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# Desk Study




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## University Academy Long Sutton

for

**Department for Education**

Engineer : Mott MacDonald

**Project Number PC228532**

**December 2022**

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Ground Investigation
at

Desk Study

**University Academy Long Sutton**

for
Department for Education

Engineer :
Mott MacDonald

**Project No:**
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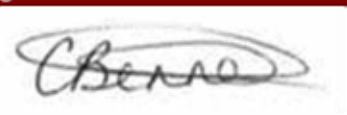
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# 1.0 INTRODUCTION AND CLIENT'S BRIEF

This Phase I Desk Study was carried out to the instruction of the Engineer, Mott MacDonald Limited, on behalf of the Client, The Department for Education. The purpose of the Desk Study is to provide a geotechnical and geoenvironmental assessment of the site to facilitate the proposed redevelopment of University Academy Long Sutton, Spalding. The site comprises a combined primary and secondary school with associated infrastructure, leisure centre, sports fields and open space.

There are multiple options being considered by the Client and Engineer for the proposed redevelopment. The locations for the proposed rebuilds are summarised in the Site Layout Plan in Appendix 1 and in the figure below. These can be summarised as the following:

- Block EFAA will most likely be demolished and rebuilt.
- Block EFAB/EFAC (temporary structure) will most likely be demolished and rebuilt.
- Block EFAD will most likely involve some minor refurbishment. However, there is potential for demolition and rebuild.
- Peele Leisure Centre will remain in place with the possibility of an extension and some minor internal remodelling works.
- Rainbow Nursery will either remain at the current location or rebuild in another area of site.

This report will primarily provide an assessment in relation to the options involving construction of new structures, as instructed by the Engineer.

Further details of the site's layout are presented in Appendix 1.

## Site Proposals




The above image is taken from the 'Possible build locations' plan contained within Appendix 1. The full plan in Appendix 1 shows the building labels of EFAA, EFAB, EFAC and EFAD. The three development areas proposed are labelled as A to C and will be referred to as Area A, Area B and Area C throughout this report. The area marked as Area D is no longer being considered.

This report comprises a geoenvironmental and geotechnical Site Survey undertaken in accordance with Stage 1 of RIBA Plan of Work 2020 Overview. It is intended to be used by the developer to aid in the later Stages of the design and construction of the proposed development. In addition, this report has been devised to generally comply with the relevant principles and requirements of a range of guidance including:

- Part IIA of the Environment Protection Act, 1990;
- Contaminated Land (England) (Amendment) Regulations 2012 and Contaminated Land Statutory Guidance (DEFRA, April 2012);
- National Planning Policy Framework (HCA, July 2021);
- BS EN 1997-1:2004+A1:2013: "Eurocode 7. Geotechnical Design"
- BS5930:2015+A1:2020: "Code of Practice for Ground Investigations";
- BS10175: 2011 +A2:2017 "Investigation of Potentially Contaminated Sites - Code of Practice";
- The Building Regulations 2010. Part C (HM Government 2013);
- Environment Agency (2020) "Land Contamination Risk Management";
- Environment Agency (2011) Report GPLC1 "Guiding Principles for Land Contamination";
- Environment Agency (2017) "The Environment Agency's Approach to Groundwater Protection" November 2017 Version 1.1; and
- Sustainable Remediation Forum UK (SuRF) Framework

# 2.0 THE SITE

## Site Location

A Site Location Plan and Site Boundary plan can be found in Appendix 1 and the site location is summarised in the table below.

| | |
|---|---|
| Location | University Academy Long Sutton,<br>84 Little London, Long Sutton, Spalding, Lincolnshire |
| Grid Reference | TF 43828 23947 |
| Post Code | PE12 9LF |
| Site Area | Approximately 9.0 hectares |
| Site Shape | The site is approximately rectangular in shape with maximum extents of approximately 278m northwest to southeast and 378m northeast to southwest. |
| Topography | The site is generally flat with local undulations. The field in the eastern part of the site is at a level of between about 4.0-5.5mOD. Around the school buildings in the western area, the ground level is approximately 4.0-6.0mOD.<br><br>The surrounding land is all at a similar elevation. |

## Site Description

A site visit was undertaken on 3rd November 2022. A summary of observations made is presented in the table below and photographs are presented in Appendix 2. The observations refer to the external areas of site, unless specified otherwise. A Site Layout Plan is shown in Appendix 1 to which reference will be made for the relative locations of buildings, structures and other features at the site.

| | |
|---|---|
| Current Use | The site boundary encompasses:<br>• A combined primary and secondary education facility - University Academy Long Sutton (Locations 3, 4 and 5)<br>• A pre-school - Rainbow Nursery (Location 6)<br>• A leisure centre - Peele Leisure Centre (Location 7) |
| Access | There are three access points to the site, all off the road named 'Little London' along the western boundary (Locations 1a, 1b and 1c). All are suitable for both pedestrian and vehicle access. The most southern of the three access points is gated. |
| Existing Buildings & Structures | The majority of the site features single-storey buildings. At Location 9 is a three-storey block joined to the main building. To the north and west of Location 23, the building is two-storey. A hall of two-storeys in height is joined to the east of the main school building. The leisure centre is one to two storeys in height, containing a hall which is two-storeys in height.<br><br>The main building (labelled in the Mott MacDonald site plan as EFAA and on the site layout plan as Location 3) is located in the western half of the site. The building contains 3 boiler rooms at Locations 8a, 8b and 8c which are discussed below. A courtyard is present in the centre of the building and contains a rain shelter (Location 18) and 2 fish ponds (Location 17). The ponds have been sunk into the ground.<br><br>The Facilities Manager's workshop is at Location 21 and contains general tools and equipment for building maintenance. |

| | |
|---|---|
| | A temporary classroom is positioned at Location 4. This single structure is located over the area of where two are shown on the layout plan, suggesting that this structure is relatively new.<br><br>At Location 15 there is a single storey wing to the main building. At the time of the walkover, this building was undergoing refurbishment works. The compound for the refurbishment contractors was located at Location15a during the walkover.<br><br>At Location 5 is a single storey building designated as the inclusion unit for the school.<br><br>At Location 6 is the nursery which comprises two single-storey units.<br><br>The leisure centre is positioned at Location 7. The building is up to two-storeys in height and contains a hall, gymnasium and dance studios.<br><br>At Location 16 is a bike storage area with a canopy.<br><br>At Location 19 is a brick wall and corrugated metal canopy.<br><br>The facilities manager indicated that a historic swimming pool existed at Location 23. The site surface shows no evidence for the presence of a historic pool, however, a photograph is presented in Appendix 2 showing an image of the site with a pool. |
| Site Surface | The site surface comprises a mixture of hardstanding and areas of soft landscaping. The areas of hardstanding predominantly comprise asphalt surfacing (car parking, roads and hard play areas) with paving slabs for walkways around the school buildings. Standing water was observed in the car park at Location 2c and the play area at Location 22 during the walkover.<br><br>In the eastern area of the site, marked by Location 26, is a grassed sports field. The surface at Locations 13 and 23 is also grass covered.<br><br>The sports court at Location 27 is covered with a rubberised surfacing material.<br><br>At Location 24 the surface is covered with gravel. At the end of the gravel strip, at Location 25, there is a sand pit.<br><br>At Location 11 is an attenuation pond which was grass covered and dry during the walkover. |
| Evidence of surface staining | There was no evidence of surface staining observed during the walkover. |
| Ecology / Vegetation | As mentioned in the site surface section above, there are multiple grass covered areas on the site. The site boundary is mainly lined with trees. A small area of woodland is present at Location 14 that extends northwards towards the nursey. Some climbing ivy was also noted at Location 14. The trees were a general a mix of mature and semi-mature species, some of were identified as horse chestnut, sweet chestnut, poplars and birch.<br><br>A hedge is present adjacent to the shelter at Location 19.<br><br>Aquatic plants and koi fish are present in the ponds at Location 17.<br><br>NB – This should not be considered as an ecological survey. A full ecological and tree survey should be undertaken by a suitably qualified and experienced professional. |
| Storage Tanks | Three boiler rooms were identified during the walkover at Locations 8a, 8b and 8c. The facilities manager indicated that all three boiler rooms have always been fuelled with gas. Boiler room 8a is the largest boiler room on site and the boilers appear to be relatively new. Boiler room 8b was not viewed during the walkover due to missing keys. Boiler room 8c contained one boiler tank. There were no signs of spillages in boiler room 8a or 8c. |

| | |
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| | A water tank is located within the building at Location 9. This wasn't viewed during the walkover.<br><br>No other storage tanks were indicated during the walkover. |
| Services | During the walkover, evidence was observed for overhead and underground services around the buildings on site.<br><br>An electrical substation was observed at Location 12.<br><br>An Additional electrical substation is indicated on the Mott MacDonald 'Possible Build Locations' plan in Appendix 1 and on the service plans in the Groundwise Utility Search Report, however, there was no evidence for this during the walkover.<br><br>Overhead cables were noted in proximity to Location 15a that extended west towards Location 1b.<br><br>Underground services are indicated to be present across most hardstanding areas with multiple manhole covers being identified across the site. Surface drainage systems were also noted across the site.<br><br>A Groundwise report has been supplied by Mott MacDonald for the site. This is discussed in Section 6.0 below. |
| Asbestos | No potential Asbestos Containing Materials (ACMs) were noted on the surface of the externals areas at the school.<br><br>Mott MacDonald has provided two Asbestos Surveys for the school.<br><br>The most recent survey identifies two occurrences of ACMs at the site within the school buildings. The survey report (Number 21806, dated 14th March 2010) was prepared by PASS (UK) Limited. The survey was carried out "*within areas likely to be affected by the proposed roofing works*" but is not certain where these works were to take place. The report indicates that samples were taken in external areas to the "gym and link" and "Hall and stage" and internally in the "Assembly Hall" and "PE store". It is thought these locations are the Sports Hall and linked building close to Location 8b. The two occurrences were within a bitumen "Vapour" below the wooden floor, possibly a damp proof or gas membrane. The report indices that it is a non-licensed material and should be removed prior to any refurbishment or demolition works.<br><br>A previous survey was prepared by RILMAC (Insulation) Ltd (dated January 2006) and the report details the findings of an Asbestos Building Survey. The survey was undertaken in the main school buildings and included voids above suspended ceilings, inside riser cupboards and service ducts This was not a "demolition / refurbishment" type survey and no access was made below any type of floor covering. The findings can be summarised as:<br>• 127 entries for asbestos<br>  ○ Asbestos was removed for 56 of the entries (where dated this was in 2009)<br>  ○ Warning labels were applied for 71 entries, some were encapsulated also (where dated this was in 2007)<br>• 3 entries for assumed asbestos and no action taken<br>• 2 entries for assumed asbestos in rooms not accessed and therefore no action taken<br><br>Most of the warning labels were applied to areas of ACM within the main school building but also it would appear, possibly in the area of the 2010 survey. In addition, ACM was detected and a warning sign applied to the corrugated roofing to a bike shed, which is believed to be the shelter at Location 19. |

| | |
|---|---|
| | Both reports should be provided to future contractors involved in the site re-development works. |
| Waste Disposal/ Materials Storage | At Location 20 in the western area of the site is the main waste disposal area and comprises 2 large waste bins. Some plastic bags containing paper waste were noted in the disposal area as well as wooden pallets and pavement slabs. Small waste bins are spread around the site. |
| Surrounding Area | The surrounding land is generally flat. To the north and east of the site is agricultural land. To the south, at Location 29, is a solar farm. Drainage ditches, both of which were dry during the walkover, are present along the southern boundary (Location 28) and the eastern boundary. To the west of the site is residential housing. |
| Local Water Features | On site there are 2 fish ponds (at Location 17). Surface water flooding was evident on the asphalt play area at Location 22 and on the car park at Location 2c. An attenuation pond, which was dry during the walkover, is present in the western part of the site at Location 11.<br><br>Drainage ditches are present along the southern and eastern boundaries, both of which were dry during the walkover. |
| Potential Off-Site Receptors | Drainage ditch along southern boundary of site.<br><br>Residential properties to the west of the site. |
| Potential Off-Site Sources | None identified during the walkover. |
| Local / Background Knowledge | A historic swimming pool is indicated to have been present at Location 23. The facilities manager stated that during summer, the grass in this area dries out more than the surrounding land around the edge of where the pool existed. A poster found in the facilities managers office shows an aerial photograph of the site while the pool still existed, and shows the hall, to the east, under construction. A photograph of the poster is included in Appendix 2. |

# 3.0 SITE HISTORY

A search of available historic maps was undertaken to establish the previous land uses of the site. The maps discussed below are presented in Appendix 3 of this report. Any additional sources used in the section are stated below.

## Summary of Site History

### On Site

The following table summarises the significant changes in historical use on site:

| On Site | | |
|---|---|---|
| Feature & description | Date Appears on OS mapping | Date No longer shown on OS Mapping |
| The site is generally featureless with 2 small ponds shown – one in the northern corner and one in the southern corner. | 1887 | 1906 – northern pond no longer shown<br>1972 – southern pond no longer shown |
| There is a 'Coarse of Roman Bank' along the western boundary of the site. | 1888 | 1972 |
| The Peele School is shown over the western quadrant of the site. | 1972 | 1979 – a separate block is now shown joined to the main school building and one of the wings of the building has been extended. |

| | | |
|---|---|---|
| A chimney is labelled along the northern edge of the school building. | 1972 | 1981 |
| Tennis courts are shown along the northern boundary. | 1972 | During the walkover these had been converted into basketball courts. |
| A sewerage works is shown in the western corner of site close to the site boundary. | 1972 | 1981 |
| A swimming pool is labelled towards the east of the school building. | 1972 | 1999 |
| The southern half of the site is labelled 'Luton Marsh'. | 1972 | 1999 |
| The southern boundary is labelled as a 'Track'. | 1972 | 1981 |
| An electrical substation is shown towards the western corner of site. | 1989 | 1999 |
| A sports court is shown in the south of the site. | 1999 | |
| Trees are shown in the southern corner of site. | 1999 | |
| A rectangle of what looks like hard surfacing is shown around the centre of site, | 1999 | 2021 |
| Peele Leisure centre is shown just north of the sports court. | 2021 | |
| Two small buildings are shown in the centre of site. | 2021 | During the walkover, the two buildings had been replaced with one building. |

Google Earth aerial photography has also been reviewed to provide details of the on site history. The photography shows:

- 01/01/1999 – A concrete strip is shown between Locations 4 and 7.
- 17/04/2005 – Rainbow Nursery is shown on site. The leisure centre is shown as being under construction.
- 11/03/2006 – The leisure centre has been completed. EFAB and EFAC temporary structures are shown. The gravel strip with sand pit (Locations 24 and 25) are shown.

**Surrounding Area**

The following table summarises the significant changes in historical use on land surrounding the site:

| Off Site | | | | |
|---|---|---|---|---|
| Feature & description | Distance from site | Direction from site | Date Appears on OS mapping | Date No longer shown on OS Mapping |
| Drain | 1m | S | 1888 | |
| Hall Marsh Farm | 20m | S | 1888<br>Entry revised on 2000 map to 'Hall Marsh Farm Butterfly and Falconry Park' | 2021 |
| Corn Windmill | 210m | N | 1888 | 1904 |
| Probable water bodies | 103m<br>130m<br>137m | S<br>NE<br>SE | 1888 | 1972<br>1904<br>1904 |
| Luton Marsh | 1m | E | 1972 | 1999 |
| Sewage Pumping Station | 125m | SW | 1972 | 1981 |
| Allotment Gardens | 255m | SW | 1975 | - |
| Solar Farm | 5m | S | 2021 | - |
| Sewage Pumping Station | 250m | S | 2021 | - |

Google earth aerial photography indicates that the solar farm located 5m southwest of the site was constructed by the 30th August 2016.

## 4.0 GEOLOGY

The following section details information published by the British Geological Survey (BGS) on geological maps of the area. Where readily available and relevant, Geological memoirs and other literature have been consulted along with the BGS website (www.bgs.ac.uk). The geology is also shown on Plans presented in Appendix 3.

**Published Geology**

The documented geology of the site is summarised below:

| | Map Reference | Geology |
|---|---|---|
| Superficial | BGS Geology of Britain Viewer accessed on 05/12/2022<br>Envirocheck report 301186054_1_1<br>BGS 1:50,000 Map Sheet no. 145 | The superficial deposits at the site are shown to be Tidal Flat Deposits of Quaternary age typically comprising clay and silt with layers of sand, gravel and peat.<br><br>No Made Ground is shown to be present on the area of the site.<br><br>Development of the site will also probably have led to Made Ground being present on the site, possibly in relation to the former ponds, the historic swimming pool and the former sewage treatment works in the north western corner of the site. |
| Bedrock | BGS Geology of Britain Viewer accessed on 05/12/2022<br>Envirocheck report 301186054_1_1<br>BGS 1:50,000 Map Sheet no. 145 | The bedrock geology beneath the site is shown to be Ampthill Clay Formation. This is indicated to typically comprise light grey and grey mudstone with argillaceous limestone nodules.<br><br>The BGS 1:50,000 map for the site indicates that the upper section of the Ampthill Clay is a 'condensed sequence with phosphatic nodule beds'. |
| Structural | BGS Geology of Britain Viewer accessed on 05/12/2022<br>Envirocheck report 301186054_1_1<br>BGS 1:50,000 Map Sheet no. 145 | There are no faults indicated within 250m of site. |

The BGS GeoIndex Onshore indicates there are two borehole records positioned on site and one record just east of the site.

The two boreholes on site appear to be related to the construction of the Leisure Centre as one borehole is within the footprint of the Leisure Centre building and the other is located just south of the building. These boreholes were sunk by Lincs Laboratory on behalf of Lincolnshire County Council in 2004. They were sunk using cable percussive techniques and the findings can be summarised as follows:

| BGS Reference: TF42SW51 (BH1) – adjacent to the south of the leisure centre | Depth to Top (m bgl) | Thickness (m) |
|---|---|---|
| TOPSOIL | GL | 0.4 |
| Loose becoming medium dense light orange brown and light brown fine sandy SILT. | 0.40 | 2.60 |
| Loose to medium dense grey brown wet fine sandy SILT. | 3.00 | >3.00<br>(Proved to 6.00m bgl) |

Groundwater was struck at 3.00m bgl and rose to 2.50m bgl within 20 minutes of the strike.

| BGS Reference: TF42SW52 (BH2) – within building footprint | Depth to Top (m bgl) | Thickness (m) |
|---|---|---|
| TOPSOIL | GL | 0.40 |
| Loose becoming medium dense light orange brown fine sandy SILT. | 0.40 | 2.60 |
| Loose to medium dense grey brown fine sandy SILT. | 3.00 | 3.00 |
| Loose to medium dense becoming dense below 13m grey brown silty fine to medium SAND. | 6.00 | >9.00m (Proven to 15.00m bgl) |

Groundwater was struck at 3.00m bgl and rose to 2.50m bgl within 20 minutes of the strike.

Chemical results within the upper 3m of the borehole were presented showing a pH level of between 7.4 and 8.4 with a sulphate content of 0.1g/l.

The borehole record located around 25m to the west of the site (Reference: TF42SW6) is a scanned document containing Inland Water Survey Records of Well-Measurements. No geological data is contained within the document. The surface elevation is 14' 4" (4.37m) above Ordnance Datum. The total well depth is recorded as 14' 1" (4.29m) bgl. Groundwater depths from March 1937 to March 1938 were recorded at between 5' 0" (1.52m) and 10' 1" (3.07m) below ground level.

At a greater distance from the site, in one of the boreholes that extended to depths greater than 10m bgl, the Ampthill Clay was identified. Borehole TF42SE11 located about 2.5km to the south east reported the Ampthill Clay below layers of clay, fine sand and sand and gravel at a depth of 16m bgl. Borehole TF42SW35 encountered clay with chalk gravel at 23.1 m bgl below layers of clay, sand and sand and gravel, which may be Glacial Till / Boulder Clay and was proved to a depth of 30m bgl.

**Geological Features**

The presence of recorded geological features such as BGS Mineral Sites, Man Made Mining Cavities or natural cavities within 250m of the Site are summarised below. If entries are present in a wider radius than 250m, further details are presented in Appendix 3.

| Data type | Entries (On site) | Entries (0-250m) |
|---|---|---|
| BGS Recorded Mineral Sites | None | None |
| Man Made Mining Cavities | None | None |
| Natural Cavities | None | None |
| Artificial Ground / Made Ground | None | None |
| Mining instability | None | None |

The Envirocheck Data Sheets do not show any records for Made Ground on the Site. However, the historical maps show some redevelopment has occurred on the site historically. Therefore, it is likely that some Made Ground will be present due to the demolition of historical structures. Two infilled ponds were identified on the historical maps therefore it is likely that Made Ground exists in these areas.

**Geological Hazards**

The potential for certain geological hazards at the site has been assessed in the Envirocheck report. The report can be summarised as follows:

| Hazard Type | Hazard Potential |
|---|---|
| Potential for Collapsible Ground Stability Hazards | No Hazard |
| Potential for Compressible Ground Stability Hazards | Moderate |
| Potential for Ground Dissolution Stability Hazards | No Hazard |
| Potential for Landslide Ground Stability Hazards | Very Low |
| Potential for Running Sand Ground Stability Hazards | Moderate |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | Low |

**Radon**

The property is in a Lower Probability Radon Area (less than 1% of homes are estimated to be at or above the Action Level). No radon protective measures are necessary in the construction of new dwellings or extensions.

**Coal**

The site does not lie within an area affected by Coal Mining and as such a coal report was not obtained.

**Brine**

The site does not lie within an area affected by Brine subsidence and as such, a Brine report was not obtained

## 5.0 HYDROLOGY & HYDROGEOLOGY

**Hydrology**

The presence of any hydrological licences and incidents within 250m of the site is summarised below. If entries are present in a wider radius than 250m details can be found in Appendix 3.

| Data type | Entries (On site) | Entries (0-250m) |
|---|---|---|
| Discharge Consents | One entry in the NE of the site operated by Lincolnshire County Council for 'Trade Discharge – Process Water' into 'Freshwater Stream/River'. Licence effective from 08/03/1962 and revoked on 23/04/1996. | Two entries within 250m.<br>• Entry 156m SW of the site operated by 'Mr R Radcliffe' at a domestic property. Licence for 'Sewage Discharges - Final/Treated Effluent - Not Water Company' onto land. Licence effective from 06/08/1969 and revoked on 04/08/1997.<br>• Entry 175m SW of the site operated by 'Raymond Simmons' at a domestic property. Licence for 'Sewage Discharges - Final/Treated Effluent - Not Water Company' into 'Freshwater Stream/River'. Licence effective from 10/04/2003. Revocation date not supplied. |
| Pollution Incidents to Controlled Waters | None | None |
| Water Abstractions | None | None |
| Nearest Surface Water Feature | The Envirocheck Report indicates that water is present along the ditch of the southern boundary and along the eastern boundary. Both were dry during the walkover. | Drainage ditches are present along the field boundaries to the east and south of the site. |

| | | |
|---|---|---|
| | During the walkover, two fish ponds were observed in the centre of the main school building. An attenuation pond was observed in the west of the site although was noted as dry during the walkover. | |
| Flooding<br>From Rivers or Seas | The Envirocheck Report indicates that the site is at risk of 'Flooding from Rivers or Seas without Defences (Zone 3)'. | The Envirocheck Report indicates that the surrounding land is at risk of 'Flooding from Rivers or Seas without Defences (Zone 3)'. |
| Flooding<br>From Surface Waters | The Envirocheck Report indicates that the majority of the site is indicated as having no risk of flooding from surface waters. The exceptions are:<br>• The asphalt play area and car park in the northwest of the site – low risk;<br>• The parking area in front of the school reception – low to medium risk;<br>• The area of open space in the southwest of the site – low to medium risk;<br>• The area adjacent to the fish ponds in the centre of the school buildings – low risk;<br>• A segment of land in the east of the site – low risk.<br><br>During the walkover, standing water was observed over the play area in the northwest of the site and over the car park adjacent to the leisure centre. | The Envirocheck Report indicates that the majority of the surrounding land is indicated as having no risk of flooding from surface waters.<br><br>There are multiple locations within 250m of the site boundary where the risk is low. The areas of low risk are generally no larger than 30m by 50m. |
| Flooding<br>From Groundwater | The Envirocheck Report indicates that there is no potential for Groundwater Flooding to occur at the site. | The Envirocheck Report indicates that there is no potential for Groundwater Flooding to occur on the surrounding land. |

**Hydrogeology**

The Groundwater Vulnerability map is summarised in the table below:

| Geology | Formation | Aquifer Type | Permeability |
|---|---|---|---|
| Drift | Tidal Flat Deposits | Unproductive | Unknown |
| Solid | Ampthill Clay Formation | Unproductive | Unknown |

There are no Source Protection Zones indicated on site or within 1km of the site boundary.

# 6.0 ENVIRONMENTAL DATA

The following section details environmental data available for the site and the surrounding area. Full details are presented in the Envirocheck Report presented in Appendix 3.

The table below summarises the presence/absence of any waste, hazardous substance sites and/or industrial land uses within 250m of the site with details provided. For entries present at a radius wider than 250m, details are presented in Appendix 3.

| | Data Source | Data Summary |
|---|---|---|
| Environmental Database Information | Industrial Processes | There are no registered Integrated Pollution Control (IPC) Sites, Registered Radioactive Substances sites, Control of Major Accident sites (COMAH), Explosives Sites or Notification of Installations Handling Hazardous Substances (NIHHS) within 250m of either area of site. |
| Landfill & Waste Sites Search | Landfills: Ordnance Survey Historical Mapping | There are two entries on site for Local Authority Landfill Coverage. These both refer to Potentially Infilled Land (Water) and likely relate to the two ponds identified on site in the site history section of this report. There are no other records for potentially infilled land (water and non-water) on site or within 250m of the site.<br><br>There are no recorded landfills on site or within 250m of the site. |
| | Other Waste Sites | There are no recorded entries on or within 250m of the site. |
| Trade Directories | Trade Directory Entries recorded in 250m radius | There are no entries on the site. There are 3 recorded entries within 250m of the site boundary. The entries consist of a 'Joinery Manufacturers', 'Cleaning Services – Domestic' and 'Road Haulage Services'. All are listed as inactive. |
| Fuel Stations | Fuel Stations recorded in 250m radius | There are no recorded entries on or within 250m of the site. |
| Radon Potential | Building Research Establishment, 2015, 'Radon: Guidance on protective measures for new buildings' | The site is situated in an area where radon protective measures are not necessary in the construction of new buildings. |
| Other Radiation | | No reasonable grounds for believing land to be radioactively contaminated (in accordance with 2005 extension of Part IIA of The Environment Protection Act 1990). |
| Unexploded Ordnance | Alpha Associates Preliminary Unexploded Ordnance (UXO) Threat Assessment – *15th September 2022* (Presented in Appendix 3) | The preliminary report indicates that 'no further action is required to address the UXO risk at this study site'. |

| | | |
|---|---|---|
| Ecology | Sites of Ecological Importance MAGIC website 06/12/2022 | There are no Sites of Special Scientific Interest (SSSI), National Parks, Areas of Adopted Green Belt, Local Nature Reserves, Areas of Outstanding Natural Beauty or RAMSAR (wetlands) within 250m of the site. |
| Buried and overhead Services | Site Walkover<br><br>Groundwise 'Desktop Utility Search' – Report reference 7823.1DM-GWS | During the walkover evidence was observed for overhead and underground services around the buildings on site.<br><br>The Groundwise report indicates the following:<br>Electric / Power<br>• Overhead high voltage power cable crossing the sports field in the north and east of the site.<br>• Underground low voltage power cable crossing onto the site from the northwestern corner along the carpark and crossing over the play area to feed into the school building. Locally, there is a decommissioned cable is in this area too.<br>• Underground low voltage power cables crossing onto the site from the most southern access point. One cable runs to the inclusion unit and another cable runs to the leisure centre. Multiple cables are shown running to the substation at Location 12. From the substation, another underground low voltage cable is shown crossing the area of open space and connecting to the sports courts at Location 27.<br>• Underground high voltage cables cross onto the site from the most southern access point to the substation at Location 12.<br><br>Gas<br>• A low pressure gas main is shown under the road to the west of the site and crossing onto site from the most northern access point. The main connects to the boiler room at Location 8a.<br><br>Telecoms<br>Overhead openreach cables are shown crossing onto the site from the western boundary from 3 locations.<br>• The first location is between accesses at Locations 1a and 1b connecting to the tower at Location 9 and the school reception at Location 10.<br>• The second location is from the access point at Location 1b connecting to the school just east of the bike storage at Location 16.<br>• The final location is adjacent to the access point at Location 1c and extends over the nursey and connects to the mains school building.<br><br>Water<br>• A foul sewer crosses onto the site from the access point at Location 1a to just east of the Facilities Manager Workshop.<br>• A second foul sewer crosses onto the site from the access point at Location 1c extending north westwards across the site to the leisure centre.<br><br>There are no further service plans shown in the Groundwise report. However, additional private services are likely to exist on the site including provision for clean drinking water. |

| | | |
|---|---|---|
| Archaeological & Building Heritage | MAGIC website 06/12/2022<br><br>Historic England website 06/12/2022 https://www.historicengland.org.uk | The MAGIC and Historic England websites indicates there are no listed buildings on site or within 250m of the site boundary. |

# 7.0 PREVIOUS REPORTS / INVESTIGATIONS

Mott MacDonald have provided a copy of their Structural Stage 1 Basic Condition Survey Report for the site. The report is "Structural Stage 1 Basic Condition Survey, P02, University Academy Long Sutton", dated November 2022, reference 100110481 and gives details of a visual, non-intrusive structural condition survey that was undertaken by Mott MacDonald at the site. In addition to the visual survey at the site, Mott MacDonald reviewed a number of relevant documents. The aims of this survey were to:

- *"Outline key structural considerations to be made to realise the project refurbishment proposals*
- *Highlight areas of immediate structural concern*
- *Make recommendations of any further investigations/repairs*
- *To help inform the client of the condition of the visual structure in terms of future refurbishment works that will require the structure to have a residual life of 25 years"*

The survey made an assessment on the structural conditions pertaining at the site and provides a priority rating for any observations made. The report identifies two locations that are of high priority (to be addressed in the next 6 months) and six locations of medium priority (to be addressed in next 12 months or next maintenance period). There were no locations of emergency priority.

The report concludes that the building condition could be described as 'Fair' and the recommendation is that block EFAA (Location 3) should be demolished and rebuilt as 'a more energy efficient building'.

For the full report, please contact Mott MacDonald.

# 8.0 POTENTIAL CONTAMINANT LINKAGES & PRELIMINARY CONCEPTUAL SITE MODEL

## Hazards Identified with the Proposed Development

The hazard identification is based on the assumptions presented below:

- The site will remain a Secondary education facility with leisure facilities; and
- Drinking water will be from mains supply.

## Potential Sources of Contamination

For the purpose of this assessment the potential contaminants of concern have been considered according to whether they are likely to have originated from on-site or off-site sources.

### Potential On-site Sources of Contamination

- Sources from historical buildings and structures on site including the former swimming pool and sewage works (ash which may include heavy metals, sulphate, pH, petroleum hydrocarbons and poly-aromatic hydrocarbons, and asbestos), and their demolition.
- Made Ground associated with the two infilled ponds on the site.
- Sources from the current and former electrical sub stations on site.

### Potential Off-site Sources of Contamination

This Desk Study has not identified any Potential Off-site Sources of Contamination for the site.

## Potential Receptors of Contamination

Based on the data previously discussed, the following potential receptors to contamination have been identified for the site:

- Humans – Pre-development completion, i.e. working on site during demolition and construction.
- Humans – Pupils, staff and visitors attending the school following development.
- Off-site Human Health receptors including the neighbouring properties.
- Groundwater – although the geologies below the site are identified as unproductive aquifers, groundwater may still exist as a receptor.
- Surface water receptors in the drainage ditches along the eastern and southern site boundaries.
- Building structure and services following development.

The possible contaminant linkages are discussed below. It should be noted not all may be formed between all sources and receptors.

## Identification of Pathways

### Pathways to Human Health

A potential contaminant may reach a receptor by various routes. For example, in areas where contaminated material is exposed, dermal contact with the material, inhalation or ingestion of dust may occur.

Inhalation or ingestion of dust and water could occur during the construction and development phase at the site. Pathways from dermal contact with soil and groundwater may also arise. It is considered that the risk of short term exposure for ground workers and other construction workers is low unless there are asbestos fibres in any Made Ground.

Post construction, the surface of the development area will predominantly comprise an area of buildings and hard standing. This would likely reduce the number of potential pathways that are present such as long-term direct contact and dust inhalation/ingestion by site users and visitors.

### Ground Gas and Vapour related Pathways

Ground gas and vapour entry into buildings is considered to be a potential pathway for the proposed development due to the possibility of advection and diffusion into buildings, which may occur regardless of the presence of hard standing across the majority of the site. The risk is low to medium for the site as the infilled ponds and former sewage works have been identified as possible ground gas sources in this Desk Study.

### Pathways to Controlled Waters

The site is shown to be underlain by superficial and bedrock deposits which are both classified as being unproductive strata (none aquifers). The presence of unproductive strata will likely act as a barrier towards any leached contaminants in shallow Made Ground. The vertical leaching of contaminants from any Made Ground into the groundwater in any superficial or bedrock deposits is an unlikely pathway for contaminants to impact groundwater.

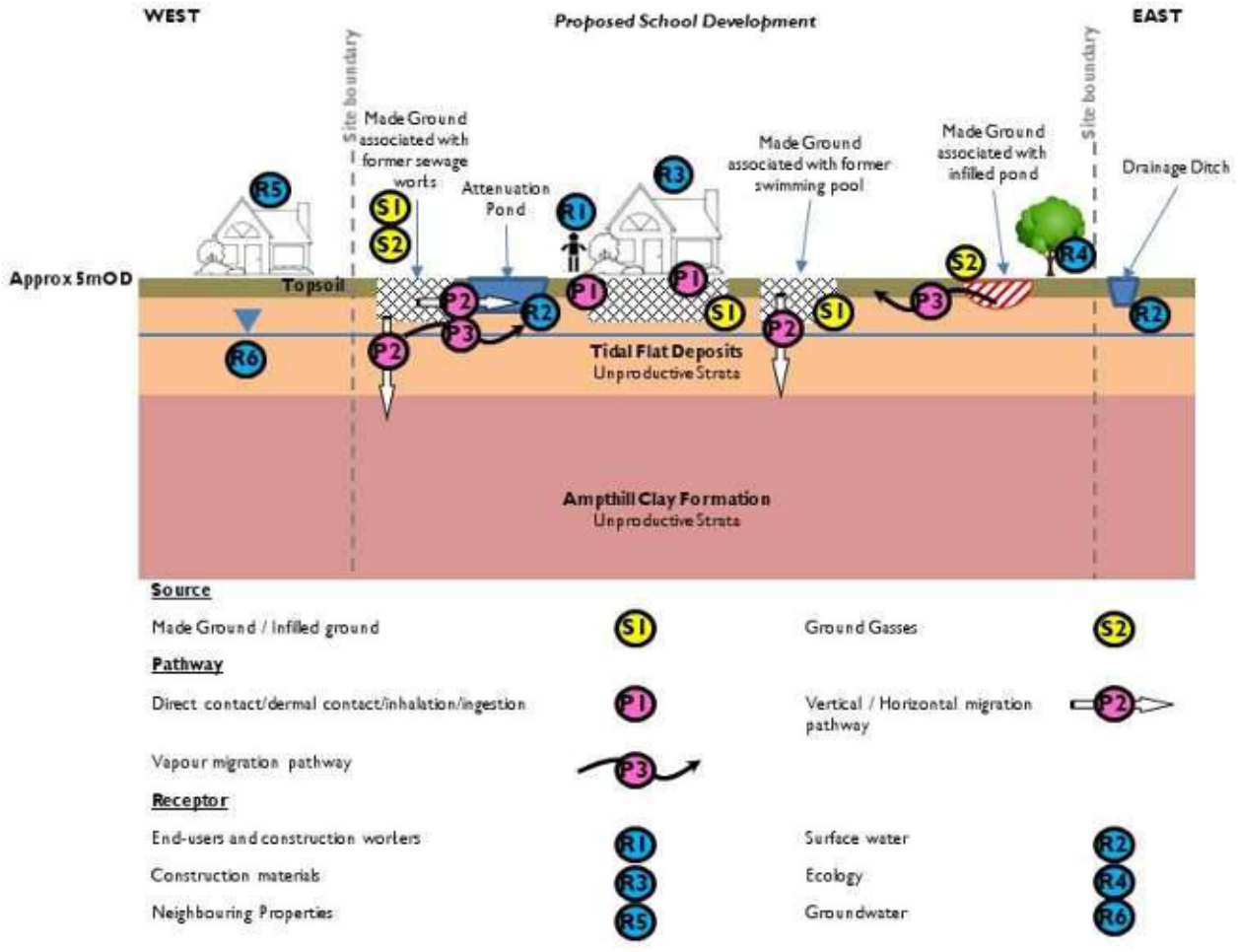
### Other Pathways

Other potential pathways that are possibly less significant to the site but still require consideration are potential phytotoxic effects on sensitive landscaping plants, chemical attack on foundations and services, potential for surface run-off to transport soils off-site during construction works and permeation of contaminants through domestic water pipes.

