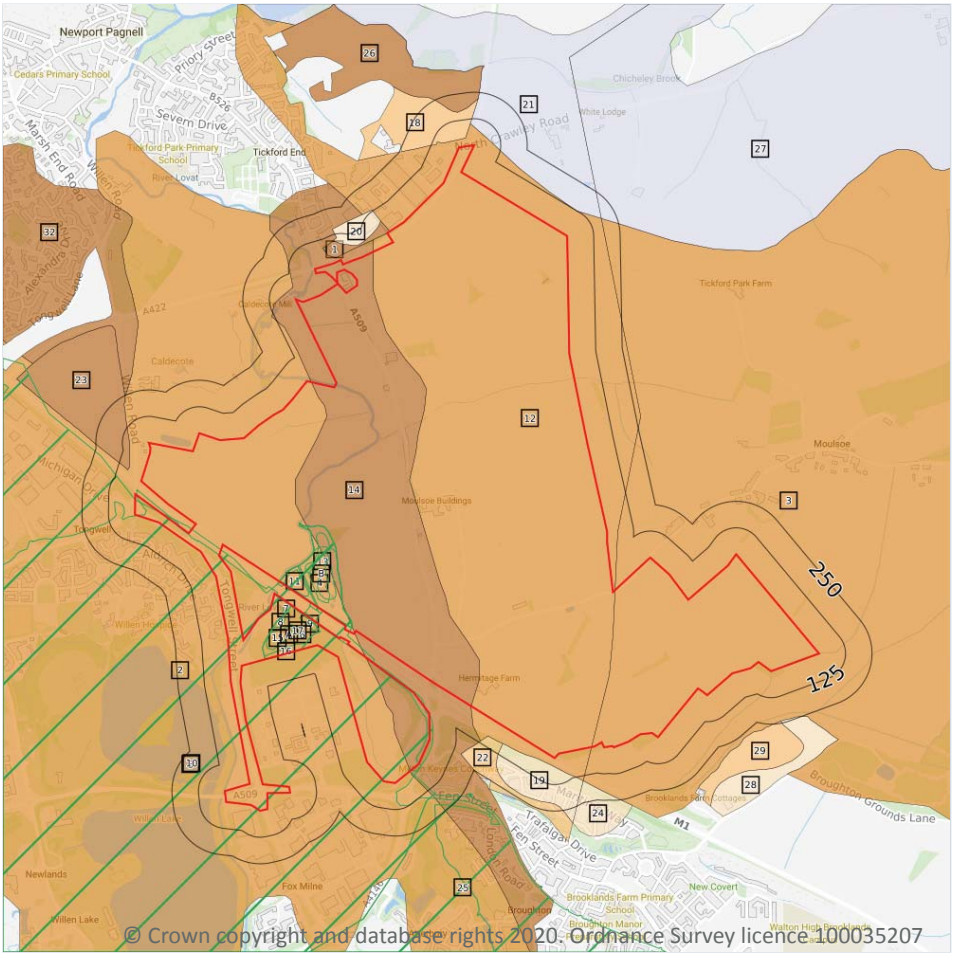
11.7 Registered Parks and Gardens

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	17

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 153**

ID	Location	Classification	Description
1	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
3	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
12	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
14	**On site**	**Grade 2**	**Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.**
18	36m N	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
19	37m SW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
20	53m NW	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
21	65m NE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
22	72m SW	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

ID	Location	Classification	Description
23	73m W	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
24	149m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
26	165m N	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.
27	182m NE	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.
28	239m S	Grade 3b	Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.
29	240m S	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
32	247m NW	Grade 2	Very good quality agricultural land. Land with minor limitations which affect crop yield, cultivations or harvesting. A wide range of agricultural and horticultural crops can usually be grown but on some land in the grade there may be reduced flexibility due to difficulties with the production of the more demanding crops such as winter harvested vegetables and arable root crops. The level of yield is generally high but may be lower or more variable than Grade 1.

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	17

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.

Features are displayed on the Agricultural designations map on **page 153**

ID	Location	Description	Reference	Application date
4	**On site**	**Selective Fell/Thin (Conditional)**	**019/191/10-11**	**26/08/2010**
5	**On site**	**Selective Fell/Thin (Conditional)**	**019/27/07-08**	**08/06/2007**
6	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
7	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
8	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
9	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
10	**On site**	**Selective Fell/Thin (Conditional)**	**019/103/16-17**	**29/06/2016**
11	**On site**	**Selective Fell/Thin (Conditional)**	**019/198/15-16**	**23/11/2015**
13	**On site**	**Selective Fell/Thin (Conditional)**	**019/153/11-12**	**02/08/2011**
15	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
16	**On site**	**Clear Fell (Conditional)**	**019/150/14-15**	**22/07/2014**
17	**On site**	**Selective Fell/Thin (Conditional)**	**019/153/11-12**	**02/08/2011**
A	**On site**	**Selective Fell/Thin (Conditional)**	**019/191/10-11**	**26/08/2010**
A	**On site**	**Selective Fell/Thin (Conditional)**	**019/152/09-10**	**17/08/2009**
B	**On site**	**Selective Fell/Thin (Conditional)**	**019/152/09-10**	**17/08/2009**
B	**On site**	**Selective Fell/Thin (Conditional)**	**019/198/15-16**	**23/11/2015**
25	156m SE	Selective Fell/Thin (Conditional)	019/105/16-17	29/06/2016

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	6

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

Location	Reference	Scheme	Start Date	End date
On site	**AG00504462**	**Entry Level Stewardship**	**01/09/2013**	**31/08/2018**
24m SW	AG00425199	Entry Level plus Higher Level Stewardship	01/03/2013	28/02/2023
25m NW	AG00504462	Entry Level Stewardship	01/09/2013	31/08/2018
28m NW	AG00504462	Entry Level Stewardship	01/09/2013	31/08/2018
29m NW	AG00504462	Entry Level Stewardship	01/09/2013	31/08/2018
98m SW	AG00425199	Entry Level plus Higher Level Stewardship	01/03/2013	28/02/2023

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	8

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.

Location	Reference	Scheme	Start Date	End Date
On site	**476077**	**Countryside Stewardship (Middle Tier)**	**01/01/2018**	**31/12/2022**
On site	**315079**	**Countryside Stewardship (Middle Tier)**	**01/01/2017**	**31/12/2021**
On site	**315079**	**Countryside Stewardship (Middle Tier)**	**01/01/2017**	**31/12/2021**
On site	**476077**	**Countryside Stewardship (Middle Tier)**	**01/01/2018**	**31/12/2022**
On site	**315079**	**Countryside Stewardship (Middle Tier)**	**01/01/2017**	**31/12/2021**
On site	**556781**	**Countryside Stewardship (Middle Tier)**	**01/01/2016**	**31/12/2020**

Location	Reference	Scheme	Start Date	End Date
On site	**556781**	**Countryside Stewardship (Middle Tier)**	**01/01/2016**	**31/12/2020**
54m E	556781	Countryside Stewardship (Middle Tier)	01/01/2016	31/12/2020

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	**36**

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

Features are displayed on the Habitat designations map on **page 159**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
3	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
4	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**

ID	Location	Main Habitat	Other habitats
5	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
6	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
7	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
8	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
9	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
10	6m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	8m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	22m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	26m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	35m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	40m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	42m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	46m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	48m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	51m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	53m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	56m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	75m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	108m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	113m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	115m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	118m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	124m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	137m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	153m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	156m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
23	166m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	173m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	187m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
25	197m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

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	**1**

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.

Features are displayed on the Habitat designations map on **page 159**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
26	236m SE	NLUD Ref: 43500011; BRITPITS ref: 74505	Low	National Land Use Database - Previously Developed Land	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography

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	3

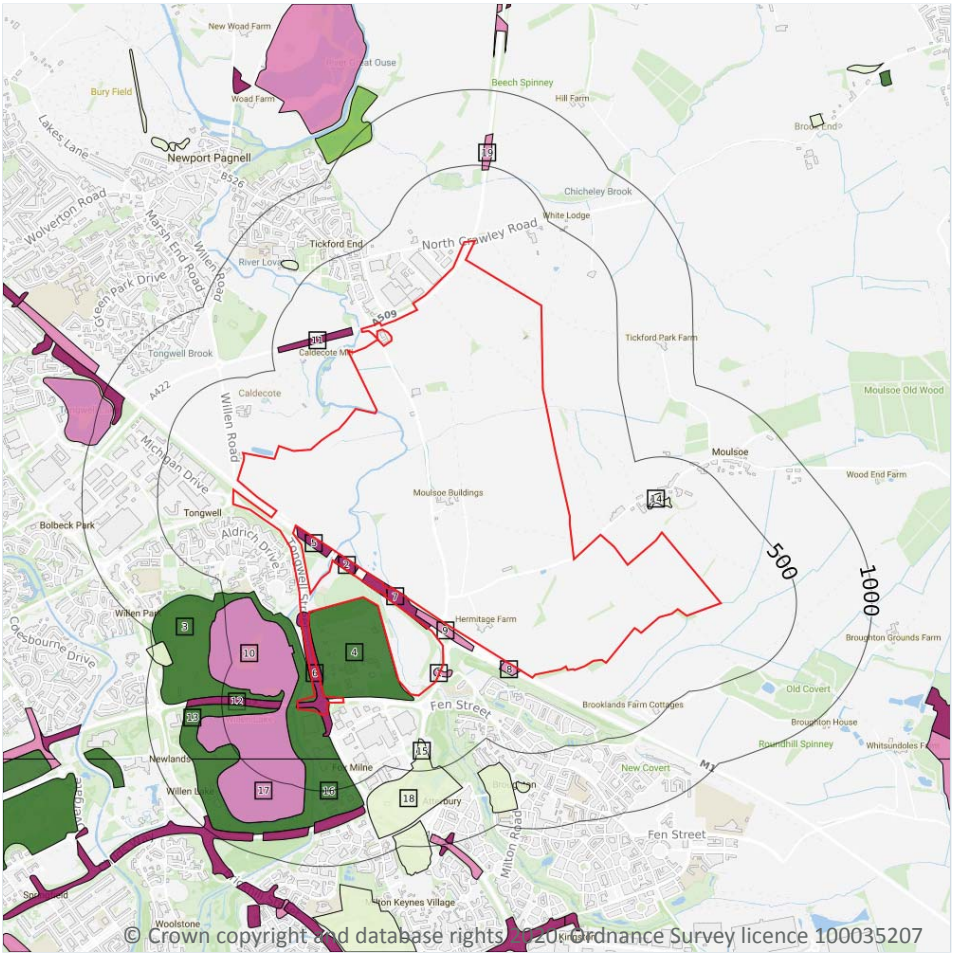
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 163**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP94SW**
2	**On site**	**Full**	**Full**	**Full**	**No coverage**	**SP84SE**
3	289m S	Full	Full	Full	No coverage	SP83NE

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	19

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.

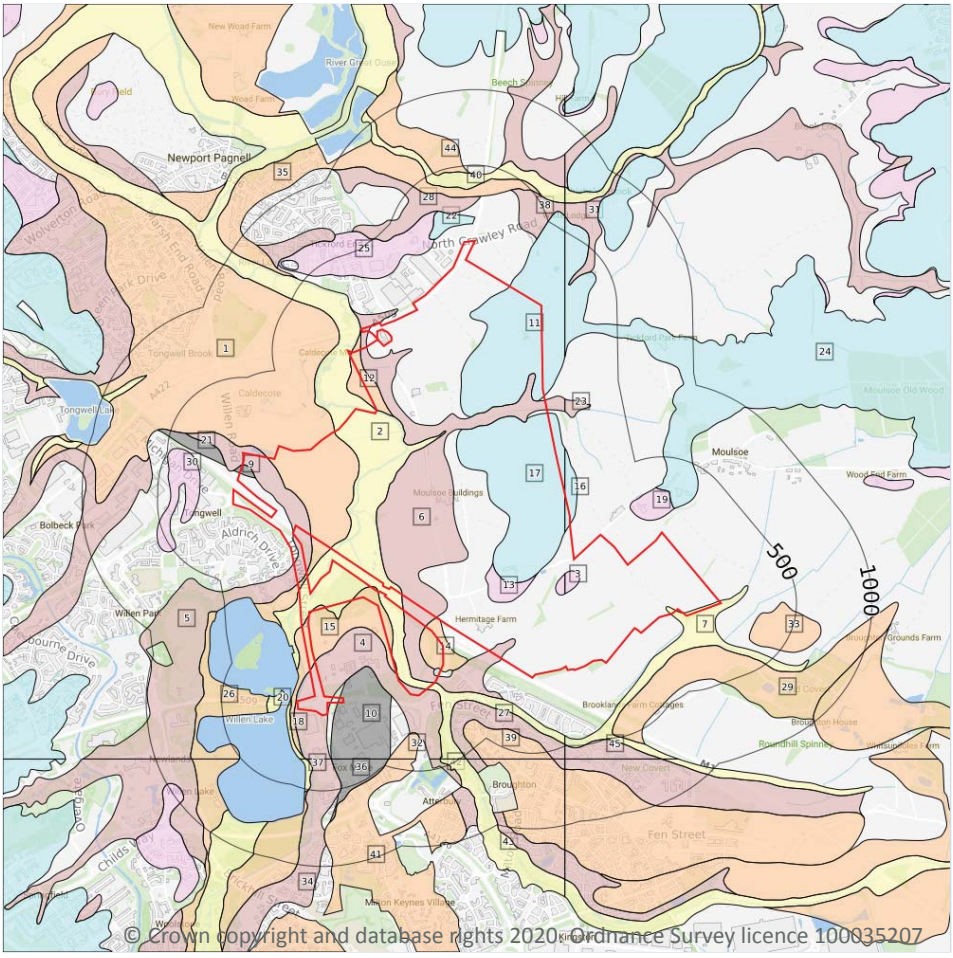
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 164**

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
4	On site	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry

ID	Location	LEX Code	Description	Rock description
5	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
6	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
7	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
8	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
9	11m SW	WGR-VOID	Worked Ground (Undivided)	Void
10	44m W	WGR-VOID	Worked Ground (Undivided)	Void
11	63m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	103m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	125m W	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
14	172m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	285m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
16	289m S	LSGR-UKNOWN	Landscaped Ground (Undivided)	Unknown/unclassified Entry
17	325m SW	WGR-VOID	Worked Ground (Undivided)	Void
18	420m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
19	469m N	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m **45**