## Initial Conceptual Site Model

In accordance with BS 10175 and LCRM, a schematic Initial Conceptual Site Model has been developed for each area of site based on the source-pathway-receptor data presented above. Further details of the risk assessment methodology are presented in Appendix 4.

The models below show the predicted geology and topography, the major on site potential contamination sources and vulnerable receptors. Levels shown are relative to Ordnance Datum and are based on published data previously presented in the report, although the drawing may not be considered to scale. The information presented below represents the preliminary conceptual ground model that may need to be revised based on information obtained as part of any future intrusive investigation. A number of sensitive receptors and potential pathways and sources (in association with a list of likely contaminants) have been identified on the site.




The ground models and proposed end use described above have been broadly considered in relation to Nathaniel et al. 2015, The LQM/CIEH S4ULs for Human Health Risk Assessment. The proposed development generally does not conform to the conceptual models defined in Nathaniel et al. 2015. However, for the purpose of this geoenvironmental assessment, the site is closest to public open space (parkland) and residential without home grown produce.

## Potential Contaminant Linkages Assessment

For each contamination source there are potential contaminant linkages with all receptors. However, in the context of this site, not all of the contaminant linkages are plausible. The likelihood of the various pathways linking the contaminants to the receptors is presented in the table below:

The preliminary contaminant linkage assessment is based on current available guidance published by a number of sources and is summarised in Appendix 4.

The preliminary hazard assessment is a qualitative assessment of the risks posed by each viable identified pollution link. The hazard assessment leads to a recommended subsequent activity that could be:

- Action Required (AR) in the short term to break existing contaminant-pathway-receptor (CPR) link;
- Site Investigation Required (SIR) with objectives for risk estimation; or
- No Action Required (NAR) at this stage.

| Hazard Identification | | | | Hazard Assessment | | | |
|---|---|---|---|---|---|---|---|
| Link | Contaminant | Pathway | Receptor | Probability | Consequence | Risk | Contaminant Linkage Assessment |
| 1 | Contaminated soil / groundwater | Ingestion (via soil dust) and inhalation (via soil dust and vapours), ingestion through dirty hands, dermal contact with soil/water. | A- Humans using the site during construction. | Medium/ Reasonably foreseeable | Medium | Medium | SIR: Some of the proposed development options are shown in areas currently and historically developed at the site. Potential for contaminants to be present in Made Ground and demolition wastes. Confirmation of contaminant status on site. Potential for petroleum hydrocarbons and dielectric oils to have spilled in areas of the electrical substation. Potential for ACMs in Made Ground. |
| 2 | | Ingestion (via soil dust) and inhalation (via soil dust and vapours), ingestion through dirty hands, dermal contact with soil/water. | B- Humans using the site after development completion. | Low to Medium | Medium | Medium | SIR: As above. |
| 3 | | Downward / Lateral migration | D – Unproductive Strata | Low | Mild | Low | NAR |
| 4 | | Inhalation | B - Humans using the site after development completion. | Low to Medium | Medium | Medium | SIR: Potential for petroleum hydrocarbons as well as asbestos fibres. |
| 5 | Gas – methane & carbon dioxide | Ingestion, inhalation, dermal / direct contact | E- Ecology (Flora/Fauna) | Low | Negligible | Low | NAR |
| 6 | | Inhalation | B - Humans using the site after development completion | Medium | Medium | Medium | SIR: Potential for gas / vapour generation from infilled ponds and former sewage works on the site. |

| Hazard Identification | | | | Hazard Assessment | | | |
|---|---|---|---|---|---|---|---|
| Link | Contaminant | Pathway | Receptor | Probability | Consequence | Risk | Contaminant Linkage Assessment |
| 7 | Contaminated soil / waste / surface water / groundwater | Unproductive Strata | E- Ecology (Flora/Fauna) | Negligible | Negligible | Low | NAR |
| 8 | Contaminated groundwater | Direct contact. | F- Building structures | Negligible | Mild | Low | NAR |

# 9.0 GEOTECHNICAL HAZARDS ASSOCIATED WITH THE DEVELOPMENT

In addition to the environmental hazards, there are also geotechnical hazards associated with the stability of the ground (including load bearing capacity, slope stability and effects of ground (mining) cavities). Local Authorities follow the NPPF (2021) which requires that "site is suitable for its new use taking account of ground conditions and land instability….includes risks arising from natural hazards or former activities such as mining…" A summary of the geotechnical hazards and considerations is provided below.

| Geohazards | |
|---|---|
| Highly Compressible Ground | Plausible. The site is underlain by superficial Tidal Flat Deposits of clays and silts. Areas of Made Ground are also likely to be present on site of unknown composition. |
| Collapsible Soils | Negligible. |
| Swelling Clay | Plausible. The site is underlain by superficial Tidal Flat Deposits of clays and silts. |
| Running Sand | Plausible. The site is underlain by superficial Tidal Flat Deposits of clays and silts. |
| Ground Dissolution | Negligible. Site geology comprises superficial deposits of predominantly clay and silt, and bedrock of mudstone. |
| Landslip | Negligible. The site is generally flat with no retaining walls at present. Retaining walls are unlikely to be required in order to facilitate the design. |
| Mining & Quarrying | Negligible. |
| **Geotechnical Design Considerations** | |
| Site Clearance | The current redevelopment proposals include the demolition and clearance of some of the school buildings on site. The floor slabs of the existing school will require breaking out in order to facilitate the redevelopment. |
| Trees | Trees are present along most of the site boundaries, as well as being clustered in the south western corner of the site. The development option locations include areas that are in proximity to trees. Therefore foundation and floor slab design should take into account the effects from the presence of trees at the site. |
| Existing Buildings / Obstructions | All permanent school buildings and structures still present on site with associated foundations and floor slabs. The foundation type and depth of school is unknown. Some lightweight structures are also present and are likely to have shallow pad foundations. No basements were indicated to be present during the walkover. In the areas of the former swimming pool and sewage works, backfill material of unknown nature is likely to be present and may include obstructions from historic foundations or from demolition material. |
| Foundations | The proposed areas for redevelopment include areas that don't appear to have been developed previously, as well as over the footprint of the existing school. The rebuild is proposed to be of one to two storeys in height.<br><br>Spread foundations may be suitable at this site depending on the strength and compressibility of the Tidal Flat deposits but must also take into account the presence of the trees and hedges. They should be founded in competent ground below any Made Ground and former foundations. Should extensive Made Ground on the site be present or the clays and silts be too soft and compressible, then deep foundations, such as vibro (stone) columns or piles may be necessary. The possibility of soft compressible soils within the areas of the attenuation |

| | |
|---|---|
| | pond and the infilled ponds should also be considered.<br><br>Ground investigation will be required in order to fully inform the design of such foundations. |
| Floor Slabs | The proposed areas for redevelopment include areas that don't appear to have been developed previously, as well as over the footprint of the existing school. The proposed floor slab will depend on the form of the proposed building and the type of foundation adopted, suspended floor slabs often being used in conjunction with piled foundations. Suspended floor slabs may be required due to the likely extent of disturbance to the ground that will result from demolition of the existing building and the breaking out the foundations and buried structures. The presence of extensive Made Ground and clay soils that may be affected by vegetation will need to be considered with respect to how they will impact the redevelopment proposals. |
| Groundwater | Groundwater could possibly be at around 2.5-3m below ground level across the site, although the historic borehole record just to the west of the site suggests the possibility of higher groundwater levels. Ground investigations will be required to determine whether groundwater will have an impact on construction and if control measures will be required. |
| Earthworks | No significant bulk earthworks are likely to be required to facilitate the redevelopment proposals at the site. |
| Slopes | Slope instability is likely to be a low risk as the topography over the proposed development areas is generally flat or at a very shallow gradient. |
| Retaining Walls | There are currently no retaining walls at the site. It is unlikely that any retaining walls will be required to facilitate the redevelopment. |
| Pavements / Hard Standing | Formation levels for areas of hard standing and for road pavements in the proposed development areas are likely to be within the top of the superficial deposits or within any Made Ground present at the site. This needs to be confirmed by the investigation. |
| Asbestos | Asbestos Containing Material (ACM) was identified within the main buildings in a survey report from 2006 and a second survey in 2010. Some of the identified ACMs in 2006 were removed and others labelled. No external ACM was noted, apart in the corrugated roof of a bike shed. No ACMs were noted during the walkover on the surface in external areas. Made Ground samples should be screened for asbestos as part of any future ground investigations. |
| Chemically aggressive ground conditions | Adverse pH and sulphate levels are possible within the Made Ground but are unlikely within the natural soils. The pH and sulphate levels need to be confirmed as part of the investigation. |

The Geotechnical Risk Register is included in Appendix 5. This should be reviewed and refined following the preliminary investigation proposed in Section 10 below and further developed as the geotechnical design and assessment progresses.

A detailed ground investigation is imperative for the redevelopment of the site. The investigation proposed in Section 10 is only preliminary in nature and should be supplemented by further design investigations as appropriate. Contractors for the scheme should obtain any additional investigation work that may be required to prepare their own detailed Ground Investigation Report and Geotechnical Design Report to Eurocode 7 and to prepare their own contaminated land risk assessment in line with Land Contamination Risk Management (LCRM, 2021) guidance including further ground investigation and risk assessment, remediation options appraisal and remediation strategy and verification (if required), which are to be used as the basis of the contractors detailed design.

# 10.0 CONCLUSION & RECOMMENDATIONS

## Environmental Risk Assessment

The results of the risk assessments indicate that there are potentially significant sources of contaminants present at the site, primarily related to the presence of Made Ground or demolition waste. There is also potential for dielectric oils to have been spilled in areas of electrical substations. Asbestos may be present in the demolition waste. There is a moderate risk to receptors including human receptors during construction and to site users following development.

The former sewage works and two locations of infilled ponds have been identified as potentially significant sources of localised ground gases on the site. The superficial deposits at the site have been classified as unproductive strata so it is unlikely that gases or vapours will be able to travel laterally through the strata to any on or off site receptors.

However confirmatory rounds of gas monitoring are recommended to confirm this. No specific precautions are required with respect to radon for the development.

There is limited potential for contaminants in any Made Ground to migrate vertically through the superficial deposits.

If any soils are to be removed from site and disposed of at a Permitted facility, these should be chemically analysed to ensure appropriate waste classification and characterisation.

## Geotechnical Risk Assessment

The risk assessment has identified that from the information reviewed in this desk study, there are no significant geotechnical risks associated with the proposed development.

Although no significant risks have been identified, the risks can be reduced further by undertaking appropriate ground investigations. Information is required in order to design appropriate foundations and floor slabs for the proposed development, as well as assess the potential for aggressive ground conditions for concrete design purposes.

## Identified Geoenvironmental and Geotechnical Abnormal Conditions.

The following Geoenvironmental Abnormal Conditions have been identified.

- Elevated concentrations of contaminants may be present associated with former buildings and structures on site. This may include ash, asbestos and construction and demolition materials resulting from the redevelopment as well as from waste.
- Dielectric oils associated with the electrical substation.
- Potentially significant gas or vapour sources from the Made Ground and fill from the former sewage works and infilled ponds on the site.

No significant Geotechnical Abnormal Conditions have been identified.

The following abnormal conditions are not considered significant however require consideration to further reduce the risk at the site:

- A variable cover of Made Ground is likely on the site in the area of the former sewage works and the historic swimming pool, and unknown quantities beneath existing buildings that may be demolished to facilitate the development;
- Low strength and highly compressible soils within the upper part of the Tidal Flat deposits and thicker zones of Made Ground may require deep foundations including piled foundations to be adopted;
- Swelling / shrinking soils are plausible within the clayey soils of the superficial deposits;
- Potential below ground obstructions associated with the foundations of former buildings;
- The presence of numerous buried services.

## Recommendations for Further Works and Proposed Investigation Strategy

### Re-use of soils

It is recommended that a U1 exemption is applied for in order to re-use up to 1,000 tons of soil at the site. If any cut/fill operations will exceed the limit of a U1 exemption, then soils should be assessed and re-used in accordance with the requirements of the CL:AIRE Definition of Waste: Code of Practice (DoWCoP). The works required are as follows:

- A baseline contaminant assessment should be undertaken in order to allow screening of clean naturally occurring soils for importation to assess for potential increased contaminant loading;
- As most developments require a portion of excess soil to be sent to a landfill sites, an assessment of the Made Ground and natural strata should be undertaken to classify them in accordance with Landfill Waste Acceptance Criteria;
- If soils are re-used in accordance with the CL:AIRE DoWCoP these soils may potentially still be classified as waste until a Verification Report has been submitted; and

- If contamination is found during excavation or construction, stop work and make excavations safe and contact an experienced geoenvironmental engineer to re-assess potential risks.

**Proposed intrusive investigation strategy**

In order to make a quantitative assessment of the potential risks and so any required remedial measures can be designed, we recommend that a Phase 2 Investigation is carried out in accordance with BS 10175: 2011+A2:2017. This should be combined with a geotechnical investigation carried out in accordance with BS 5930:2015+A1:2020 to assist with the proposed development design. We recommend that the aims of future investigations are as follows.

- Determine whether any contaminative substances are present at site associated with any Made Ground and potential historical spillages.
- To confirm the depth and extent of any Made Ground or fill that may be present across the site.
- Determine the profile and geotechnical properties of the natural soils at the site, and any Made Ground that may be present, to allow for the design of the proposed development foundations, the aggressiveness of the soils to buried concrete and provide information for pavement / hard-standing design and any earthworks including slopes and retaining structures.
- Determine the presence of any groundwater and also determine whether it has been impacted by off-site sources.
- Determine the presence of any ground gases via strata description of Made Ground deposits and confirmatory gas monitoring.

In order to fulfil the aims detailed above, we recommend that a preliminary investigation comprises:

- Exploratory holes comprising:
    - 4 cable percussive boreholes, two to a depth of 20m bgl or prove the bedrock (bedrock to be proved by a minimum of 2m where found), and two to a depth of up to 10m bgl,
    - 7 dynamic (window) sample holes to depths of around 4m bgl,
    - 4 hand dug inspection pits to 1.2m bgl, two to look at existing foundations to EFAA and two to look at the areas of the former ponds.
- In situ testing comprising DCP tests for areas of hardstanding local to the new building.
- Recovery of samples from boreholes to undertake chemical testing including asbestos, heavy metals, TPH, PAH and PCBs.
- Soil leaching tests of Made Ground materials to assess any potential impact to the groundwater and surface water receptors, if shallow groundwater is not encountered;
- Recovery of samples of the appropriate Sample Class for classification, strength, compressibility, earthworks classification and buried concrete classification;
- Sampling of 'natural' soils to allow the establishment of baseline soil chemical concentrations to allow assessment of any proposed soil importation via the CL:AIRE DoWCoP, if soil importation is likely to be required;
- For each contaminant identified, a quantified application of risk assessment models in accordance with LCRM;
- Installation of combined groundwater monitoring wells and their subsequent confirmatory monitoring and sampling; and,
- Commissioning of a GIR and Phase 2 report following the completion of the intrusive investigations.
- Review and update the Geotechnical Risk Assessment.

The figure in Appendix 6 shows a sketch of the proposed development with the location of proposed exploratory holes.

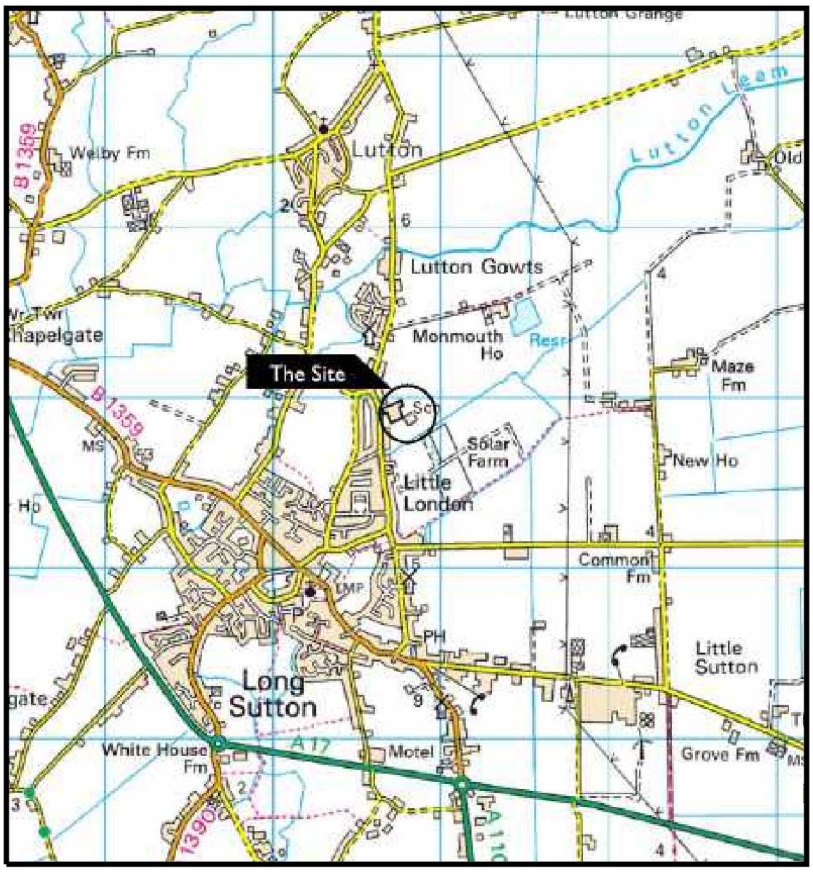
# 11.0 REFERENCES


1) Environmental Protection Act 1990: Part IIA, Contaminated Land Statutory Guidance, HM Government, April 2012.
2) BS 5930 : 2015 : Code of practice for site investigation. British Standards Institution.
3) BS 10175 : 2011+A2 2017: Investigation of potentially contaminated sites – Code of Practice. British Standards Institution
4) Building Research Establishment : 2010 : Part C.
5) Building Research Establishment : 2015 : Radon: Guidance on protective measures for new buildings.
6) Environment Agency : 2010 : GPLC1 – Guiding principles for land contamination. GPLC2 – FAQs, technical information and references. GPLC3 – Reporting checklists.
7) Environment Agency : 2020: Land Contamination Risk Management
8) HM Government : 2013 : The Building Regulations 2010. Part C. Site Preparation and resistance to contaminants and moisture. 2004 Edition with Amendments 2010 & 2013.
9) Ministry of Housing, Communities & Local Government: 2019 : National Planning Policy Framework, February 2019.
10) Statutory Instruments: 2012: Environmental Protection, England. Contaminated Land (England) (Amendment) Regulations 2012 No. 263 coming into force 6th April 2012.
11) Statutory Instruments: 2015: The Construction (Design and Management) Regulations 2015 (CDM 2015) coming into force 6th April 2015.
12) Nathaniel et al. 2015, The LQM/CIEH S4ULs for Human Health Risk Assessment.

# APPENDIX I

## Site Plans

# SITE LOCATION PLAN




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Ground Investigation
at
University Academy Long Sutton
for
Department for Education

GEOTECHNICS
geotechnical and geoenvironmental specialists




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| Project: **Feasibility**<br>**UA Long Sutton** | Location:<br>84 Little London Long Sutton PE12 9LF | Drawing:<br>**Site Location Plan** | MOTT MACDONALD | LYALL BILLS & YOUNG<br>Lyall Bills & Young Architects Ltd<br>Telephone House, 69-77 Paul Street<br>London EC2A 4NW<br>+44 (0) 20 7253 1630<br>www.lbyarchitects.com | Scale<br>1:2500 @A3<br><br>Drawing Number - Revision:<br>**SRP1155-LBY-ZZ-00-D-A-0100-P01** |




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| Project: **Feasibility**<br>**UA Long Sutton** | Location:<br>84 Little London Long Sutton PE12 9LF | Drawing:<br>**Possible build locations** | MOTT MACDONALD | LYALL BILLS & YOUNG<br>Lyall Bills & Young Architects Ltd<br>Telephone House, 69-77 Paul Street<br>London EC2A 4NW<br>+44 (0) 20 7253 1630<br>www.lbyarchitects.com | Scale<br>1:2000 @A3 | Drawing Number - Revision:<br>**SRP1155-LBY-ZZ-ZZ-SK-A-9000-P02** |




**KEY:**

- Site Boundary
- Existing Building
- New Build
- Demolished Building
- Hard Landscape
- Non-Net Parking/ Vehicle Access
- Non-Net Soft Landscape
- Woodland/ Dense Planting
- Watercourse
- Easement (Extent)
- Soft Outdoor PE
- Hard Outdoor PE
- Soft Informal and Social
- Site Pedestrian Entrance
- Site Vehicle Access
- Building Main Entrance
- Building Other Entrance
- Retained Secure Fence Line
- Slope
- 120 Contour
- Culvert
- Right of Way
- Major Services Route/ Sewer etc.
- Perimeter Fence 2.4m
- Existing Tree (Grade A/B)
- Proposed Tree

N

| | | | | | |
|---|---|---|---|---|---|
| Project: **Feasibility**<br>**UA Long Sutton** | Location:<br>84 Little London Long Sutton PE12 9LF | Drawing:<br>**Concept Development Option Site Plan 1** | MOTT MACDONALD | LYALL BILLS & YOUNG<br>Lyall Bills & Young Architects Ltd<br>Telephone House, 69-77 Paul Street<br>London EC2A 4NW<br>+44 (0) 20 7253 1630<br>www.lbyarchitects.com | Scale<br>1:1250 @A3<br>Drawing Number - Revision:<br>**SRP1155-LBY-ZZ-ZZ-D-A-3000_P01** |




**KEY:**

- Site Boundary
- Existing Building
- New Build
- Demolished Building
- Hard Landscape
- Non-Net Parking/ Vehicle Access
- Non-Net Soft Landscape
- Woodland/ Dense Planting
- Watercourse
- Easement (Extent)
- Soft Outdoor PE
- Hard Outdoor PE
- Soft Informal and Social
- Site Pedestrian Entrance
- Site Vehicle Access
- Building Main Entrance
- Building Other Entrance
- Retained Secure Fence Line
- Slope
- 120 Contour
- Culvert
- Right of Way
- Major Services Route/ Sewer etc.
- Perimeter Fence 2.4m
- Existing Tree (Grade A/B)
- Proposed Tree

| | | | | | |
|---|---|---|---|---|---|
| Project: **Feasibility**<br>**UA Long Sutton** | Location:<br>84 Little London Long Sutton PE12 9LF | Drawing:<br>**Concept Development Option Site Plan 2** | MOTT MACDONALD | LYALL BILLS & YOUNG<br>Lyall Bills & Young Architects Ltd<br>Telephone House, 69-77 Paul Street<br>London EC2A 4NW<br>+44 (0) 20 7253 1630<br>www.lbyarchitects.com | Scale<br>1:1250 @A3<br>Drawing Number - Revision:<br>**SRP1155-LBY-ZZ-ZZ-D-A-3010_P01** |




**KEY:**

- Site Boundary
- Existing Building
- New Build
- Demolished Building
- Hard Landscape
- Non-Net Parking/ Vehicle Access
- Non-Net Soft Landscape
- Woodland/ Dense Planting
- Watercourse
- Easement (Extent)
- Soft Outdoor PE
- Hard Outdoor PE
- Soft Informal and Social
- Site Pedestrian Entrance
- Site Vehicle Access
- Building Main Entrance
- Building Other Entrance
- Retained Secure Fence Line
- Slope
- 120 Contour
- Culvert
- Right of Way
- Major Services Route/ Sewer etc.
- Perimeter Fence 2.4m
- Existing Tree (Grade A/B)
- Proposed Tree

N

| | | | | | |
|---|---|---|---|---|---|
| Project: **Feasibility**<br>**UA Long Sutton** | Location:<br>84 Little London Long Sutton PE12 9LF | Drawing:<br>**Concept Development Option Site Plan 3** | MOTT MACDONALD | LYALL BILLS & YOUNG<br>Lyall Bills & Young Architects Ltd<br>Telephone House, 69-77 Paul Street<br>London EC2A 4NW<br>+44 (0) 20 7253 1630<br>www.lbyarchitects.com | Scale<br>1:1250 @A3<br>Drawing Number - Revision:<br>**SRP1155-LBY-ZZ-ZZ-D-A-3020_P01** |




## Site Layout Plan – School Grounds

1. Access Point
2. Parking
3. Main School Building – EFAA
4. Temporary Buildings – EFAB and EFAC
5. Additional Classroom – EFAD
6. Nursery
7. Leisure Centre
8. Boiler Room
9. Water Tank – within tower
10. School Reception
11. Attenuation Pond
12. Electrical Substation
13. Open Space
14. Woodland
15. Area of refurbishment works
    (15a – Compound for refurbishment contractor)
16. Bike Storage
17. Fish Pond
18. Rain Shelter
19. Shelter
20. Waste Bins
21. Facilities Manager Workshop
22. Asphalt Playing Area
23. Historic Swimming Pool
24. Gravel Surfacing
25. Sand Pit
26. Playing Field
27. Sports Courts
28. Drainage Ditch
29. Solar Farm

# APPENDIX 2

## Site Walkover Photographs

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



1. Photo from the playground in the north of the site, looking west towards the access point at location 1a.

geotechnics

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



2. Photo from the car park at location 2b looking west towards the access point at location 1b.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



3. Photo from south of the nursery at location 6 facing west towards the access point at location 1c.

geotechnics

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



4. Photo from the car park at location 2b looking northwest towards the tower block at location 9.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



5. Photo of the surface water flooding at the car parking location 2c.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



6. Photo taken around location 24 facing west towards the temporary blocks at location 4.

Project Number : PC228532

Project : University Academy Long Sutton




7. Photo of block EFAD at location 5, taken facing northeast.

Project Number : PC228532

Project : University Academy Long Sutton



8. Photo taken of the northeastern face of the leisure centre at location 7.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



9. Photo taken inside the boiler room at location 8a.

Project Number : PC228532

Project : University Academy Long Sutton



10. Photo taken inside the boiler room at location 8a.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



11. Photo taken of the boiler room at location 8a.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



12. Photo facing east of the outside of the boiler room at location 8b.

Project Number : PC228532

Project : University Academy Long Sutton




13. Photo taken of the inside of the boiler room at location 8c.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



14. Photo of the outside of the school block housing the boiler room at location 8c.

geotechnics

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton




15. Photo taken facing north of the reception to the school at location 10.

geotechnics

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



16. Photo taken facing northwest towards the parking at location 2b and school recption at location 10.

geotechnics

Project Number : PC228532

Project : University Academy Long Sutton



17. Photo taken facing south towards the boundary of the attenuation pond at location 11.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



18. Photo facing west of the electrical substation at location 12.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



19. Photo facing northwest from location 13 towards location 12.

geotechnics

Project Number : PC228532

Project : University Academy Long Sutton



20. Photo facing southeast from location 12 towards location 13.

Project Number : PC228532

Project : University Academy Long Sutton



21. Photo of the woodland at location 14.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



22. Photo facing west of the compound area for the refurbishment works at location 15a.

Project Number : PC228532

Project : University Academy Long Sutton



23. Photo of the bike storage area at location 16.

Project Number : PC228532

Project : University Academy Long Sutton



24. Photo of the fish pond at location 17.

Project Number : PC228532

Project : University Academy Long Sutton



25. Photo of the rain shelter at location 18.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton




26. Photo facing northwest of the shelter at location 19.

geotechnics

Project Number : PC228532

Project : University Academy Long Sutton




27. Photo of the waste disposal area at location 20.

Project Number : PC228532

Project : University Academy Long Sutton




28. Photo of the waste disposal area at location 20.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



29. Photo facing northeast over the play area at location 22, showing surface water flooding.

Project Number : PC228532

Project : University Academy Long Sutton



30. Photo facing west over the play area at location 22, showing surface water flooding.

Project Number : PC228532

Project : University Academy Long Sutton



31. Photo facing northwest from location 23 towards some of the school buildings.

Project Number : PC228532

Project : University Academy Long Sutton



32. Photo facing south over the gravel surfacing and sand pit at locations 24 and 25.

Project Number : PC228532

Project : University Academy Long Sutton



33. Photo from location 8b facing north showing the basketball courts and the northern end of location 26.

Project Number : PC228532

Project : University Academy Long Sutton



34. Photo of the sports field at location 26.

Project Number : PC228532

Project : University Academy Long Sutton



35. Photo of the southern end of the playing field at location 26.

Project Number : PC228532

Project : University Academy Long Sutton



36. Photo facing east over the sports courts at location 27.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



37. Photo from location 2c facing southeast over the green space to the southwest of the sports courts.

# PHOTOGRAPHS

Project Number : PC228532

Project : University Academy Long Sutton



38. Photo facing northeast along the boundary between the sports courts and the southern site boundary.

geotechnics

Project Number : PC228532

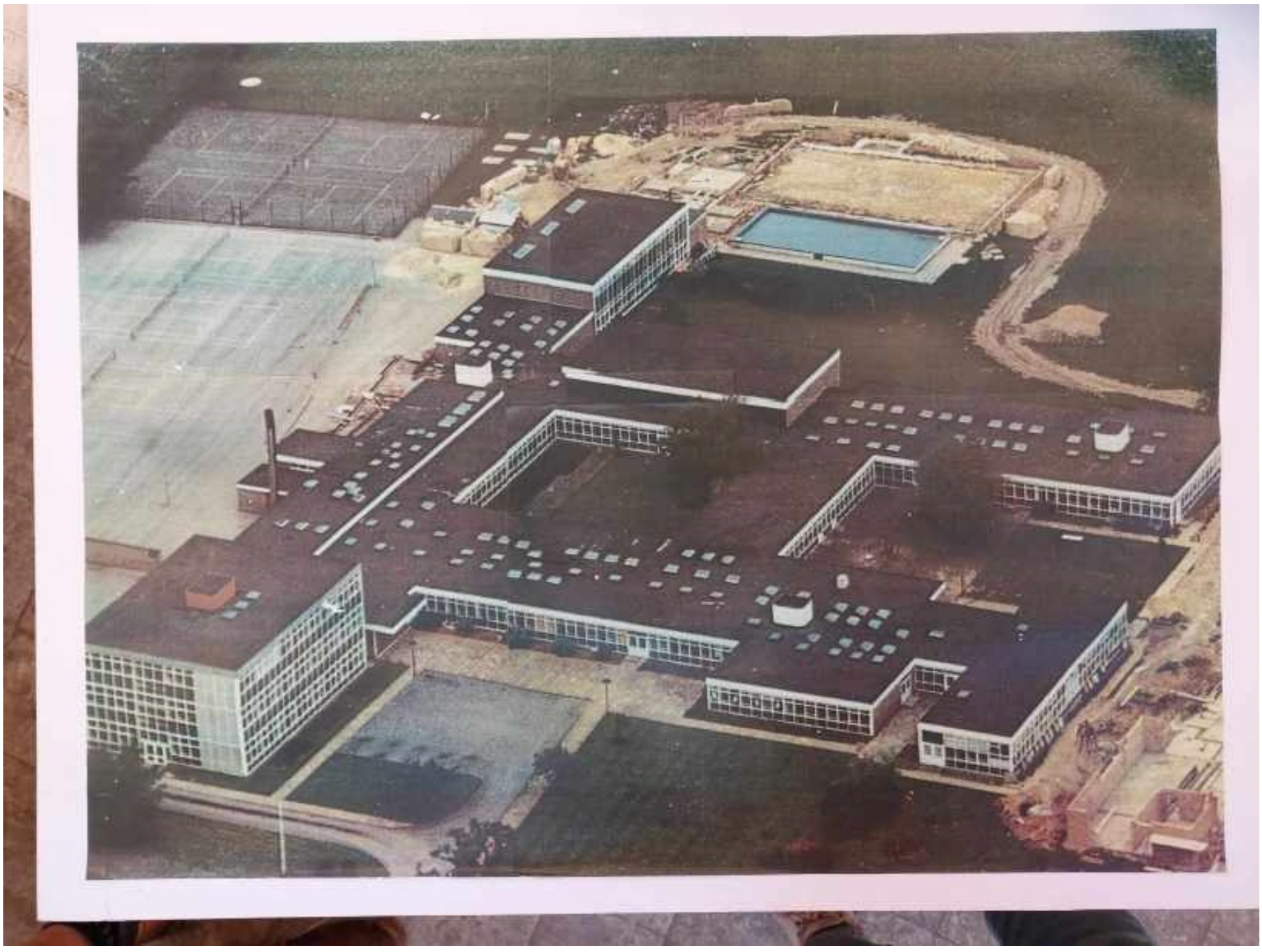
Project : University Academy Long Sutton



39. Photo of the drainage ditch at location 28 along the southern boundary of the site.

Project Number : PC228532

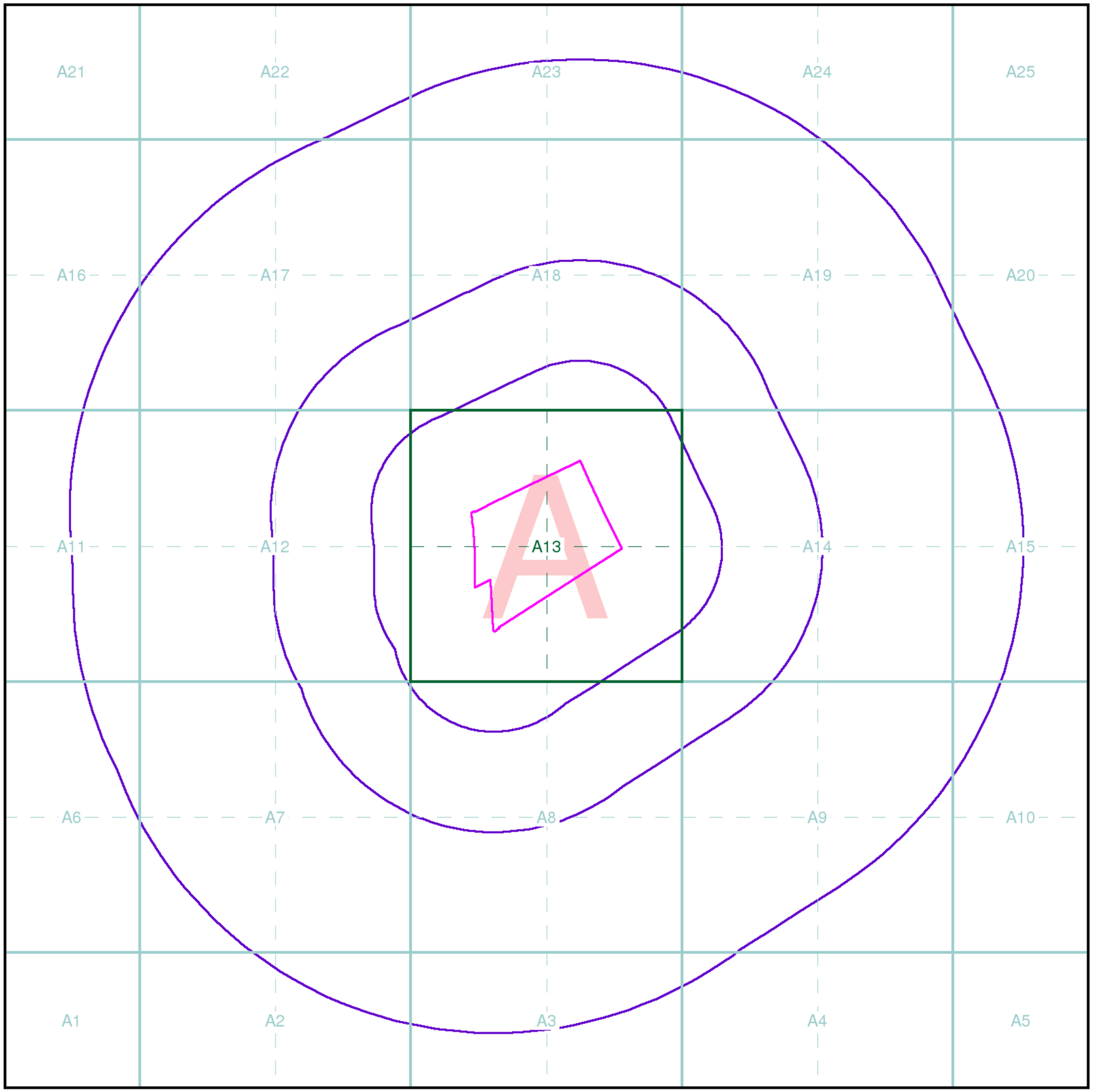
Project : University Academy Long Sutton



40. Photo of an aerial photograph of the site found in the facility manager's workshop.

# APPENDIX 3

## Envirocheck, Historical Maps and UXO Report




MOTT MACDONALD

## Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

**Slice**
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

**Segment**
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

**Quadrant**
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Map data | British Geological Survey, NATURAL ENVIRONMENT RESEARCH COUNCIL | Environment Agency | NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

## Client Details

Mrs N Kingdon, Mott Macdonald, 2nd Floor, East Wing, 69-75 Thorpe Road, Norwich, Norfolk, NR1 1UA

## Order Details

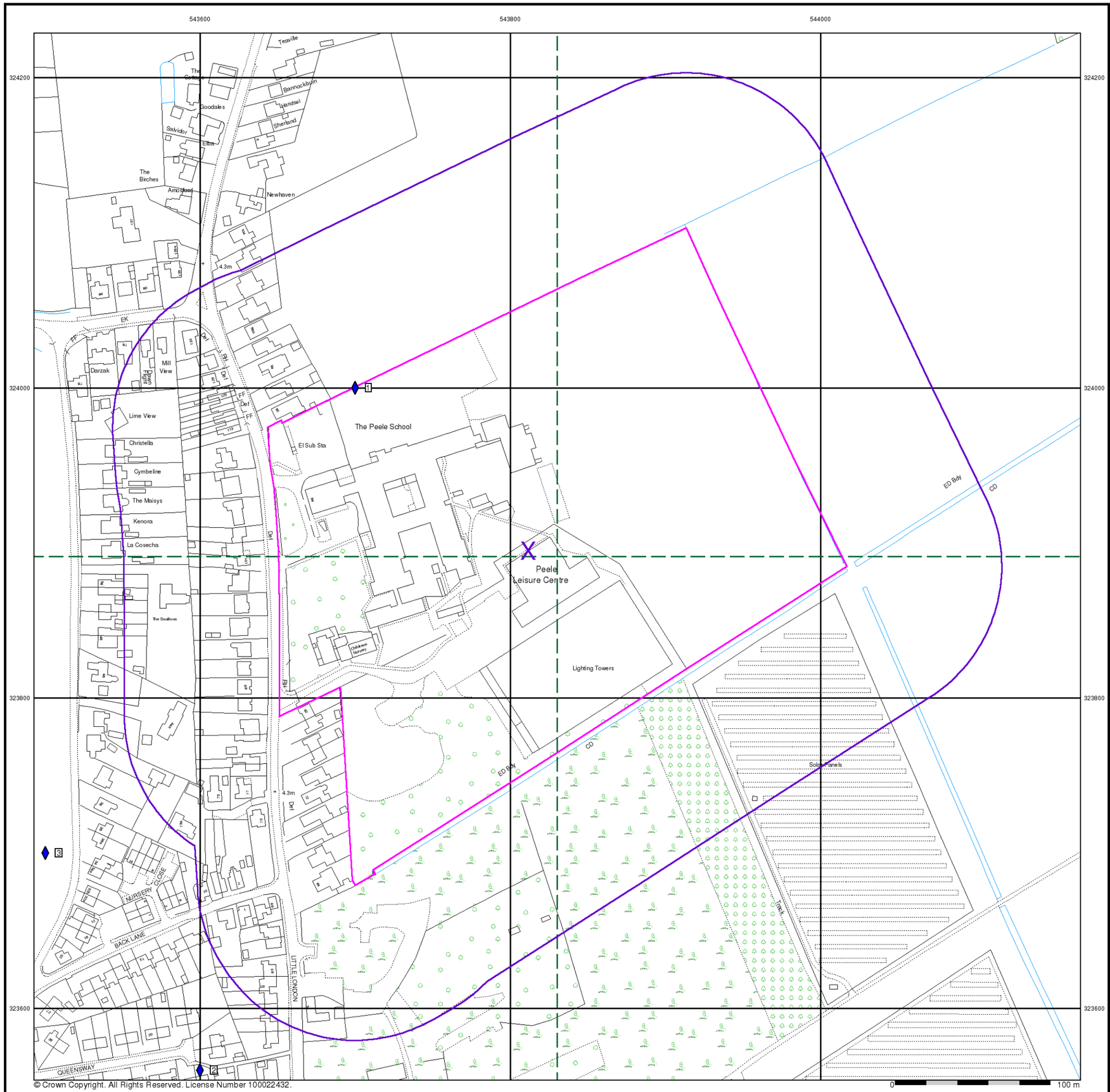
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| National Grid Reference: | 543810, 323900 |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF

**Full Terms and Conditions can be found on the following link:**
http://www.landmarkinfo.co.uk/Terms/Show/515

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




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MOTT MACDONALD

## General

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

## Agency and Hydrological

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

## Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

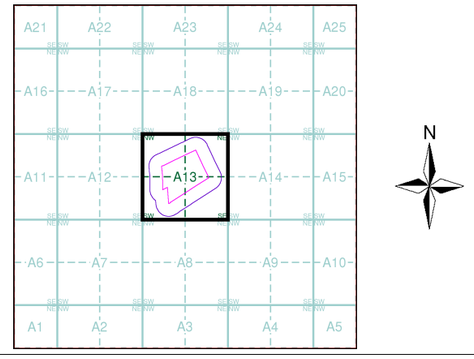
## Geological

- BGS Recorded Mineral Site

## Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

## Site Sensitivity Map - Segment A13



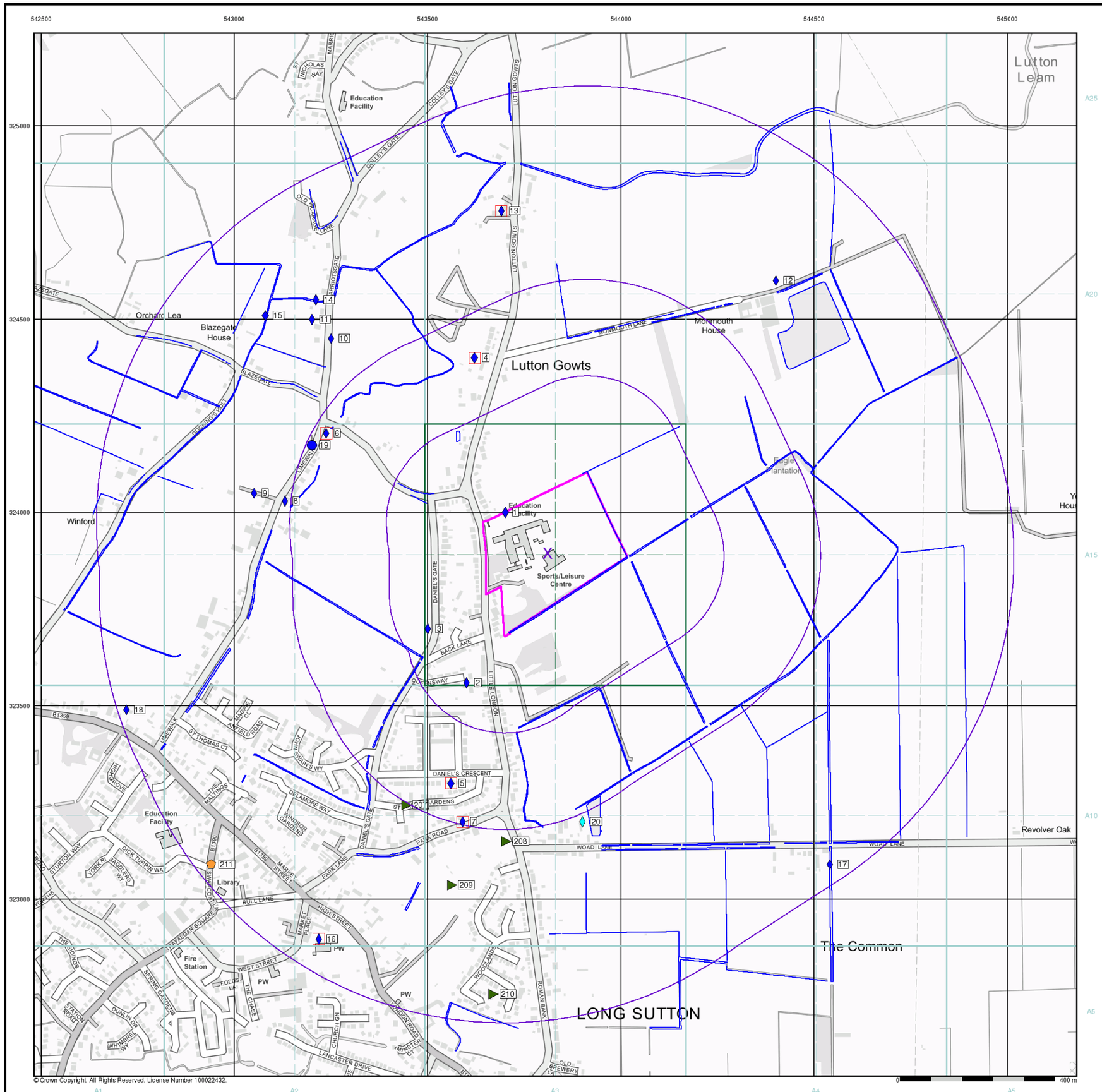

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| National Grid Reference: | 543810, 323890 |
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| Site Area (Ha): | 8.94 |
| Plot Buffer (m): | 100 |

## Site Details

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0 400 m

A1 A2 A3 A4 A5

**MOTT MACDONALD**

## General

Specified Site · Specified Buffer(s) · Bearing Reference Point · Map ID

Several of Type at Location

## Agency and Hydrological

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

## Hazardous Substances

COMAH Site · Explosive Site

- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

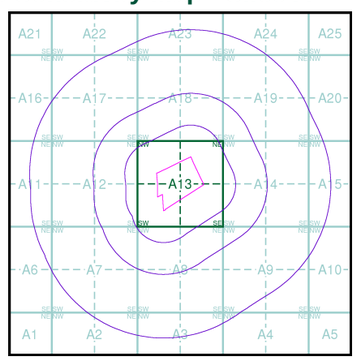
## Geological

- BGS Recorded Mineral Site

## Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
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- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

## Site Sensitivity Map - Slice A



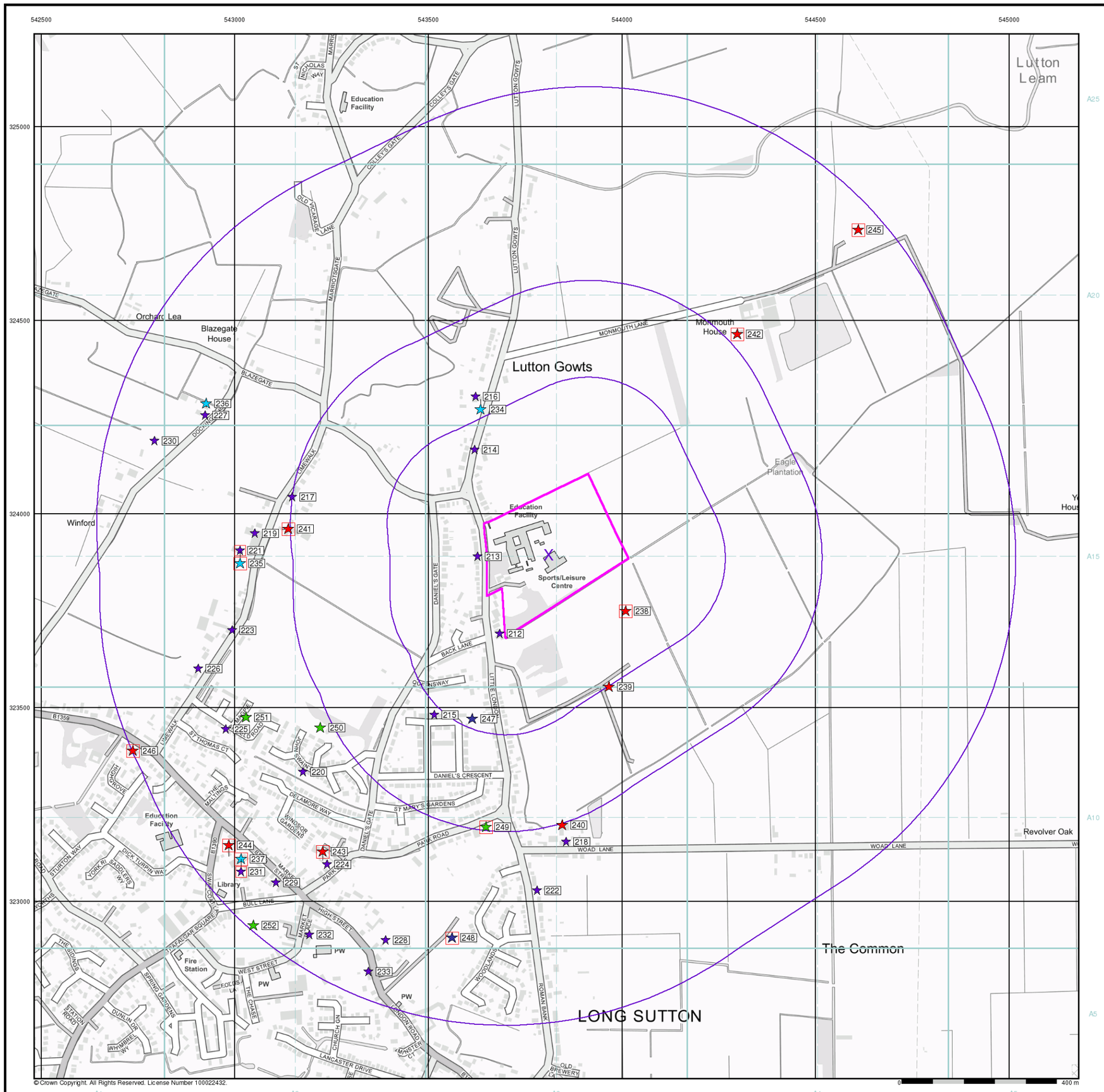

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| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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# M M

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## Industrial Land Use Map

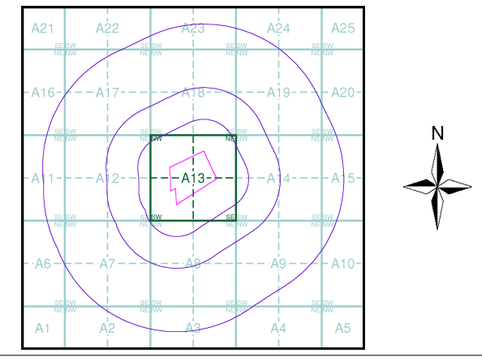
### General

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

### Industrial Land Use

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

### Industrial Land Use Map - Slice A




### Order Details

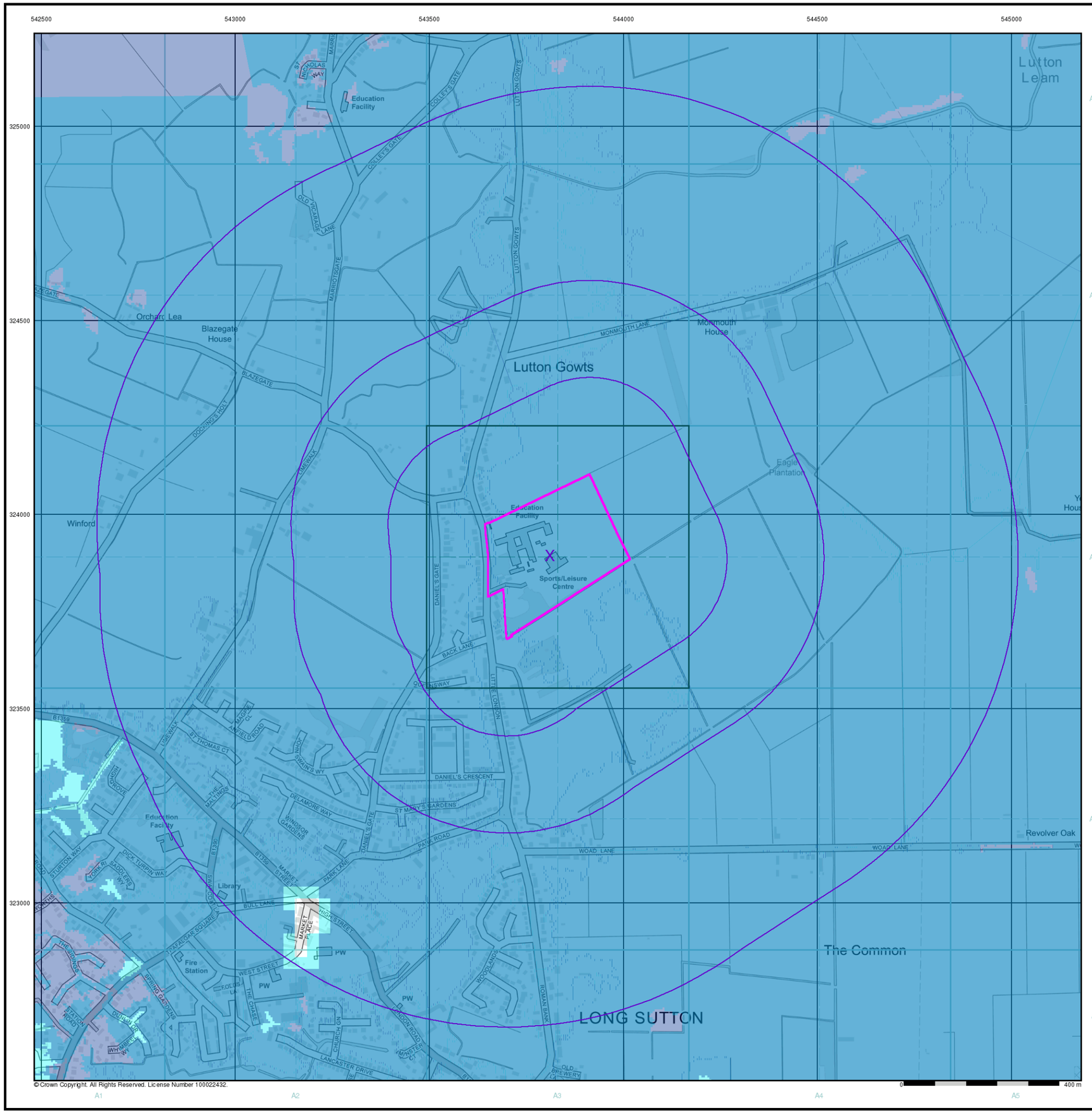
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| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

### Site Details

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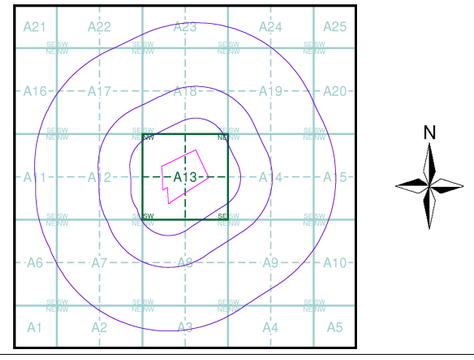
## General

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

## Agency and Hydrological (Flood)

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

## Flood Map - Slice A




## Order Details

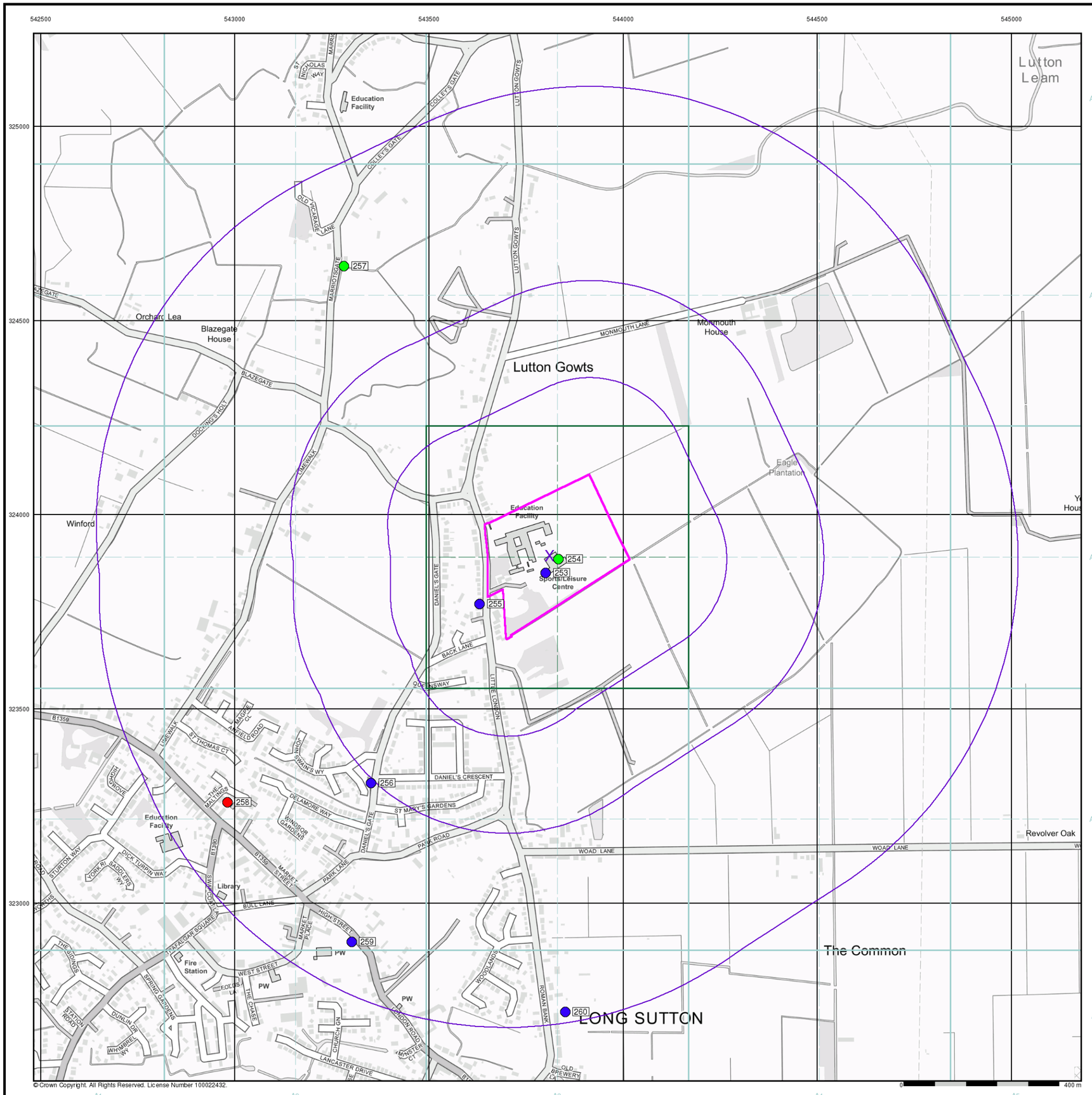
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| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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## General

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

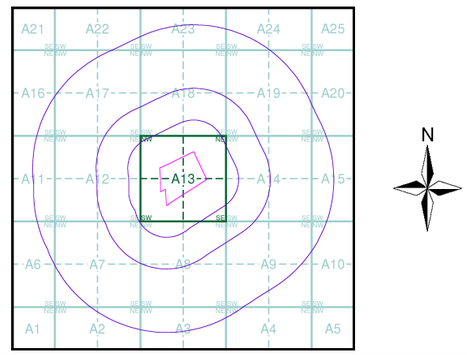
## Agency and Hydrological (Boreholes)

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

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

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

## Borehole Map - Slice A




## Order Details

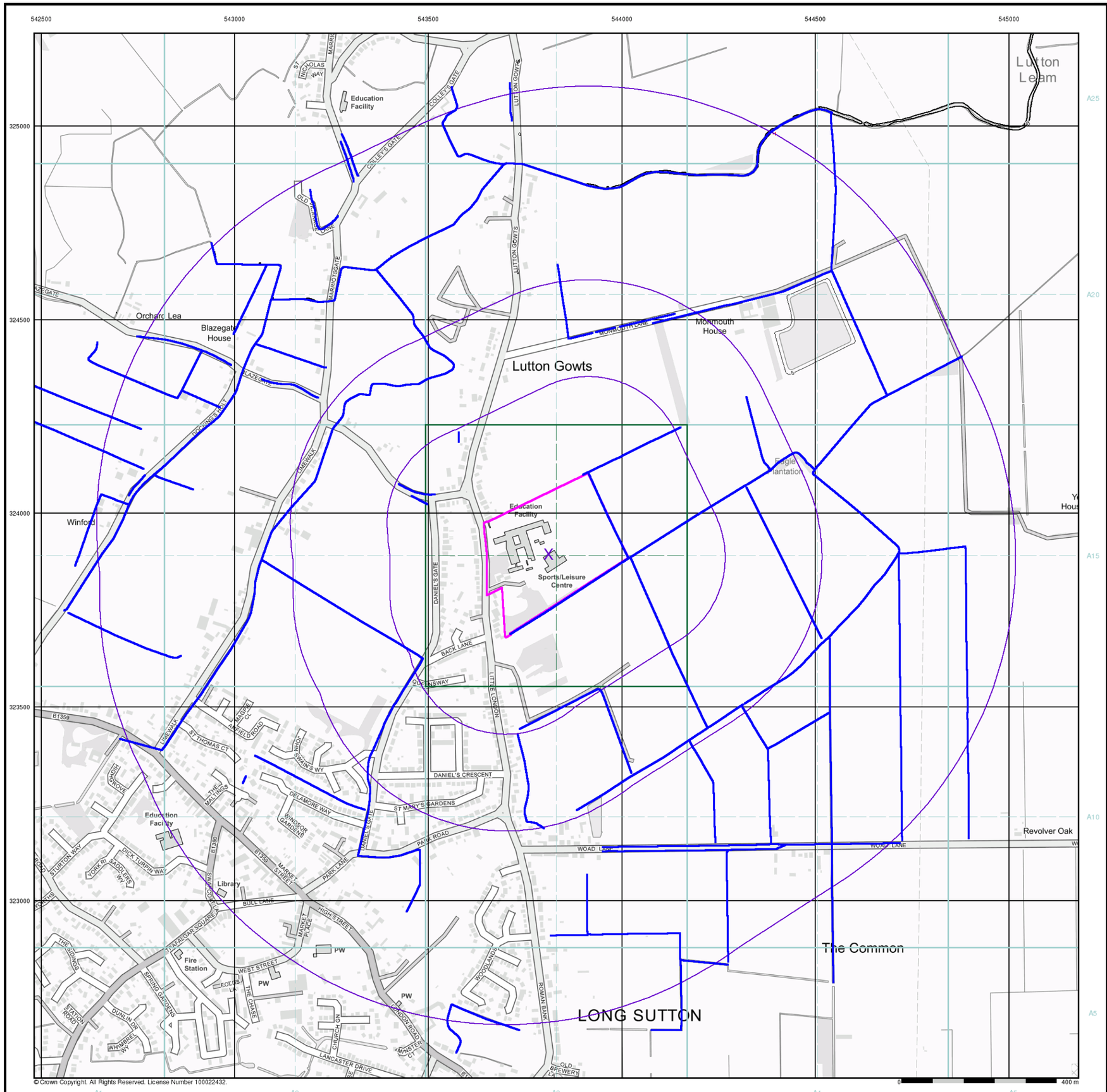
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## General

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

## OS Water Network Data

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

## Contours (height in meters)

Standard Contour 105 100 95

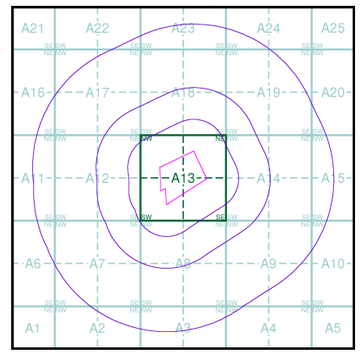
Master Contour

Spot Height 167.3

MLW Mean Low Water

MHW Mean High Water

## OS Water Network Map - Slice A




## Order Details

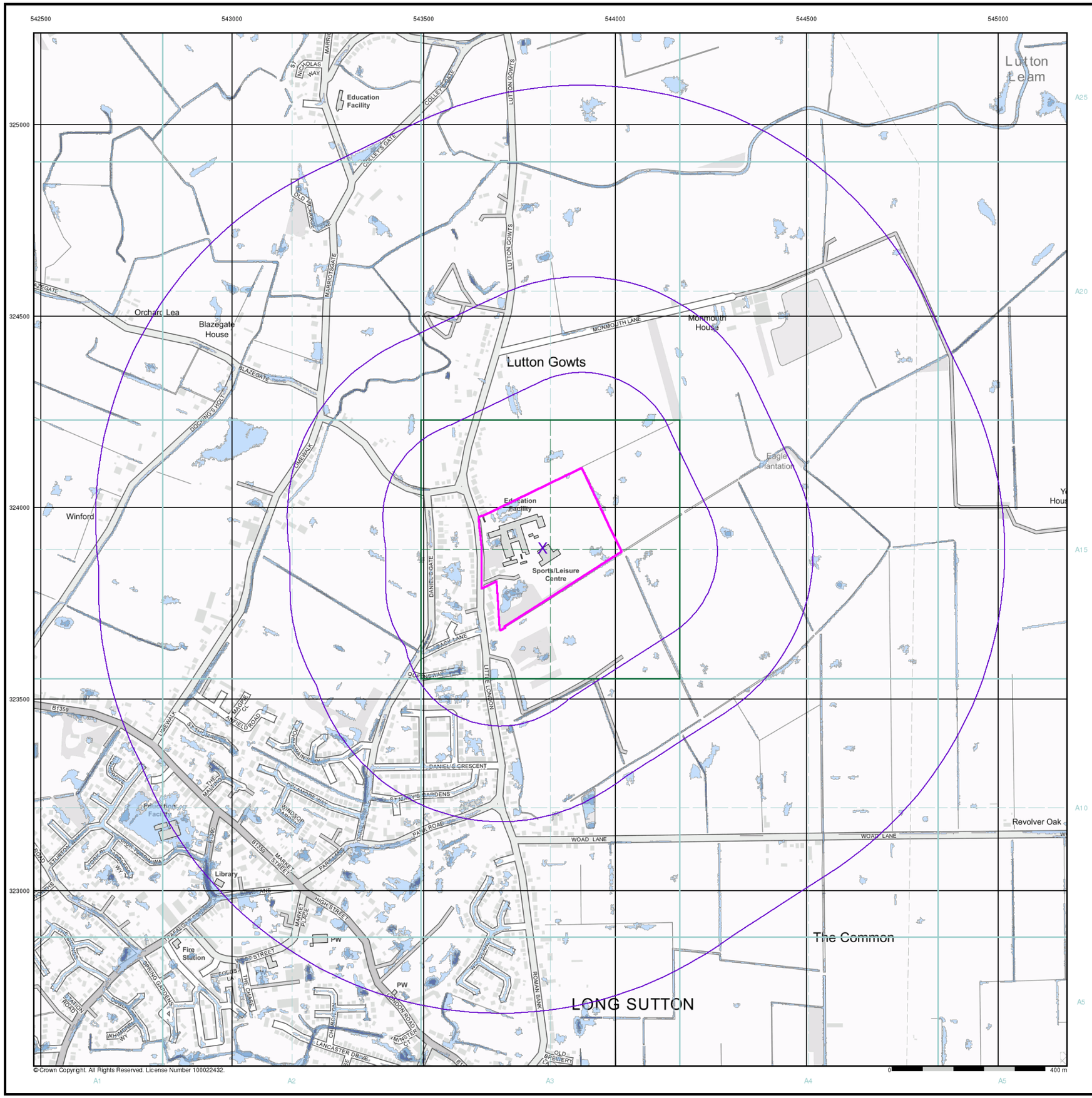
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|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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## General

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

## Risk of Flooding from Surface Water

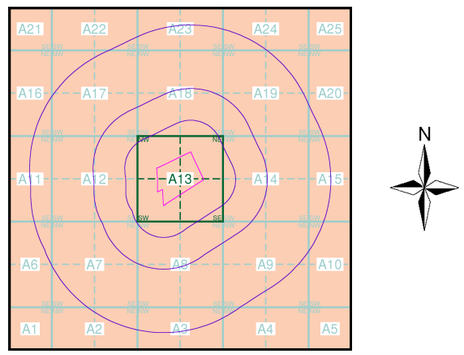
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