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 166**

ID	Location	LEX Code	Description	Rock description
1	On site	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
2	On site	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
3	On site	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
5	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
6	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
7	**On site**	**ALV-XCZ**	**Alluvium - Clay And Silt**	**Clay And Silt**
8	**On site**	**GFDMP-XSV**	**Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel**	**Sand And Gravel**
9	**On site**	**GLLD-XCZSV**	**Glaciolacustrine Deposits - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
10	**On site**	**GLLD-XCZSV**	**Glaciolacustrine Deposits - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
11	**On site**	**ODT-DMTN**	**Oadby Member - Diamicton**	**Diamicton**
12	**On site**	**FELM-XSV**	**Felmersham Member - Sand And Gravel**	**Sand And Gravel**
13	**On site**	**GFDMP-XSV**	**Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel**	**Sand And Gravel**
14	**On site**	**FELM-XSV**	**Felmersham Member - Sand And Gravel**	**Sand And Gravel**
15	**On site**	**FELM-XSV**	**Felmersham Member - Sand And Gravel**	**Sand And Gravel**
16	**On site**	**ODT-DMTN**	**Oadby Member - Diamicton**	**Diamicton**
17	**On site**	**ODT-DMTN**	**Oadby Member - Diamicton**	**Diamicton**
18	39m W	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
19	92m N	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
20	95m W	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
21	99m W	GLLD-XCZSV	Glaciolacustrine Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
22	113m N	ODT-DMTN	Oadby Member - Diamicton	Diamicton
23	115m E	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
24	150m E	ODT-DMTN	Oadby Member - Diamicton	Diamicton
25	183m NW	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
26	189m W	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
27	194m SE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
28	203m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
29	217m S	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
30	221m W	GFDMP-XSV	Glaciofluvial Deposits, Mid Pleistocene - Sand And Gravel	Sand And Gravel
31	228m NE	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
32	248m S	STGO-XSV	Stoke Goldington Member - Sand And Gravel	Sand And Gravel
33	257m SE	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
34	289m S	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
35	291m N	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
36	295m S	GLLD-XCZSV	Glaciolacustrine Deposits - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
37	309m S	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
38	311m E	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
39	340m SE	STGO-XSV	Stoke Goldington Member - Sand And Gravel	Sand And Gravel
40	344m N	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
41	421m S	STGO-XSV	Stoke Goldington Member - Sand And Gravel	Sand And Gravel
42	426m S	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
43	444m S	ALV-XCZ	Alluvium - Clay And Silt	Clay And Silt
44	444m N	FELM-XSV	Felmersham Member - Sand And Gravel	Sand And Gravel
45	486m S	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

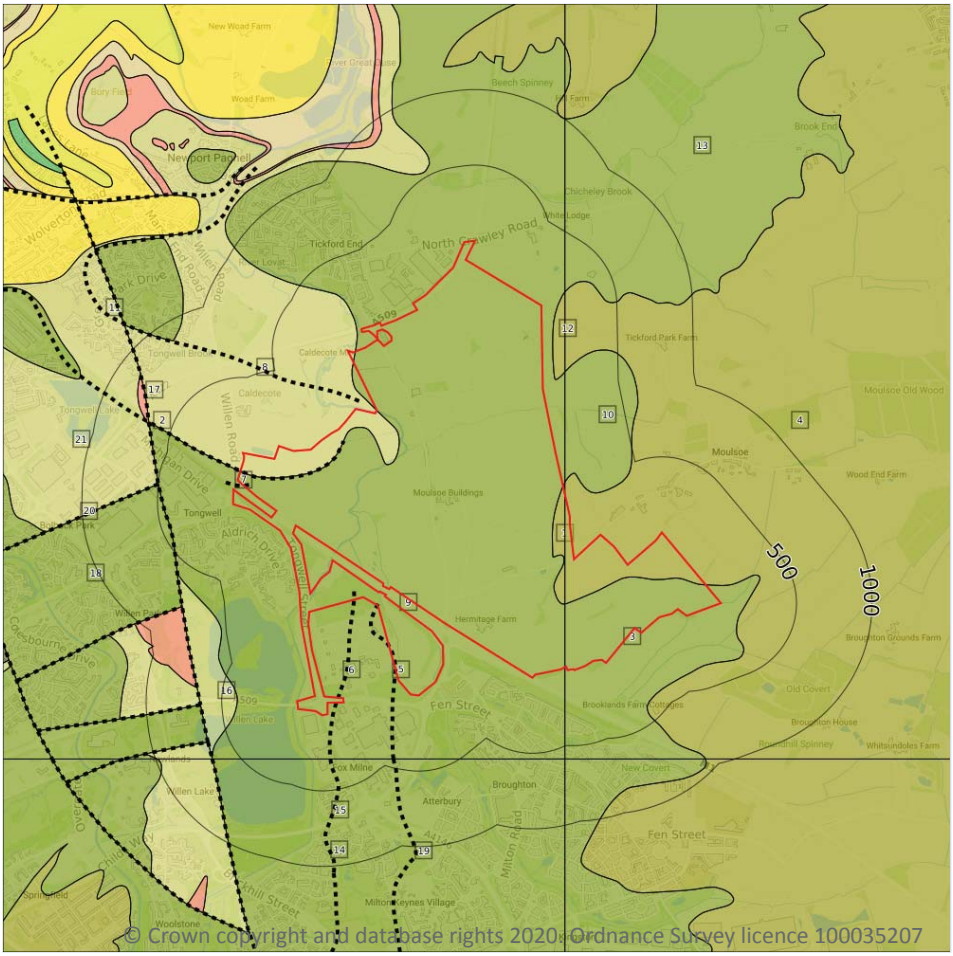
14.4 Landslip (10k)

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



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m	12

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 169**

ID	Location	LEX Code	Description	Rock age
1	On site	SBY-MDST	Stewartby Member - Mudstone	Callovian Age
3	On site	PET-MDST	Peterborough Member - Mudstone	Callovian Age
4	On site	SBY-MDST	Stewartby Member - Mudstone	Callovian Age

ID	Location	LEX Code	Description	Rock age
8	**On site**	**KLB-SDSM**	**Kellaways Formation - Sandstone, Siltstone And Mudstone**	**Callovian Age**
9	**On site**	**PET-MDST**	**Peterborough Member - Mudstone**	**Callovian Age**
10	17m E	PET-MDST	Peterborough Member - Mudstone	Callovian Age
12	71m E	SBY-MDST	Stewartby Member - Mudstone	Callovian Age
13	180m NE	PET-MDST	Peterborough Member - Mudstone	Callovian Age
14	289m S	PET-MDST	Peterborough Member - Mudstone	Callovian Age
16	397m W	KLB-SDSM	Kellaways Formation - Sandstone, Siltstone And Mudstone	Callovian Age
18	443m W	PET-MDST	Peterborough Member - Mudstone	Callovian Age
21	498m W	KLB-SDSM	Kellaways Formation - Sandstone, Siltstone And Mudstone	Callovian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**9**

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.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 169**

ID	Location	Category	Description
2	**On site**	**LANDFORM**	**Buried channel or valley margin**
5	**On site**	**LANDFORM**	**Buried channel or valley margin**
6	**On site**	**LANDFORM**	**Buried channel or valley margin**
7	**On site**	**LANDFORM**	**Buried channel or valley margin**
11	56m N	LANDFORM	Buried channel or valley margin
15	294m S	LANDFORM	Buried channel or valley margin
17	443m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
19	443m S	LANDFORM	Buried channel or valley margin
20	498m W	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability

15.1 50k Availability

Records within 500m	1

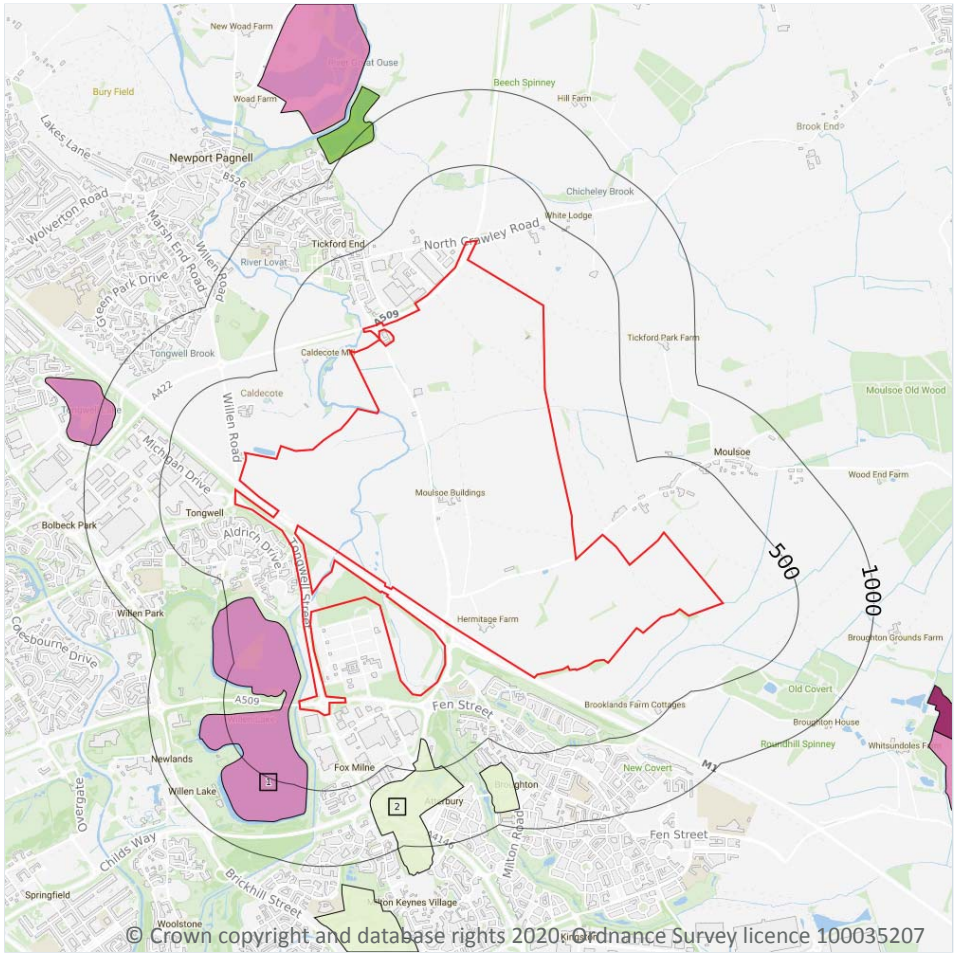
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 171**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW203_bedford_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made 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 172**

ID	Location	LEX Code	Description	Rock description
1	44m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	285m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

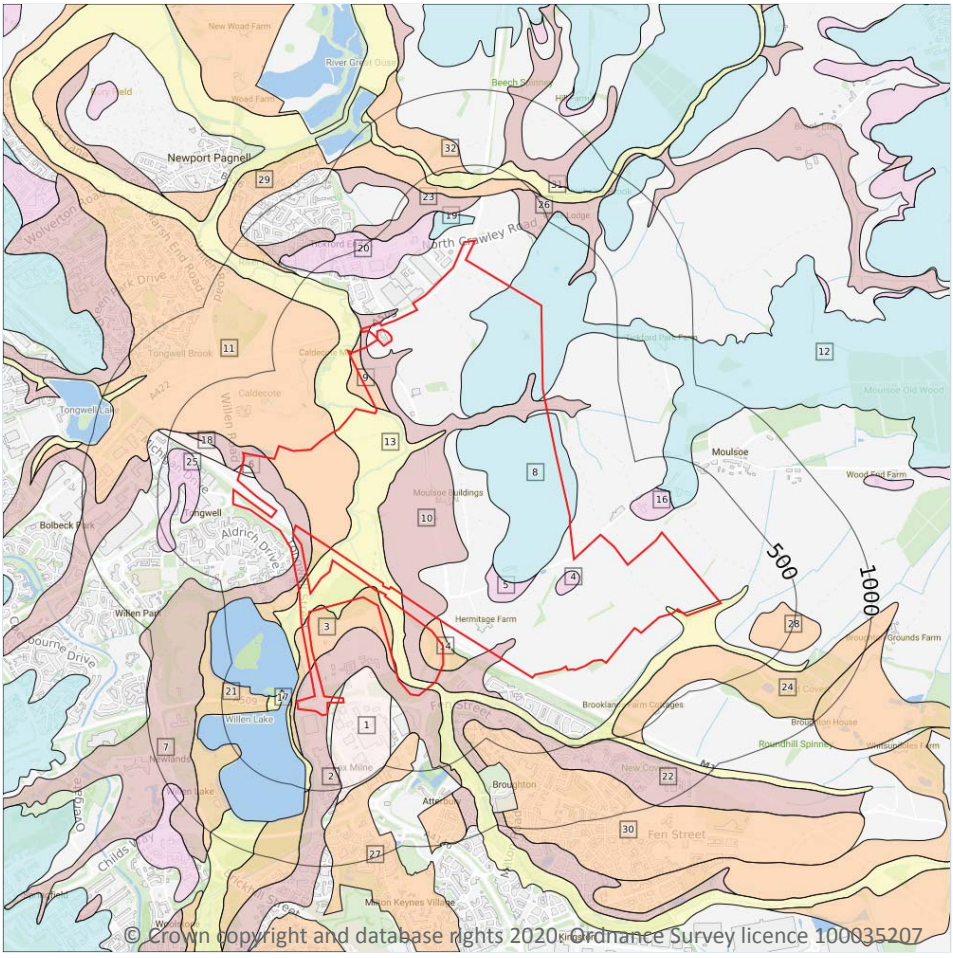
15.3 Artificial ground permeability (50k)

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 **32**

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 174**

ID	Location	LEX Code	Description	Rock description
1	On site	GLLMP-XCZSV	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY, SILT, SAND AND GRAVEL
2	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
3	On site	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	**On site**	**GFDMP-XSV**	**GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE**	**SAND AND GRAVEL**
5	**On site**	**GFDMP-XSV**	**GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE**	**SAND AND GRAVEL**
6	**On site**	**GLLMP-XCZSV**	**GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE**	**CLAY, SILT, SAND AND GRAVEL**
7	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
8	**On site**	**ODT-DMTN**	**OADBY MEMBER**	**DIAMICTON**
9	**On site**	**FELM-XSV**	**FELMERSHAM MEMBER**	**SAND AND GRAVEL**
10	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
11	**On site**	**FELM-XSV**	**FELMERSHAM MEMBER**	**SAND AND GRAVEL**
12	**On site**	**ODT-DMTN**	**OADBY MEMBER**	**DIAMICTON**
13	**On site**	**ALV-XCZ**	**ALLUVIUM**	**CLAY AND SILT**
14	**On site**	**FELM-XSV**	**FELMERSHAM MEMBER**	**SAND AND GRAVEL**
15	40m W	ALV-XCZ	ALLUVIUM	CLAY AND SILT
16	92m N	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
17	95m W	ALV-XCZ	ALLUVIUM	CLAY AND SILT
18	99m W	GLLMP-XCZSV	GLACIOLACUSTRINE DEPOSITS, MID PLEISTOCENE	CLAY, SILT, SAND AND GRAVEL
19	113m N	ODT-DMTN	OADBY MEMBER	DIAMICTON
20	183m NW	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
21	188m W	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL
22	194m SE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
23	203m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
24	217m S	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL
25	222m W	GFDMP-XSV	GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE	SAND AND GRAVEL
26	228m NE	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
27	248m S	STGO-XSV	STOKE GOLDINGTON MEMBER	SAND AND GRAVEL
28	257m SE	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
29	291m N	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL
30	340m SE	STGO-XSV	STOKE GOLDINGTON MEMBER	SAND AND GRAVEL
31	344m N	ALV-XCZ	ALLUVIUM	CLAY AND SILT
32	444m N	FELM-XSV	FELMERSHAM MEMBER	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **18**

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	**Mixed**	**Moderate**	**Low**
On site	**Mixed**	**Moderate**	**Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**Moderate**	**Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Low**	**Very Low**
On site	**Intergranular**	**Low**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Intergranular**	**Very High**	**High**

Location	Flow type	Maximum permeability	Minimum permeability
40m SW	Intergranular	Low	Very 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.