## Suitability

See the suitability map below

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

## EA/NRW Suitability Map - Slice A




## Order Details

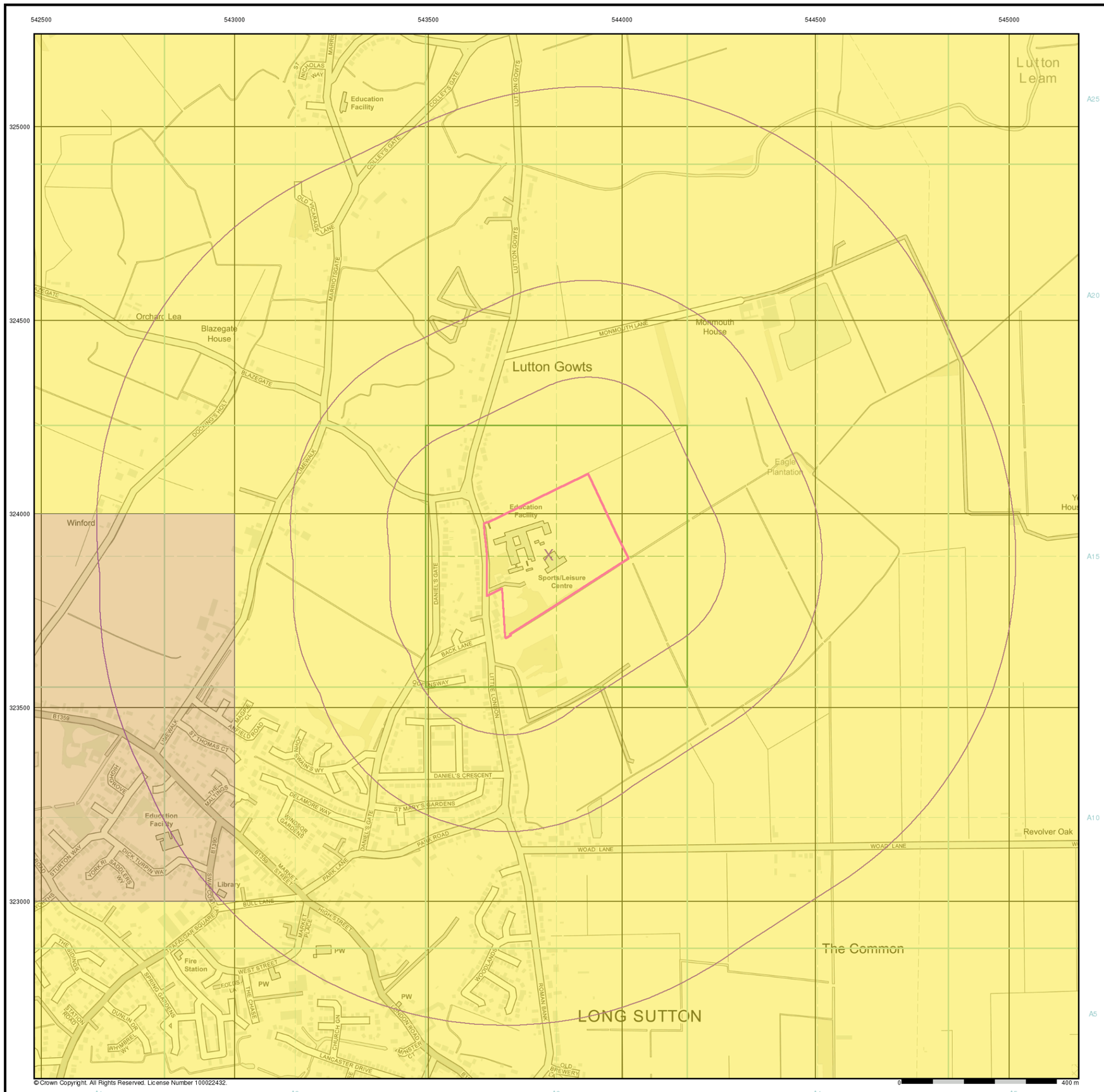
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|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
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## General

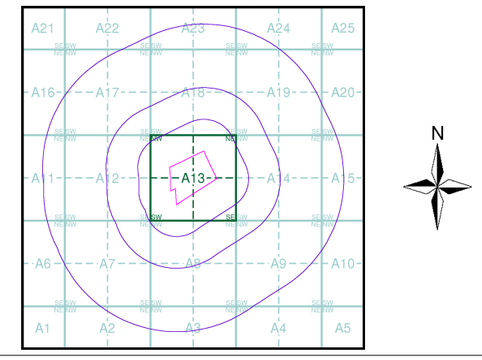
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

- < 15
- 15 - 25
- 25 - 35
- 35 - 45
- 45 - 60
- 60 - 120
- > 120

## Estimated Soil Chemistry Arsenic - Slice A




## Order Details

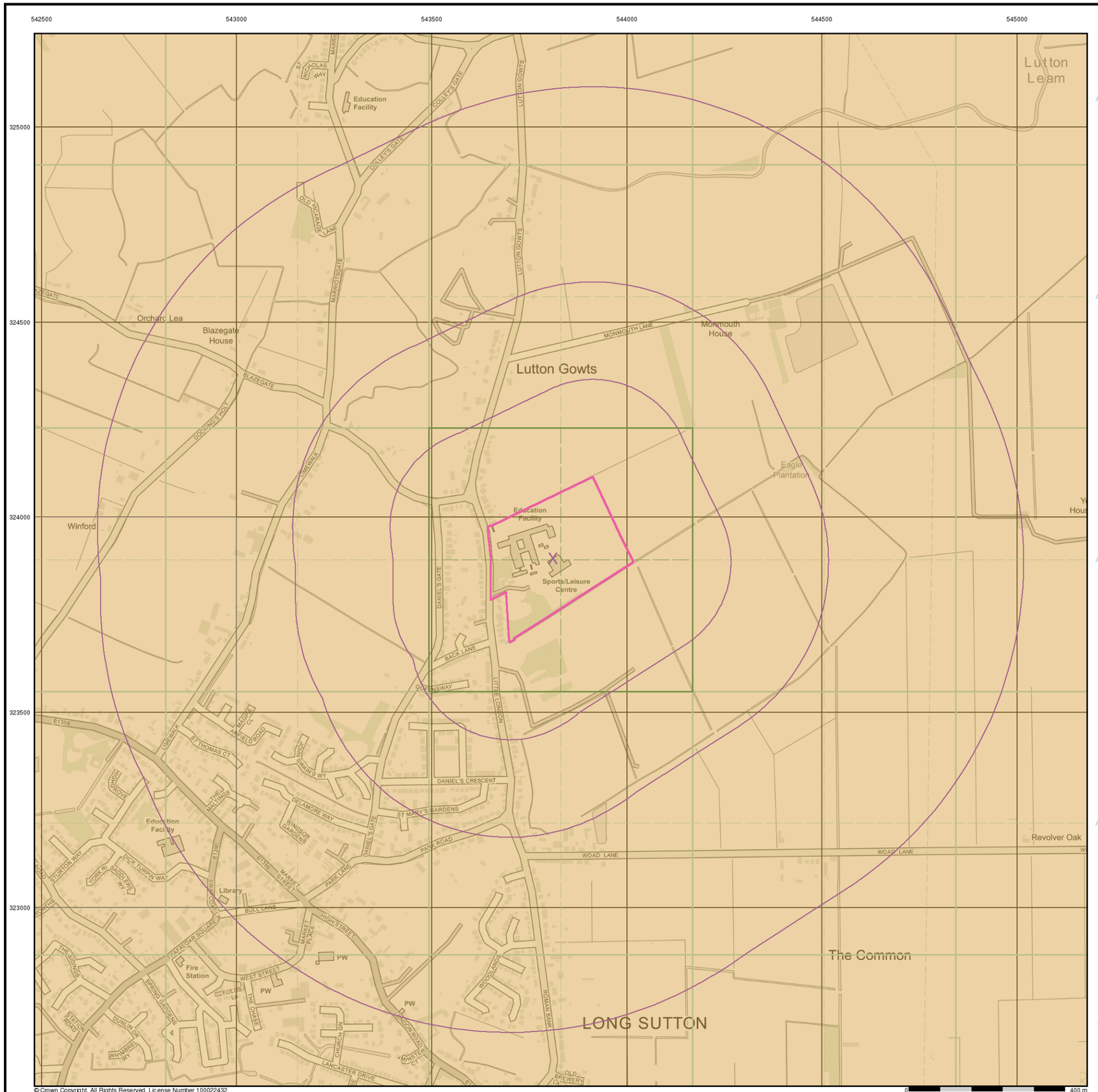
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|---|---|
| Order Details: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
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## General

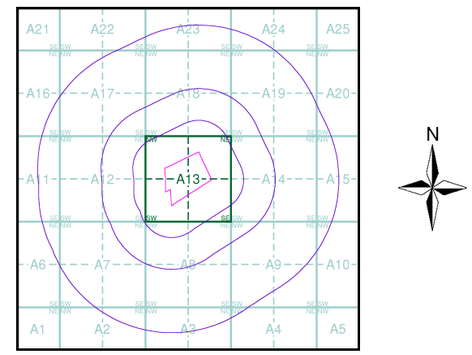
Specified Site | Specified Buffer(s) | Bearing Reference Point

## Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

- < 1.8
- 1.8 - 2.2
- 2.2 - 3.0
- > 3.0

## Estimated Soil Chemistry Cadmium - Slice A




## Order Details

| | |
|---|---|
| Order Details: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
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## General

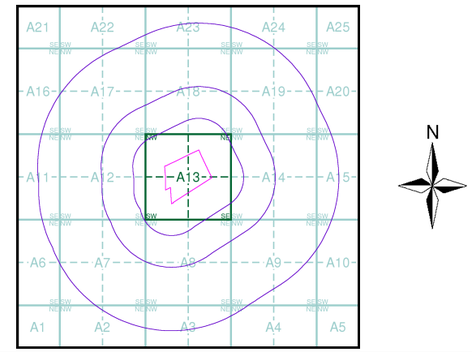
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

- < 20
- 20 - 40
- 40 - 60
- 60 - 90
- 90 - 120
- 120 - 180
- > 180

## Estimated Soil Chemistry Chromium - Slice A



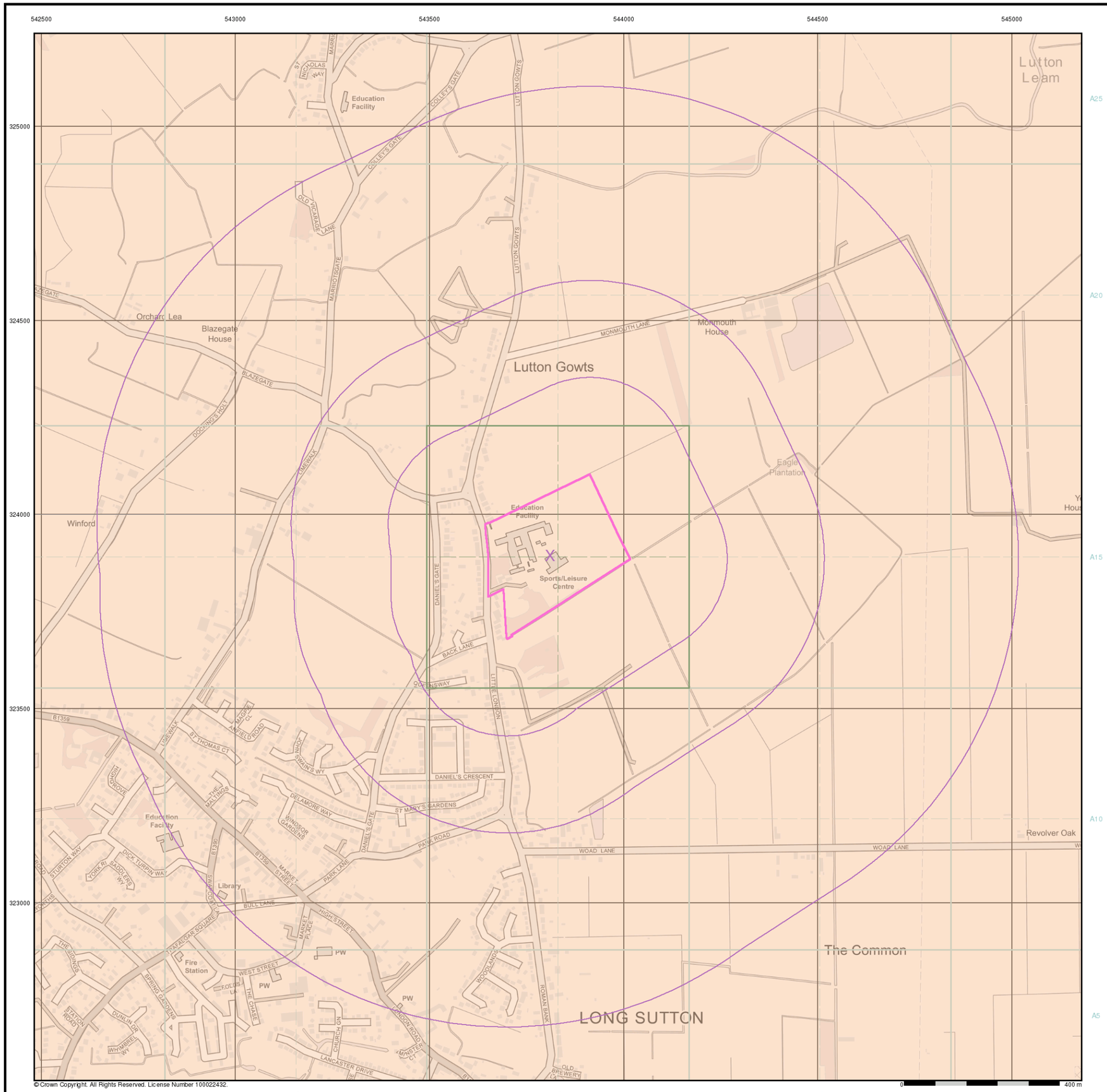

## Order Details

| | |
|---|---|
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| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
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## General

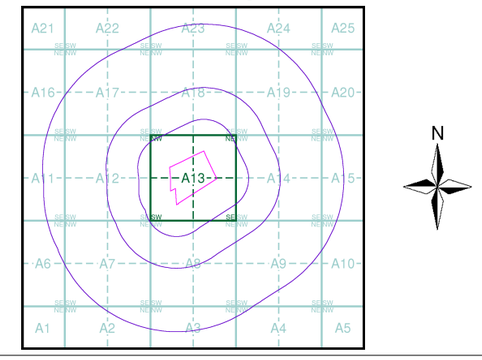
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

- <100 mg/kg
- 100 - 200
- 200 - 300
- 300 - 600
- 600 - 1200
- >1200

## Estimated Soil Chemistry Lead - Slice A




## Order Details

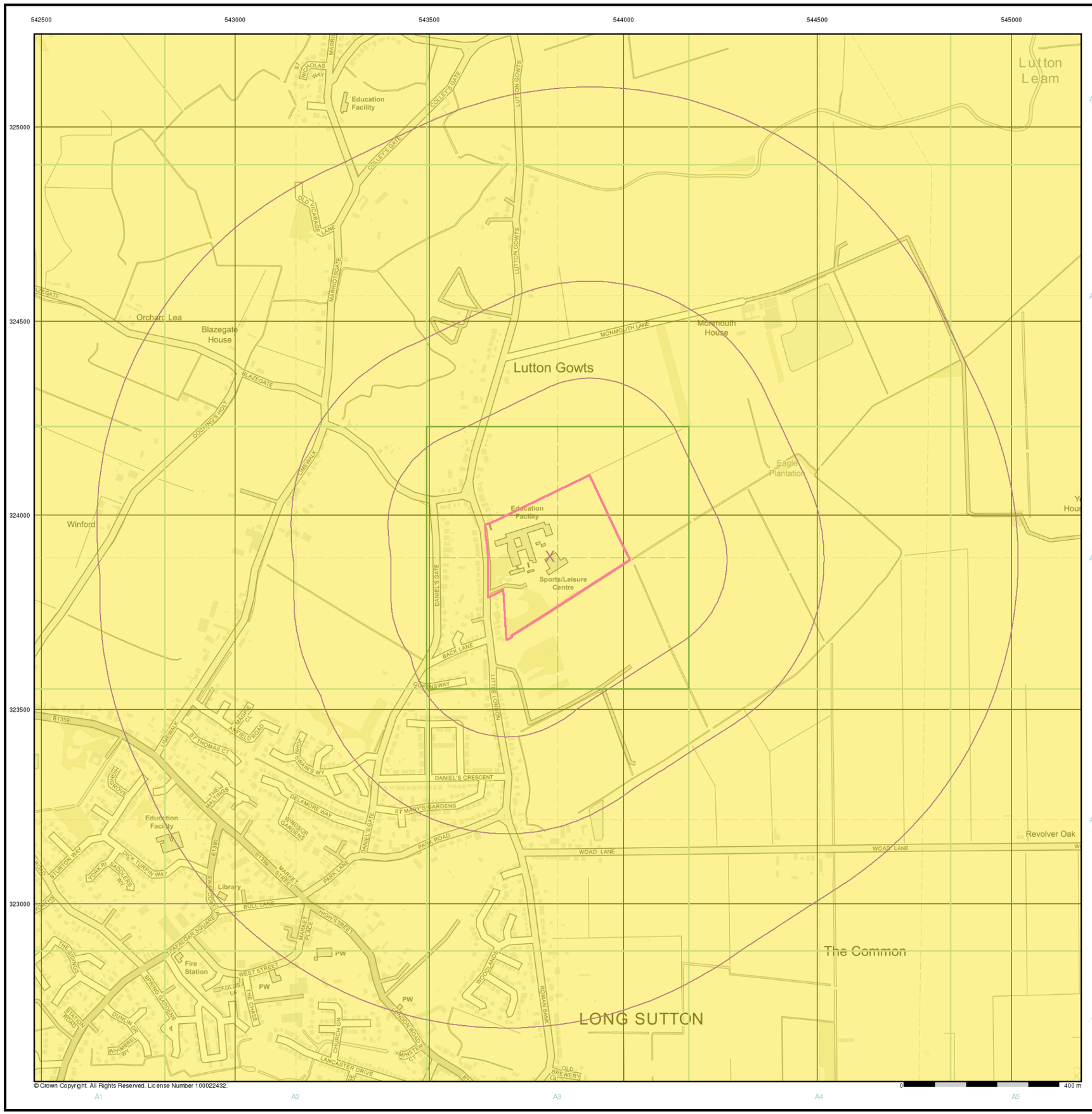
| | |
|---|---|
| Order Details: | 301186054_1_1 |
| Customer Ref: | 100110480 |
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## General

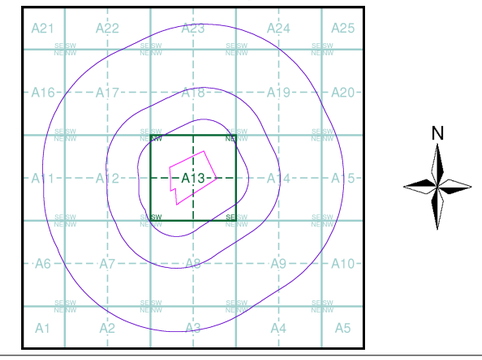
Specified Site | Specified Buffer(s) | X Bearing Reference Point

## Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

- < 15
- 15 - 30
- 30 - 45
- 45 - 60
- 60 - 80
- 80 - 100
- > 100

## Estimated Soil Chemistry Nickel - Slice A




## Order Details

| | |
|---|---|
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# Geology 1:50,000 Maps Legends

## Superficial Geology

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | TFD | Tidal Flat Deposits | Clay and Silt | Not Supplied - Holocene |

## Bedrock and Faults

| Map Colour | Lex Code | Rock Name | Rock Type | Min and Max Age |
|---|---|---|---|---|
| | AMC | Ampthill Clay Formation | Mudstone | Not Supplied - Oxfordian |

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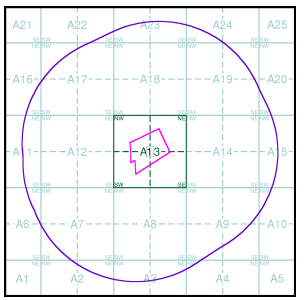
## Geology 1:50,000 Maps

This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.
The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

## Geology 1:50,000 Maps Coverage

| | |
|---|---|
| **Map ID:** | **1** |
| **Map Sheet No:** | **145** |
| **Map Name:** | **King's Lynn and** |
| **Map Date:** | **1978** |
| **Bedrock Geology:** | **Available** |
| **Superficial Geology:** | **Available** |
| **Artificial Geology:** | **Available** |
| **Faults:** | **Not Supplied** |
| **Landslip:** | **Available** |
| **Rock Segments:** | **Not Supplied** |

## Geology 1:50,000 Maps - Slice A

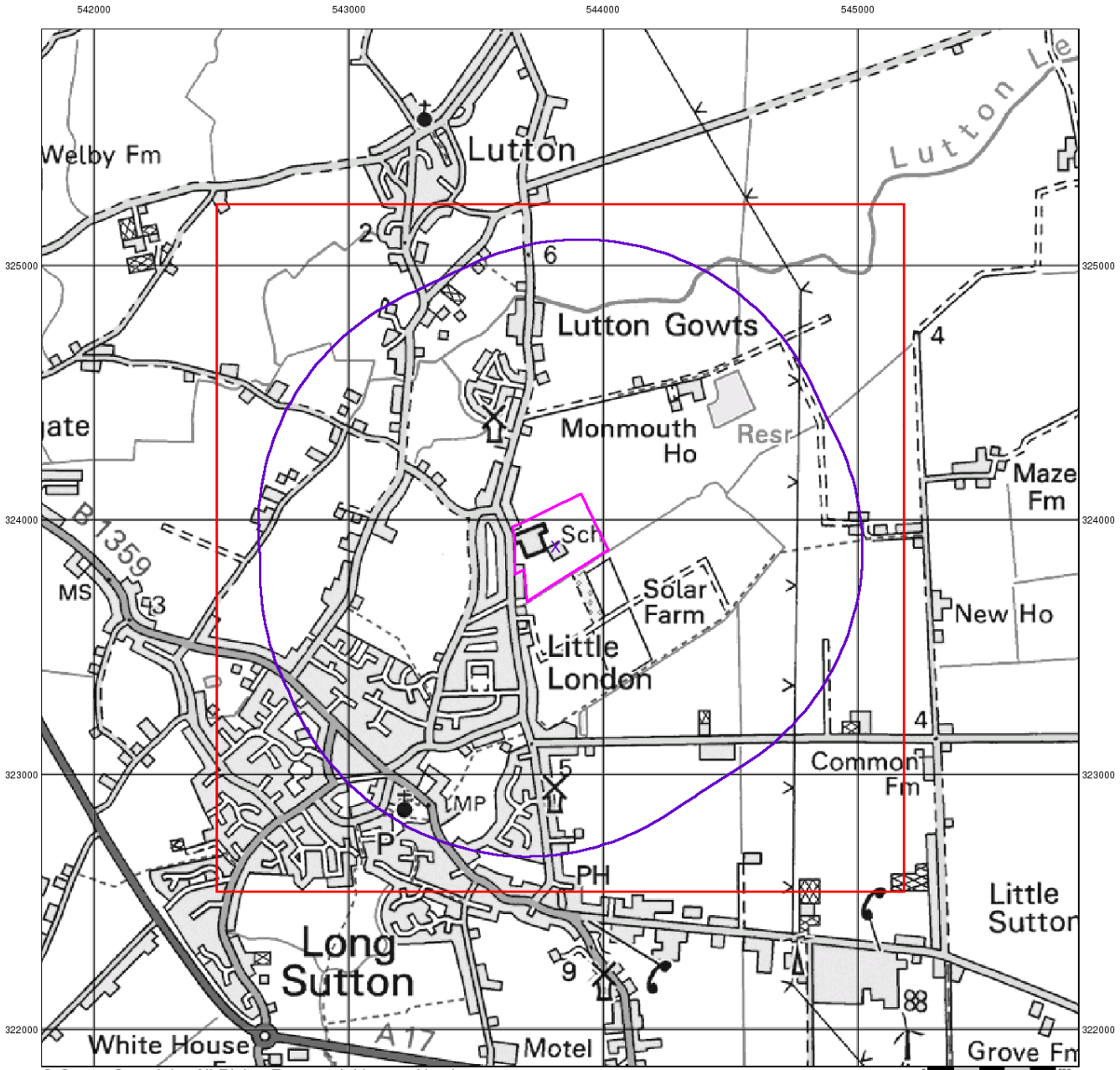



## Order Details:

| | |
|---|---|
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## Artificial Ground and Landslip

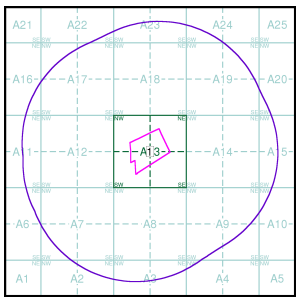
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

## Artificial Ground and Landslip Map - Slice A

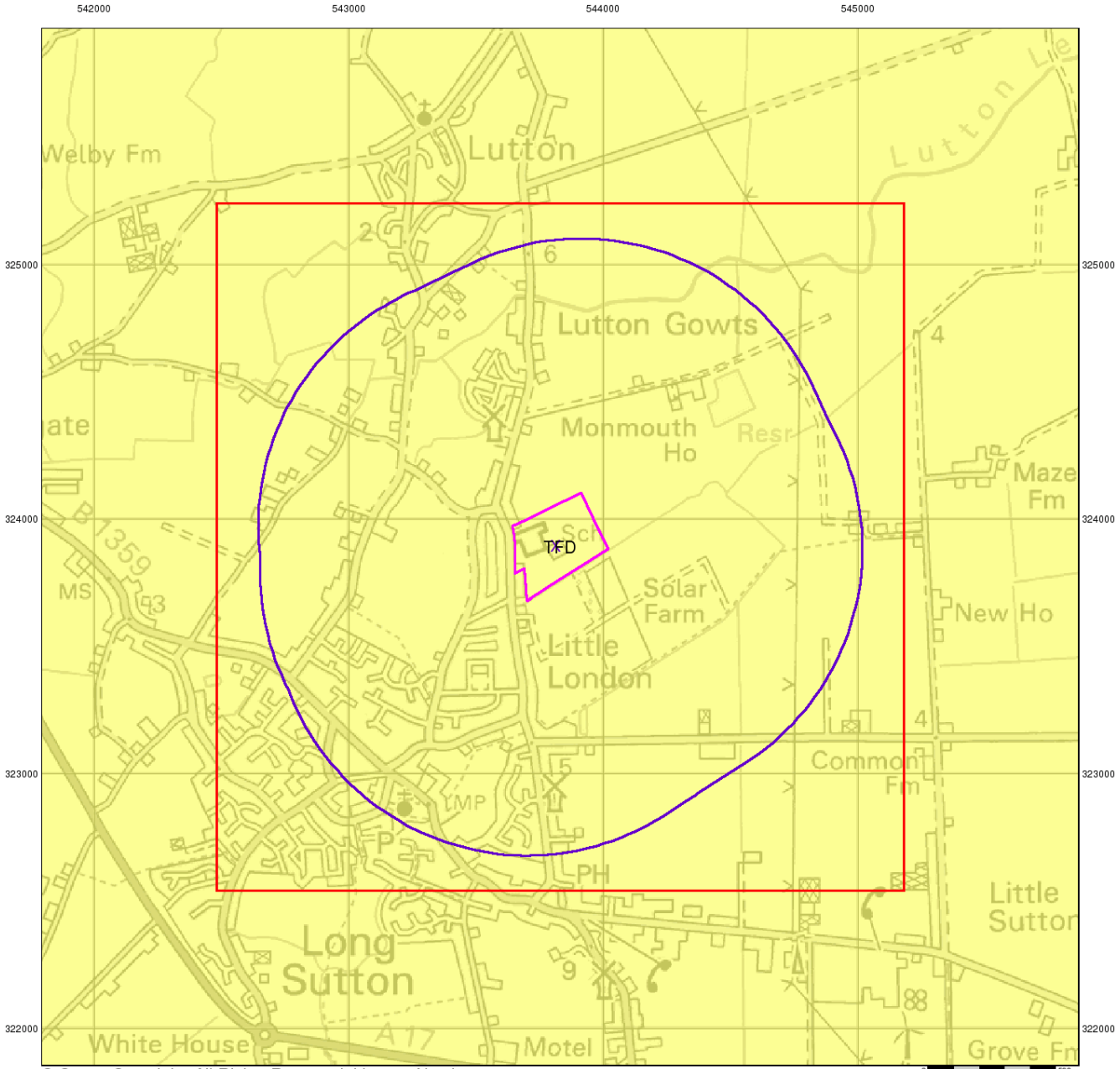



## Order Details:

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Reference: | 100110480 |
| National Grid Reference: | 543810, 323890 |
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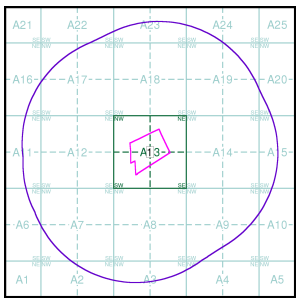
## Superficial Geology

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

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

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

## Superficial Geology Map - Slice A



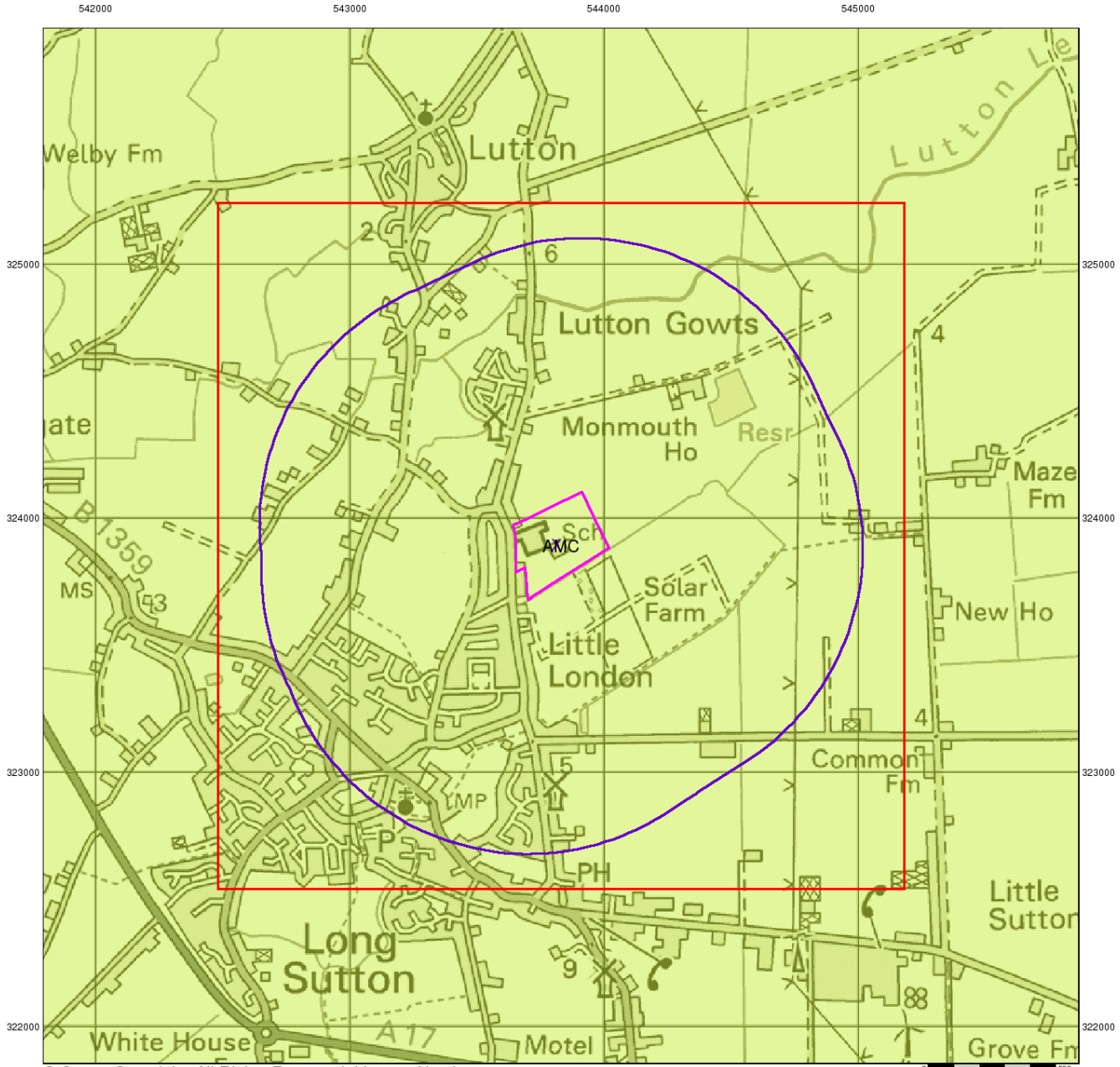

## Order Details:

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|---|---|
| Order Number: | 301186054_1_1 |
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## Bedrock and Faults

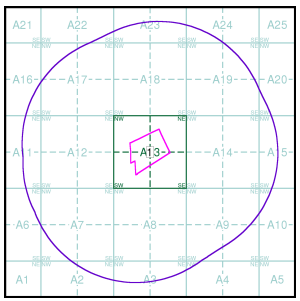
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

## Bedrock and Faults Map - Slice A



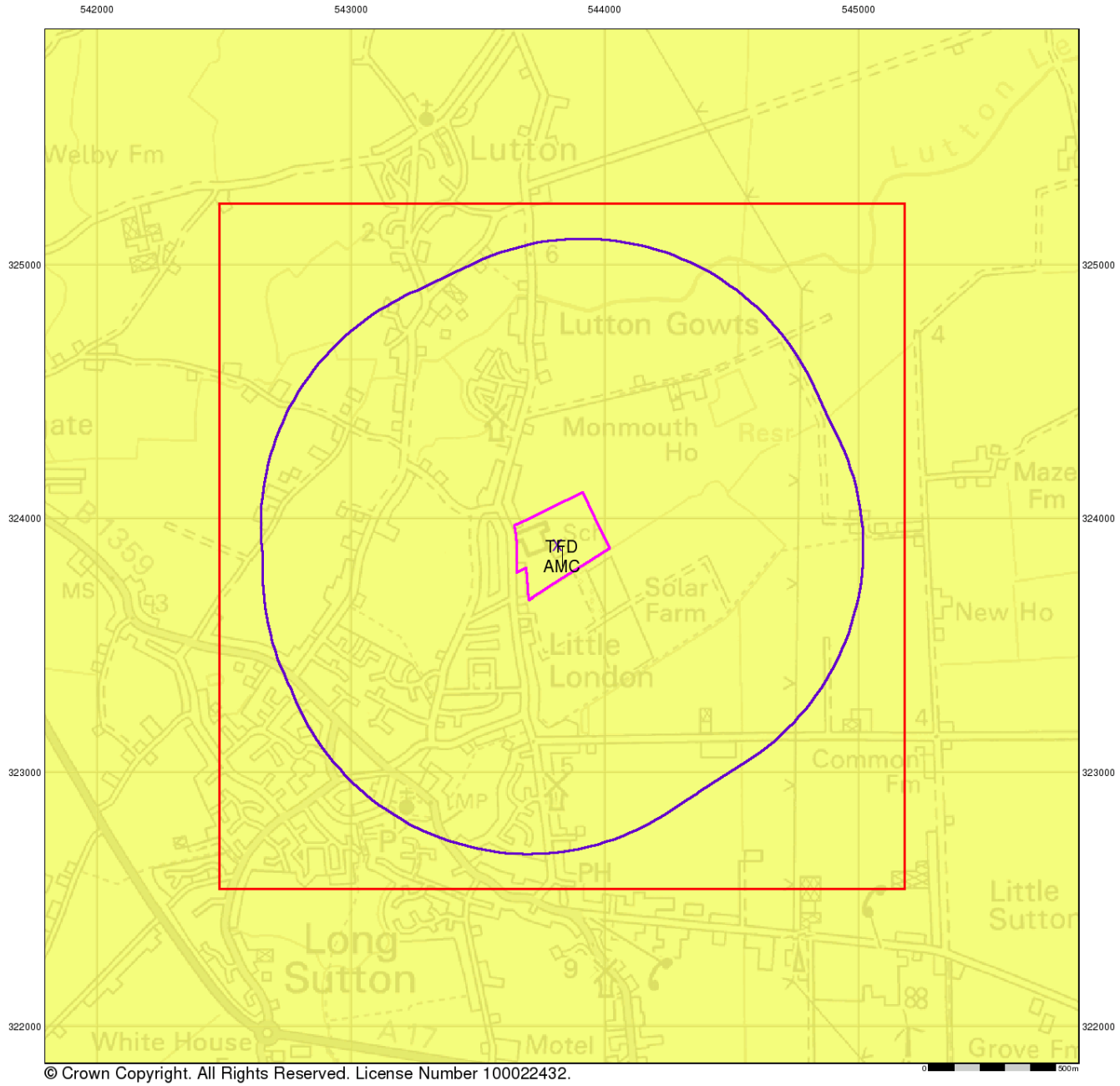

## Order Details:

| | |
|---|---|
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## Combined Surface Geology