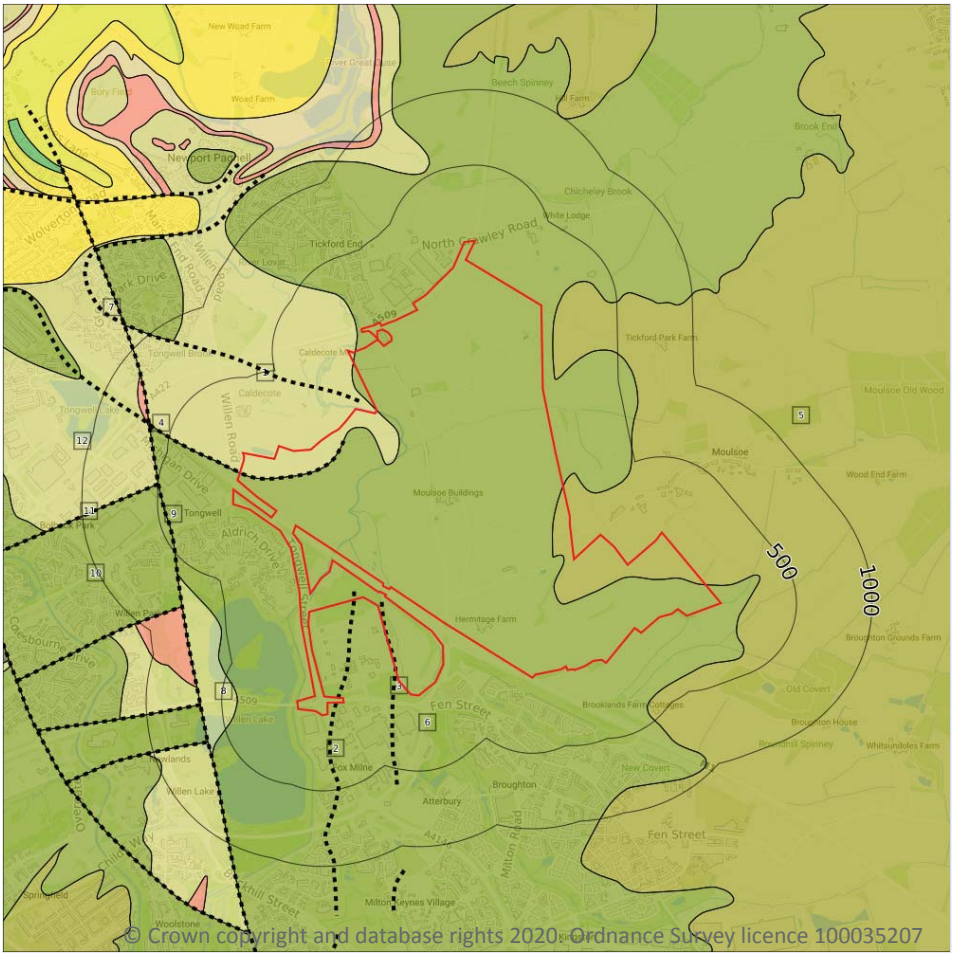
15.7 Landslip permeability (50k)

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	6

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 178**

ID	Location	LEX Code	Description	Rock age
1	On site	KLB-SDSM	KELLAWAYS FORMATION - SANDSTONE, SILTSTONE AND MUDSTONE	CALLOVIAN
5	On site	SBY-MDST	STEWARTBY MEMBER - MUDSTONE	CALLOVIAN
6	On site	PET-MDST	PETERBOROUGH MEMBER - MUDSTONE	CALLOVIAN

ID	Location	LEX Code	Description	Rock age
8	397m W	KLB-SDSM	KELLAWAYS FORMATION - SANDSTONE, SILTSTONE AND MUDSTONE	CALLOVIAN
10	443m W	PET-MDST	PETERBOROUGH MEMBER - MUDSTONE	CALLOVIAN
12	498m W	KLB-SDSM	KELLAWAYS FORMATION - SANDSTONE, SILTSTONE AND MUDSTONE	CALLOVIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **6**

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	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Low**	**Very Low**
On site	**Fracture**	**Low**	**Very Low**
On site	**Mixed**	**Moderate**	**Low**
On site	**Fracture**	**Low**	**Very Low**
17m NE	Fracture	Low	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **6**

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.

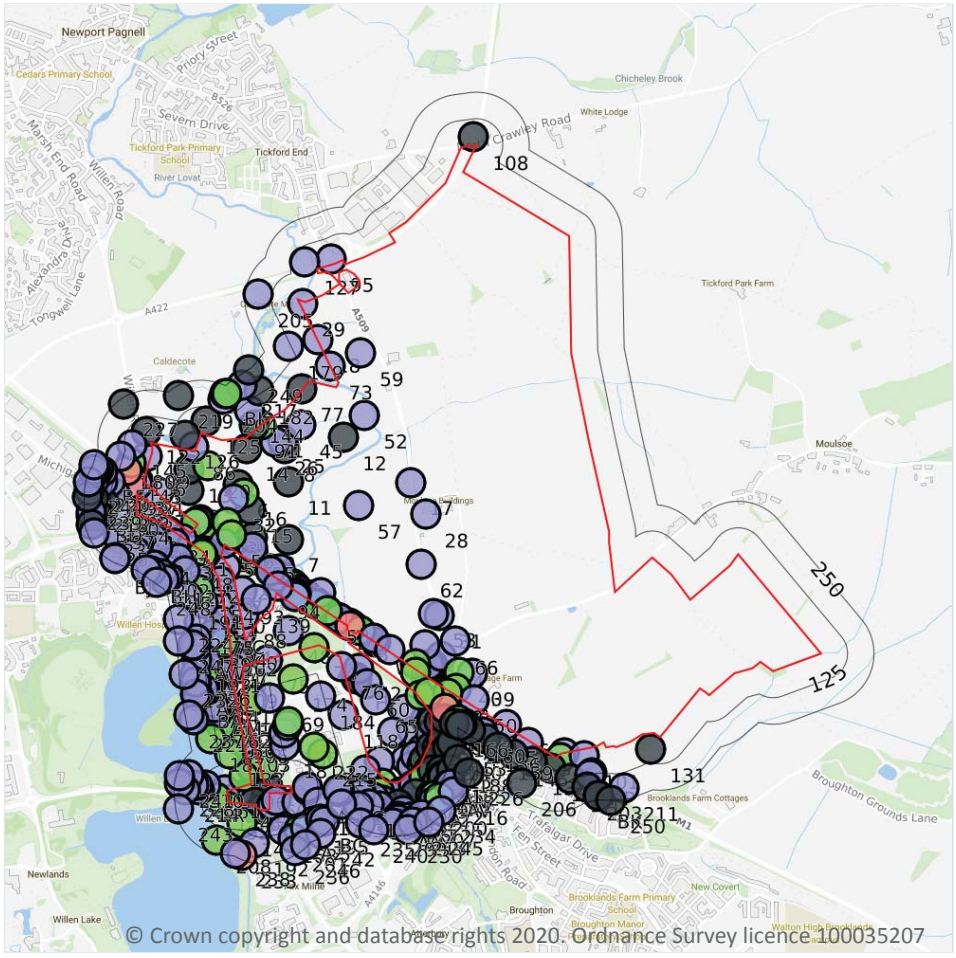
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 178**

ID	Location	Category	Description
2	**On site**	**LANDFORM**	**Approximate margin of buried (superficial deposit-filled) channel or valley**
3	**On site**	**LANDFORM**	**Approximate margin of buried (superficial deposit-filled) channel or valley**

ID	Location	Category	Description
4	**On site**	**LANDFORM**	**Approximate margin of buried (superficial deposit-filled) channel or valley**
7	56m N	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
9	443m W	FAULT	Fault, inferred
11	498m W	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	417

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 181**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	488673 241320	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1413	1.7	N	353420
2	On site	488678 241251	M1 Widening, Junction 14 to 15 C55	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	488605 241309	M1 Widening, Junction 14 to 15 C57	-	Y	N/A
4	On site	488356 241474	M1 Widening, Junction 14 to 15 C66	-	Y	N/A
5	On site	488193 241573	M1 Widening, Junction 14 to 15 C66A	-	Y	N/A
6	On site	488280 241830	MANOR FARM NEWPORT PAGNELL 4	-	Y	N/A
7	On site	488520 241570	MANOR FARM NEWPORT PAGNELL 7	-	Y	N/A
8	On site	488500 242000	MANOR FARM NEWPORT PAGNELL 10	-	Y	N/A
9	On site	488050 241800	MANOR FARM NEWPORT PAGNELL 3	-	Y	N/A
10	On site	488350 241580	MANOR FARM NEWPORT PAGNELL 6	-	Y	N/A
11	On site	488520 241840	MANOR FARM NEWPORT PAGNELL 8	-	Y	N/A
12	On site	488780 242050	MANOR FARM NEWPORT PAGNELL 9	-	Y	N/A
13	On site	488050 241900	MANOR FARM NEWPORT PAGNELL 2	-	Y	N/A
14	On site	488320 242000	MANOR FARM NEWPORT PAGNELL 5	-	Y	N/A
15	On site	488340 241710	MANOR FARM NEWPORT PAGNELL 11	-	Y	N/A
16	On site	488310 241790	MILTON KEYNES SEWERAGE WORKS 207	12.0	N	353006
17	On site	489095 241839	MK148	4.6	N	353508
18	On site	488657 242514	MK177	2.7	N	353496
19	On site	489106 240663	PINEHAM HELIPORT N561	3.0	N	17758543
20	On site	488140 241920	WILLEN-OUSE TUNNEL 105	11.58	N	352659
21	On site	487905 241791	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1419	3.5	N	353426
22	On site	488224 241438	WILLEN GRID SQUARE S8	5.0	N	17758528
23	On site	489075 240533	PINEHAM HELIPORT N559	3.0	N	17758541
24	On site	488480 241430	MILTON KEYNES SEWERAGE WORKS 208	10.0	N	353007
25	On site	488490 242040	MILTON KEYNES (SEWAGE WORKS) 8A	8.53	N	352623
26	On site	488458 242029	MK153	7.3	N	353490
27	On site	488320 240600	BALANCING RESERVOIR (S341) B631	10.0	N	352734
28	On site	489166 241688	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1408	2.5	N	353416
29	On site	488585 242685	MK176	3.7	N	353495

ID	Location	Grid reference	Name	Length	Confidential	Web link
30	On site	488209 241283	WILLEN GRID SQUARE S11	5.0	N	17758531
31	On site	489231 241212	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1406	3.3	N	353414
32	On site	488260 241760	COTTON VALLEY PURIFICATION WORKS 309	2.45	N	353016
33	On site	489150 240580	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B456	4.0	N	352700
34	On site	489240 241020	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1404	3.0	N	353412
35	On site	488230 241650	MILTON KEYNES SEWERAGE WORKS 206	12.0	N	353005
36	On site	488950 240520	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E36	3.0	N	17873423
37	On site	489070 240768	PINEHAM HELIPORT N560	5.0	N	17758542
38	On site	489163 241073	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1409	4.6	N	353417
39	On site	489385 240939	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1402	3.0	N	353410
40	On site	489326 240941	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1607	15.0	N	353355
41	On site	489120 240984	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1610A	16.0	N	353359
42	On site	488852 240962	PINEHAM HELIPORT N556	3.0	N	17758538
43	On site	488263 240348	H5 EMBANKMENT (V10 - V11) M108	5.0	N	17925146
44	On site	488295 241131	WILLEN GRID SQUARE S21	7.0	N	17758537
45	On site	488575 242109	MK154	4.6	N	353491
46	On site	489549 240697	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1600	10.0	N	353345
47	On site	488196 241370	WILLEN GRID SQUARE S7	5.0	N	17758527
48	On site	488520 241140	MILTON KEYNES (SEWAGE WORKS) 9	9.14	N	352625
49	On site	489100 240500	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B455	4.0	N	352699
50	On site	489397 240814	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1601	10.0	N	353346
51	On site	488215 241550	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1417	3.5	N	353424

ID	Location	Grid reference	Name	Length	Confidential	Web link
52	On site	488879 242156	MK152	4.6	N	353489
53	On site	489204 241218	MK146	2.7	N	353506
54	On site	489119 240549	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1403	2.5	N	353411
55	On site	488350 241531	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1416	2.3	N	353423
56	On site	488250 241590	COTTON VALLEY PURIFICATION WORKS 301	18.3	N	353008
57	On site	488850 241730	MILTON KEYNES (SEWAGE WORKS) 7&7A	3.2	N	352621
58	On site	488701 241235	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1613	23.5	N	353362
59	On site	488860 242450	MILTON KEYNES (SEWAGE WORKS) 6	6.7	N	352620
60	On site	488890 240890	MILTON KEYNES (SEWAGE WORKS) 12	7.62	N	352628
61	On site	489190 240650	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B457	4.0	N	352701
62	On site	489144 241453	MK147	2.7	N	353507
63	On site	488998 241051	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1407	3.0	N	353415
64	On site	489009 240661	PINEHAM HELIPORT N558	3.0	N	17758540
A	On site	489199 240978	M1 Widening, Junction 14 to 15 HA1405	-	Y	N/A
A	On site	489198 240978	M1 Widening, Junction 14 to 15 HA1405B	-	Y	N/A
A	On site	489183 240980	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1405	4.6	N	353413
65	On site	488930 240812	PINEHAM HELIPORT N557	3.5	N	17758539
B	On site	488843 241148	M1 Widening, Junction 14 to 15 C51	-	Y	N/A
B	On site	488859 241138	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1611	17.5	N	353360
66	On site	489307 241088	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1609	10.0	N	353357
C	On site	488820 241168	M1 Widening, Junction 14 to 15 C52	-	Y	N/A
C	On site	488807 241175	M1 Widening, Junction 14 to 15 C53	-	Y	N/A
C	On site	488810 241163	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1612	30.2	N	353361

ID	Location	Grid reference	Name	Length	Confidential	Web link
67	On site	488338 240352	H5 PORT WAY (V10-V11) SUBWAY H5/10C MK675	10.0	N	17567743
D	On site	488753 241203	M1 Widening, Junction 14 to 15 C54	-	Y	N/A
D	On site	488759 241196	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1412	1.7	N	353419
68	On site	488340 240500	M1 JUNCTION 14 TP19	-	Y	N/A
E	On site	488649 241274	M1 Widening, Junction 14 to 15 C56	-	Y	N/A
E	On site	488651 241263	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1614	18.5	N	353363
69	On site	488410 240410	M1 JUNCTION 14 TP20	-	Y	N/A
F	On site	488556 241345	M1 Widening, Junction 14 to 15 C59	-	Y	N/A
F	On site	488540 241357	M1 Widening, Junction 14 to 15 C60	-	Y	N/A
F	On site	488531 241362	M1 Widening, Junction 14 to 15 C61	-	Y	N/A
F	On site	488503 241379	M1 Widening, Junction 14 to 15 C62	-	Y	N/A
F	On site	488487 241398	M1 Widening, Junction 14 to 15 C63	-	Y	N/A
F	On site	488469 241403	M1 Widening, Junction 14 to 15 C64	-	Y	N/A
F	On site	488516 241369	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1616	15.5	N	353365
F	On site	488565 241330	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1414	1.7	N	353421
F	On site	488472 241395	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1617	31.0	N	353366
70	On site	488360 240330	M1 JUNCTION 14 TP21	-	Y	N/A
G	On site	488433 241429	M1 Widening, Junction 14 to 15 C65	-	Y	N/A
G	On site	488433 241422	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1415	2.3	N	353422
H	On site	488838 240920	MILTON KEYNES ORDER NO E14 E239	-	Y	N/A
H	On site	488843 240911	MILTON KEYNES ORDER NO E14 E240	-	Y	N/A
I	On site	488103 241664	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1620	15.0	N	353370
I	On site	488093 241658	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1418	3.0	N	353425

ID	Location	Grid reference	Name	Length	Confidential	Web link
J	On site	488140 241560	M1 MOTORWAY 210	10.8	N	353118
J	On site	488142 241566	NGR Z164	10.8	N	17758993
K	On site	488132 241500	WILLEN GRID SQUARE S4	7.0	N	17569304
K	On site	488124 241514	V11 (H4-OUZEL) SUBWAY V11/4B X90	13.0	N	17569350
K	On site	488131 241508	V11 (H4-OUZEL) SUBWAY V11/4B X91	13.0	N	17569397
L	On site	488270 241014	V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1038A	11.4	N	17932122
L	On site	488261 241014	V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1039	7.85	N	17932123
L	On site	488270 241015	V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1038	8.35	N	17932121
M	On site	488319 240372	H5 PORT WAY (V10-V11) SUBWAY H5/10C MK674	10.0	N	17567716
M	On site	488310 240356	H5 EMBANKMENT (V10-V11) M109	11.0	N	17567715
N	On site	488418 240332	V11 TONGWELL STREET (H5-H6) SUBWAY V11/5A MK677	10.0	N	17567745
N	On site	488410 240350	M1 JUNCTION 14 11	-	Y	N/A
O	On site	489308 240865	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) A1605	23.15	N	353352
O	On site	489297 240861	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1605B	30.0	N	353351
O	On site	489285 240863	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1605	4.0	N	353350
O	On site	489313 240868	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) B1605	23.5	N	353353
P	On site	488038 241588	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1618	2.0	N	353367
P	On site	488037 241585	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1618A	15.0	N	353368
Q	On site	488254 241046	WILLEN GRID SQUARE S20	5.0	N	17758989
Q	On site	488258 241045	V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1035	14.4	N	17932118
Q	On site	488271 241046	V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1037	7.8	N	17932120

ID	Location	Grid reference	Name	Length	Confidential	Web link
R	**On site**	**489166 240724**	**M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1606**	**15.0**	**N**	**353354**
R	**On site**	**489190 240720**	**CITY ROAD H6 (V8 TO A50) MILTON KEYNES B458**	**4.0**	**N**	**352702**
S	**On site**	**488260 240986**	**V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1041A**	**11.1**	**N**	**17932126**
S	**On site**	**488260 240985**	**V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1041**	**7.7**	**N**	**17932125**
S	**On site**	**488270 240988**	**V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1040**	**8.0**	**N**	**17932124**
T	**On site**	**488372 240308**	**PINEHAM MAIN DRAINAGE PHASE 1 E28**	**9.0**	**N**	**17567713**
T	**On site**	**488380 240310**	**NORTHFIELD GRID SQUARE E28**	**9.0**	**N**	**353585**
T	**On site**	**488392 240312**	**V11 TONGWELL STREET (H5-H6) SUBWAY V11/5A MK676**	**10.6**	**N**	**17567744**
T	**On site**	**488390 240300**	**M1 JUNCTION 14 TP22**	**-**	**Y**	**N/A**
U	**On site**	**487896 241672**	**WILLEN GRID SQUARE S49**	**5.6**	**N**	**17758990**
U	**On site**	**487896 241672**	**WILLEN GRID SQUARE S49A**	**5.0**	**N**	**17758992**
V	**On site**	**488421 240382**	**MILTON KEYNES 88**	**7.0**	**N**	**353548**
V	**On site**	**488430 240380**	**NORTHFIELD GRID SQUARE WI88**	**7.0**	**N**	**353612**
W	**On site**	**488931 241085**	**M1 Widening, Junction 14 to 15 C50**	**-**	**Y**	**N/A**
W	**On site**	**488921 241105**	**M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1411**	**3.0**	**N**	**353418**
X	**On site**	**488270 240960**	**BALANCING RESERVOIR (S341) B628**	**8.5**	**N**	**352731**
X	**On site**	**488274 240960**	**V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1036**	**18.3**	**N**	**17932119**
X	**On site**	**488261 240956**	**V11 TONGWELL STREET RIVER OUZEL BRIDGE MK1042**	**8.4**	**N**	**17932127**
71	0m NW	488390 242110	COTTON VALLEY PURIFICATION WORKS 310	14.8	N	353017
72	1m S	489821 240561	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) 1350	5.3	N	353328
I	1m SW	488079 241650	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1619	15.0	N	353369
73	3m SW	488714 242387	MK178	3.7	N	353497

ID	Location	Grid reference	Name	Length	Confidential	Web link
74	4m S	488640 241060	MILTON KEYNES (SEWAGE WORKS) 10	15.8	N	352626
75	4m S	488420 241000	MILTON KEYNES (SEWAGE WORKS) 16	9.14	N	352632
76	5m W	488770 240970	MILTON KEYNES (SEWAGE WORKS) 11	7.62	N	352627
77	5m NW	488580 242280	CALDECOTE FARM NEWPORT PAGNELL 7	-	Y	N/A
P	5m SW	488020 241572	WILLEN GRID SQUARE S2	5.0	N	17758988
R	5m E	489199 240712	M1 Widening, Junction 14 to 15 HA102	-	Y	N/A
Y	6m SE	489150 240510	CITY ROAD H6 (V8-A50) BRIDGE SITES MILTON KEYNES D262	18.3	N	352998
78	7m SW	489652 240613	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) TP 1235	3.0	N	353331
Y	7m SE	489160 240530	M1 JUNCTION 14 TP29	-	Y	N/A
F	8m SW	488553 241317	M1 Widening, Junction 14 to 15 HA1414	-	Y	N/A
K	8m SW	488117 241493	V11 (H4-OUZEL) SUBWAY V11/4B X93	14.0	N	17569443
K	9m SW	488112 241500	V11 (H4-OUZEL) SUBWAY V11/4B X92	13.3	N	17569442
79	10m SE	489190 240590	M1 JUNCTION 14 6	-	Y	N/A
Z	11m E	488440 240310	NORTHFIELD GRID SQUARE E29	6.0	N	353586
80	12m NW	488220 240390	TONGWELL TRUNK SEWER MILTON KEYNES B405	10.0	N	352910
81	12m SW	489119 240942	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1610	17.5	N	353358
82	12m NE	489143 240836	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1608	15.0	N	353356
F	12m SW	488555 241310	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1615A	13.0	N	353364
83	13m SE	489805 240541	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) 1349	15.5	N	353327
Z	13m E	488442 240318	PINEHAM MAIN DRAINAGE PHASE 1 E29	6.0	N	17567714
84	14m SW	487950 241610	WILLEN TP L421	2.7	N	17758966
85	14m SW	489270 240842	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1604	23.0	N	353349
86	14m W	488070 242006	MK162	4.6	N	353493
87	15m E	488400 240500	TONGWELL TRUNK SEWER MILTON KEYNES B407	11.5	N	352912
88	16m E	488310 241214	WILLEN GRID SQUARE S17	5.0	N	17758536

ID	Location	Grid reference	Name	Length	Confidential	Web link
89	17m W	487853 241963	MK163	6.1	N	353525
90	19m SW	488960 240420	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E34/E34A	11.0	N	17873407
91	20m NW	488360 242110	CALDECOTE FARM NEWPORT PAGNELL 6	-	Y	N/A
92	21m S	488230 240310	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E22	11.0	N	17873375
F	23m SW	488550 241300	M1 MOTORWAY 208	7.7	N	353116
93	24m E	488298 241326	WILLEN GRID SQUARE S12	5.2	N	17758532
AA	24m W	487810 241840	M1 MOTORWAY 211	9.2	N	353119
AB	26m E	488340 240810	WILLEN A554	12.95	N	17666571
94	26m SW	488470 241350	M1 MOTORWAY 209	7.7	N	353117
95	28m N	488720 242895	NEWPORT PAGNELL BYPASS TP 3	1.67	N	353500
96	29m W	488310 240450	TONGWELL TRUNK SEWER MILTON KEYNES B406	11.5	N	352911
97	29m W	488218 241032	MILTON KEYNES TP B683	-	Y	N/A
AC	30m W	488197 241185	MILTON KEYNES TP B684	-	Y	N/A
98	30m W	487775 241748	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1621	35.0	N	353371
AA	31m SW	487807 241830	NGR Z165	9.2	N	17758994
99	31m E	488460 240340	NORTHFIELD GRID SQUARE J93	5.0	N	353590
100	31m W	488210 241110	MILTON KEYNES (SEWAGE WORKS) 8B	5.49	N	352624
101	32m S	489916 240549	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) TP 1234	3.0	N	353330
AC	32m W	488195 241182	WILLEN GRID SQUARE S16	7.0	N	17758535
102	34m W	488210 241080	BALANCING RESERVOIR (S341) B624	13.5	N	352729
103	35m W	488270 240630	BALANCING RESERVOIR (S341) B637	13.3	N	352739
AB	36m E	488350 240810	WILLEN A554	12.95	N	352688
104	36m E	489230 240710	M1 JUNCTION 14 19	-	Y	N/A
105	38m SE	489220 240590	M1 JUNCTION 14 TP10	-	Y	N/A
106	38m W	488260 240670	BALANCING RESERVOIR (S341) B636	12.3	N	352738
107	40m SW	488880 240480	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E33	8.0	N	17873398

ID	Location	Grid reference	Name	Length	Confidential	Web link
108	41m N	489393 243470	MILTON KEYNES ORDER NO G38 14	-	Y	N/A
AD	44m SE	489050 240380	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B459	10.0	N	352703
109	44m W	488210 240930	BALANCING RESERVOIR (S341) B630	8.3	N	352733
110	45m E	489240 240620	M1 JUNCTION 14 7A	-	Y	N/A
111	46m SW	487980 241550	WILLEN TP L425	2.7	N	17758968
AE	47m SE	489180 240480	M1 JUNCTION 14 5	-	Y	N/A
112	50m NE	489180 240850	M1MOTORWAY 207	10.8	N	353115
113	50m SE	488560 240330	NORTHFIELD GRID SQUARE J94	7.0	N	353591
AD	51m S	489040 240370	NORTHFIELD GRID SQUARE B459	10.0	N	353580
114	52m W	488180 240350	BALANCING RESERVOIR (S341) B622	16.0	N	352727
115	54m SE	489220 240550	M1 JUNCTION 14 22	-	Y	N/A
116	54m SW	489760 240490	BROOKLANDS MILTON KEYNES 203	-	Y	N/A
AF	56m W	488221 240782	WILLEN BALANCING RESERVOIR D958	4.85	N	353045
117	56m SW	488950 240380	NORTHFIELD GRID SQUARE E34A	11.0	N	353587
118	56m W	488780 240740	MILTON KEYNES (SEWAGE WORKS) 13	7.62	N	352629
119	57m SE	489110 240410	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B454	10.0	N	352698
120	57m SE	489160 240450	CITY ROAD H6 (V8-A50) BRIDGE SITES MILTON KEYNES D261	20.0	N	352997
121	58m NW	487773 241831	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1622	34.85	N	353372
122	58m N	487850 242080	CALDECOTE FARM NEWPORT PAGNELL 2	-	Y	N/A
AG	60m W	488223 240750	WILLEN BALANCING RESERVOIR D959	5.2	N	353046
123	62m W	488230 240699	WILLEN BALANCING RESERVOIR D960	10.7	N	353047
124	63m E	489256 240725	M1 Widening, Junction 14 to 15 HA101	-	Y	N/A
AH	63m W	488207 240818	WILLEN BALANCING RESERVOIR D957	4.35	N	353044
125	63m N	488130 242130	CALDECOTE FARM NEWPORT PAGNELL 4	-	Y	N/A
126	64m N	488030 242060	CALDECOTE FARM NEWPORT PAGNELL 3	-	Y	N/A
AE	64m SE	489200 240480	M1 JUNCTION 14 TP12	-	Y	N/A
AF	64m W	488211 240790	WILLEN BALANCING LAKE TP H418	2.6	N	17867280

ID	Location	Grid reference	Name	Length	Confidential	Web link
127	66m NW	488597 242879	NEWPORT PAGNELL BYPASS 2	8.68	N	353499
AG	67m W	488219 240729	WILLEN BALANCING LAKE TP H417	2.6	N	17867278
128	68m E	489257 240771	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1603	36.7	N	353348
AH	68m W	488201 240824	WILLEN BALANCING LAKE TP H419	3.0	N	17867282
129	68m S	487820 241610	WILLEN TP L422	2.7	N	17758967
130	70m SW	487744 241652	H4 (V9-V11) N601	12.0	N	17758979
131	71m SW	490230 240580	BROOKLANDS MILTON KEYNES TP213	-	Y	N/A
AI	75m E	488610 240390	NORTHFIELD GRID SQUARE B463	6.0	N	353584
132	76m SW	489670 240520	BROOKLANDS MILTON KEYNES TP221	-	Y	N/A
AI	77m E	488610 240400	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B463	6.0	N	352707
133	78m W	488240 240560	BALANCING RESERVOIR (S341) B621	13.5	N	352726
134	79m W	488160 241120	BALANCING RESERVOIR (S341) B629	8.1	N	352732
135	79m SW	489436 240662	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1400	3.0	N	353408
136	80m W	487777 241931	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1624	30.0	N	353374
137	81m SW	487881 241576	WILLEN GRID SQUARE S1	7.0	N	17758987
138	82m SW	488095 241387	WILLEN GRID SQUARE S6	5.0	N	17758526
139	83m NW	488366 241285	WILLEN GRID SQUARE S13	5.0	N	17758533
140	83m SE	489270 240590	M1 JUNCTION 14 TP9	-	Y	N/A
141	84m W	488180 240850	BALANCING RESERVOIR (S341) B618	9.6	N	352723
142	85m W	487720 241676	H4 (V9-V11) N600	12.0	N	17758973
AG	87m W	488200 240723	WILLEN BALANCING LAKE TP H416	3.5	N	17867276
143	88m W	487758 241896	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1623	35.0	N	353373
144	88m NW	488336 242179	CALDECOTE FARM NEWPORT PAGNELL 1	4.57	N	353470
145	89m W	487781 242015	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1420	4.5	N	353427
AJ	90m SW	489350 240703	M1 Widening, Junction 14 to 15 HA1401	-	Y	N/A
146	90m SW	489580 240560	BROOKLANDS MILTON KEYNES WS235	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
AK	90m S	488960 240340	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B460	5.0	N	352704
AK	90m S	488960 240340	NORTHFIELD GRID SQUARE B460	5.0	N	353581
147	91m SW	489321 240720	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1602	15.0	N	353347
148	92m SW	488000 241480	WILLEN TP L426	2.6	N	17758969
149	92m S	488300 240230	BALANCING RESERVOIR (S341) B632	16.3	N	352735
150	93m W	488200 240693	WILLEN BALANCING RESERVOIR D961	11.1	N	353048
151	93m W	488117 241267	WILLEN GRID SQUARE S10	5.3	N	17758530
152	94m SE	489120 240370	M1 JUNCTION 14 WS2	-	Y	N/A
AL	95m W	488160 240910	WILLEN BRIDGE 2	5.87	N	352615
153	96m E	489290 240610	BROOKLANDS MILTON KEYNES 116	-	Y	N/A
154	98m W	488100 241330	WILLEN-OUSE TUNNEL 112	15.09	N	352666
155	98m SW	488920 240350	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E37	8.0	N	17873429
156	99m SW	489450 240630	BROOKLANDS MILTON KEYNES WS236	-	Y	N/A
157	100m SE	489240 240480	M1 JUNCTION 14 23	-	Y	N/A
158	100m S	489040 240320	M1 JUNCTION 14 TP18	-	Y	N/A
159	101m SW	489510 240590	BROOKLANDS MILTON KEYNES TP222	-	Y	N/A
160	102m SW	489380 240670	BROOKLANDS MILTON KEYNES TP223	-	Y	N/A
161	102m W	488130 240410	TONGWELL TRUNK SEWER MILTON KEYNES B404	8.5	N	352909
AJ	103m SW	489336 240696	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) TP 1401	3.8	N	353409
162	104m W	488180 240740	BALANCING RESERVOIR (S341) B619	10.0	N	352724
163	104m SW	487901 241534	WILLEN TP L429	2.8	N	17877452
164	104m W	487700 241700	TONGWELL GRID SQUARE K502	10.0	N	17758962
165	106m W	487700 241790	TONGWELL GRID SQUARE K503	5.0	N	17758964
166	106m E	489300 240700	M1 Widening, Junction 14 to 15 CCTV7	-	Y	N/A
AM	106m W	488166 240801	WILLEN BALANCING RESERVOIR D956	9.7	N	353043
AL	107m W	488150 240890	WILLEN BRIDGE 1	5.94	N	352614
AM	107m W	488170 240778	WILLEN BALANCING LAKE TP H420	3.2	N	17867285