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

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

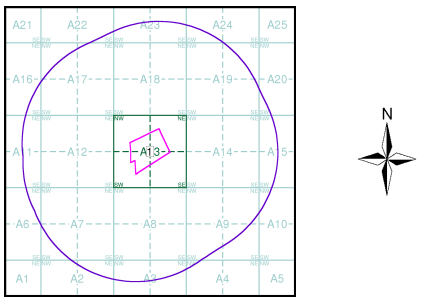
## Additional Information

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

## Contact

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

## Combined Geology Map - Slice A

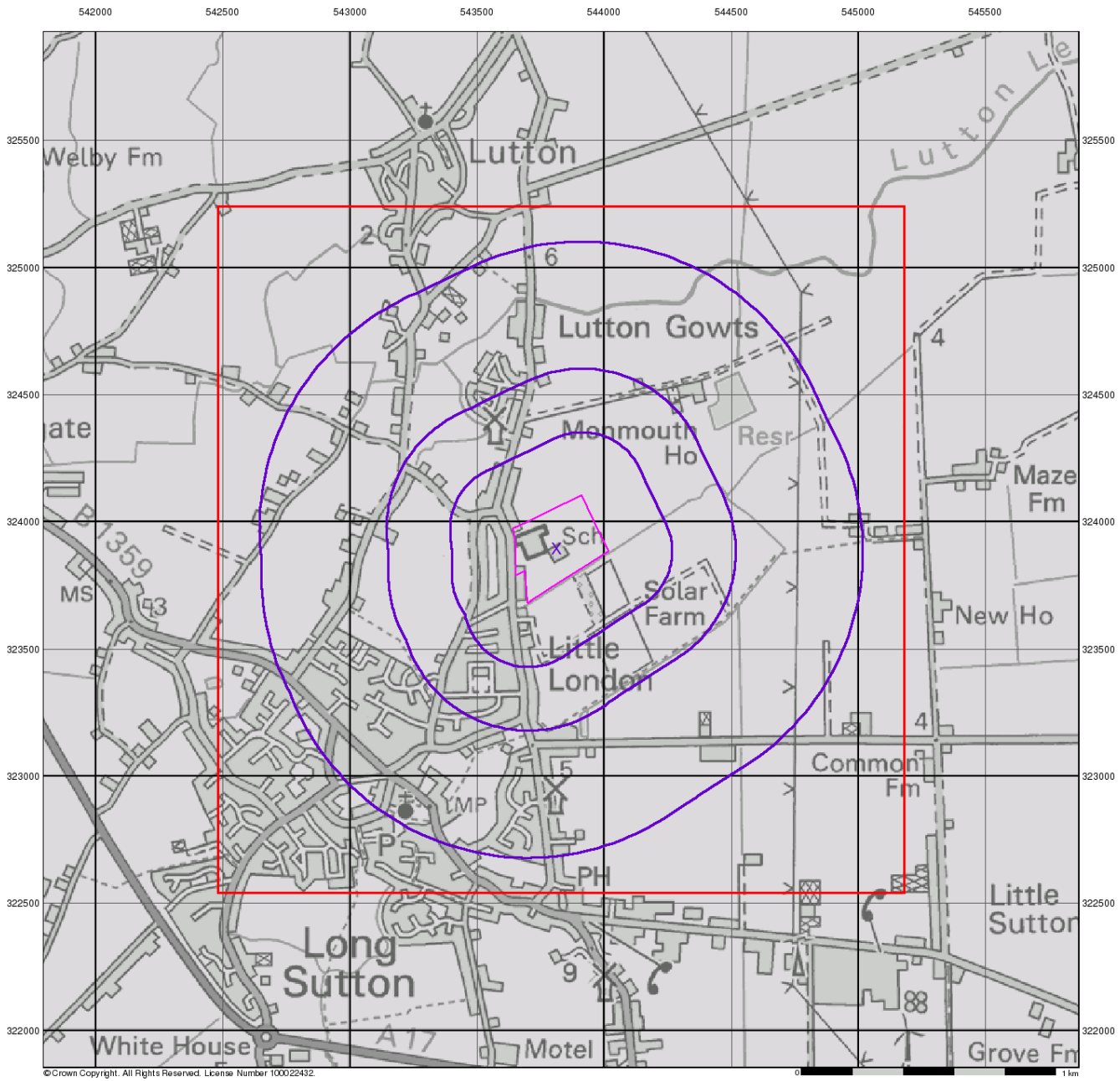



## Order Details:

| | |
|---|---|
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# Groundwater Vulnerability

## General

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

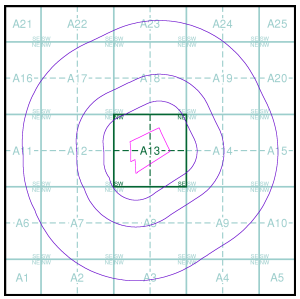
## Agency and Hydrological

| Bedrock Aquifers | Superficial Aquifers |
|---|---|
| High Vulnerability, Principal Aquifer | High Vulnerability, Principal Aquifer |
| High Vulnerability, Secondary Aquifer | High Vulnerability, Secondary Aquifer |
| Medium Vulnerability, Principal Aquifer | Medium Vulnerability, Principal Aquifer |
| Medium Vulnerability, Secondary Aquifer | Medium Vulnerability, Secondary Aquifer |
| Low Vulnerability, Principal Aquifer | Low Vulnerability, Principal Aquifer |
| Low Vulnerability, Secondary Aquifer | Low Vulnerability, Secondary Aquifer |

Unproductive Aquifer

Soluble Rock

## Site Sensitivity Context Map - Slice A




## Order Details

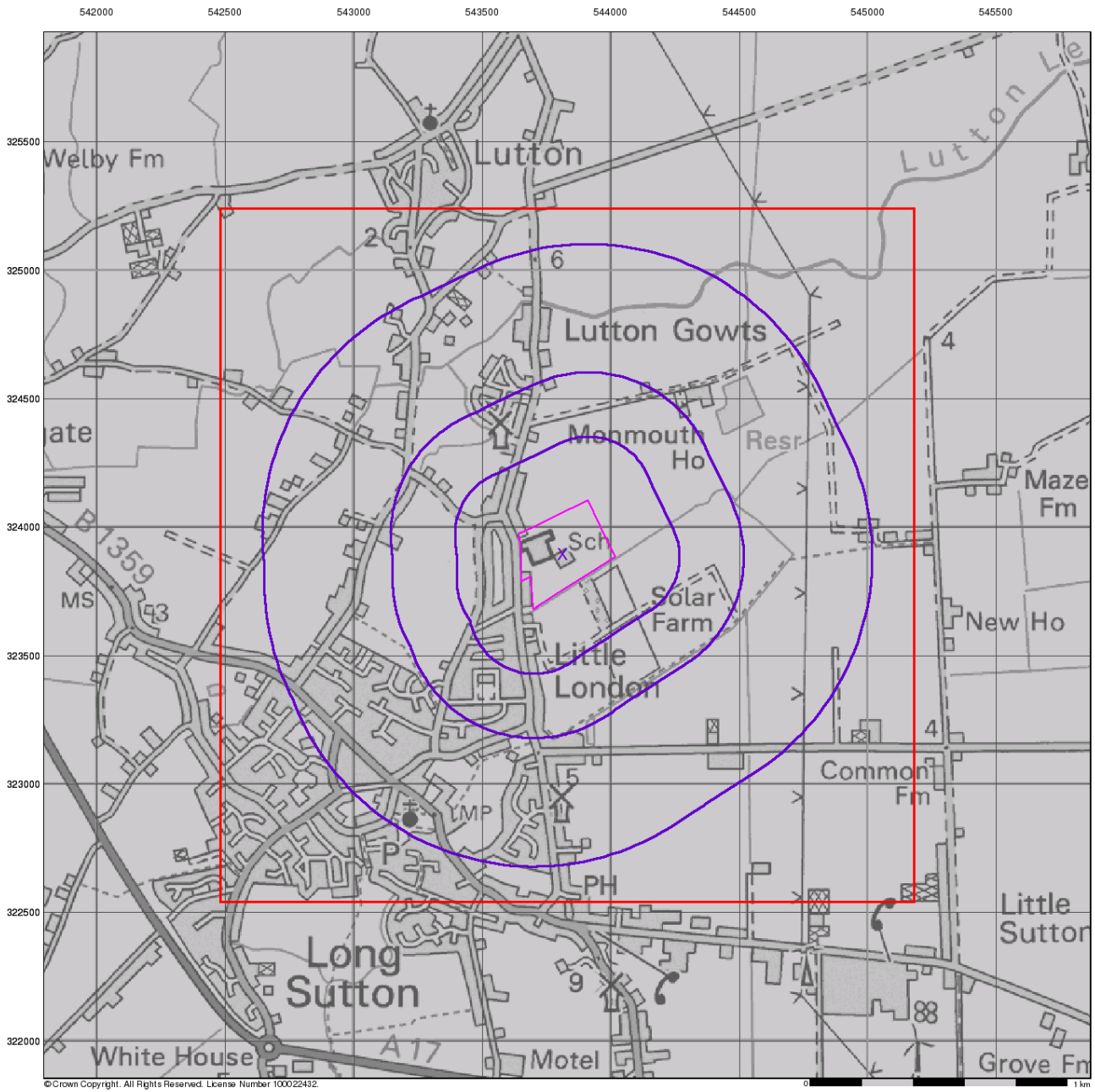
| | |
|---|---|
| Order Number: | 301186054_1_1 |
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# Bedrock Aquifer Designation

## General

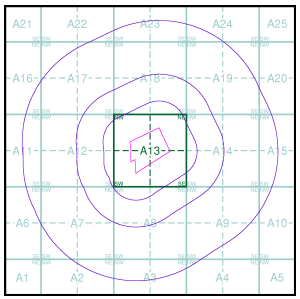
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

## Agency and Hydrological

**Geological Classes**

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

## Site Sensitivity Context Map - Slice A



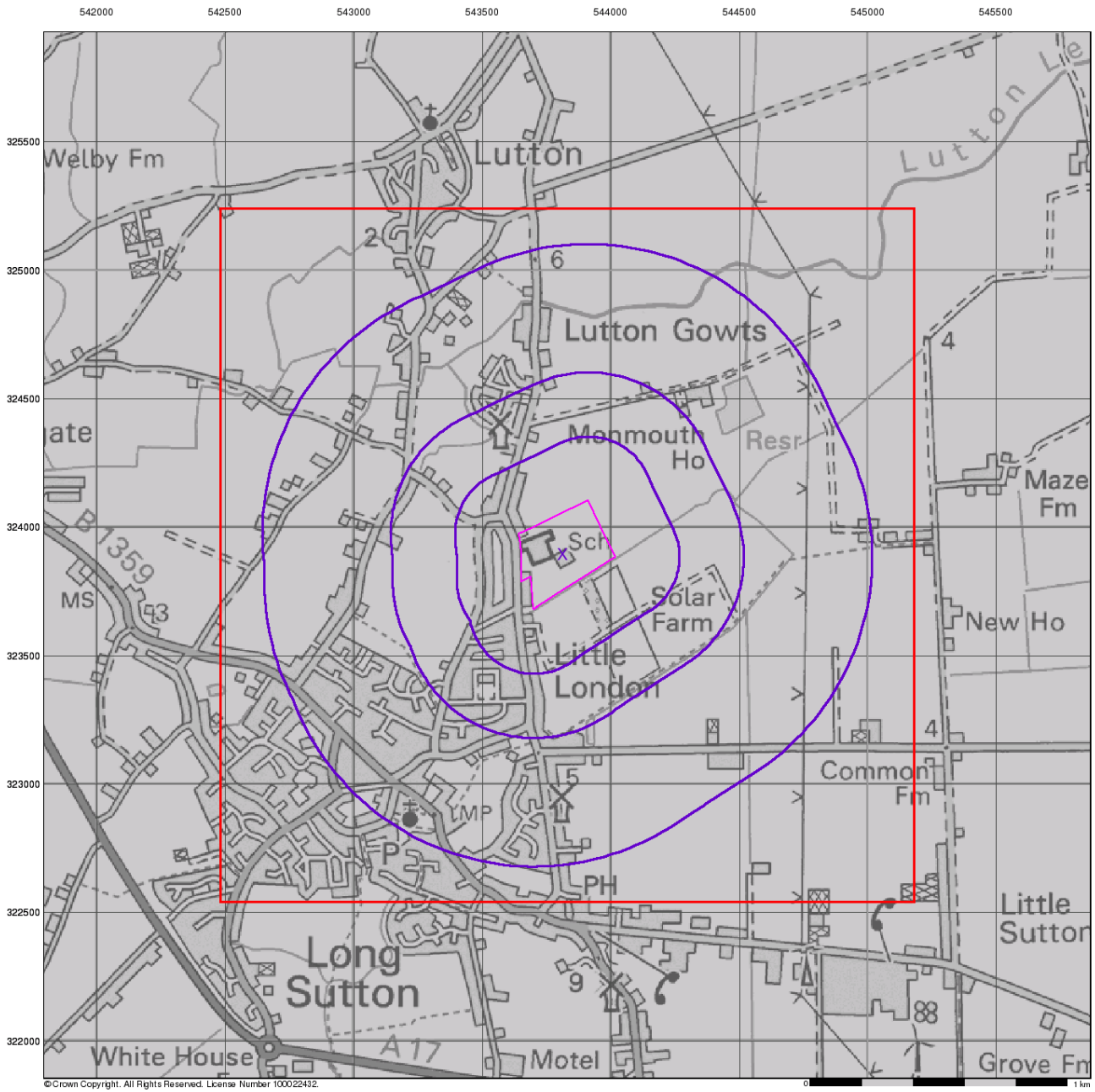

## Order Details

| | |
|---|---|
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# Superficial Aquifer Designation

## General

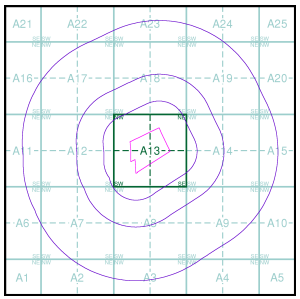
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

## Agency and Hydrological

**Geological Classes**

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

## Site Sensitivity Context Map - Slice A

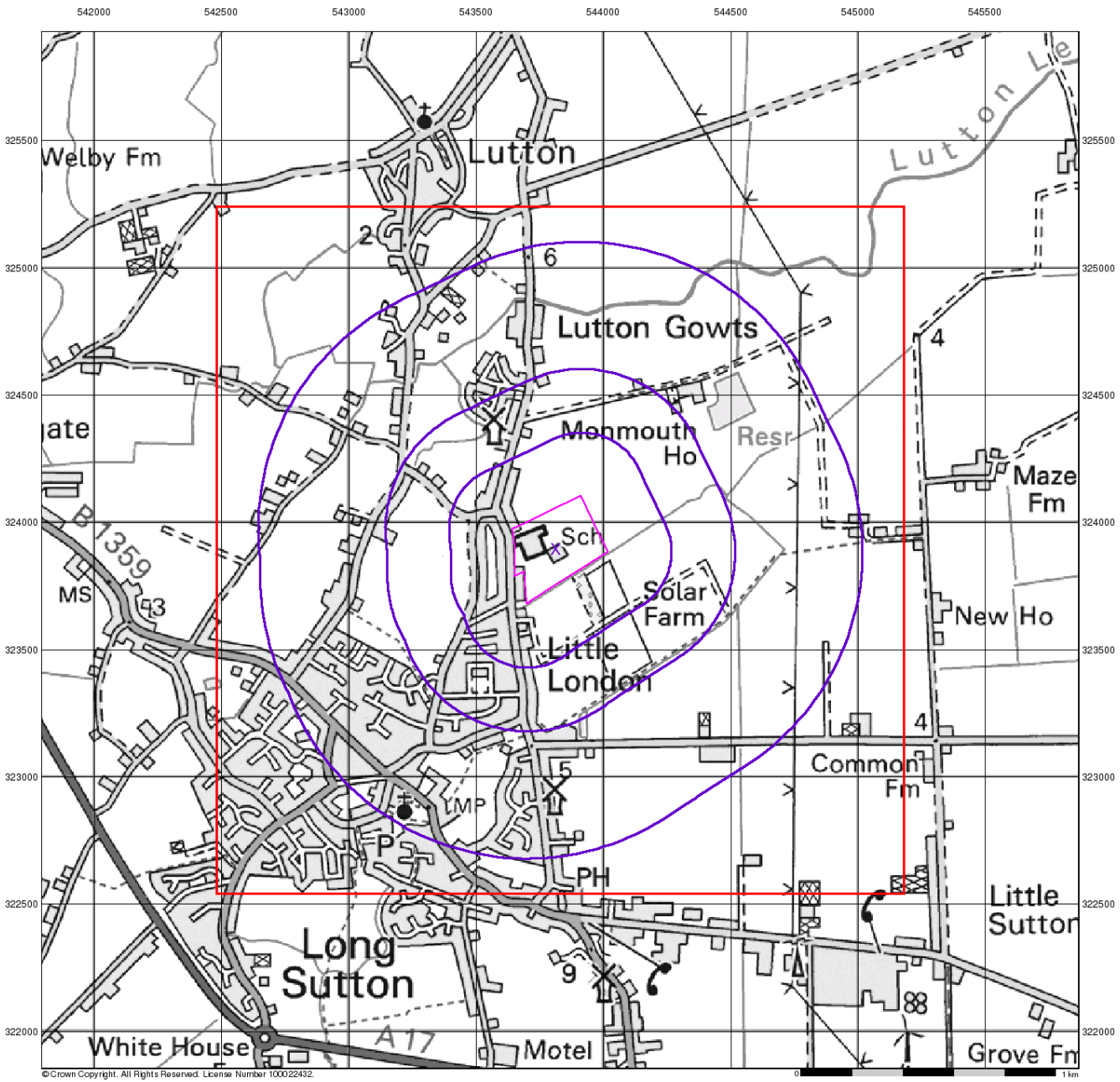



## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF




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# Source Protection Zones

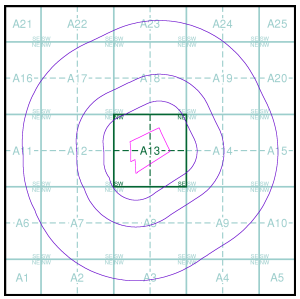
## General

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

## Agency and Hydrological

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

## Site Sensitivity Context Map - Slice A

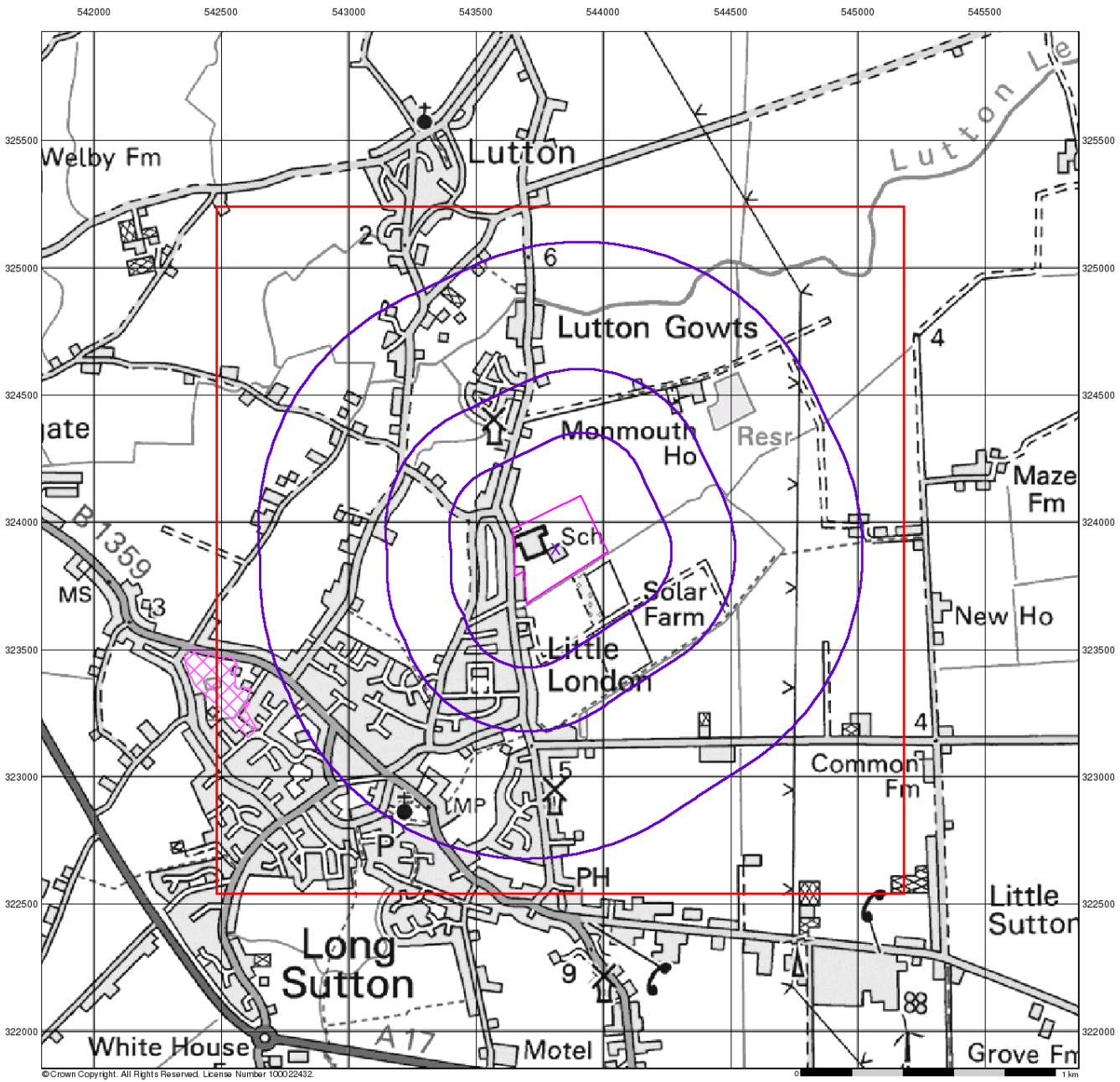



## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF




# Sensitive Land Uses

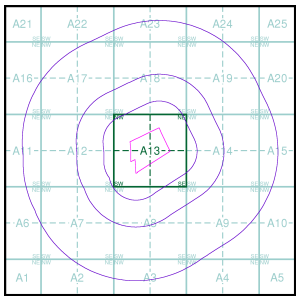
## General

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

## Sensitive Land Uses

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

## Site Sensitivity Context Map - Slice A

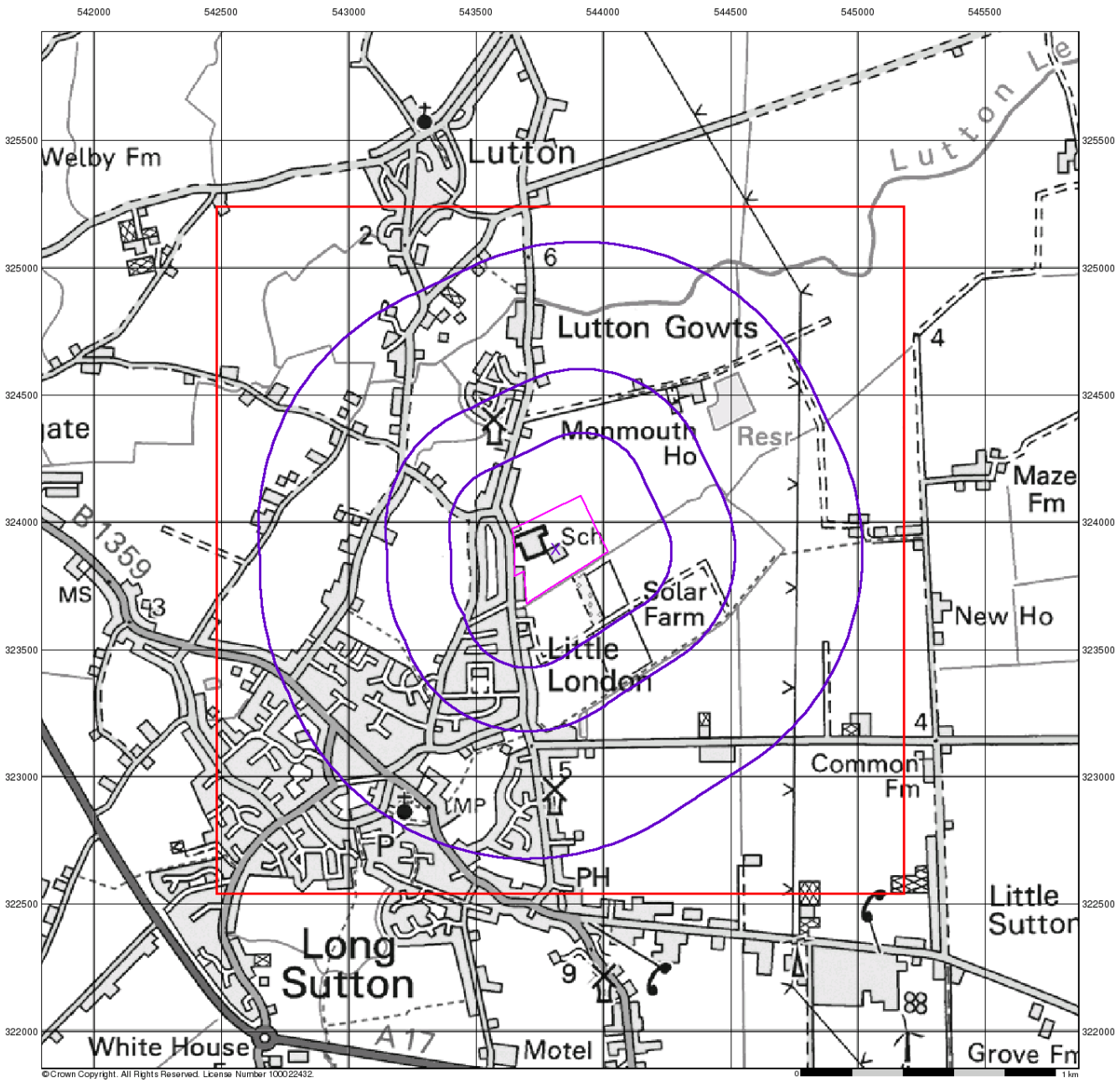



## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF




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## BGS Flood GFS Data

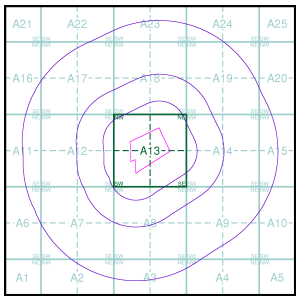
### General

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

### Agency and Hydrological (Flood)

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

### Site Sensitivity Context Map - Slice A




### Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

### Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF

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# Envirocheck® Report:

# Datasheet

## Order Details:

**Order Number:**
301186054_1_1

**Customer Reference:**
100110480

**National Grid Reference:**
543810, 323890

**Slice:**
A

**Site Area (Ha):**
8.94

**Search Buffer (m):**
1000

## Site Details:

83, Little London
Long Sutton
SPALDING
PE12 9LF

## Client Details:

Mrs N Kingdon
Mott Macdonald
2nd Floor
East Wing
69-75 Thorpe Road
Norwich
Norfolk
NR1 1UA

MOTT MACDONALD

# Contents


| Report Section | Page Number |
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| Geological | 34 |
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| Sensitive Land Use | - |
| Data Currency | 40 |
| Data Suppliers | 46 |
| Useful Contacts | 47 |


**Introduction**

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


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**Report Version v53.0**

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Agency & Hydrological** | | | | | |
| BGS Groundwater Flooding Susceptibility | | | | | n/a |
| Contaminated Land Register Entries and Notices | | | | | |
| Discharge Consents | pg 1 | 1 | 2 | 13 | 17 |
| Prosecutions Relating to Controlled Waters | | | n/a | n/a | n/a |
| Enforcement and Prohibition Notices | | | | | |
| Integrated Pollution Controls | | | | | |
| Integrated Pollution Prevention And Control | | | | | |
| Local Authority Integrated Pollution Prevention And Control | | | | | |
| Local Authority Pollution Prevention and Controls | | | | | |
| Local Authority Pollution Prevention and Control Enforcements | | | | | |
| Nearest Surface Water Feature | pg 9 | Yes | | | |
| Pollution Incidents to Controlled Waters | pg 9 | | | 1 | |
| Prosecutions Relating to Authorised Processes | | | | | |
| Registered Radioactive Substances | | | | | |
| River Quality | | | | | |
| River Quality Biology Sampling Points | | | | | |
| River Quality Chemistry Sampling Points | | | | | |
| Substantiated Pollution Incident Register | | | | | |
| Water Abstractions | pg 9 | | | | 1 (*2) |
| Water Industry Act Referrals | | | | | |
| Groundwater Vulnerability Map | pg 10 | Yes | n/a | n/a | n/a |
| Groundwater Vulnerability - Soluble Rock Risk | | | n/a | n/a | n/a |
| Groundwater Vulnerability - Local Information | | | n/a | n/a | n/a |
| Bedrock Aquifer Designations | pg 10 | Yes | n/a | n/a | n/a |
| Superficial Aquifer Designations | pg 10 | Yes | n/a | n/a | n/a |
| Source Protection Zones | | | | | |
| Extreme Flooding from Rivers or Sea without Defences | pg 10 | Yes | Yes | n/a | n/a |
| Flooding from Rivers or Sea without Defences | pg 11 | Yes | Yes | n/a | n/a |
| Areas Benefiting from Flood Defences | | | | n/a | n/a |
| Flood Water Storage Areas | | | | n/a | n/a |
| Flood Defences | | | | n/a | n/a |
| OS Water Network Lines | pg 11 | 3 | 17 | 41 | 125 |

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Waste** | | | | | |
| BGS Recorded Landfill Sites | | | | | |
| Historical Landfill Sites | | | | | |
| Integrated Pollution Control Registered Waste Sites | | | | | |
| Licensed Waste Management Facilities (Landfill Boundaries) | | | | | |
| Licensed Waste Management Facilities (Locations) | | | | | |
| Local Authority Landfill Coverage | pg 33 | 2 | n/a | n/a | n/a |
| Local Authority Recorded Landfill Sites | | | | | |
| Potentially Infilled Land (Non-Water) | | | | | |
| Potentially Infilled Land (Water) | pg 33 | | | | 4 |
| Registered Landfill Sites | | | | | |
| Registered Waste Transfer Sites | | | | | |
| Registered Waste Treatment or Disposal Sites | pg 33 | | | | 1 |
| **Hazardous Substances** | | | | | |
| Control of Major Accident Hazards Sites (COMAH) | | | | | |
| Explosive Sites | | | | | |
| Notification of Installations Handling Hazardous Substances (NIHHS) | | | | | |
| Planning Hazardous Substance Consents | | | | | |
| Planning Hazardous Substance Enforcements | | | | | |

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# Summary

| Data Type | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---|---|---|---|---|---|
| **Geological** | | | | | |
| BGS 1:625,000 Solid Geology | pg 34 | Yes | n/a | n/a | n/a |
| BGS Estimated Soil Chemistry | pg 34 | Yes | | | Yes |
| BGS Recorded Mineral Sites | | | | | |
| BGS Urban Soil Chemistry | | | | | |
| BGS Urban Soil Chemistry Averages | | | | | |
| CBSCB Compensation District | | | n/a | n/a | n/a |
| Coal Mining Affected Areas | | | n/a | n/a | n/a |
| Mining Instability | | | n/a | n/a | n/a |
| Man-Made Mining Cavities | | | | | |
| Natural Cavities | | | | | |
| Non Coal Mining Areas of Great Britain | | | | n/a | n/a |
| Potential for Collapsible Ground Stability Hazards | | | | n/a | n/a |
| Potential for Compressible Ground Stability Hazards | pg 34 | Yes | | n/a | n/a |
| Potential for Ground Dissolution Stability Hazards | | | | n/a | n/a |
| Potential for Landslide Ground Stability Hazards | pg 34 | Yes | | n/a | n/a |
| Potential for Running Sand Ground Stability Hazards | pg 34 | Yes | | n/a | n/a |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards | pg 34 | Yes | | n/a | n/a |
| Radon Potential - Radon Affected Areas | | | n/a | n/a | n/a |
| Radon Potential - Radon Protection Measures | | | n/a | n/a | n/a |
| **Industrial Land Use** | | | | | |
| Contemporary Trade Directory Entries | pg 35 | | 3 | 2 | 19 |
| Fuel Station Entries | | | | | |
| Points of Interest - Commercial Services | pg 37 | | | 1 | 6 |
| Points of Interest - Education and Health | | | | | |
| Points of Interest - Manufacturing and Production | pg 37 | | 2 | 1 | 14 |
| Points of Interest - Public Infrastructure | pg 39 | | 1 | | 2 |
| Points of Interest - Recreational and Environmental | pg 39 | | | 1 | 4 |
| Gas Pipelines | | | | | |
| Underground Electrical Cables | | | | | |