ID	Location	Grid reference	Name	Length	Confidential	Web link
167	111m SE	489220 240430	M1 JUNCTION 14 TP13	-	Y	N/A
AJ	111m SW	489330 240690	BROOKLANDS MILTON KEYNES WS237	-	Y	N/A
AN	113m SE	489242 240455	PINEHAM HELIPORT N562	5.5	N	17860528
AO	115m SW	488860 240390	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B461	4.0	N	352705
168	115m SE	488490 240200	NORTHFIELD GRID SQUARE J100	7.0	N	353596
169	117m E	488430 240820	MILTON KEYNES SEWERAGE WORKS 204	10.0	N	353004
AP	117m S	489950 240469	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) TP 1233	3.0	N	353329
170	118m SE	489850 240440	BROOKLANDS MILTON KEYNES 211	-	Y	N/A
AL	118m W	488140 240880	BALANCING RESERVOIR (S341) B617	9.6	N	352722
171	119m W	488130 241000	BALANCING RESERVOIR (S341) B615	8.7	N	352720
172	121m SW	488030 241420	WILLEN TP L427	2.5	N	17758970
173	122m S	488950 240310	NORTHFIELD GRID SQUARE J98	7.0	N	353595
AL	122m W	488139 240860	WILLEN BALANCING LAKE TP H421	3.1	N	17867289
AN	122m SE	489250 240450	M1 JUNCTION 14 3	-	Y	N/A
174	122m S	488540 240910	MILTON KEYNES (SEWAGE WORKS) 15	11.54	N	352631
AP	124m S	489940 240460	M1MOTORWAY 206	9.1	N	353114
AL	126m W	488131 240889	WILLEN BALANCING LAKE TP H422	1.0	N	17867292
175	126m W	488100 241181	WILLEN GRID SQUARE S15	6.0	N	17758534
AQ	126m S	487810 241552	MK164	4.6	N	353526
AO	128m SW	488860 240370	NORTHFIELD GRID SQUARE B461	4.0	N	353582
AR	129m W	488100 240390	TONGWELL TRUNK SEWER MILTON KEYNES B403	8.1	N	352908
AQ	131m S	487808 241548	MILTON KEYNES MK77	4.57	N	352644
176	132m E	488660 240330	NORTHFIELD GRID SQUARE J95	5.0	N	353592
177	133m S	489060 240290	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E35	10.0	N	17873410
178	134m SW	488900 240320	NORTHFIELD GRID SQUARE E37	8.0	N	353589
AL	135m W	488120 240910	BALANCING RESERVOIR (S341) B616	16.7	N	352721
179	136m SW	488520 242480	GRAVEL BEDS NEWPORT PAGNELL	-2.0	N	353616

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180	137m W	487728 241964	M1 WIDENING J10-15 (GROUND INVESTIGATION J14-J15) 1625	10.0	N	353375
181	137m E	488500 240600	MILTON KEYNES SEWERAGE WORKS 203	9.0	N	353003
182	137m NW	488380 242270	CALDECOTE FARM NEWPORT PAGNELL 8	-	Y	N/A
183	138m NW	487680 241840	TONGWELL GRID SQUARE TP L358	3.2	N	17937789
184	138m W	488670 240830	MILTON KEYNES (SEWAGE WORKS) 14	7.62	N	352630
AL	139m W	488122 240861	WILLEN BALANCING RESERVOIR D955	9.5	N	353042
AR	141m W	488090 240410	TONGWELL TRUNK SEWER MILTON KEYNES B402	10.0	N	352907
AS	142m SW	487716 241576	WILLEN GRID SQUARE S22	9.0	N	17932880
AS	142m SW	487716 241576	WILLEN GRID SQUARE S.22	9.0	N	17861319
AT	146m SE	489190 240360	M1 JUNCTION 14 TP14	-	Y	N/A
185	146m SE	489290 240480	M1 JUNCTION 14 4	-	Y	N/A
186	148m E	488496 240658	MILTON KEYNES MK78D	6.27	N	352645
187	153m W	488150 240630	BALANCING RESERVOIR (S341) B620	10.5	N	352725
188	153m SE	489320 240530	M1 JUNCTION 14 TP8	-	Y	N/A
189	154m W	488087 241101	WILLEN GRID SQUARE S19	5.2	N	17877457
190	155m W	487650 241740	L.T.D PROJECT MILTON KEYNES TP 7	-	Y	N/A
191	157m W	488045 241301	WILLEN GRID SQUARE S9	7.0	N	17758529
192	158m S	488357 240136	MILTON KEYNES 89	7.0	N	353549
AT	158m SE	489210 240360	CITY ROAD H6 (V8-A50) BRIDGE SITES MILTON KEYNES D259	19.3	N	352995
AU	159m S	489037 240261	MILTON KEYNES ORDER NO E4 E35	-	Y	N/A
AR	161m W	488070 240410	TONGWELL TRUNK SEWER MILTON KEYNES B401	8.5	N	352906
AV	161m SE	489270 240410	M1 JUNCTION 14 2	-	Y	N/A
193	163m W	488086 241003	WILLEN - WOOLSTONE BALANCING RESERVOIR TP B680	2.5	N	17877451
AW	165m W	488080 241060	WILLEN-OUSE TUNNEL 104	9.91	N	352658
194	169m S	487800 241510	WILLEN L424	2.8	N	17720408
AX	170m W	488087 240890	WILLEN BALANCING LAKE TP H423	1.0	N	17867294
195	170m SE	488640 240240	NORTHFIELD GRID SQUARE J523	2.2	N	17698443

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AY	170m S	489090 240260	NORTHFIELD GRID SQUARE B453	10.0	N	353579
AY	170m S	489090 240260	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B453	10.0	N	352697
AZ	170m S	488580 240210	NORTHFIELD GRID SQUARE J101	25.3	N	17698439
AU	170m S	489040 240250	NORTHFIELD GRID SQUARE E35	10.0	N	353588
AV	171m SE	489286 240415	PINEHAM HELIPORT N563	5.5	N	17860530
AZ	171m SE	488570 240200	NORTHFIELD GRID SQUARE J101	25.3	N	353597
196	173m W	488080 240940	BALANCING RESERVOIR (S341) B611	9.5	N	352730
BA	173m W	488092 240832	WILLEN BALANCING LAKE TP H425	2.7	N	17867298
197	174m W	487630 241680	L.T.D PROJECT MILTON KEYNES TP 9	-	Y	N/A
198	175m SW	488850 240310	NORTHFIELD GRID SQUARE J97	5.0	N	353594
BB	175m E	488515 240691	MILTON KEYNES 87	7.0	N	353547
AX	175m W	488081 240896	WILLEN BALANCING RESERVOIR D954	9.0	N	353041
199	175m W	487640 241840	TONGWELL GRID SQUARE TP L357	3.2	N	17937788
200	175m SE	489200 240330	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B464	10.0	N	352708
201	176m SE	488540 240160	NORTHFIELD GRID SQUARE J525	2.6	N	17698445
AZ	176m S	488600 240210	NORTHFIELD GRID SQUARE J524	2.0	N	17698444
AW	177m W	488067 241073	BROOK FARM, WILLEN WILLEN - OUSE TUNNEL C104	9.9	N	17932881
AT	179m SE	489230 240350	CITY ROAD H6 (V8-A50) BRIDGE SITES MILTON KEYNES D260	20.0	N	352996
202	179m SW	487890 241450	WILLEN GRID SQUARE S. 3	5.1	N	17720409
203	181m S	489930 240400	BROOKLANDS MILTON KEYNES 201	-	Y	N/A
BC	183m SE	488670 240250	NORTHFIELD GRID SQUARE J522	2.4	N	17698442
204	183m N	488210 242230	MILTON KEYNES (SEWAGE WORKS) 8	6.09	N	352622
BA	185m W	488079 240841	WILLEN BALANCING LAKE TP H424	1.6	N	17867296
BB	185m E	488520 240710	MILTON KEYNES SEWERAGE WORKS 202	11.0	N	353002
205	187m W	488378 242727	MK179	2.7	N	353498
206	187m SW	489620 240420	BROOKLANDS MILTON KEYNES 115	-	Y	N/A
207	188m SE	489146 240271	MKV HARTIGAN-EXTRACTION PLANT AREA R230	9.0	N	353257

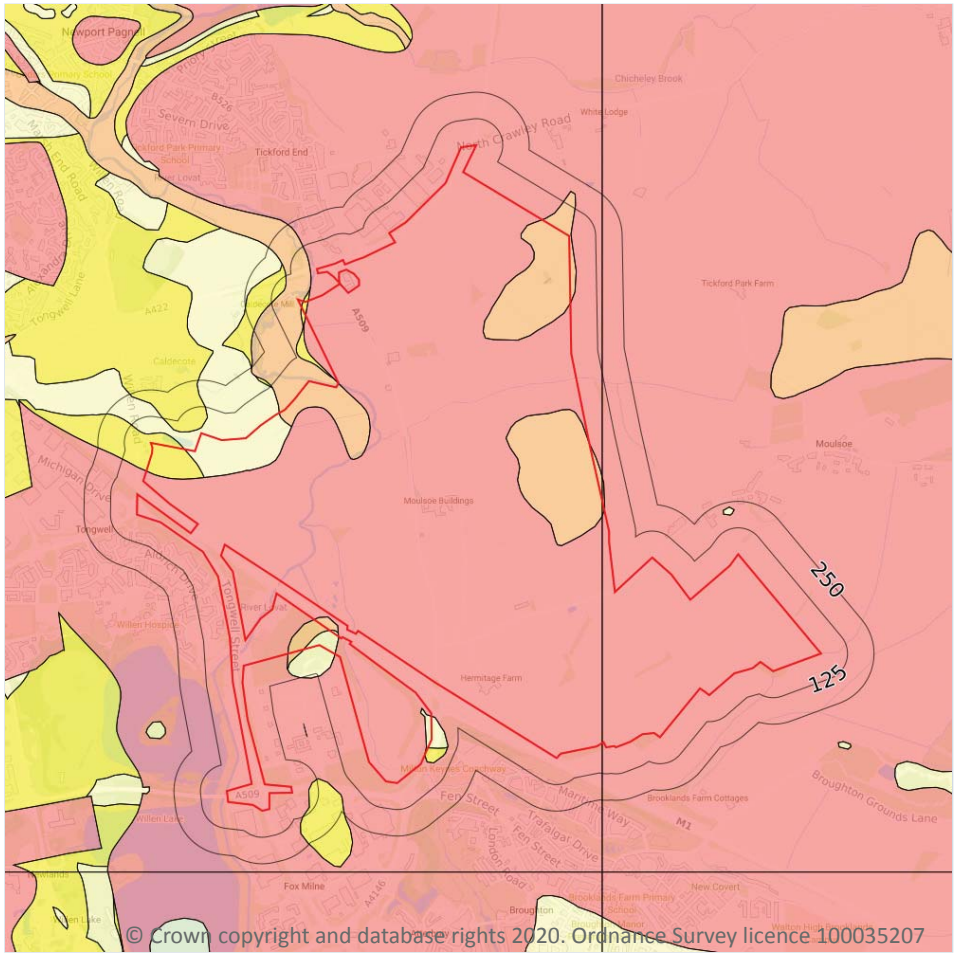
ID	Location	Grid reference	Name	Length	Confidential	Web link
208	189m S	488180 240150	BALANCING RESERVOIR (S341) B623	13.2	N	352728
209	191m S	489010 240230	NORTHFIELD GRID SQUARE J105	7.0	N	353601
BD	195m W	487610 241710	L.T.D PROJECT MILTON KEYNES TP 8	-	Y	N/A
210	195m NW	488050 240460	BALANCING RESERVOIR (S341) B612	7.0	N	352718
BE	195m SW	487950 241389	WILLEN GRID SQUARE S5	5.4	N	17862641
BF	196m NW	487642 241892	TONGWELL GRID SQUARE TP L355	3.0	N	17897876
BG	197m SW	488760 240380	NORTHFIELD GRID SQUARE B462	4.0	N	353583
BG	198m SW	488750 240390	CITY ROAD H6 (V8 TO A50) MILTON KEYNES B462	4.0	N	352706
211	198m S	490103 240395	M1 WIDENING J10-15 (GROUND INVESTIGATION J12-J14) TP 1232	3.0	N	361933
212	198m SW	487919 241407	WILLEN SITE4/5 MILTON KEYNES TP V209	2.8	N	17862659
213	198m S	489103 240235	BROUGHTON LANDFILL GAS MONITORING WELLS MILTON KEYNES MK2401	5.3	N	17701004
214	199m W	488030 240390	TONGWELL TRUNK SEWER MILTON KEYNES B400	8.5	N	352905
215	201m W	488680 240560	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E38	11.0	N	17873433
216	201m SE	489296 240379	PINEHAM HELIPORT N575	5.0	N	17860531
BC	204m SE	488690 240240	NORTHFIELD GRID SQUARE J102	5.0	N	353598
217	205m NW	488301 242297	MK161	3.7	N	353492
218	205m W	487600 241760	L.T.D PROJECT MILTON KEYNES TP 15	-	Y	N/A
219	209m NW	488000 242250	CALDECOTE FARM NEWPORT PAGNELL 1	-	Y	N/A
BE	211m SW	487932 241382	WILLEN SITE4/5 MILTON KEYNES TP V210	2.8	N	17862661
220	212m W	487606 241855	TONGWELL GRID SQUARE TP L356	2.8	N	17897877
BH	213m SW	487871 241422	WILLEN SITE4/5 MILTON KEYNES TP V208	3.05	N	17862657
BD	214m W	487590 241680	L.T.D PROJECT MILTON KEYNES TP 12	-	Y	N/A
BD	214m W	487590 241700	TONGWELL GRID SQUARE K500	5.0	N	17937784
BI	215m N	488220 242260	CALDECOTE FARM NEWPORT PAGNELL 5	-	Y	N/A
221	216m W	488070 240720	WILLEN BALANCING LAKE MILTON KEYNES D366	3.0	N	352766
222	217m NE	488640 240590	MILTON KEYNES SEWERAGE WORKS 201	13.0	N	353001
BF	218m NW	487623 241902	TONGWELL 3C TP R174	2.2	N	17897919

ID	Location	Grid reference	Name	Length	Confidential	Web link
BI	218m N	488230 242260	COTTON VALLEY PURIFICATION WORKS 302	18.0	N	353009
223	219m W	487590 241640	L.T.D PROJECT MILTON KEYNES TP 10	-	Y	N/A
224	220m W	488002 241191	WILLEN GRID SQUARE S14	5.0	N	17877454
BF	222m NW	487612 241891	TONGWELL 3C TP R175	2.4	N	17897920
225	222m SW	487600 241600	TONGWELL GRID SQUARE K501	7.0	N	17759091
226	223m SE	489370 240470	M1 JUNCTION 14 TP28	-	Y	N/A
BH	225m SW	487848 241424	WILLEN SITE4/5 MILTON KEYNES TP V207	2.9	N	17862655
BJ	225m SW	487702 241486	WILLEN GRID SQUARE S25	7.0	N	17759093
227	225m NW	487740 242210	CALDECOTE FARM NEWPORT PAGNELL 15	-	Y	N/A
228	226m W	488006 240418	WILLEN BALANCING LAKE TP H368	2.0	N	17866878
229	226m W	487580 241800	TONGWELL GRID SQUARE K499	5.0	N	17896235
230	227m S	489082 240199	MKV HARTIGAN-EXTRACTION PLANT AREA R229	7.0	N	353256
BF	227m NW	487600 241880	TONGWELL 3C TP R176	2.4	N	17897921
231	228m SW	488770 240320	NORTHFIELD GRID SQUARE J96	7.0	N	353593
232	229m W	488025 240932	WILLEN BALANCING RESERVOIR D953	9.0	N	353040
BK	230m S	489980 240360	BROOKLANDS MILTON KEYNES WS221	-	Y	N/A
BK	230m S	489980 240360	BROOKLANDS MILTON KEYNES WS221	-	Y	N/A
233	230m SW	488300 240080	NORTHFIELD INDUSTRIAL ENQUIRY E23	60.7	N	17507577
234	231m SE	489240 240291	BROUGHTON LANDFILL GAS MONITORING WELLS MILTON KEYNES MK2441	5.1	N	17701015
235	231m SW	488860 240230	NORTHFIELD GRID SQUARE J104	7.0	N	353600
236	231m SE	488550 240100	NORTHFIELD AFU SITE K180	5.0	N	17746086
237	232m W	488050 240740	WILLEN-OUSE TUNNEL 103	9.6	N	352657
BJ	232m SW	487700 241480	WILLEN GRID SQUARE S.25	7.0	N	17720410
238	235m S	488270 240090	PINEHAM MAIN DRAINAGE SCHEME - PHASE 1 S744 E23	7.5	N	17873395
239	235m W	487570 241770	L.T.D PROJECT MILTON KEYNES TP 6	-	Y	N/A
240	236m S	488920 240200	NORTHFIELD GRID SQUARE J110	5.0	N	353606
241	236m W	488005 240457	WILLEN BALANCING LAKE TP H367	1.3	N	17866877

ID	Location	Grid reference	Name	Length	Confidential	Web link
242	236m SE	488670 240180	COCA COLA FACTORY SITE NORTHFIELD J473	3.3	N	17507529
243	237m W	488000 240300	BARROW PIT H6 MILTON KEYNES D294	4.5	N	352859
BF	237m NW	487600 241901	TONGWELL GRID SQUARE K498	7.0	N	17897869
244	237m W	487576 241842	TONGWELL 3C TP R177	2.3	N	17897922
245	237m SE	489181 240235	BROUGHTON LANDFILL GAS MONITORING WELLS MILTON KEYNES MK2402	5.1	N	17701005
246	239m SE	488600 240130	NORTHFIELD AFU SITE K179	5.0	N	17746085
247	239m W	488002 241090	WILLEN GRID SQUARE S18	5.0	N	17877455
BF	244m W	487603 241924	TONGWELL 3C TP R173	2.4	N	17897918
248	245m SW	487896 241366	WILLEN SITE 4/5 MILTON KEYNES TP L428	2.6	N	17862630
249	249m NW	488330 242370	CALDECOTE FARM NEWPORT PAGNELL 9	-	Y	N/A
250	250m S	490040 240340	BROOKLANDS MILTON KEYNES TP212	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	5

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).

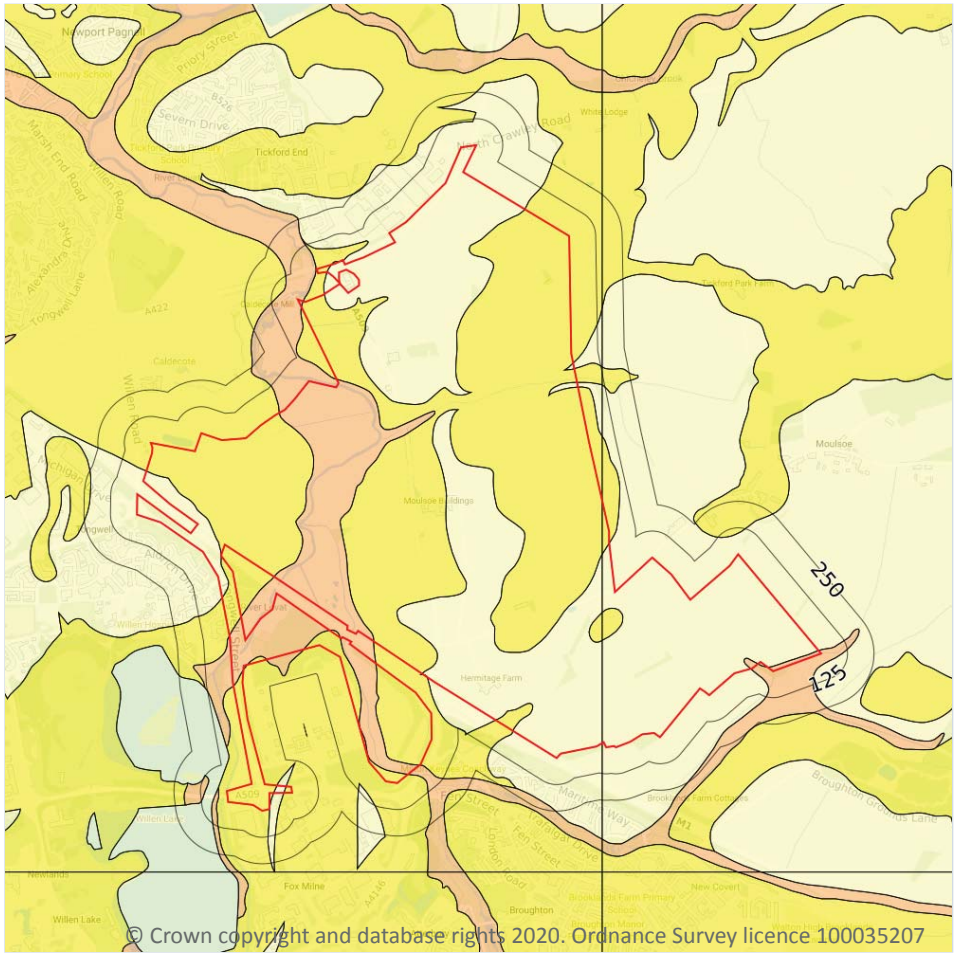
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 199**

Location	Hazard rating	Details
On site	**Negligible**	**Ground conditions predominantly non-plastic.**
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

Location	Hazard rating	Details
On site	**Moderate**	**Ground conditions predominantly high plasticity.**
24m NW	Very low	Ground conditions predominantly low plasticity.

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	**5**

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.

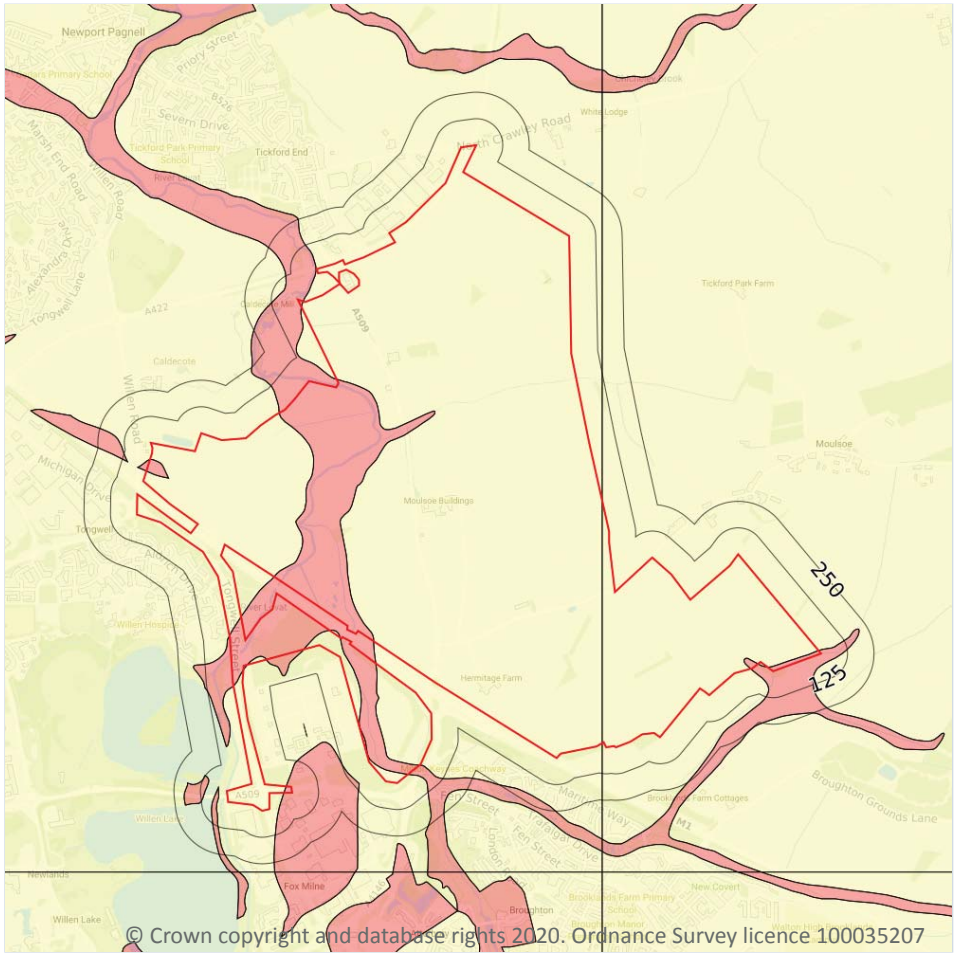
Features are displayed on the Natural ground subsidence - Running sands map on **page 201**

Location	Hazard rating	Details
On site	**Negligible**	**Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.**

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.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**
40m W	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
44m W	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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	3

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.

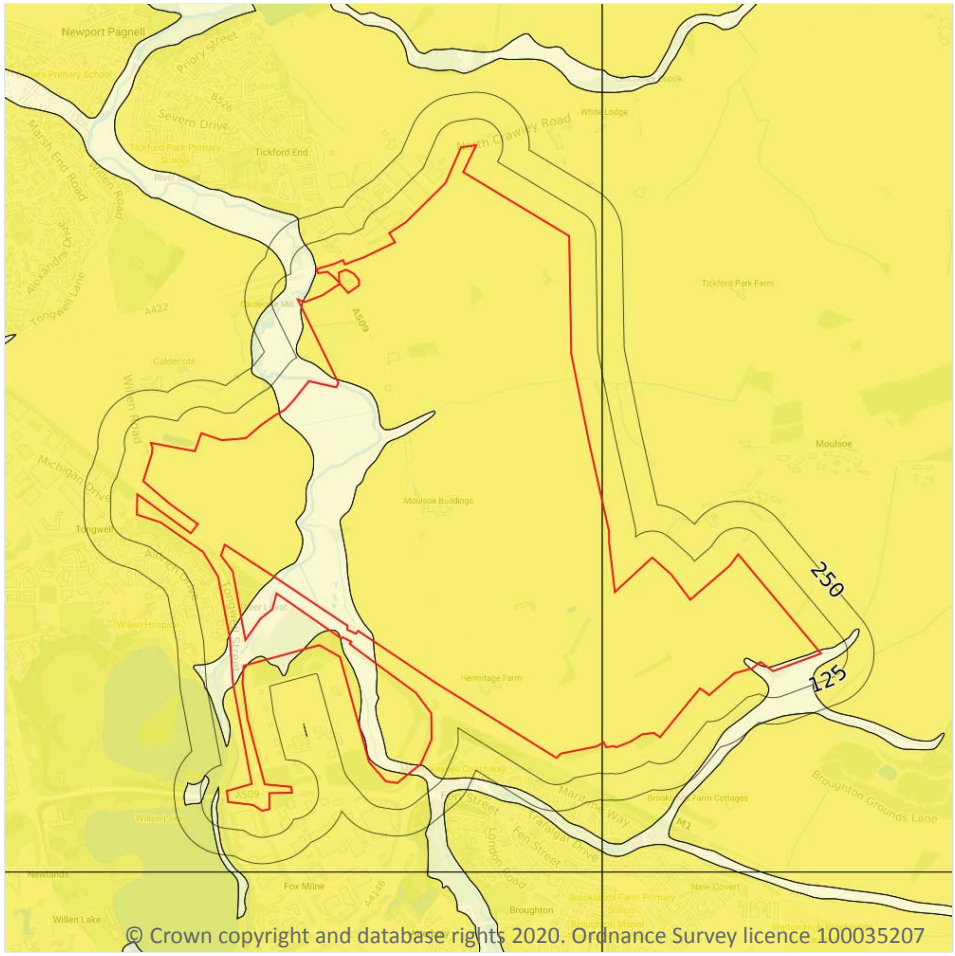
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 203**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
On site	**Moderate**	**Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.**

Location	Hazard rating	Details
40m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