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# Summary

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

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 1 | **Discharge Consents**<br>Operator: Lincolnshire C.C.<br>Property Type: Undefined Or Other<br>Location: Peele County Sec Sch, Long Sutton<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Pr5nf216<br>Permit Version: 1<br>Effective Date: 8th March 1962<br>Issued Date: 8th March 1962<br>Revocation Date: 23rd April 1996<br>Discharge Type: Trade Discharge - Process Water<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Unknown Trib<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A13NW (NW) | 0 | 1 | 543700 324000 |
| 2 | **Discharge Consents**<br>Operator: Mr R Radcliffe<br>Property Type: Domestic Property (Single)<br>Location: Adderley House London Road, Long Sutton, Lincs, Pe12 9ea<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3105<br>Permit Version: 1<br>Effective Date: 6th August 1969<br>Issued Date: 6th August 1969<br>Revocation Date: 4th August 1997<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A13SW (SW) | 156 | 1 | 543600 323560 |
| 3 | **Discharge Consents**<br>Operator: Raymond Simmons<br>Property Type: Domestic Property (Single)<br>Location: 46 Daniels Gate Long Sutton, Spalding, Lincolnshire, Pe12 9dn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12929<br>Permit Version: 1<br>Effective Date: 10th April 2003<br>Issued Date: 23rd April 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Trib South Holland Main Drain<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 100m | A13SW (SW) | 175 | 1 | 543500 323700 |
| 4 | **Discharge Consents**<br>Operator: Mr W Delahoy<br>Property Type: Domestic Property (Single)<br>Location: Silverhill Plot 2 Roman Bank, Lutton, Spalding, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12875<br>Permit Version: 1<br>Effective Date: 10th October 2002<br>Issued Date: 30th October 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Tributary Of Lutton Drain<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (N) | 394 | 1 | 543621 324400 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 4 | **Discharge Consents**<br>Operator: Mr W Delahoy<br>Property Type: Domestic Property (Single)<br>Location: Silverhill Plot 4 Roman Bank, Lutton, Spalding, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12899<br>Permit Version: 1<br>Effective Date: 6th January 2003<br>Issued Date: 4th March 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Lutton Eau<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (N) | 395 | 1 | 543621 324401 |
| 4 | **Discharge Consents**<br>Operator: Mr W Delahoy<br>Property Type: Domestic Property (Single)<br>Location: Silverhill Plot 3 Roman Bank, Lutton, Spalding, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12876<br>Permit Version: 1<br>Effective Date: 10th October 2002<br>Issued Date: 30th October 2002<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Tributary Of Lutton Drain<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (N) | 395 | 1 | 543620 324400 |
| 4 | **Discharge Consents**<br>Operator: Mr W Delahoy<br>Property Type: Domestic Property (Single)<br>Location: Silverhill Plot 1 Roman Bank, Lutton, Spalding, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12898<br>Permit Version: 1<br>Effective Date: 6th January 2003<br>Issued Date: 4th March 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Lutton Eau<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (N) | 396 | 1 | 543620 324401 |
| 4 | **Discharge Consents**<br>Operator: Mr D G Mountain<br>Property Type: Domestic Property (Single)<br>Location: Silverhill House Roman Bank, Lutton Gowts, Long Sutton, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf18400<br>Permit Version: 1<br>Effective Date: 3rd June 2005<br>Issued Date: 16th June 2005<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Lutton Drain<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (NW) | 403 | 1 | 543580 324390 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 4 | **Discharge Consents**<br>Operator: Mr W Delahoy<br>Property Type: Domestic Property (Single)<br>Location: Silverhill Plot 5 Roman Bank, Lutton, Spalding, Lincolnshire, Pe12 9lq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf12900<br>Permit Version: 1<br>Effective Date: 6th January 2003<br>Issued Date: 4th March 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Lutton Eau<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A18SW (N) | 405 | 1 | 543620 324411 |
| 5 | **Discharge Consents**<br>Operator: P L Ely (Contractors) Ltd<br>Property Type: Not Supplied<br>Location: Plot 22, Park Road Estate, Long Sutton<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3311<br>Permit Version: 1<br>Effective Date: 18th February 1976<br>Issued Date: 18th February 1976<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (SW) | 405 | 1 | 543560 323300 |
| 5 | **Discharge Consents**<br>Operator: P L Ely (Contractors) Ltd<br>Property Type: Not Supplied<br>Location: Plot 23, Park Road Estate, Long Sutton<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3312<br>Permit Version: 1<br>Effective Date: 18th February 1976<br>Issued Date: 18th February 1976<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 421 | 1 | 543570 323280 |
| 6 | **Discharge Consents**<br>Operator: Sarah Chapman<br>Property Type: Domestic Property (Single)<br>Location: 82 Limewalk Long Sutton, Spalding, Lincolnshire, -, Pe12 9hq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Npswqd008962<br>Permit Version: 1<br>Effective Date: 28th August 2009<br>Issued Date: 28th August 2009<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Un-Named Trib Of Fleet River<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A12NE (NW) | 456 | 1 | 543242 324190 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 6 | **Discharge Consents**<br>Operator: Mr R J & Mrs J K Hook<br>Property Type: Domestic Property (Single)<br>Location: Rose Cottage 82 Lime Walk, Long Sutton, Spalding, Lincs, Pe12 9hq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnlf03482<br>Permit Version: 1<br>Effective Date: 24th August 1990<br>Issued Date: 24th August 1990<br>Revocation Date: 11th August 1997<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Not Supplied<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12NE (NW) | 464 | 1 | 543227 324179 |
| 6 | **Discharge Consents**<br>Operator: J Neve<br>Property Type: Domestic Property (Single)<br>Location: 84 Lime Walk Long Sutton, Spalding, Lincs, Pe12 9hq<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Prnlf03481<br>Permit Version: 1<br>Effective Date: 24th August 1990<br>Issued Date: 24th August 1990<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Land<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12NE (NW) | 468 | 1 | 543237 324205 |
| 7 | **Discharge Consents**<br>Operator: P L Ely (Contractors) Ltd<br>Property Type: Not Supplied<br>Location: Plot 8, Park Road Estate, Long Sutton<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3310<br>Permit Version: 1<br>Effective Date: 18th February 1976<br>Issued Date: 18th February 1976<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8NW (S) | 475 | 1 | 543580 323220 |
| 7 | **Discharge Consents**<br>Operator: P L Ely (Contractors) Ltd<br>Property Type: Domestic Property (Single)<br>Location: Park Road, Plot 1, Park Road Estate, Long Sutton<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3306<br>Permit Version: 1<br>Effective Date: 18th February 1976<br>Issued Date: 18th February 1976<br>Revocation Date: 1st October 1996<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A8SW (S) | 492 | 1 | 543590 323200 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 8 | **Discharge Consents**<br>Operator: Kings Quality Homes<br>Property Type: Not Supplied<br>Location: Line Walk Long Sutton, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf5242<br>Permit Version: 1<br>Effective Date: 27th November 1986<br>Issued Date: 27th November 1986<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Not Supplied<br>Receiving Water: Not Supplied<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12NW (W) | 517 | 1 | 543130 324030 |
| 9 | **Discharge Consents**<br>Operator: Mr P Woodhouse<br>Property Type: Not Supplied<br>Location: Plot 1 Lime Walk, Long Sutton, Spalding, Lincs, Pe12 9hg<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Prnlf02529<br>Permit Version: 1<br>Effective Date: 25th April 1990<br>Issued Date: 25th April 1990<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A12NW (W) | 599 | 1 | 543050 324050 |
| 10 | **Discharge Consents**<br>Operator: R Ball Esq.<br>Property Type: Not Supplied<br>Location: Plot 2 Marriotts Gate, Lutton, Peterborough<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3560<br>Permit Version: 1<br>Effective Date: 18th December 1978<br>Issued Date: 18th December 1978<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A17SE (NW) | 618 | 1 | 543250 324450 |
| 11 | **Discharge Consents**<br>Operator: Raymond Ball And Gillian Ball<br>Property Type: Not Supplied<br>Location: Plot 1 Marriots Gate, Lutton, Peterborough<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3628<br>Permit Version: 1<br>Effective Date: 16th August 1979<br>Issued Date: 16th August 1979<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 100m | A17SE (NW) | 688 | 1 | 543200 324500 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 12 | **Discharge Consents**<br>Operator: G H Hoyles Ltd<br>Property Type: Mixed Farming<br>Location: Monmouth House Farm Long Sutton, Spalding, Lincs, Pe12 9lh<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Gwnlf40407<br>Permit Version: 1<br>Effective Date: 31st March 1999<br>Issued Date: 24th July 2000<br>Revocation Date: 8th March 2010<br>Discharge Type: Agriculture - Livestock Farming<br>Discharge Environment: Groundwater<br>Receiving Water: Groundwater<br>**Status: Deemed Groundwater Regulations Authorisation**<br>Positional Accuracy: Located by supplier to within 100m | A19NW (NE) | 696 | 1 | 544400 324600 |
| 13 | **Discharge Consents**<br>Operator: King Quality Homes<br>Property Type: Not Supplied<br>Location: Plot 2 Main Road, Lutton Gowts, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf5491<br>Permit Version: 1<br>Effective Date: 26th February 1988<br>Issued Date: 26th February 1988<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A18NW (N) | 707 | 1 | 543710 324780 |
| 13 | **Discharge Consents**<br>Operator: King Quality Homes<br>Property Type: Not Supplied<br>Location: Plot 1 Main Road, Lutton Gowts, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf5490<br>Permit Version: 1<br>Effective Date: 26th February 1988<br>Issued Date: 26th February 1988<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A18NW (N) | 713 | 1 | 543690 324780 |
| 13 | **Discharge Consents**<br>Operator: King Quality Homes<br>Property Type: Not Supplied<br>Location: Plot 4 Main Road, Lutton Gowts, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf5493<br>Permit Version: 1<br>Effective Date: 26th February 1988<br>Issued Date: 26th February 1988<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A18NW (N) | 714 | 1 | 543720 324790 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 13 | **Discharge Consents**<br>Operator: Mr J & Mrs H D Leatherland<br>Property Type: Not Supplied<br>Location: Plot 3 Main Road, Lutton Gowts, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Prnlf01550<br>Permit Version: 1<br>Effective Date: 8th August 1989<br>Issued Date: 8th August 1989<br>Revocation Date: 11th July 1997<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Post National Rivers Authority Legislation where issue date > 31/08/1989**<br>Positional Accuracy: Located by supplier to within 10m | A18NW (N) | 723 | 1 | 543690 324790 |
| 13 | **Discharge Consents**<br>Operator: King Quality Homes<br>Property Type: Not Supplied<br>Location: Plot 3 Main Road, Lutton Gowts, Spalding, Lincs<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf5492<br>Permit Version: 1<br>Effective Date: 26th February 1988<br>Issued Date: 26th February 1988<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A18NW (N) | 723 | 1 | 543690 324790 |
| 14 | **Discharge Consents**<br>Operator: Mr S King<br>Property Type: Domestic Property (Single)<br>Location: Dormer Cottage Marriots Gate, Lutton, Long Sutton, Lincolnshire, Pe12 9hn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf18150<br>Permit Version: 1<br>Effective Date: 12th June 2004<br>Issued Date: 25th June 2004<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Luttons Leam<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A17SE (NW) | 721 | 1 | 543210 324550 |
| 15 | **Discharge Consents**<br>Operator: Mr Paul Michael Denwood<br>Property Type: Domestic Property (Single)<br>Location: Oakwood Marriots Gate, Lutton, Spalding, Lincs, Pe12 9hn<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf18631<br>Permit Version: 1<br>Effective Date: 10th August 2006<br>Issued Date: 31st October 2006<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Fleet River (Drain)<br>**Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A17SW (NW) | 778 | 1 | 543080 324510 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 16 | **Discharge Consents**<br>Operator: The Reverend Jonathan Sibley<br>Property Type: CHURCH/MONASTERY/ABBEY/RELIGIOUS RETREAT/ASSOCIATION HQ<br>Location: St Marys Church Trench Arch Market Place, Long Sutton, Spalding, Lincolnshire, Pe12 9hb<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Eprlb3695ww<br>Permit Version: 1<br>Effective Date: 1st September 2019<br>Issued Date: 26th November 2018<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Groundwater<br>**Status:** **New issued under EPR 2010**<br>Positional Accuracy: Located by supplier to within 10m | A7SE (SW) | 910 | 1 | 543251 322888 |
| 16 | **Discharge Consents**<br>Operator: The Reverend Jonathan Sibley<br>Property Type: CHURCH/MONASTERY/ABBEY/RELIGIOUS RETREAT/ASSOCIATION HQ<br>Location: St Marys Church Trench Arch Market Place, Long Sutton, Spalding, Lincolnshire, Pe12 9hb<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Eprlb3695ww<br>Permit Version: 1<br>Effective Date: 1st September 2019<br>Issued Date: 26th November 2018<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Groundwater<br>**Status:** **New issued under EPR 2010**<br>Positional Accuracy: Located by supplier to within 10m | A7SE (SW) | 920 | 1 | 543218 322897 |
| 16 | **Discharge Consents**<br>Operator: The Reverend Jonathan Sibley<br>Property Type: CHURCH/MONASTERY/ABBEY/RELIGIOUS RETREAT/ASSOCIATION HQ<br>Location: St Marys Church Trench Arch Market Place, Long Sutton, Spalding, Lincolnshire, Pe12 9hb<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Eprlb3695ww<br>Permit Version: 1<br>Effective Date: 1st September 2019<br>Issued Date: 26th November 2018<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Land/Soakaway<br>Receiving Water: Groundwater<br>**Status:** **New issued under EPR 2010**<br>Positional Accuracy: Located by supplier to within 10m | A2NE (SW) | 950 | 1 | 543209 322867 |
| 17 | **Discharge Consents**<br>Operator: Mr Collins<br>Property Type: Domestic Property (Single)<br>Location: 42 Woad Lane Long Sutton, Spalding, Lincolnshire, Pe12 9ew<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Low River Nene / South Holland Main<br>Reference: Prnnf18070<br>Permit Version: 1<br>Effective Date: 15th December 2003<br>Issued Date: 22nd December 2003<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge Environment: Freshwater Stream/River<br>Receiving Water: Trib Of South Holland Main Drn<br>**Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)**<br>Positional Accuracy: Located by supplier to within 10m | A9SE (SE) | 952 | 1 | 544540 323090 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 18 | **Discharge Consents**<br>Operator: J.W. Hicks Esq.<br>Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES)<br>Location: Bungalow At Long Sutton, Long Sutton, Spalding, Pe12<br>Authority: Environment Agency, Anglian Region<br>Catchment Area: Not Supplied<br>Reference: Pr5lf3273<br>Permit Version: 1<br>Effective Date: 17th November 1975<br>Issued Date: 17th November 1975<br>Revocation Date: 1st October 1996<br>Discharge Type: Unknown<br>Discharge Environment: Onto Land<br>Receiving Water: Land<br>**Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989**<br>Positional Accuracy: Located by supplier to within 10m | A6NE (W) | 978 | 1 | 542720 323490 |
| | **Nearest Surface Water Feature** | A13SE (E) | 0 | - | 544015 323887 |
| 19 | **Pollution Incidents to Controlled Waters**<br>Property Type: Other General Premises<br>Location: Spalding District<br>Authority: Environment Agency, Anglian Region<br>Pollutant: Chemicals - Unknown<br>Note: Lutton Leam Tributary<br>Incident Date: 6th December 1994<br>Incident Reference: 1937<br>Catchment Area: Not Given<br>Receiving Water: Freshwater Stream/River<br>Cause of Incident: Accidental Spillage/Leakage<br>Incident Severity: Category 3 - Minor Incident<br>Positional Accuracy: Located by supplier to within 100m | A12NE (NW) | 498 | 1 | 543200 324200 |
| 20 | **Water Abstractions**<br>Operator: C R Hovell<br>Licence Number: 5/32/11/*g/060<br>Permit Version: Not Supplied<br>Location: Pit In Farmyard, Woad Lane, LONG SUTTON<br>Authority: Environment Agency, Anglian Region<br>Abstraction: Spray Irrigation<br>Abstraction Type: Not Supplied<br>Source: Catchpit, Catchment Tank or Collecting Tank<br>Daily Rate (m3): 0<br>Yearly Rate (m3): 22730<br>Details: Fluvial Sand and Gravel; Status: Revoked<br>Authorised Start: Not Supplied<br>Authorised End: Not Supplied<br>Permit Start Date: Not Supplied<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A8SE (S) | 520 | 1 | 543900 323200 |
| | **Water Abstractions**<br>Operator: G H Hoyles Limited<br>Licence Number: An/032/0011/015<br>Permit Version: 2<br>Location: Lutton Leam At South Holland Idb, Lutton<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 April<br>Authorised End: 31 March<br>Permit Start Date: 1st April 2016<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A24SE (NE) | 1126 | 1 | 544571 325016 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| | **Water Abstractions**<br>Operator: G H Hoyles Limited<br>Licence Number: An/032/0011/015<br>Permit Version: 1<br>Location: Lutton Leam At South Holland Idb, Lutton<br>Authority: Environment Agency, Anglian Region<br>Abstraction: General Agriculture: Spray Irrigation - Storage<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Surface<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Not Supplied<br>Authorised Start: 01 November<br>Authorised End: 31 March<br>Permit Start Date: 20th October 2014<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | A24SE (NE) | 1126 | 1 | 544571 325016 |
| | **Groundwater Vulnerability Map**<br>Combined Classification: Unproductive Aquifer (may have productive aquifer beneath)<br>Combined Vulnerability: Unproductive<br>Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: <300 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: >90%<br>Superficial Thickness: >10m<br>Superficial Recharge: Low | A13NW (N) | 0 | 2 | 543812 324000 |
| | **Groundwater Vulnerability Map**<br>Combined Classification: Unproductive Aquifer (may have productive aquifer beneath)<br>Combined Vulnerability: Unproductive<br>Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: <300 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: >90%<br>Superficial Thickness: >10m<br>Superficial Recharge: Low | A13NW (SE) | 0 | 2 | 543812 323895 |
| | **Groundwater Vulnerability Map**<br>Combined Classification: Unproductive Aquifer (may have productive aquifer beneath)<br>Combined Vulnerability: Unproductive<br>Combined Aquifer: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer<br>Pollutant Speed: High<br>Bedrock Flow: Well Connected Fractures<br>Dilution: <300 mm/year<br>Baseflow Index: >70%<br>Superficial Patchiness: >90%<br>Superficial Thickness: >10m<br>Superficial Recharge: Low | A13NE (E) | 0 | 2 | 544000 323895 |
| | **Groundwater Vulnerability - Soluble Rock Risk**<br>None | | | | |
| | **Bedrock Aquifer Designations**<br>Aquifer Designation: Unproductive Strata | A13NW (SE) | 0 | 2 | 543812 323895 |
| | **Superficial Aquifer Designations**<br>Aquifer Designation: Unproductive Strata | A13NW (SE) | 0 | 2 | 543812 323895 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial/Tidal Models<br>Boundary Accuracy: As Supplied | A13NW (SE) | 0 | 1 | 543812 323895 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13SE (SE) | 0 | 1 | 543880 323795 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (SW) | 0 | 1 | 543805 323885 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (SW) | 0 | 1 | 543705 323815 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (S) | 0 | 1 | 543790 323795 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial/Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (W) | 26 | 1 | 543620 323865 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13NW (N) | 148 | 1 | 543795 324210 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A14SW (E) | 187 | 1 | 544200 323850 |
| | **Extreme Flooding from Rivers or Sea without Defences**<br>Type: Extent of Extreme Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A8NW (SW) | 236 | 1 | 543575 323480 |
| | **Flooding from Rivers or Sea without Defences**<br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial/Tidal Models<br>Boundary Accuracy: As Supplied | A13NW (SE) | 0 | 1 | 543812 323895 |
| | **Flooding from Rivers or Sea without Defences**<br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (SW) | 0 | 1 | 543705 323815 |
| | **Flooding from Rivers or Sea without Defences**<br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Fluvial/Tidal Models<br>Boundary Accuracy: As Supplied | A13SW (W) | 26 | 1 | 543620 323865 |
| | **Flooding from Rivers or Sea without Defences**<br>Type: Extent of Flooding from Rivers or Sea without Defences<br>Flood Plain Type: Tidal Models<br>Boundary Accuracy: As Supplied | A18SW (N) | 199 | 1 | 543780 324260 |
| | **Areas Benefiting from Flood Defences**<br>None | | | | |
| | **Flood Water Storage Areas**<br>None | | | | |
| | **Flood Defences**<br>None | | | | |
| 21 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 4.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (E) | 0 | 3 | 544015 323887 |

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| 22 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 241.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NE (NE) | 0 | 3 | 543974 323972 |
| 23 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 362.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (SE) | 0 | 3 | 543877 323793 |
| 24 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 6.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (E) | 2 | 3 | 544017 323883 |
| 25 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 265.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NE (NE) | 3 | 3 | 543912 324105 |
| 26 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 14.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NE (NE) | 3 | 3 | 543899 324099 |
| 27 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 179.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (E) | 6 | 3 | 544022 323886 |
| 28 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 15.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (E) | 6 | 3 | 544022 323886 |
| 29 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 218.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (E) | 18 | 3 | 544028 323872 |
| 30 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 98.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NW (NW) | 148 | 3 | 543516 324049 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 31 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 45.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NW (W) | 154 | 3 | 543498 324024 |
| 32 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 10.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 184 | 3 | 544174 323982 |
| 33 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 161.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 195 | 3 | 544182 323988 |
| 34 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 24.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13NW (NW) | 219 | 3 | 543579 324185 |
| 35 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 479.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SE (SW) | 220 | 3 | 543486 323625 |
| 36 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 7.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SE (SW) | 224 | 3 | 543484 323619 |
| 37 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 461.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8NE (S) | 228 | 3 | 543937 323546 |
| 38 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 72.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SE (SW) | 230 | 3 | 543479 323612 |
| 39 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (SE) | 233 | 3 | 544115 323672 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 40 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 233.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A13SE (SE) | 239 | 3 | 544118 323666 |
| 41 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 208.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8NW (S) | 254 | 3 | 543731 323428 |
| 42 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 4.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 289 | 3 | 543441 323551 |
| 43 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 43.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 293 | 3 | 543438 323547 |
| 44 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 331 | 3 | 543415 323510 |
| 45 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 57.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 336 | 3 | 543413 323506 |
| 46 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 193.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A18SE (N) | 352 | 3 | 543862 324451 |
| 47 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 63.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A18SE (N) | 352 | 3 | 543862 324451 |
| 48 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 233.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 354 | 3 | 544322 324066 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
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| 49 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 70.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 360 | 3 | 544324 324075 |
| 50 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 52.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A18SE (N) | 365 | 3 | 543932 324467 |
| 51 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 387 | 3 | 543386 323455 |
| 52 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 145.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A18SE (N) | 388 | 3 | 543995 324482 |
| 53 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 691.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A18SW (NW) | 392 | 3 | 543552 324365 |
| 54 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 59.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 394 | 3 | 543382 323446 |
| 55 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SW (E) | 411 | 3 | 544426 323858 |
| 56 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 192.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SW (E) | 415 | 3 | 544430 323850 |
| 57 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 165.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A18SE (NE) | 423 | 3 | 544081 324491 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 58 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 187.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (NE) | 424 | 3 | 544367 324131 |
| 59 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 10.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 428 | 3 | 544377 324122 |
| 60 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 430 | 3 | 544383 324113 |
| 61 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 147.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 430 | 3 | 544384 324111 |
| 62 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 23.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 446 | 3 | 543359 323392 |
| 63 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 133.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12NE (W) | 448 | 3 | 543209 324087 |
| 64 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 99.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12NE (W) | 448 | 3 | 543220 324121 |
| 65 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 33.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A17SE (NW) | 457 | 3 | 543276 324246 |
| 66 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12NE (NW) | 460 | 3 | 543255 324220 |

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| 67 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 66.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8NW (S) | 461 | 3 | 543751 323222 |
| 68 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 33.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 468 | 3 | 543349 323371 |
| 69 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.7<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 470 | 3 | 544217 323455 |
| 70 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 342.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8NE (SE) | 476 | 3 | 544141 323392 |
| 71 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 480 | 3 | 544221 323447 |
| 72 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 93.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 480 | 3 | 544231 323452 |
| 73 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 57.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 481 | 3 | 544174 323413 |
| 74 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 481 | 3 | 544222 323445 |
| 75 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 481 | 3 | 544223 323446 |

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| 76 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 280.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 482 | 3 | 544174 323413 |
| 77 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 130.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 482 | 3 | 544309 323503 |
| 78 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 482 | 3 | 544309 323503 |
| 79 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 256.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 483 | 3 | 544318 323509 |
| 80 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 13.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 494 | 3 | 543343 323338 |
| 81 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 77.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12NW (W) | 500 | 3 | 543145 324014 |
| 82 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 95.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 504 | 3 | 543343 323324 |
| 83 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 318.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 524 | 3 | 544494 324100 |
| 84 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NW (E) | 533 | 3 | 544498 324113 |

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| 85 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 155.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SE (NW) | 537 | 3 | 543216 324299 |
| 86 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 6.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SW (NE) | 540 | 3 | 544242 324530 |
| 87 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 7.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 544 | 3 | 544506 324122 |
| 88 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SW (NE) | 544 | 3 | 544248 324531 |
| 89 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 79.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12NW (W) | 548 | 3 | 543096 323954 |
| 90 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.2<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 549 | 3 | 544519 323666 |
| 91 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 18.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 551 | 3 | 544523 323669 |
| 92 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 250.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 551 | 3 | 544510 324128 |
| 93 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 7.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SW (NE) | 555 | 3 | 544261 324535 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 94 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 558 | 3 | 544536 323682 |
| 95 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 279.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 558 | 3 | 544536 323682 |
| 96 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 21.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SW (NE) | 560 | 3 | 544267 324536 |
| 97 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 185.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 564 | 3 | 544537 323669 |
| 98 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 15.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SW (W) | 569 | 3 | 543082 323872 |
| 99 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 118.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 573 | 3 | 543344 323230 |
| 100 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 192.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SE (NW) | 574 | 3 | 543235 324377 |
| 101 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 316.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A7NE (SW) | 575 | 3 | 543336 323234 |
| 102 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 119.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SW (NE) | 577 | 3 | 544288 324540 |

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| 103 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 158.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SW (W) | 581 | 3 | 543069 323880 |
| 104 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 162.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7SE (SW) | 593 | 3 | 543478 323130 |
| 105 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 88.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7SE (SW) | 593 | 3 | 543478 323130 |
| 106 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 73.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 597 | 3 | 543950 323138 |
| 107 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 36.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 607 | 3 | 543951 323127 |
| 108 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 239.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 612 | 3 | 544377 323391 |
| 109 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 186.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9NW (SE) | 612 | 3 | 544377 323391 |
| 110 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 91.2<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SW (W) | 620 | 3 | 543035 323726 |
| 111 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 160.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 623 | 3 | 543988 323127 |

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| 112 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 7.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 630 | 3 | 544023 323139 |
| 113 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 123.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 634 | 3 | 544031 323140 |
| 114 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 155.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 648 | 3 | 543910 323067 |
| 115 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 338.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A9NE (SE) | 658 | 3 | 544538 323484 |
| 116 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 78.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fall Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7SE (S) | 676 | 3 | 543478 323041 |
| 117 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 199.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A12SW (W) | 677 | 3 | 542989 323647 |
| 118 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 126.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19NW (NE) | 678 | 3 | 544404 324570 |
| 119 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 339.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17SE (NW) | 694 | 3 | 543256 324550 |
| 120 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 10.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 698 | 3 | 544714 323896 |

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| 121 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 698 | 3 | 544714 323896 |
| 122 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 730.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14SE (E) | 699 | 3 | 544715 323886 |
| 123 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 699 | 3 | 544715 323898 |
| 124 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 5.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (SE) | 702 | 3 | 544155 323140 |
| 125 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 155.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (SE) | 704 | 3 | 544160 323141 |
| 126 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (SE) | 708 | 3 | 544148 323129 |
| 127 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 165.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A14NE (E) | 708 | 3 | 544724 323896 |
| 128 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 434.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17NE (NW) | 711 | 3 | 543366 324629 |
| 129 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 117.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (SE) | 713 | 3 | 544157 323129 |

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| 130 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 345.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17SW (NW) | 726 | 3 | 543000 324308 |
| 131 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 20.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17SW (NW) | 733 | 3 | 543016 324353 |
| 132 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 909.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Leam<br>Catchment Name: Nene<br>Primacy: 1 | A18NE (N) | 737 | 3 | 543956 324838 |
| 133 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 72.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17SW (NW) | 738 | 3 | 543023 324373 |
| 134 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 107.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 746 | 3 | 542961 324273 |
| 135 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 122.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A17SW (NW) | 751 | 3 | 543069 324458 |
| 136 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 96.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A12NW (W) | 756 | 3 | 542893 324061 |
| 137 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 20.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A7NW (SW) | 761 | 3 | 543029 323321 |
| 138 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 771 | 3 | 542990 324383 |

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| 139 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 774 | 3 | 544275 323131 |
| 140 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 123.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 774 | 3 | 544275 323131 |
| 141 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 281.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 778 | 3 | 544271 323124 |
| 142 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 28.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SW (S) | 779 | 3 | 543825 322910 |
| 143 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 6.9<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 783 | 3 | 542980 324389 |
| 144 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 61.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 784 | 3 | 543849 322910 |
| 145 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SE (NE) | 785 | 3 | 544681 324313 |
| 146 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 208.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SE (NE) | 785 | 3 | 544685 324304 |
| 147 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 343.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19SE (NE) | 785 | 3 | 544681 324313 |

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|---|---|---|---|---|---|
| 148 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 4.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 787 | 3 | 544316 323143 |
| 149 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 65.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 789 | 3 | 544321 323143 |
| 150 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 65.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 790 | 3 | 542974 324393 |
| 151 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 309.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A8SE (S) | 796 | 3 | 543912 322913 |
| 152 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 22.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19NE (NE) | 797 | 3 | 544521 324617 |
| 153 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 126.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gedney Drain<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 797 | 3 | 543095 324552 |
| 154 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 315.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A12SW (W) | 806 | 3 | 542860 323632 |
| 155 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 187.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 811 | 3 | 542997 324462 |
| 156 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 6.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 817 | 3 | 544385 323152 |

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| 157 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19NE (NE) | 818 | 3 | 544542 324626 |
| 158 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 39.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Leam<br>Catchment Name: Nene<br>Primacy: 1 | A18NW (N) | 818 | 3 | 543741 324902 |
| 159 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.0<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19NE (NE) | 820 | 3 | 544542 324628 |
| 160 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 38.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 822 | 3 | 544385 323145 |
| 161 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 399.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A19NE (NE) | 825 | 3 | 544542 324637 |
| 162 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 126.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 1 | A18NW (N) | 827 | 3 | 543695 324900 |
| 163 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Leam<br>Catchment Name: Nene<br>Primacy: 1 | A18NW (N) | 827 | 3 | 543695 324900 |
| 164 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 98.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NW (SW) | 833 | 3 | 542876 323483 |
| 165 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 28.6<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 839 | 3 | 544398 323133 |

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| 166 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 70.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 844 | 3 | 544424 323144 |
| 167 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 12.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 850 | 3 | 542802 324093 |
| 168 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 114.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 852 | 3 | 542888 324366 |
| 169 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 325.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 853 | 3 | 542863 324317 |
| 170 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 2.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 854 | 3 | 542915 324419 |
| 171 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 27.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 856 | 3 | 542914 324421 |
| 172 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 861 | 3 | 542792 324100 |
| 173 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 102.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A11NE (W) | 863 | 3 | 542791 324100 |
| 174 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 11.5<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17NW (NW) | 867 | 3 | 543079 324632 |

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| 175 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 165.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17NE (NW) | 867 | 3 | 543247 324748 |
| 176 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 751.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A15NW (E) | 871 | 3 | 544887 323912 |
| 177 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 184.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Gedney Drain<br>Catchment Name: Nene<br>Primacy: 2 | A17NW (NW) | 872 | 3 | 543083 324642 |
| 178 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A15NW (E) | 872 | 3 | 544887 323913 |
| 179 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 7.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 882 | 3 | 544495 323145 |
| 180 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 143.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17SW (NW) | 883 | 3 | 542888 324430 |
| 181 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 66.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 884 | 3 | 542769 324098 |
| 182 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 29.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SW (SE) | 886 | 3 | 544503 323145 |
| 183 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 1 | A23SW (N) | 888 | 3 | 543575 324923 |