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	3

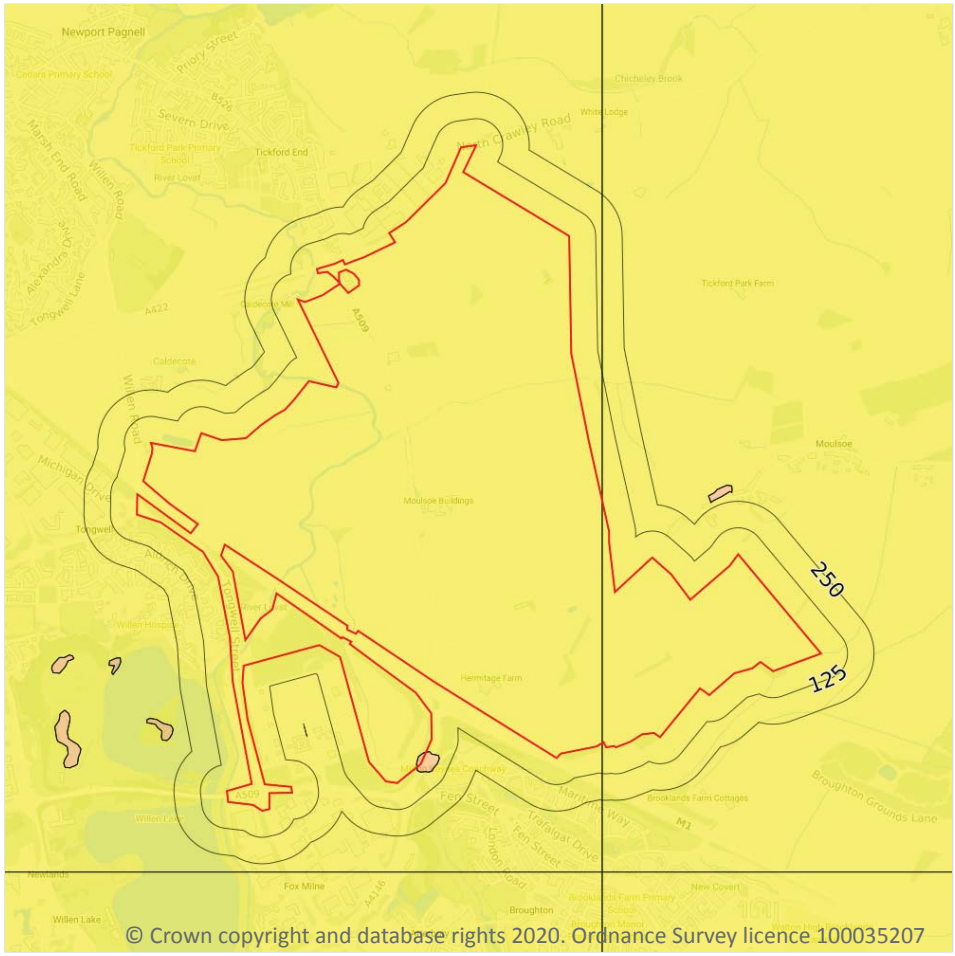
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 205**

Location	Hazard rating	Details
On site	**Negligible**	**Deposits with potential to collapse when loaded and saturated are believed not to be present.**
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**
40m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not 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	2

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.

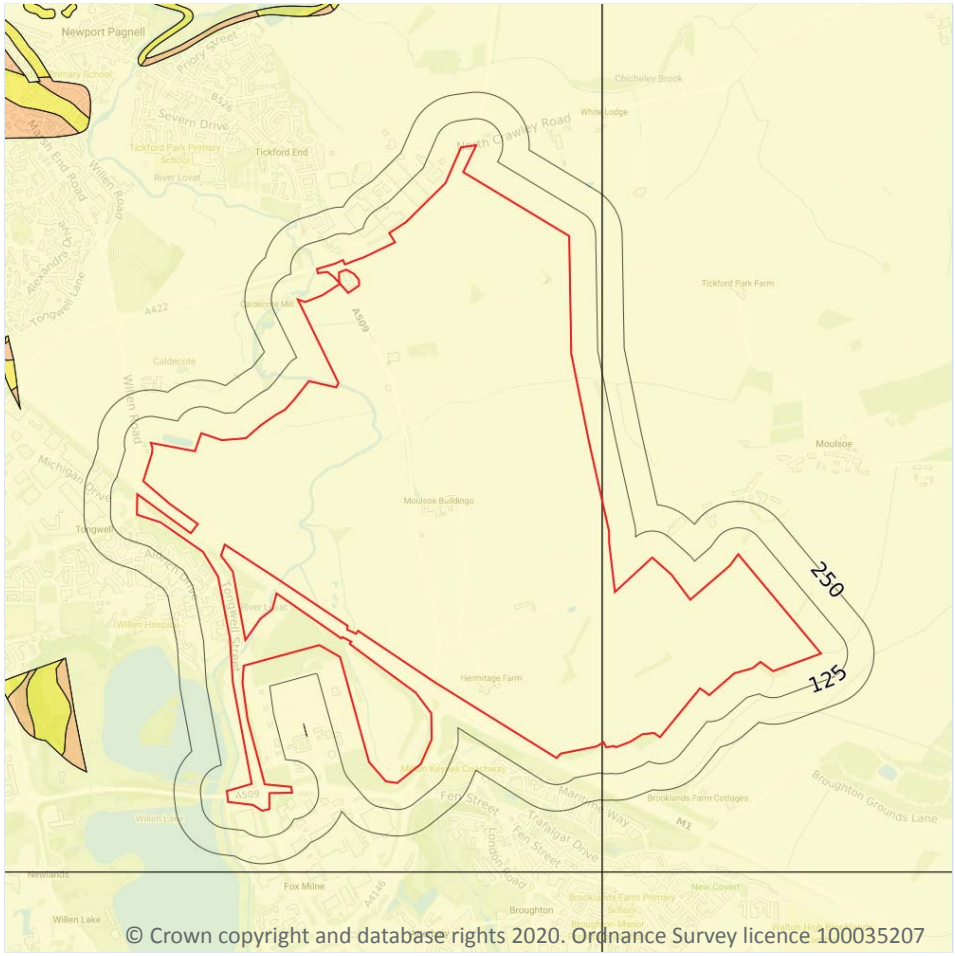
Features are displayed on the Natural ground subsidence - Landslides map on **page 207**

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.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

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

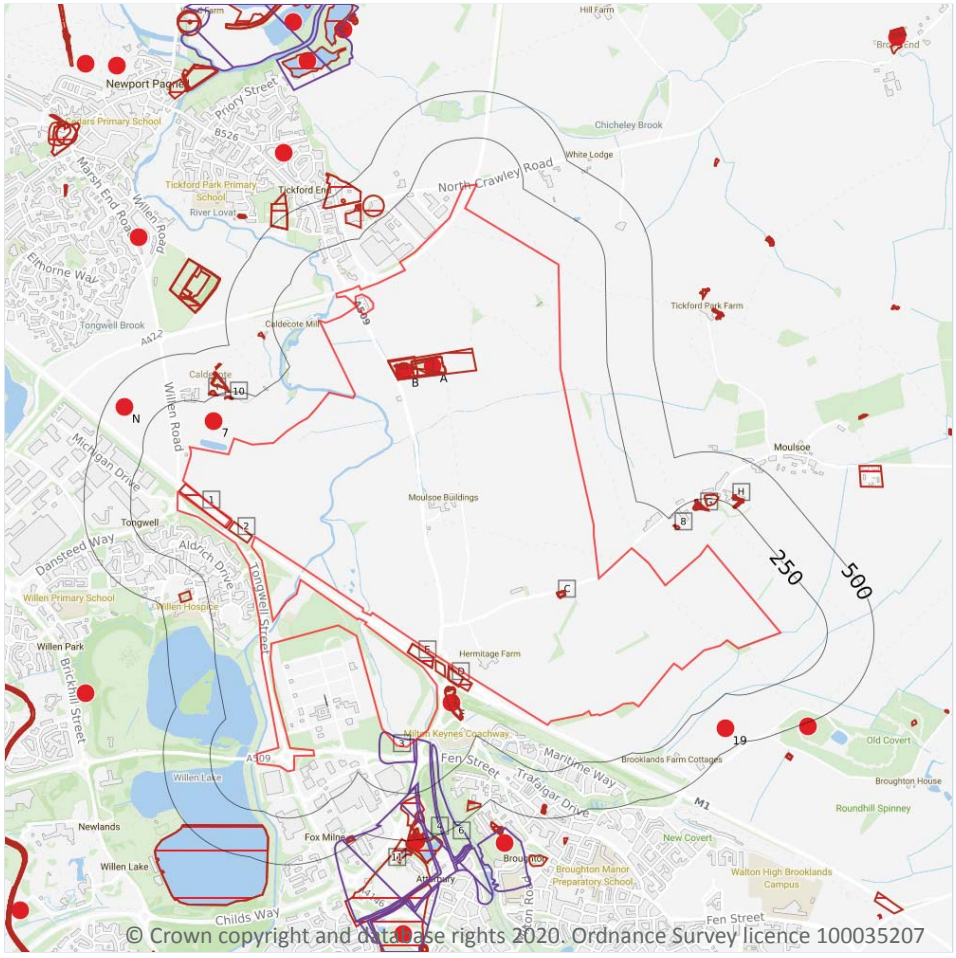
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 209**

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



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	7

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 211**

ID	Location	Details	Description
A	**On site**	**Name: London Road Brick Field Address: Newport Stables, NEWPORT PAGNELL, Buckinghamshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority**
B	**On site**	**Name: London Road Brick Field Address: Newport Stables, NEWPORT PAGNELL, Buckinghamshire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site**	**Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority**
F	74m E	Name: Cottage Farm Gravel Pit Address: Broughton, MILTON KEYNES, Buckinghamshire Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
7	142m NW	Name: Willen Road Quarry Address: Newport Pagnell, MILTON KEYNES, Buckinghamshire Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Active Status description: Site which is actively extracting mineral products, or in the case of wharfs and rail depots, is actively handing minerals
19	390m SE	Name: Broughton Barns Quarry Address: Broughton, MILTON KEYNES, Buckinghamshire Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Inactive Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator.May be considered to have Active or Dormant planning permission

ID	Location	Details	Description
N	410m NW	Name: Willen Road Quarry Address: Newport Pagnell, MILTON KEYNES, Buckinghamshire Commodity: Sand & Gravel Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Inactive Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator.May be considered to have Active or Dormant planning permission
N	410m NW	Name: Willen Road Quarry Address: Newport Pagnell, MILTON KEYNES, Buckinghamshire Commodity: Secondary Status: Recycled material, construction and demolition materials recovered for use as secondary aggregates	Type: Inactive Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator.May be considered to have Active or Dormant planning permission

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m **47**

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 211**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1963**	**1:10560**
2	**On site**	**Cuttings**	**1963**	**1:10560**
A	**On site**	**Unspecified Pit**	**1950**	**1:10560**
A	**On site**	**Unspecified Pit**	**1924**	**1:10560**
A	**On site**	**Unspecified Pit**	**1899**	**1:10560**
A	**On site**	**Brick Works**	**1899**	**1:10560**
A	**On site**	**Unspecified Pit**	**1963**	**1:10560**
B	**On site**	**Pond**	**1899**	**1:10560**
B	**On site**	**Refuse Heap**	**1882**	**1:10560**
B	**On site**	**Brick Field**	**1882**	**1:10560**
B	**On site**	**Brick Kilns**	**1882**	**1:10560**
C	**On site**	**Pond**	**1950**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
C	**On site**	**Pond**	**1950**	**1:10560**
C	**On site**	**Pond**	**1924**	**1:10560**
C	**On site**	**Pond**	**1899**	**1:10560**
C	**On site**	**Pond**	**1899**	**1:10560**
C	**On site**	**Pond**	**1963**	**1:10560**
C	**On site**	**Pond**	**1971**	**1:10000**
C	**On site**	**Pond**	**1882**	**1:10560**
D	11m SW	Cuttings	1971	1:10000
E	16m SW	Cuttings	1963	1:10560
E	16m SW	Cuttings	1971	1:10000
D	20m SW	Cuttings	1963	1:10560
5	21m SW	Cuttings	1963	1:10560
F	44m E	Unspecified Pit	1950	1:10560
F	44m E	Unspecified Pit	1924	1:10560
F	44m E	Old Gravel Pit	1899	1:10560
F	45m E	Refuse Heap	1882	1:10560
F	46m E	Old Gravel Pit	1950	1:10560
F	46m E	Old Gravel Pit	1899	1:10560
8	176m NW	Pond	1950	1:10560
G	186m N	Refuse Heap	1882	1:10560
G	188m N	Unspecified Ground Workings	1950	1:10560
G	188m N	Unspecified Ground Workings	1924	1:10560
G	189m N	Unspecified Pit	1967	1:10560
9	210m N	Grave Yard	1882	1:10560
10	211m N	Pond	1882	1:10560
G	219m N	Unspecified Ground Workings	1950	1:10560
G	219m N	Unspecified Ground Workings	1899	1:10560
H	245m NE	Pond	1882	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
H	248m NE	Ponds	1967	1:10560
H	248m NE	Pond	1982	1:10000
I	249m N	Pond	1963	1:10560
I	249m N	Pond	1971	1:10000
I	249m NW	Pond	1882	1:10560
H	250m NE	Pond	1950	1:10560
H	250m NE	Pond	1899	1:10560

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

18.5 Historical Mineral Planning Areas

Records within 500m	**4**

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 211**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
3	**On site**	**Broughton Flyover**	**Sand and gravel**	**Surface mineral working**	**Valid**	**14/9/64**
4	1m SE	Broughton Flyover	Sand and gravel	Surface mineral working	Refused	12/7/44
6	77m SE	Broughton Flyover	Sand and gravel	Surface mineral working	Valid	14/9/64
11	223m S	Broughton Flyover	Sand and gravel	Surface mineral working	Valid	12/7/44

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.

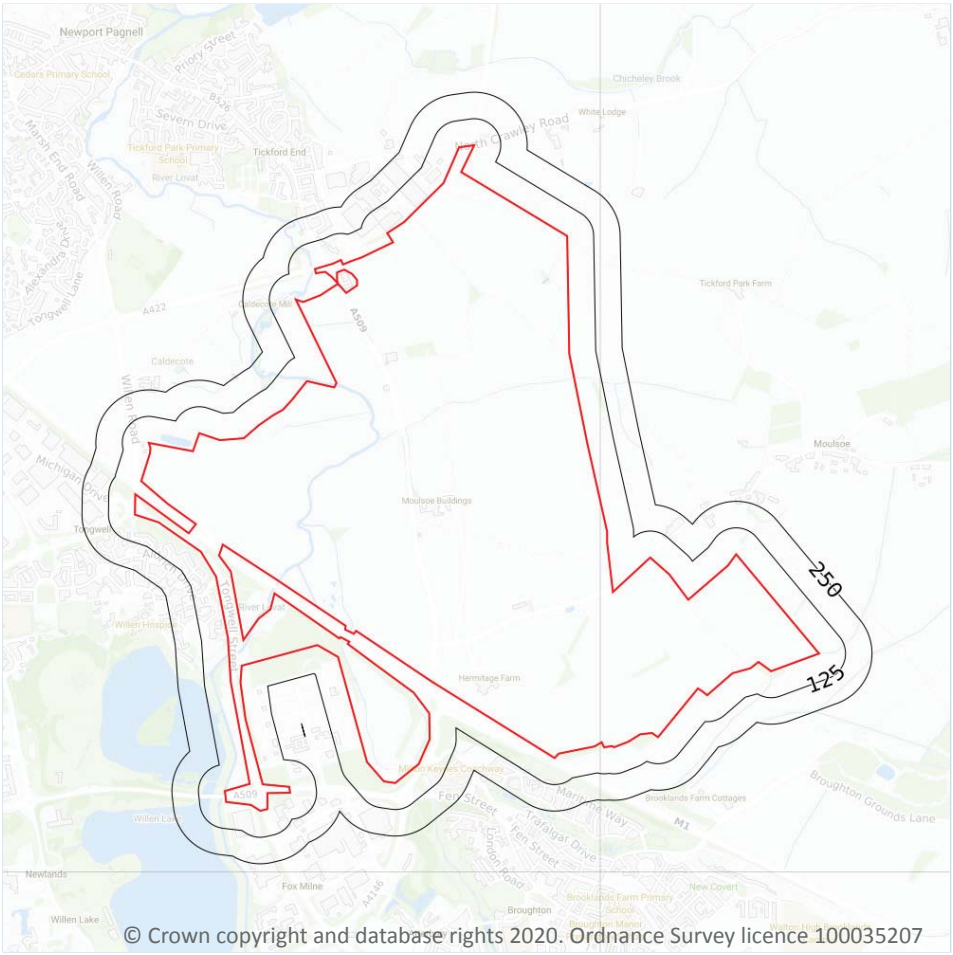
18.13 Clay mining

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 218**

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 **167**

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 km^2. 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 km^2; 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 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
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On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
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On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
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On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
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On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
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On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
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On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
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On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**30 - 45 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
6m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
6m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
9m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
11m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
18m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
18m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
25m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
25m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
30m SW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m NW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
41m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
42m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
42m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
45m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 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 km^2).