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| 184 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 388.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 890 | 3 | 542765 324115 |
| 185 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 194.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 1 | A23SW (N) | 897 | 3 | 543571 324932 |
| 186 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 902 | 3 | 544533 323145 |
| 187 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 908 | 3 | 544542 323146 |
| 188 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.3<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 908 | 3 | 544542 323146 |
| 189 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 9.4<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 908 | 3 | 544542 323144 |
| 190 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 167.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 912 | 3 | 544550 323146 |
| 191 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 17.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A7NW (SW) | 916 | 3 | 542822 323401 |
| 192 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 346.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Hundred Drain<br>Catchment Name: Nene<br>Primacy: 2 | A9SE (SE) | 916 | 3 | 544543 323135 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 193 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 321.4<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Fleet River<br>Catchment Name: Nene<br>Primacy: 1 | A11NE (W) | 918 | 3 | 542727 324021 |
| 194 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 1.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 918 | 3 | 542727 324021 |
| 195 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 373.2<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 919 | 3 | 542758 324217 |
| 196 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 17.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 919 | 3 | 542726 324022 |
| 197 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 111.8<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Lutton Drain<br>Catchment Name: Nene<br>Primacy: 2 | A6NE (SW) | 931 | 3 | 542811 323388 |
| 198 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 96.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A23SW (N) | 933 | 3 | 543715 325014 |
| 199 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 254.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A11NE (W) | 936 | 3 | 542710 324028 |
| 200 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 108.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17NE (NW) | 941 | 3 | 543307 324856 |
| 201 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 257.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A3NE (S) | 948 | 3 | 544152 322846 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 202 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 121.8<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A3NE (S) | 948 | 3 | 544152 322846 |
| 203 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 116.5<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A17NE (NW) | 950 | 3 | 543319 324871 |
| 204 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 141.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A3NW (S) | 958 | 3 | 543561 322732 |
| 205 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 186.6<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A3NW (S) | 958 | 3 | 543561 322732 |
| 206 | **OS Water Network Lines**<br>Watercourse Form: Inland river<br>Watercourse Length: 8.9<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Nene<br>Primacy: 2 | A20SW (NE) | 993 | 3 | 544870 324401 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **Local Authority Landfill Coverage**<br>Name: South Holland District Council<br>- Has no landfill data to supply | | 0 | 5 | 543812<br>323895 |
| | **Local Authority Landfill Coverage**<br>Name: Lincolnshire County Council<br>- Had landfill data but passed it to the relevant environment agency | | 0 | 4 | 543812<br>323895 |
| 207 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1906 | A7NE (SW) | 508 | - | 543441<br>323244 |
| 208 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1906 | A8SW (S) | 530 | - | 543699<br>323150 |
| 209 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1906 | A8SW (S) | 659 | - | 543558<br>323036 |
| 210 | **Potentially Infilled Land (Water)**<br>Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc)<br>Date of Mapping: 1889 | A3NW (S) | 926 | - | 543666<br>322755 |
| 211 | **Registered Waste Treatment or Disposal Sites**<br>Licence Holder: C J Bradford<br>Licence Reference: S058<br>Site Location: Broadgate Breakers, Swapcoat Lane, Long Sutton, SPALDING, Lincolnshire, PE12 9HD<br>Operator Location: As Site Address<br>Authority: Environment Agency - Anglian Region, Northern Area<br>Site Category: Scrapyard<br>Max Input Rate: Undefined<br>Waste Source Restrictions: No known restriction on source of waste<br>Licence Status: Site exempt from licenceExempt<br>Dated: 1st March 1993<br>Preceded By Licence: Not Given<br>Superseded By Licence: Not Given<br>Positional Accuracy: Manually positioned to the road within the address or location<br>Boundary Quality: Not Supplied<br>Authorised Waste Motorcycles/Bodies/Parts<br>Prohibited Waste Liquid Waste N.O.S.<br>Waste N.O.S. | A7SW (SW) | 962 | 1 | 542940<br>323090 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| | **BGS 1:625,000 Solid Geology**<br>Description: West Walton Formation, Ampthill Clay Formation And Kimmeridge Clay Formation (Undifferentiated) | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: 15 - 25 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **BGS Estimated Soil Chemistry**<br>Source: British Geological Survey, National Geoscience Information Service<br>Soil Sample Type: Rural Soil<br>Arsenic Concentration: <15 mg/kg<br>Cadmium Concentration: <1.8 mg/kg<br>Chromium Concentration: 60 - 90 mg/kg<br>Lead Concentration: <100 mg/kg<br>Nickel Concentration: 15 - 30 mg/kg | A12NW (W) | 644 | 6 | 543000 323895 |
| | **BGS Measured Urban Soil Chemistry**<br>No data available | | | | |
| | **BGS Urban Soil Chemistry Averages**<br>No data available | | | | |
| | **Coal Mining Affected Areas**<br>In an area that might not be affected by coal mining | | | | |
| | **Non Coal Mining Areas of Great Britain**<br>No Hazard | | | | |
| | **Potential for Collapsible Ground Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Potential for Compressible Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Potential for Ground Dissolution Stability Hazards**<br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Potential for Landslide Ground Stability Hazards**<br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Potential for Running Sand Ground Stability Hazards**<br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Potential for Shrinking or Swelling Clay Ground Stability Hazards**<br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Radon Potential - Radon Affected Areas**<br>Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |
| | **Radon Potential - Radon Protection Measures**<br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service | A13NW (SE) | 0 | 6 | 543812 323895 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 212 | **Contemporary Trade Directory Entries**<br>Name: Hefford Joinery Ltd<br>Location: 64, Little London, Long Sutton, Spalding, Lincolnshire, PE12 9LE<br>Classification: Joinery Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (SW) | 14 | - | 543684 323691 |
| 213 | **Contemporary Trade Directory Entries**<br>Name: Ovenclean<br>Location: 101, Little London, Long Sutton, Spalding, Lincolnshire, PE12 9LF<br>Classification: Cleaning Services - Domestic<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A13SW (W) | 24 | - | 543627 323890 |
| 214 | **Contemporary Trade Directory Entries**<br>Name: Mountain Road Haulage Services<br>Location: Lutton Gowts, Lutton, Spalding, Lincolnshire, PE12 9LQ<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned to the road within the address or location | A13NW (NW) | 185 | - | 543619 324166 |
| 215 | **Contemporary Trade Directory Entries**<br>Name: Ann'S Domestic<br>Location: 37, Daniels Crescent, Long Sutton, Spalding, Lincolnshire, PE12 9DS<br>Classification: Cleaning Services - Domestic<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8NW (SW) | 272 | - | 543515 323481 |
| 216 | **Contemporary Trade Directory Entries**<br>Name: The Lutton Bodyshop<br>Location: Lutton Gowts, Lutton, Spalding, Lincolnshire, PE12 9LQ<br>Classification: Car Body Repairs<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A18SW (NW) | 306 | - | 543622 324302 |
| 217 | **Contemporary Trade Directory Entries**<br>Name: Leather Repairs Cambridge<br>Location: The Studio Lime Walk, Spalding, Lincolnshire, PE12 9HQ<br>Classification: Leather Garments & Products<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned within the geographical locality | A12NW (W) | 501 | - | 543148 324044 |
| 218 | **Contemporary Trade Directory Entries**<br>Name: Standard Fireplaces<br>Location: 17, Woad Lane, Long Sutton, Spalding, Lincolnshire, PE12 9LD<br>Classification: Fireplaces & Mantelpieces<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SE (S) | 549 | - | 543855 323153 |
| 219 | **Contemporary Trade Directory Entries**<br>Name: Linc Conveyors Ltd<br>Location: Unit 6 M R K Lime Walk, Long Sutton, Spalding, Lincolnshire, PE12 9HQ<br>Classification: Conveyors & Conveyor Belts<br>**Status: Active**<br>Positional Accuracy: Manually positioned to the road within the address or location | A12NW (W) | 592 | - | 543052 323950 |
| 220 | **Contemporary Trade Directory Entries**<br>Name: Morgan Rekofa<br>Location: 37, John Swains Way, Long Sutton, Spalding, Lincolnshire, PE12 9DQ<br>Classification: Electronic Engineers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NE (SW) | 628 | - | 543176 323333 |
| 221 | **Contemporary Trade Directory Entries**<br>Name: A M R Autos<br>Location: 53, Lime Walk, Long Sutton, Spalding, Lincolnshire, PE12 9HQ<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A12NW (W) | 634 | - | 543013 323906 |
| 221 | **Contemporary Trade Directory Entries**<br>Name: Crawt Mills Motorcycles<br>Location: 53, Lime Walk, Long Sutton, Spalding, PE12 9HQ<br>Classification: Motor Cycle Repairs<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A12NW (W) | 634 | - | 543013 323905 |
| 222 | **Contemporary Trade Directory Entries**<br>Name: Professional Graffiti<br>Location: 74, Roman Bank, Long Sutton, Spalding, Lincolnshire, PE12 9LB<br>Classification: Printers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A8SW (S) | 657 | - | 543780 323028 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 223 | **Contemporary Trade Directory Entries**<br>Name: Souter'S Haulage<br>Location: Lime Walk, Long Sutton, Spalding, Lincolnshire, PE12 9HG<br>Classification: Road Haulage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned in the proximity of the address | A12SW (W) | 664 | - | 542993 323700 |
| 224 | **Contemporary Trade Directory Entries**<br>Name: Long Sutton Tyres<br>Location: Park Lane, Long Sutton, Spalding, Lincolnshire, PE12 9DH<br>Classification: Tyre Dealers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7SE (SW) | 745 | - | 543239 323095 |
| 225 | **Contemporary Trade Directory Entries**<br>Name: Blades Blinds<br>Location: 22, Anfield Road, Long Sutton, Spalding, Lincolnshire, PE12 9GZ<br>Classification: Blinds, Awnings & Canopies<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7NW (SW) | 758 | - | 542976 323445 |
| 226 | **Contemporary Trade Directory Entries**<br>Name: Step & Rise<br>Location: Lime Walk, Long Sutton, Spalding, Lincolnshire, PE12 9HG<br>Classification: Staircase, Balustrade & Handrail Manufacturers<br>**Status: Inactive**<br>Positional Accuracy: Manually positioned within the geographical locality | A12SW (W) | 770 | - | 542905 323600 |
| 227 | **Contemporary Trade Directory Entries**<br>Name: Long Sutton Car Spares<br>Location: (Veales), Dockings Holt, Long Sutton, Spalding, Lincolnshire, PE12 9HL<br>Classification: Car Breakers & Dismantlers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A17SW (W) | 773 | - | 542923 324254 |
| 228 | **Contemporary Trade Directory Entries**<br>Name: Wisbech Telecom<br>Location: 7, London Road, Long Sutton, Spalding, Lincolnshire, PE12 9EA<br>Classification: Telecommunications Equipment & Systems<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7SE (SW) | 841 | - | 543389 322899 |
| 229 | **Contemporary Trade Directory Entries**<br>Name: J W Talton<br>Location: 15, Market Street, Long Sutton, Spalding, Lincolnshire, PE12 9DD<br>Classification: Cabinet Makers<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7SW (SW) | 868 | - | 543106 323048 |
| 230 | **Contemporary Trade Directory Entries**<br>Name: Acorn Waste Tech Services Ltd<br>Location: Dockings Holt, Lutton, Spalding, Lincolnshire, PE12 9HL<br>Classification: Recycling Services<br>**Status: Active**<br>Positional Accuracy: Manually positioned within the geographical locality | A11NE (W) | 878 | - | 542792 324188 |
| 231 | **Contemporary Trade Directory Entries**<br>Name: Exchange Garage (Long Sutton)<br>Location: 31, Market Street, Long Sutton, Spalding, Lincolnshire, PE12 9DD<br>Classification: Garage Services<br>**Status: Inactive**<br>Positional Accuracy: Automatically positioned to the address | A7SW (SW) | 891 | - | 543016 323109 |
| 231 | **Contemporary Trade Directory Entries**<br>Name: Exchange Garage Autos Ltd<br>Location: 31, Market Street, Long Sutton, Spalding, PE12 9DD<br>Classification: Garage Services<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7SW (SW) | 891 | - | 543016 323109 |
| 232 | **Contemporary Trade Directory Entries**<br>Name: Parkway<br>Location: 21, Market Place, Long Sutton, Spalding, Lincolnshire, PE12 9JA<br>Classification: Hardware<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A7SE (SW) | 919 | - | 543192 322913 |
| 233 | **Contemporary Trade Directory Entries**<br>Name: W J Manufacturing Ltd<br>Location: 2, London Road, Long Sutton, Spalding, PE12 9EA<br>Classification: Precision Engineers<br>**Status: Active**<br>Positional Accuracy: Automatically positioned to the address | A2NE (SW) | 932 | - | 543345 322819 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 234 | **Points of Interest - Commercial Services**<br>Name: The Lutton Bodyshop<br>Location: Mill House, Lutton Gowts, Lutton, Spalding, PE12 9LQ<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A18SW (NW) | 295 | 7 | 543635 324297 |
| 235 | **Points of Interest - Commercial Services**<br>Name: Crawt Mills Motorcycles<br>Location: 53 Lime Walk, Long Sutton, Spalding, PE12 9HQ<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A12NW (W) | 634 | 7 | 543013 323905 |
| 235 | **Points of Interest - Commercial Services**<br>Name: Amr Autos<br>Location: 53 Lime Walk, Long Sutton, Spalding, PE12 9HQ<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A12NW (W) | 634 | 7 | 543013 323906 |
| 235 | **Points of Interest - Commercial Services**<br>Name: A M R Autos<br>Location: Mrk Plant Hire Ltd, Lime Walk, Long Sutton, Spalding, PE12 9HG<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A12NW (W) | 634 | 7 | 543013 323905 |
| 236 | **Points of Interest - Commercial Services**<br>Name: Acorn Waste Tech Services Ltd<br>Location: Dockings Holt, Lutton, Spalding, PE12 9HL<br>Category: Recycling Services<br>Class Code: Recycling, Reclamation and Disposal<br>Positional Accuracy: Positioned to address or location | A17SW (NW) | 779 | 7 | 542926 324276 |
| 237 | **Points of Interest - Commercial Services**<br>Name: Exchange Garage Autos Ltd<br>Location: 31 Market Street, Long Sutton, Spalding, PE12 9DD<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A7SW (SW) | 891 | 7 | 543016 323109 |
| 237 | **Points of Interest - Commercial Services**<br>Name: Exchange Garage Autos Ltd<br>Location: 31 Market Street, Long Sutton, Spalding, PE12 9DD<br>Category: Repair and Servicing<br>Class Code: Vehicle Repair, Testing and Servicing<br>Positional Accuracy: Positioned to address or location | A7SW (SW) | 899 | 7 | 543009 323105 |
| 238 | **Points of Interest - Manufacturing and Production**<br>Name: Solar Panels<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to an adjacent address or location | A13SE (SE) | 97 | 7 | 543992 323755 |
| 238 | **Points of Interest - Manufacturing and Production**<br>Name: Long Sutton Butterfly and Wildlife Park (extension) - Solar Photovoltaics (DECC)<br>Location: Little London, Spalding, PE12 9LE<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to address or location | A13SE (SE) | 111 | 7 | 544009 323749 |
| 239 | **Points of Interest - Manufacturing and Production**<br>Name: Long Sutton Butterfly and Wildlife Park - Solar Photovoltaics (BEIS)<br>Location: Little London, Spalding, PE12 9LE<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to address or location | A8NE (SE) | 252 | 7 | 543966 323553 |
| 240 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: Not Supplied<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A8SE (S) | 505 | 7 | 543845 323196 |
| 241 | **Points of Interest - Manufacturing and Production**<br>Name: H H Bland<br>Location: 60 Lime Walk, Long Sutton, Spalding, PE12 9HQ<br>Category: Farming<br>Class Code: Arable Farming<br>Positional Accuracy: Positioned to address or location | A12NW (W) | 523 | 7 | 543121 323961 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 241 | **Points of Interest - Manufacturing and Production**<br>Name: H H Bland<br>Location: 60 Lime Walk, Long Sutton, Spalding, PE12 9HQ<br>Category: Farming<br>Class Code: Arable Farming<br>Positional Accuracy: Positioned to address or location | A12NW (W) | 523 | 7 | 543121 323961 |
| 242 | **Points of Interest - Manufacturing and Production**<br>Name: G H Hoyles Ltd<br>Location: Monmouth House, Monmouth Lane, Lutton, Spalding, PE12 9LH<br>Category: Farming<br>Class Code: Arable Farming<br>Positional Accuracy: Positioned to address or location | A19SW (NE) | 528 | 7 | 544298 324464 |
| 242 | **Points of Interest - Manufacturing and Production**<br>Name: Solar Panels<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to an adjacent address or location | A19SW (NE) | 551 | 7 | 544320 324474 |
| 243 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: Not Supplied<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A7SE (SW) | 744 | 7 | 543227 323106 |
| 243 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A7SE (SW) | 745 | 7 | 543221 323110 |
| 244 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A7SW (SW) | 902 | 7 | 542985 323131 |
| 244 | **Points of Interest - Manufacturing and Production**<br>Name: Works<br>Location: Not Supplied<br>Category: Industrial Features<br>Class Code: Unspecified Works Or Factories<br>Positional Accuracy: Positioned to an adjacent address or location | A7SW (SW) | 912 | 7 | 542984 323116 |
| 245 | **Points of Interest - Manufacturing and Production**<br>Name: Wind Turbine<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to an adjacent address or location | A19NE (NE) | 940 | 7 | 544610 324733 |
| 245 | **Points of Interest - Manufacturing and Production**<br>Name: Monmouth House Farm Turbine<br>Location: PE12<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to address or location | A19NE (NE) | 941 | 7 | 544611 324734 |
| 245 | **Points of Interest - Manufacturing and Production**<br>Name: Monmouth House Farm<br>Location: Monmouth Lane, Lutton, Spalding, PE12 9LH<br>Category: Industrial Features<br>Class Code: Energy Production<br>Positional Accuracy: Positioned to an adjacent address or location | A19NE (NE) | 941 | 7 | 544611 324734 |
| 246 | **Points of Interest - Manufacturing and Production**<br>Name: C Sanderson<br>Location: 49 Gedney Road, Long Sutton, Spalding, PE12 9JL<br>Category: Farming<br>Class Code: Livestock Farming<br>Positional Accuracy: Positioned to address or location | A6NE (SW) | 999 | 7 | 542736 323388 |
| 246 | **Points of Interest - Manufacturing and Production**<br>Name: C Sanderson<br>Location: 49 Gedney Road, Long Sutton, Spalding, PE12 9JL<br>Category: Farming<br>Class Code: Livestock Farming<br>Positional Accuracy: Positioned to address or location | A6NE (SW) | 999 | 7 | 542736 323388 |

| Map ID | Details | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR |
|---|---|---|---|---|---|
| 247 | **Points of Interest - Public Infrastructure**<br>Name: Sewage Pumping Station<br>Location: PE12<br>Category: Infrastructure and Facilities<br>Class Code: Waste Storage, Processing and Disposal<br>Positional Accuracy: Positioned to an adjacent address or location | A8NW (SW) | 226 | 7 | 543613 323471 |
| 248 | **Points of Interest - Public Infrastructure**<br>Name: Cemetery<br>Location: PE12<br>Category: Infrastructure and Facilities<br>Class Code: Cemeteries and Crematoria<br>Positional Accuracy: Positioned to an adjacent address or location | A8SW (S) | 786 | 7 | 543561 322906 |
| 248 | **Points of Interest - Public Infrastructure**<br>Name: Cemetery<br>Location: Not Supplied<br>Category: Infrastructure and Facilities<br>Class Code: Cemeteries and Crematoria<br>Positional Accuracy: Positioned to an adjacent address or location | A8SW (S) | 787 | 7 | 543561 322905 |
| 249 | **Points of Interest - Recreational and Environmental**<br>Name: Play Area<br>Location: PE12<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location | A8SW (S) | 491 | 7 | 543648 323192 |
| 249 | **Points of Interest - Recreational and Environmental**<br>Name: Skatepark<br>Location: PE12<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location | A8SW (S) | 538 | 7 | 543679 323142 |
| 250 | **Points of Interest - Recreational and Environmental**<br>Name: Playground<br>Location: John Swain'S Way, PE12<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to address or location | A7NE (SW) | 533 | 7 | 543220 323448 |
| 251 | **Points of Interest - Recreational and Environmental**<br>Name: Play Area<br>Location: PE12<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location | A7NW (SW) | 697 | 7 | 543029 323475 |
| 252 | **Points of Interest - Recreational and Environmental**<br>Name: Play Area<br>Location: PE12<br>Category: Recreational<br>Class Code: Playgrounds<br>Positional Accuracy: Positioned to an adjacent address or location | A7SW (SW) | 989 | 7 | 543048 322937 |

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Contaminated Land Register Entries and Notices** | | |
| Environment Agency - Head Office | June 2020 | Annually |
| Fenland District Council - Environmental Health Department | September 2017 | Annual Rolling Update |
| South Holland District Council - Environmental Services | September 2017 | Annual Rolling Update |
| **Discharge Consents** | | |
| Environment Agency - Anglian Region | July 22 | Quarterly |
| **Enforcement and Prohibition Notices** | | |
| Environment Agency - Anglian Region | March 2013 | |
| **Integrated Pollution Controls** | | |
| Environment Agency - Anglian Region | January 2009 | |
| **Integrated Pollution Prevention And Control** | | |
| Environment Agency - Anglian Region | July 2022 | Quarterly |
| **Local Authority Integrated Pollution Prevention And Control** | | |
| Fenland District Council - Environmental Health Department | February 2015 | Variable |
| South Holland District Council - Environmental Services | October 2014 | Variable |
| **Local Authority Pollution Prevention and Controls** | | |
| Fenland District Council - Environmental Health Department | February 2015 | Annual Rolling Update |
| South Holland District Council - Environmental Services | October 2014 | Annual Rolling Update |
| **Local Authority Pollution Prevention and Control Enforcements** | | |
| Fenland District Council - Environmental Health Department | February 2015 | Variable |
| South Holland District Council - Environmental Services | October 2014 | Variable |
| **Nearest Surface Water Feature** | | |
| Ordnance Survey | June 2022 | |
| **Pollution Incidents to Controlled Waters** | | |
| Environment Agency - Anglian Region | September 1999 | |
| **Prosecutions Relating to Authorised Processes** | | |
| Environment Agency - Anglian Region | July 2015 | |
| **Prosecutions Relating to Controlled Waters** | | |
| Environment Agency - Anglian Region | March 2013 | |
| **Registered Radioactive Substances** | | |
| Environment Agency - Anglian Region | June 2016 | As notified |
| **River Quality** | | |
| Environment Agency - Head Office | November 2001 | Not Applicable |
| **River Quality Biology Sampling Points** | | |
| Environment Agency - Head Office | April 2012 | |
| **River Quality Chemistry Sampling Points** | | |
| Environment Agency - Head Office | April 2012 | |
| **Substantiated Pollution Incident Register** | | |
| Environment Agency - Anglian Region - Central Area | July 2022 | Quarterly |
| Environment Agency - Anglian Region - Northern Area | July 2022 | Quarterly |
| **Water Abstractions** | | |
| Environment Agency - Anglian Region | July 2022 | Quarterly |
| **Water Industry Act Referrals** | | |
| Environment Agency - Anglian Region | October 2017 | |
| **Groundwater Vulnerability Map** | | |
| Environment Agency - Head Office | June 2018 | As notified |
| **Bedrock Aquifer Designations** | | |
| Environment Agency - Head Office | January 2018 | Annually |
| **Superficial Aquifer Designations** | | |
| Environment Agency - Head Office | January 2018 | Annually |

# Data Currency

| Agency & Hydrological | Version | Update Cycle |
|---|---|---|
| **Source Protection Zones**<br>Environment Agency - Head Office | July 2022 | Bi-Annually |
| **Extreme Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | August 2022 | Quarterly |
| **Flooding from Rivers or Sea without Defences**<br>Environment Agency - Head Office | August 2022 | Quarterly |
| **Areas Benefiting from Flood Defences**<br>Environment Agency - Head Office | August 2022 | Quarterly |
| **Flood Water Storage Areas**<br>Environment Agency - Head Office | August 2022 | Quarterly |
| **Flood Defences**<br>Environment Agency - Head Office | August 2022 | Quarterly |
| **OS Water Network Lines**<br>Ordnance Survey | July 2022 | Quarterly |
| **Surface Water 1 in 30 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water 1 in 100 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water 1 in 1000 year Flood Extent**<br>Environment Agency - Head Office | May 2018 | Annually |
| **Surface Water Suitability**<br>Environment Agency - Head Office | February 2016 | Annually |
| **BGS Groundwater Flooding Susceptibility**<br>British Geological Survey - National Geoscience Information Service | May 2013 | As notified |

# Data Currency

| Waste | Version | Update Cycle |
|---|---|---|
| **BGS Recorded Landfill Sites** | | |
| British Geological Survey - National Geoscience Information Service | November 2002 | As notified |
| **Historical Landfill Sites** | | |
| Environment Agency - Head Office | April 2022 | Quarterly |
| **Integrated Pollution Control Registered Waste Sites** | | |
| Environment Agency - Anglian Region | January 2009 | Not Applicable |
| **Licensed Waste Management Facilities (Landfill Boundaries)** | | |
| Environment Agency - Anglian Region - Central Area | April 2022 | Quarterly |
| Environment Agency - Anglian Region - Northern Area | April 2022 | Quarterly |
| **Licensed Waste Management Facilities (Locations)** | | |
| Environment Agency - Anglian Region - Central Area | April 2022 | Quarterly |
| Environment Agency - Anglian Region - Northern Area | April 2022 | Quarterly |
| **Local Authority Landfill Coverage** | | |
| Cambridgeshire County Council | February 2003 | Not Applicable |
| Fenland District Council | February 2003 | Not Applicable |
| Lincolnshire County Council | February 2003 | Not Applicable |
| South Holland District Council - Environmental Services | February 2003 | Not Applicable |
| **Local Authority Recorded Landfill Sites** | | |
| Cambridgeshire County Council | October 2018 | |
| Fenland District Council | October 2018 | |
| Lincolnshire County Council | October 2018 | |
| South Holland District Council - Environmental Services | October 2018 | |
| **Potentially Infilled Land (Non-Water)** | | |
| Landmark Information Group Limited | December 1999 | Not Applicable |
| **Potentially Infilled Land (Water)** | | |
| Landmark Information Group Limited | December 1999 | |
| **Registered Landfill Sites** | | |
| Environment Agency - Anglian Region - Central Area | March 2006 | Not Applicable |
| Environment Agency - Anglian Region - Northern Area | March 2006 | Not Applicable |
| **Registered Waste Transfer Sites** | | |
| Environment Agency - Anglian Region - Central Area | April 2018 | |
| Environment Agency - Anglian Region - Northern Area | April 2018 | |
| **Registered Waste Treatment or Disposal Sites** | | |
| Environment Agency - Anglian Region - Central Area | June 2015 | |
| Environment Agency - Anglian Region - Northern Area | June 2015 | |

| Hazardous Substances | Version | Update Cycle |
|---|---|---|
| **Control of Major Accident Hazards Sites (COMAH)** | | |
| Health and Safety Executive | January 2022 | Bi-Annually |
| **Explosive Sites** | | |
| Health and Safety Executive | March 2017 | Annually |
| **Notification of Installations Handling Hazardous Substances (NIHHS)** | | |
| Health and Safety Executive | August 2001 | |
| **Planning Hazardous Substance Enforcements** | | |
| Lincolnshire County Council - Highways and Planning Department | August 2010 | Variable |
| Cambridgeshire County Council | February 2016 | Variable |
| Fenland District Council | February 2016 | Variable |
| South Holland District Council | January 2016 | Variable |
| **Planning Hazardous Substance Consents** | | |
| Lincolnshire County Council - Highways and Planning Department | August 2007 | Variable |
| Cambridgeshire County Council | February 2016 | Variable |
| Fenland District Council | February 2016 | Variable |
| South Holland District Council | January 2016 | Variable |

| Geological | Version | Update Cycle |
|---|---|---|
| **BGS 1:625,000 Solid Geology** | | |
| British Geological Survey - National Geoscience Information Service | January 2009 | As notified |
| **BGS Estimated Soil Chemistry** | | |
| British Geological Survey - National Geoscience Information Service | December 2015 | As notified |
| **BGS Recorded Mineral Sites** | | |
| British Geological Survey - National Geoscience Information Service | May 2022 | Bi-Annually |
| **CBSCB Compensation District** | | |
| Cheshire Brine Subsidence Compensation Board (CBSCB) | August 2011 | |
| Cheshire Brine Subsidence Compensation Board (CBSCB) | November 2020 | As notified |
| **Coal Mining Affected Areas** | | |
| The Coal Authority - Property Searches | March 2014 | Annual Rolling Update |
| **Mining Instability** | | |
| Ove Arup & Partners | June 1998 | Not Applicable |
| **Non Coal Mining Areas of Great Britain** | | |
| British Geological Survey - National Geoscience Information Service | May 2015 | Not Applicable |
| **Potential for Collapsible Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | April 2020 | As notified |
| **Potential for Compressible Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2019 | As notified |
| **Potential for Ground Dissolution Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2019 | As notified |
| **Potential for Landslide Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2019 | As notified |
| **Potential for Running Sand Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2019 | As notified |
| **Potential for Shrinking or Swelling Clay Ground Stability Hazards** | | |
| British Geological Survey - National Geoscience Information Service | January 2019 | As notified |
| **Radon Potential - Radon Affected Areas** | | |
| British Geological Survey - National Geoscience Information Service | July 2011 | Annually |
| **Radon Potential - Radon Protection Measures** | | |
| British Geological Survey - National Geoscience Information Service | July 2011 | Annually |

# Data Currency

| Industrial Land Use | Version | Update Cycle |
|---|---|---|
| **Contemporary Trade Directory Entries**<br>Thomson Directories | July 2022 | Quarterly |
| **Fuel Station Entries**<br>Catalist Ltd - Experian | June 2022 | Quarterly |
| **Gas Pipelines**<br>National Grid | October 2021 | Bi-Annually |
| **Points of Interest - Commercial Services**<br>PointX | September 2022 | Quarterly |
| **Points of Interest - Education and Health**<br>PointX | September 2022 | Quarterly |
| **Points of Interest - Manufacturing and Production**<br>PointX | September 2022 | Quarterly |
| **Points of Interest - Public Infrastructure**<br>PointX | September 2022 | Quarterly |
| **Points of Interest - Recreational and Environmental**<br>PointX | September 2022 | Quarterly |
| **Underground Electrical Cables**<br>National Grid | May 2021 | Bi-Annually |

| Sensitive Land Use | Version | Update Cycle |
|---|---|---|
| **Ancient Woodland** | | |
| Natural England | February 2021 | Bi-Annually |
| **Areas of Adopted Green Belt** | | |
| Fenland District Council | July 2022 | Quarterly |
| South Holland District Council | July 2022 | Quarterly |
| **Areas of Unadopted Green Belt** | | |
| Fenland District Council | July 2022 | Quarterly |
| South Holland District Council | July 2022 | Quarterly |
| **Areas of Outstanding Natural Beauty** | | |
| Natural England | August 2022 | Bi-Annually |
| **Environmentally Sensitive Areas** | | |
| Natural England | January 2017 | |
| **Forest Parks** | | |
| Forestry Commission | April 1997 | Not Applicable |
| **Local Nature Reserves** | | |
| Natural England | February 2021 | Bi-Annually |
| **Marine Nature Reserves** | | |
| Natural England | July 2019 | Bi-Annually |
| **National Nature Reserves** | | |
| Natural England | January 2021 | Bi-Annually |
| **National Parks** | | |
| Natural England | February 2018 | Bi-Annually |
| **Nitrate Sensitive Areas** | | |
| Natural England | April 2016 | Not Applicable |
| **Nitrate Vulnerable Zones** | | |
| Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) | April 2016 | |
| Environment Agency - Head Office | June 2017 | Bi-Annually |
| **Ramsar Sites** | | |
| Natural England | August 2020 | Bi-Annually |
| **Sites of Special Scientific Interest** | | |
| Natural England | February 2021 | Bi-Annually |
| **Special Areas of Conservation** | | |
| Natural England | July 2020 | Bi-Annually |
| **Special Protection Areas** | | |
| Natural England | February 2021 | Bi-Annually |

# Data Suppliers

A selection of organisations who provide data within this report

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

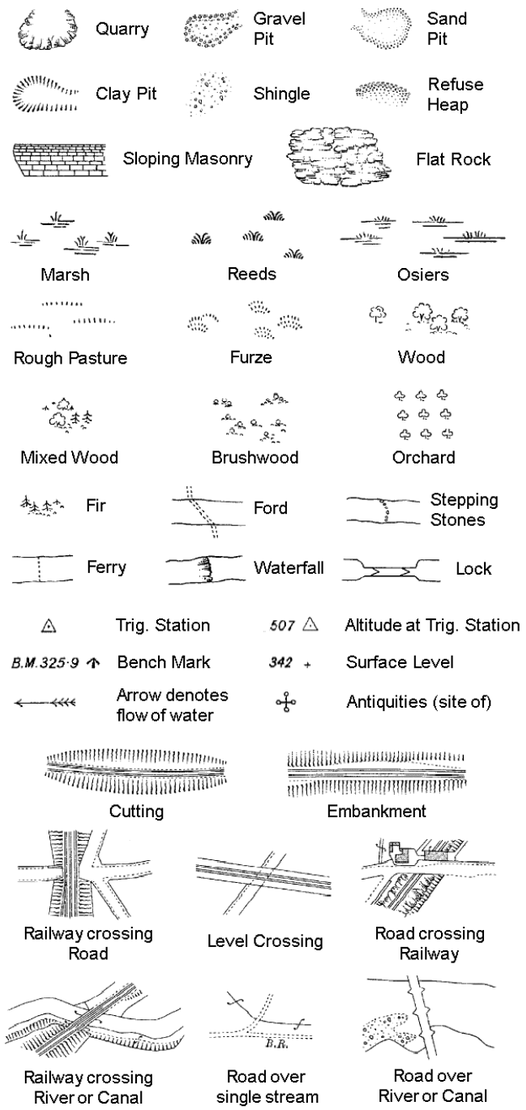
# Useful Contacts

| Contact | Name and Address | Contact Details |
|---|---|---|
| 1 | **Environment Agency - National Customer Contact Centre (NCCC)**<br>PO Box 544, Templeborough, Rotherham, S60 1BY | Telephone: 03708 506 506<br>Email: enquiries@environment-agency.gov.uk |
| 2 | **Environment Agency - Head Office**<br>Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD | Telephone: 01454 624400<br>Fax: 01454 624409 |
| 3 | **Ordnance Survey**<br>Adanac Drive, Southampton, Hampshire, SO16 0AS | Telephone: 03456 05 05 05<br>Email: customerservices@ordnancesurvey.co.uk<br>Website: www.ordnancesurvey.gov.uk |
| 4 | **Lincolnshire County Council**<br>4th Floor, City Hall, Lincoln, Lincolnshire, LN1 1DN | Telephone: 01522 552222<br>Fax: 01522 552288<br>Email: PublicRelations@lincolnshire.gov.uk<br>Website: www.lincolnshire.gov.uk |
| 5 | **South Holland District Council - Environmental Services**<br>Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE | Website: www.sholland.gov.uk |
| 6 | **British Geological Survey - Enquiry Service**<br>British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG | Telephone: 0115 936 3143<br>Fax: 0115 936 3276<br>Email: enquiries@bgs.ac.uk<br>Website: www.bgs.ac.uk |
| 7 | **PointX**<br>7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY | Website: www.pointx.co.uk |
| 8 | **Natural England**<br>County Hall, Spetchley Road, Worcester, WR5 2NP | Telephone: 0300 060 3900<br>Email: enquiries@naturalengland.org.uk<br>Website: www.naturalengland.org.uk |
| - | **Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards**<br>Chilton, Didcot, Oxfordshire, OX11 0RQ | Telephone: 01235 822622<br>Fax: 01235 833891<br>Email: radon@phe.gov.uk<br>Website: www.ukradon.org |
| - | **Landmark Information Group Limited**<br>Imperium, Imperial Way, Reading, Berkshire, RG2 0TD | Telephone: 0844 844 9952<br>Fax: 0844 844 9951<br>Email: customerservices@landmarkinfo.co.uk<br>Website: www.landmarkinfo.co.uk |

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

# Historical Mapping Legends

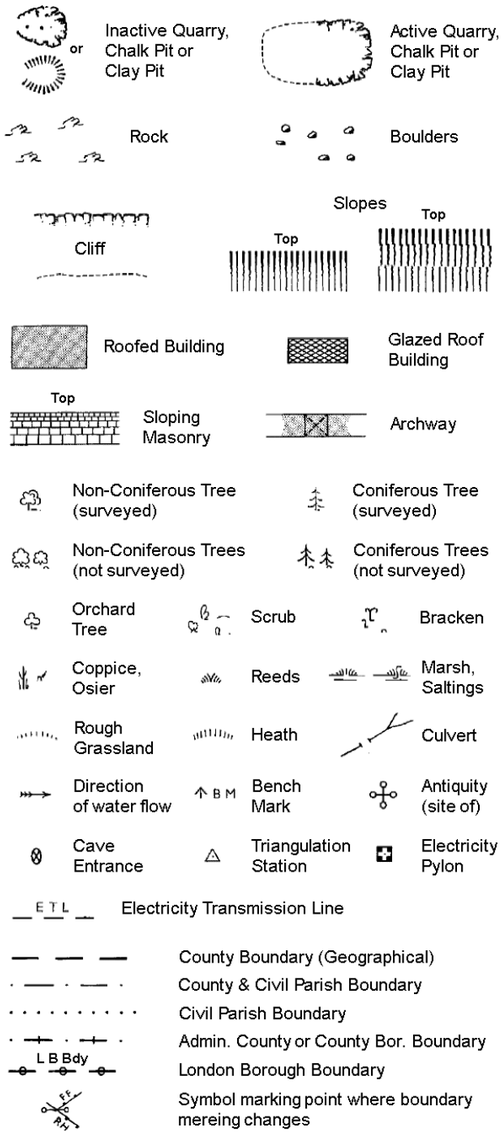
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500




County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)

| | | | |
|---|---|---|---|
| B P B S | Boundary Post or Stone | P.C.B | Police Call Box |
| B.R. | Bridle Road | P | Pump |
| E.P | Electricity Pylon | S.P | Signal Post |
| F.B. | Foot Bridge | St. | Sluice |
| F.P. | Foot Path | Sp. | Spring |
| G.P | Guide Post or Board | T.C.B | Telephone Call Box |
| M.S | Mile Stone | Tr. | Trough |
| M.P M.R | Mooring Post or Ring | W | Well |

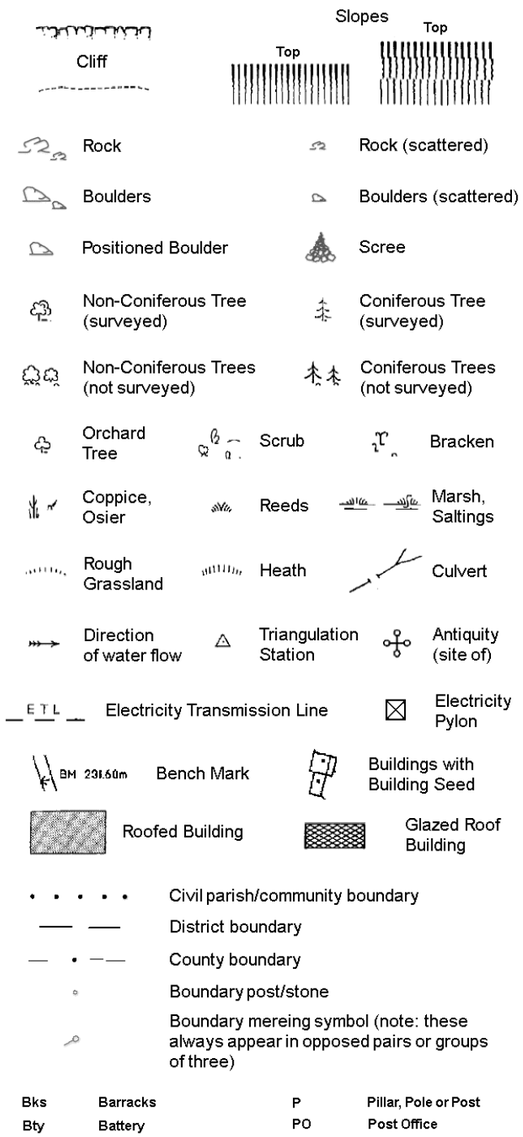
## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250




County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy London Borough Boundary
Symbol marking point where boundary mereing changes

| | | | |
|---|---|---|---|
| BH | Beer House | P | Pillar, Pole or Post |
| BP, BS | Boundary Post or Stone | PO | Post Office |
| Cn, C | Capstan, Crane | PC | Public Convenience |
| Chy | Chimney | PH | Public House |
| D Fn | Drinking Fountain | Pp | Pump |
| El P | Electricity Pillar or Post | SB, S Br | Signal Box or Bridge |
| FAP | Fire Alarm Pillar | SP, SL | Signal Post or Light |
| FB | Foot Bridge | Spr | Spring |
| GP | Guide Post | Tk | Tank or Track |
| H | Hydrant or Hydraulic | TCB | Telephone Call Box |
| LC | Level Crossing | TCP | Telephone Call Post |
| MH | Manhole | Tr | Trough |
| MP | Mile Post or Mooring Post | Wr Pt, Wr T | Water Point, Water Tap |
| MS | Mile Stone | W | Well |
| NTL | Normal Tidal Limit | Wd Pp | Wind Pump |