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 km^2.

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

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	0

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.

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	0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0

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

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.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: https://www.groundsure.com/terms-and-conditions-jan-2020/.

Appendix F

THIRD PARTY INFORMATION

Gillan, Ashley

From: Gillan, Ashley
Sent: 03 March 2021 14:18
To: Lindsay, Roisin
Subject: FW: Contaminated land enquiry for planning - MKE

From: Adshead, Nicola <Nicola.Adshead@Milton-keynes.gov.uk>
Sent: 09 September 2020 06:26 PM
To: Gillan, Ashley [redacted]>
Subject: FW: Contaminated land enquiry for planning - MKE

Dear Ashley

Sorry for the delay in replying to your email, it was forwarded to an inbox that we don't regularly use but I will be monitoring it more closely in future.

I'm not sure where the site is exactly but normally we are able to provide the information requested, however, we do make a charge of £188.90 per hour (or part thereof) and I anticipate that it would take an hour to deal with your request. We are able to raise an invoice once the information has been provided. Please confirm that you wish to proceed with your enquiry on this basis. If you do wish to proceed please let me know if there is a purchase order number you would like me to include on the invoice.

I look forward to hearing from you.

Kind regards

Nicola

Nicola Adshead
Practitioner – Environmental Health
01908 252097
Milton Keynes Council | Environment and Property | Public Realm | Civic Offices | 1 Saxon Gate East | Milton Keynes | MK9 3EJ
www.milton-keynes.gov.uk/environmental-health

From: Adshead, Nicola <Nicola.Adshead@Milton-keynes.gov.uk> **On Behalf Of** Contaminated Land
Sent: 03 September 2020 08:50
To: Adshead, Nicola <Nicola.Adshead@Milton-keynes.gov.uk>
Subject: FW: Contaminated land enquiry for planning - MKE

Nicola Adshead
Practitioner – Environmental Health
01908 252097
Milton Keynes Council | Environment and Property | Public Realm | Civic Offices | 1 Saxon Gate East | Milton Keynes | MK9 3EJ
www.milton-keynes.gov.uk/environmental-health

From: Potter, Geoffrey **On Behalf Of** Planning Enquiries
Sent: 18 August 2020 14:38
To: Contaminated Land
Subject: FW: Contaminated land enquiry for planning - MKE

From: Gillan, Ashley <[redacted]>
Sent: 23 July 2020 10:14
To: Customer Services <customerservices@milton-keynes.gov.uk>
Subject: [EXT] Contaminated land enquiry for planning - MKE

Good morning,

We are currently undertaking environmental consultancy work on a site in Milton Keynes known as Milton Keynes East. I am hoping to make a data enquiry for the site for numerous contaminated land aspects. Who might be best for me to contact?

I would like to ask if any pertinent records are held on your database regarding the site including:
• Any environmental issues associated with the site, specifically related to contamination of soil or groundwater either beneath the site or within a 500m radius
• Water quality records / issues within 1km of the site
• Presence of above ground storage tanks/gas meters on adjacent sites and any spills or leaks associated with these
• Any records of landfill or waste transfer activities within 500m of the site
• Any soil or groundwater remedial works carried out at the site or within 500m of the site

Any queries on the above please do let me know.

Thank you for your help,

Ashley

Ashley Gillan *BSc (Hons) MSc AMIEnvSc*
Assistant Geo-Environmental Consultant

[redacted]

6 Devonshire Square, London, EC2M 4YE

wsp.com

-LAEmHhHzdJzBITWfa4Hgs7pbKI

Visit the Milton Keynes Council web site at https://www.milton-keynes.gov.uk

Any personal data will be processed in line with the Data Protection legislation, further details at https://www.milton-keynes.gov.uk/privacy

Please consider the environment and don't print this email unless you really need to

Gillan, Ashley

From: Nicola Adshead <Nicola.Adshead@Milton-keynes.gov.uk>
Sent: 10 March 2021 16:25
To: Gillan, Ashley
Subject: RE: Contaminated land enquiry for planning - MKE
Attachments: U002158 Cotton Valley Sewage Works Notice 2.doc; U002157 Cotton Valley Sewage Works Notice 1.doc; MKEast.jpg

Dear Ashley,

Further to your enquiry a search of our records reveals the following:

- No areas of the site, or within 500 metres of the site, have been determined as contaminated land as defined under Part 2A of the Environmental Protection Act 1990. We currently have no evidence to suggest that the site could be determined as contaminated land. No areas of the site have been identified for inspection as part of Milton Keynes Council's contaminated land inspection strategy. Within 500 metres of the site there are 3 Industrial Estates, site A, B and C on the attached map. We have no reason to believe that the sites are not suitable for their current use and have no evidence to suggest they could impact on the site in question.
  Site D on the attached map is the current Anglian Water, Water Recycling centre, Cottonvalley WRC. In June 2010 two statutory nuisance notices were issued under the Environmental Protection Act 2010 in respect of odours from the site. Significant investment was made by Anglian Water to comply with the notices and improve the sewage treatment, with the installation of a heat treatment, Cambi plant. The untreated sewage sludge is no longer kept in lagoons, unless in an emergency. We still receive a handful of complaints each year regarding odour, but none have constituted a significant pollution incident or breach of the notices. Environmental Health has regular liaison meetings with them and other community stakeholders. I have attached copies of the notice for your information.

- Unfortunately we do not hold water quality records, you may wish to refer to the Environment Agency in this regard.

- We are not aware of any leaks or spills from tanks at the site of adjacent to the site but we have the following records regarding tanks within the site boundary:

  Site E and F on the attached map are records of septic tank, I understand these properties are not on the mains sewage and the tanks are likely to be underground.
  Site G; an application was made on 1950 for petrol tank, but we have no record of a corresponding petroleum licence record. Therefore, it is likely that the tank wasn't installed or was not operational for long.
  Site H is a record of a tank from the historical map, but it was concluded that this was most likely for water.
  Site I on the attached map, Hermitage Farm, held petroleum licence record for a 500 gallon petroleum tank. This was converted to diesel in 1995. Unfortunately I cannot determine from my records if the tank is under or above ground or if it is still operational.
  We are no aware of any heating oil leaks associated with nay of the properties on the site.

- Site J on the attached map is a Community Recycling Centre, operated on behalf of Milton Keynes Council.

  We have no record of any licensed landfills within the site boundary or within 500 metres, however there are areas of fill that pre date the 1974 Control of pollution Act and subsequent waste management licences.

  Site K is a former 'borrow pit'. We have no further records of what the site was subsequently filled with.

Site L is recorded on the historical map as a Landfill, probably for inert wate associated with the construction of the motorway junction. Site investigations associated with the Coachway did not reveal anything other than inert fill.
Sites M and N are sand and gravel extraction sites, site M has been reinstated and site N is still active. Their reinstatement is subject to planning conditions.
Site O is recorded on the historical map (c1880-1925) as a mineral workings. We have no record of what the site was filled with.

- We have no record of any ground water contamination that has required remediation at the site or in the vicinity of the site. There are small sites that have had minor contamination that has required remediation in order to satisfy planning conditions following a change of use.
  Site P on the attached map required the removal of made ground and introduction of topsoil in garden areas, when the farm was developed to residential. We have no concerns regarding an impact on the site in question.
  Site Q, similarly to site P, required the removal of made ground due to PAH contamination and introduction of topsoil in garden areas, when the farm was developed to residential.

I hope the above information is useful, please do not hesitate to contact me if I can be of further assistance. An invoice in the sum of £188.90 will be forwarded to you shortly.

Some or all of the information in this report may have been gathered from third party sources. Whilst all reasonable care has been taken in the provision of this information to ensure accuracy, all information is supplied on the understanding that the Council does not warrant the accuracy of such information, and on the basis that neither the Council nor any officer, servant or agent of the Council is legally responsible, either in contract or in tort for any inaccuracies, errors or omissions therein contained whether arising from inadvertence or from any cause whatsoever.

Yours sincerely

Nicola

Nicola Adshead
Practitioner – Environmental Health
01908 252097
Milton Keynes Council | Environment and Property | Public Realm | Civic Offices | 1 Saxon Gate East | Milton Keynes | MK9 3EJ
www.milton-keynes.gov.uk/environmental-health

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Good morning,

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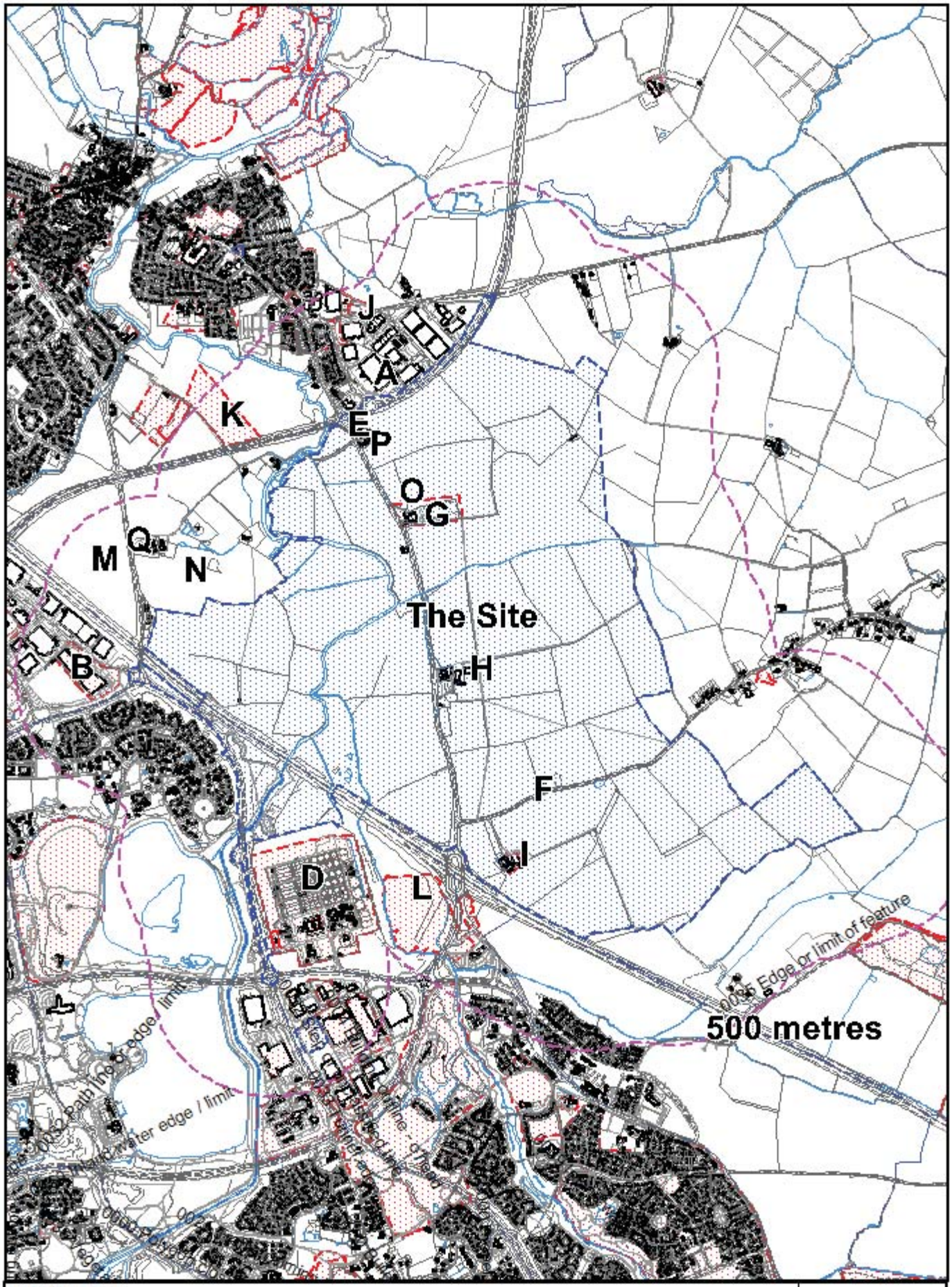

MK East
Newport Road
Between Newport Pagnell and Moulsoe

N

10th March 2021 Ref: R631554

Scale 1: 23000

Gillan, Ashley

Subject: FW: Pre-desk study request

Good afternoon Roisin

Please find the PDSA below as requested. Any further queries, don't hesitate to contact us.

Pre-Desk Study Assessment	
Site:	Land southeast of Newport Pagnell, Milton Keynes, Buckinghamshire
Client:	WSP
Contact:	Roisin Lindsay
Date:	18th November 2020
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: ■ Transport infrastructure and public utilities. ■ Industries important to the war effort, including engineering works. ■ Royal Air Force (RAF) Cranfield. ■ Military depots. ■ Anti-Aircraft (AA) and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	None.
WWII Bombing	During WWII the Site straddled the boundary between the Urban District (UD) of Newport Pagnell and the Rural District (RD) of Newport Pagnell. Newport Pagnell UD officially recorded 9No. High Explosive (HE) bombs with a bombing density of 2.6 bombs per 405 hectares (ha). Newport Pagnell RD officially recorded 163No. HE bombs with a bombing density of 2.6 bombs per 405 ha. No readily available records have been found to indicate that the Site was bombed.
Post-WWII Military Activity on or Affecting the Site	None identified.

Recommendation	A detailed desk study, whilst always prudent, is not considered essential in this instance.

This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.

It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.

Many thanks

Joe

Joe Lingard
Risk Assessor
Zetica Limited

Zetica House, Southfield Road, Eynsham, Oxfordshire, OX29 4JB

[redacted] | **W.** www.zeticauxo.com | **T.** @ZeticaUXO

4th Floor
6 Devonshire Square
London
EC2M 4YE

wsp.com

Appendix 11
Preliminary Risk Assessment

Appendix E2
Plans

Appendix E3
Photographs

Appendix E4
Verified Visual Montages (VVM's)