## Large-Scale National Grid Data 1:2,500 and 1:1,250




Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

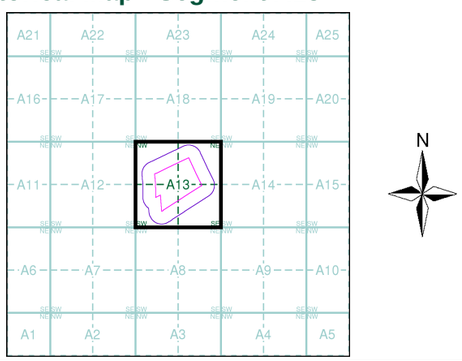
| | | | |
|---|---|---|---|
| Bks | Barracks | P | Pillar, Pole or Post |
| Bty | Battery | PO | Post Office |
| Cemy | Cemetery | PC | Public Convenience |
| Chy | Chimney | Pp | Pump |
| Cis | Cistern | Ppg Sta | Pumping Station |
| Dismtd Rly | Dismantled Railway | PW | Place of Worship |
| El Gen Sta | Electricity Generating Station | Sewage Ppg Sta | Sewage Pumping Station |
| El P | Electricity Pole, Pillar | SB, S Br | Signal Box or Bridge |
| El Sub Sta | Electricity Sub Station | SP, SL | Signal Post or Light |
| FB | Filter Bed | Spr | Spring |
| Fn / D Fn | Fountain / Drinking Ftn. | Tk | Tank or Track |
| Gas Gov | Gas Valve Compound | Tr | Trough |
| GVC | Gas Governer | Wd Pp | Wind Pump |
| GP | Guide Post | Wr Pt, Wr T | Water Point, Water Tap |
| MH | Manhole | Wks | Works (building or area) |
| MP, MS | Mile Post or Mile Stone | W | Well |

MOTT MACDONALD

## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Lincolnshire | 1:2,500 | 1888 | 2 |
| Lincolnshire | 1:2,500 | 1904 | 3 |
| Lincolnshire | 1:2,500 | 1931 | 4 |
| Ordnance Survey Plan | 1:2,500 | 1972 | 5 |
| Supply of Unpublished Survey Information | 1:2,500 | 1974 | 6 |
| Additional SIMs | 1:2,500 | 1979 - 1982 | 7 |
| Additional SIMs | 1:2,500 | 1981 - 1990 | 8 |
| Ordnance Survey Plan | 1:2,500 | 1989 | 9 |
| Additional SIMs | 1:2,500 | 1990 | 10 |
| Large-Scale National Grid Data | 1:2,500 | 1994 | 11 |
| Historical Aerial Photography | 1:2,500 | 1999 | 12 |

## Historical Map - Segment A13



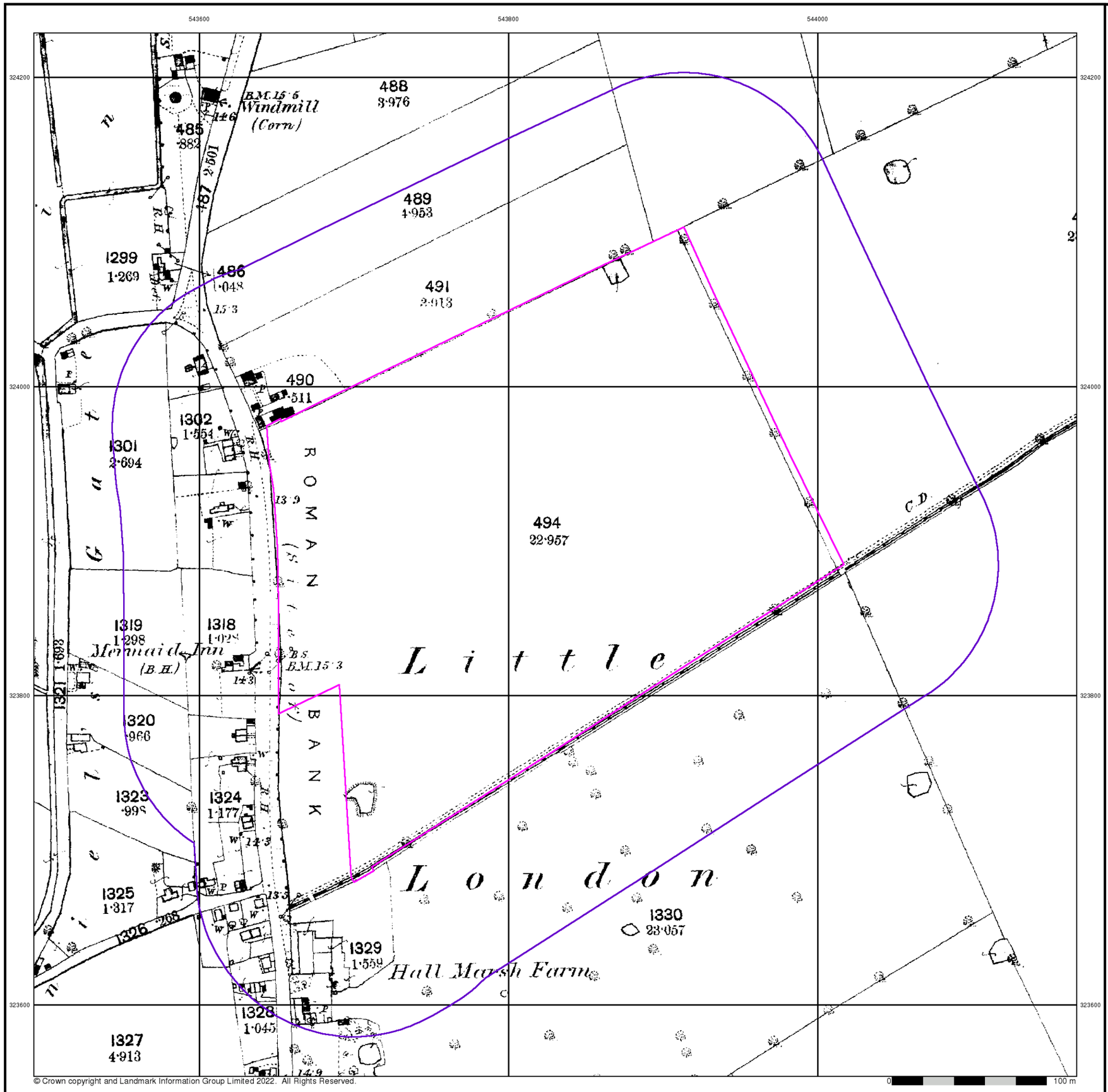

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 100 |

## Site Details

83, Little London, Long Sutton, SPALDING, PE12 9LF


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




MOTT MACDONALD

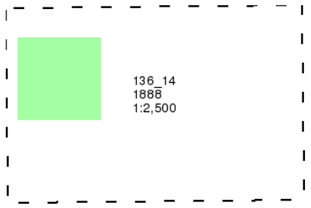
## Lincolnshire

## Published 1888

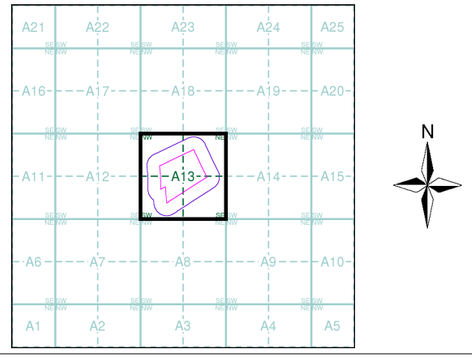
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13



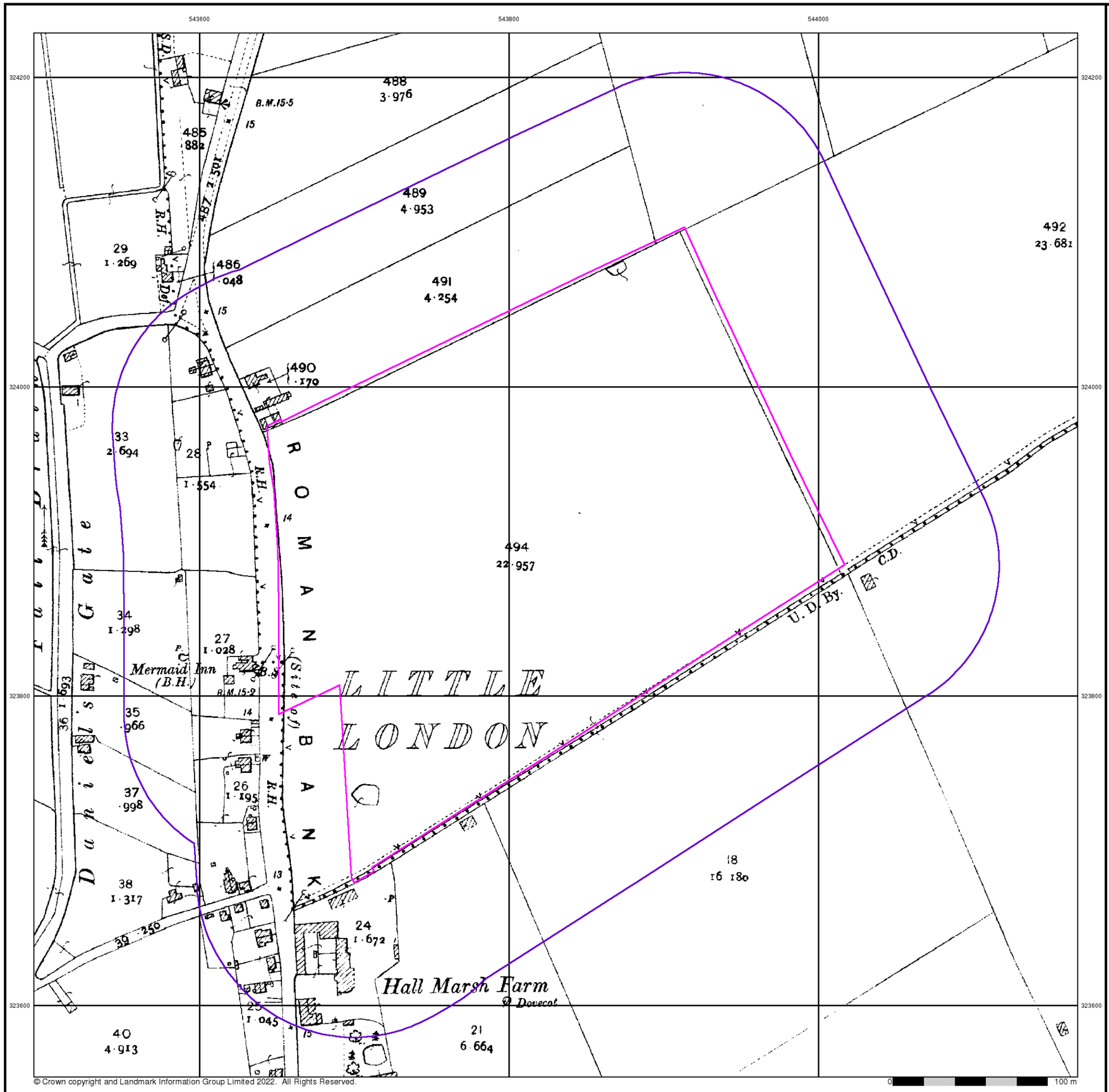

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 100 |

## Site Details

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## Lincolnshire

## Published 1904

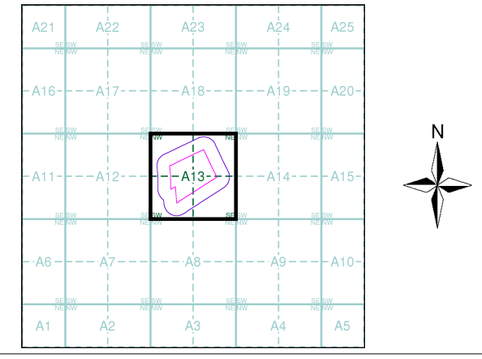
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)

136_14
1904
1:2,500

## Historical Map - Segment A13



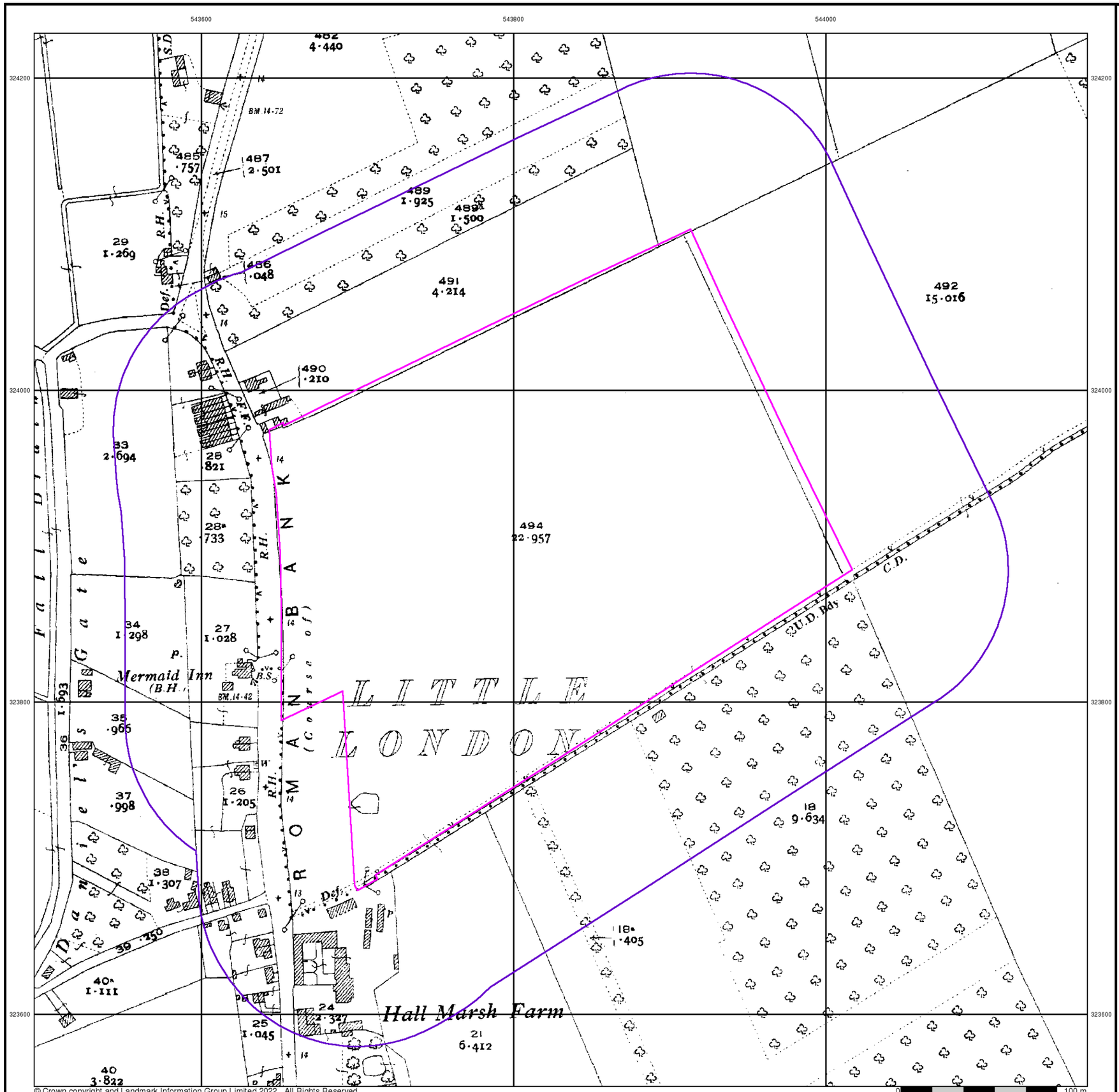

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 100 |

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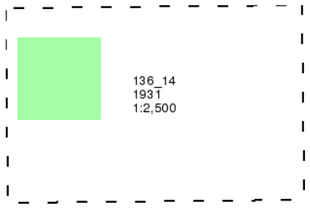
## Lincolnshire

## Published 1931

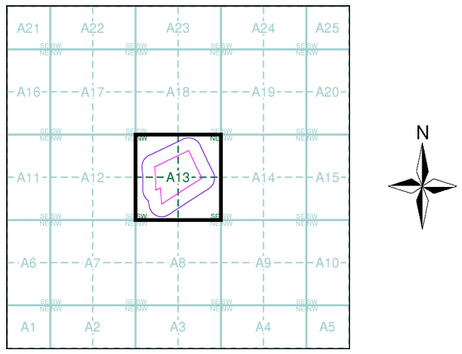
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13



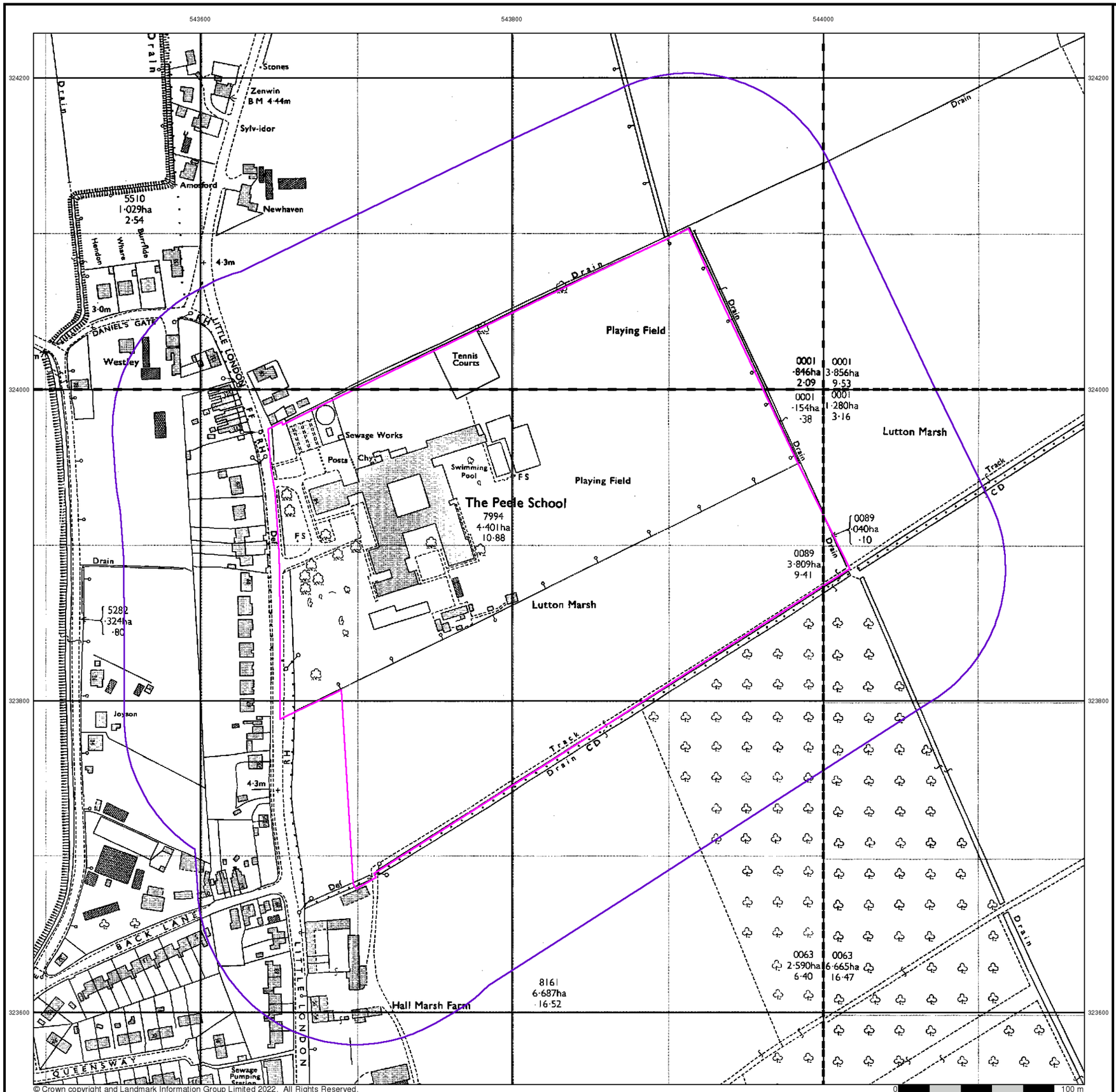

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
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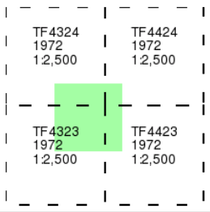
## Ordnance Survey Plan

## Published 1972

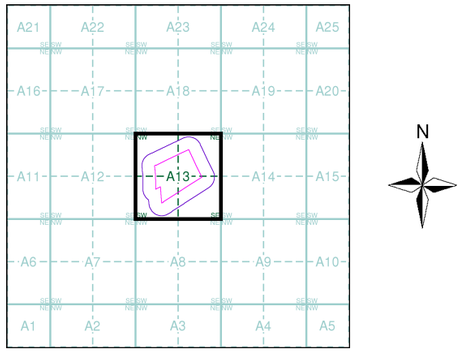
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13



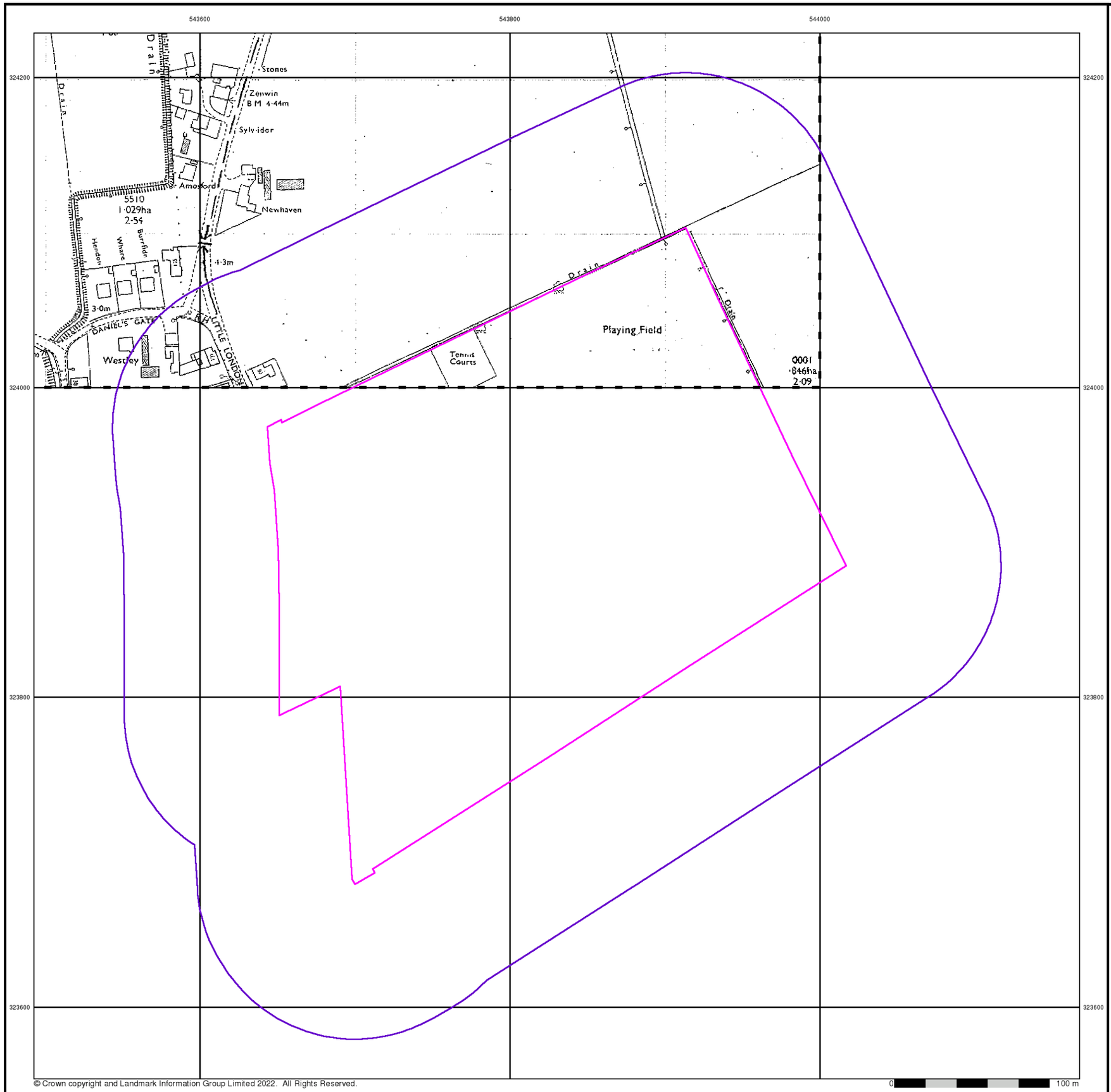

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 100 |

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# M

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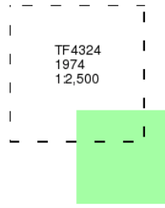
## Supply of Unpublished Survey Information

**Published 1974**

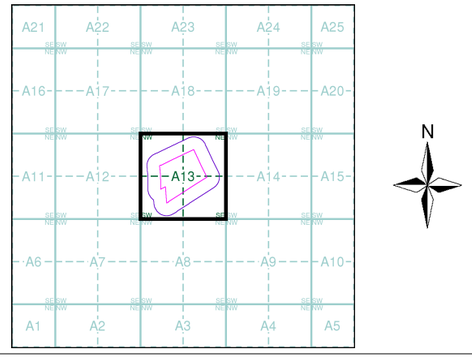
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
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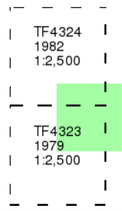
## Additional SIMs

**Published 1979 - 1982**

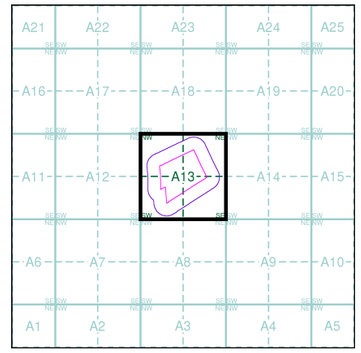
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

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| Order Number: | 301186054_1_1 |
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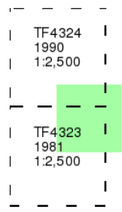
## Additional SIMs

**Published 1981 - 1990**

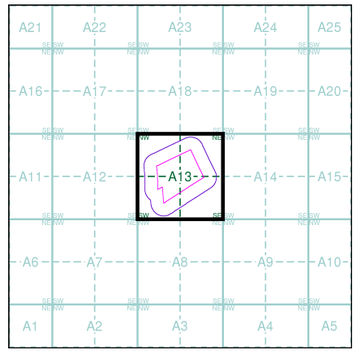
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

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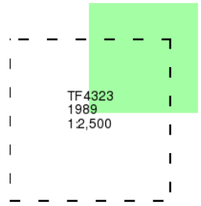
## Ordnance Survey Plan

### Published 1989

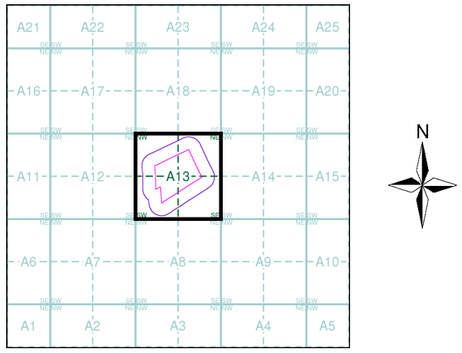
### Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
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| Site Area (Ha): | 8.94 |
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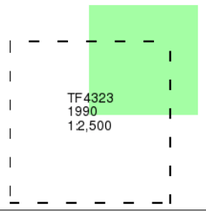
## Additional SIMs

## Published 1990

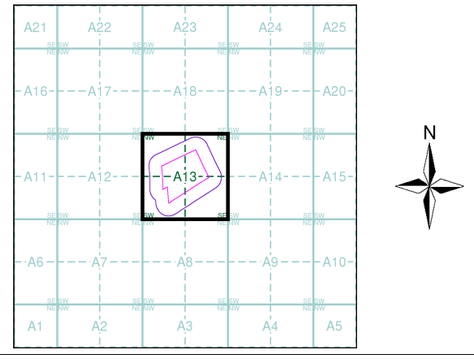
## Source map scale - 1:2,500

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
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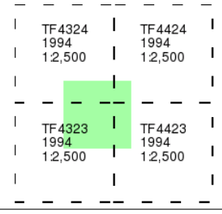
## Large-Scale National Grid Data

**Published 1994**

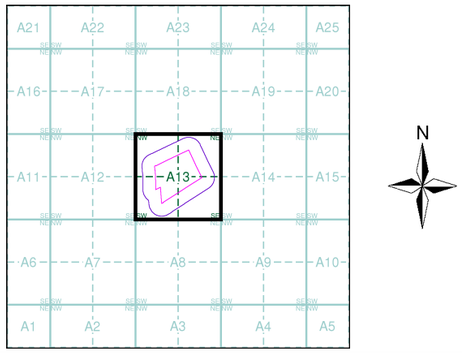
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)




## Historical Map - Segment A13



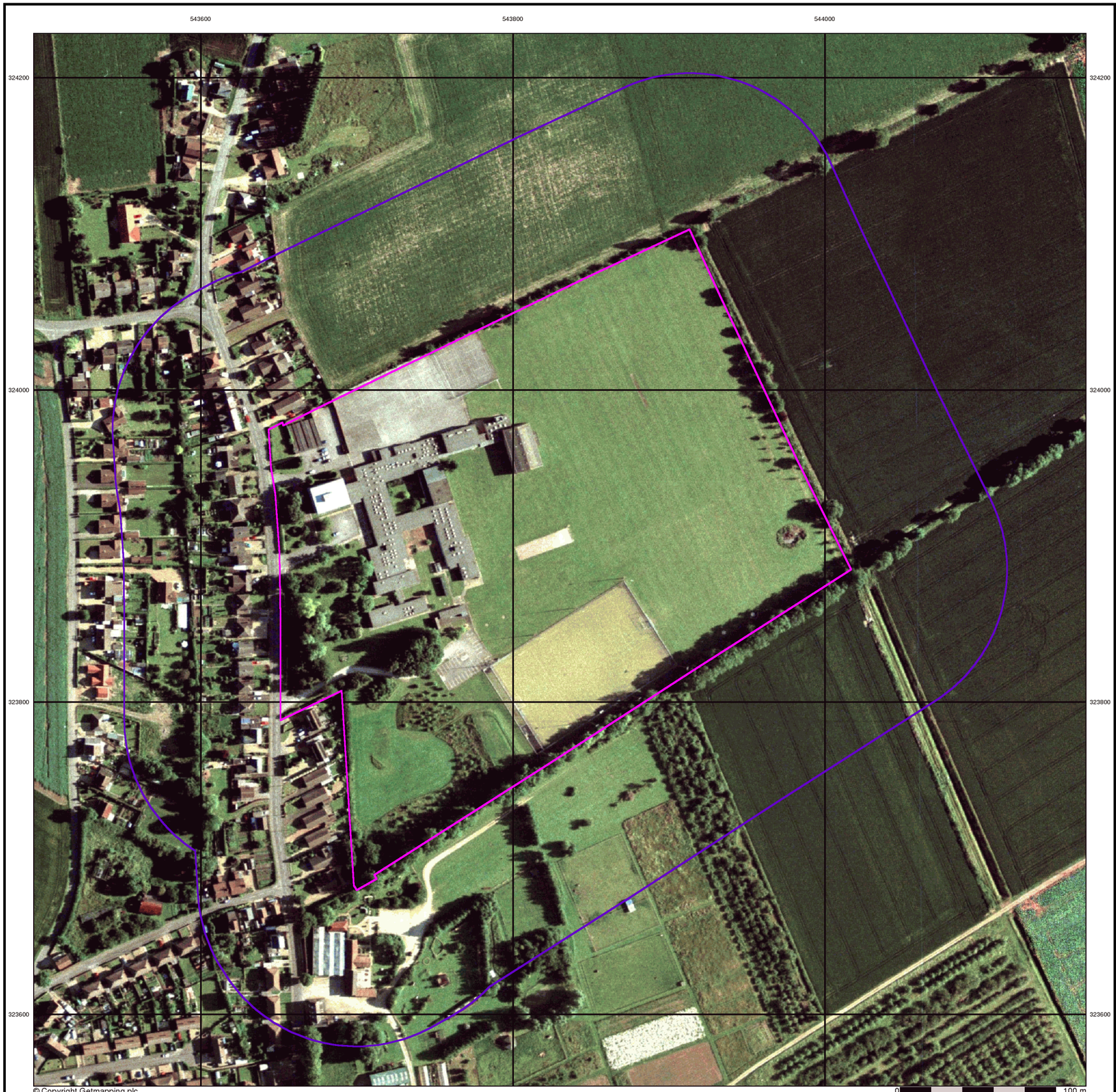

## Order Details

| | |
|---|---|
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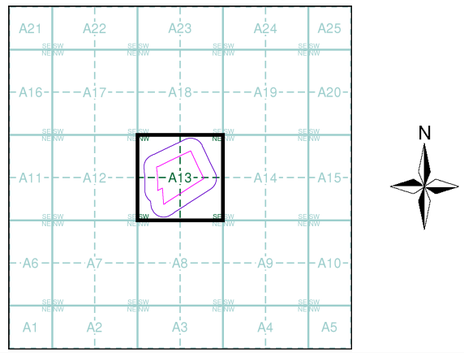

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# Historical Aerial Photography

## Published 1999

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

## Historical Aerial Photography - Segment A13




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
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## Site Details

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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

## Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

| | | | |
|---|---|---|---|
| BP, BS | Boundary Post or Stone | Pol Sta | Police Station |
| Ch | Church | PO | Post Office |
| CH | Club House | PC | Public Convenience |
| F E Sta | Fire Engine Station | PH | Public House |
| FB | Foot Bridge | SB | Signal Box |
| Fn | Fountain | Spr | Spring |
| GP | Guide Post | TCB | Telephone Call Box |
| MP | Mile Post | TCP | Telephone Call Post |
| MS | Mile Stone | W | Well |

## 1:10,000 Raster Mapping

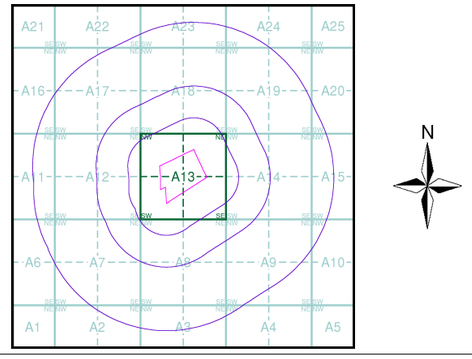
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

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## Historical Mapping & Photography included:

| Mapping Type | Scale | Date | Pg |
|---|---|---|---|
| Lincolnshire | 1:10,560 | 1887 | 2 |
| Norfolk | 1:10,560 | 1888 | 3 |
| Lincolnshire | 1:10,560 | 1905 - 1906 | 4 |
| Lincolnshire | 1:10,560 | 1931 | 5 |
| Lincolnshire | 1:10,560 | 1938 | 6 |
| Lincolnshire | 1:10,560 | 1952 - 1953 | 7 |
| Ordnance Survey Plan | 1:10,000 | 1956 - 1959 | 8 |
| Ordnance Survey Plan | 1:10,000 | 1973 - 1978 | 9 |
| Ordnance Survey Plan | 1:10,000 | 1991 | 10 |
| 10K Raster Mapping | 1:10,000 | 2000 | 11 |
| 10K Raster Mapping | 1:10,000 | 2006 | 12 |
| VectorMap Local | 1:10,000 | 2021 | 13 |

## Historical Map - Slice A



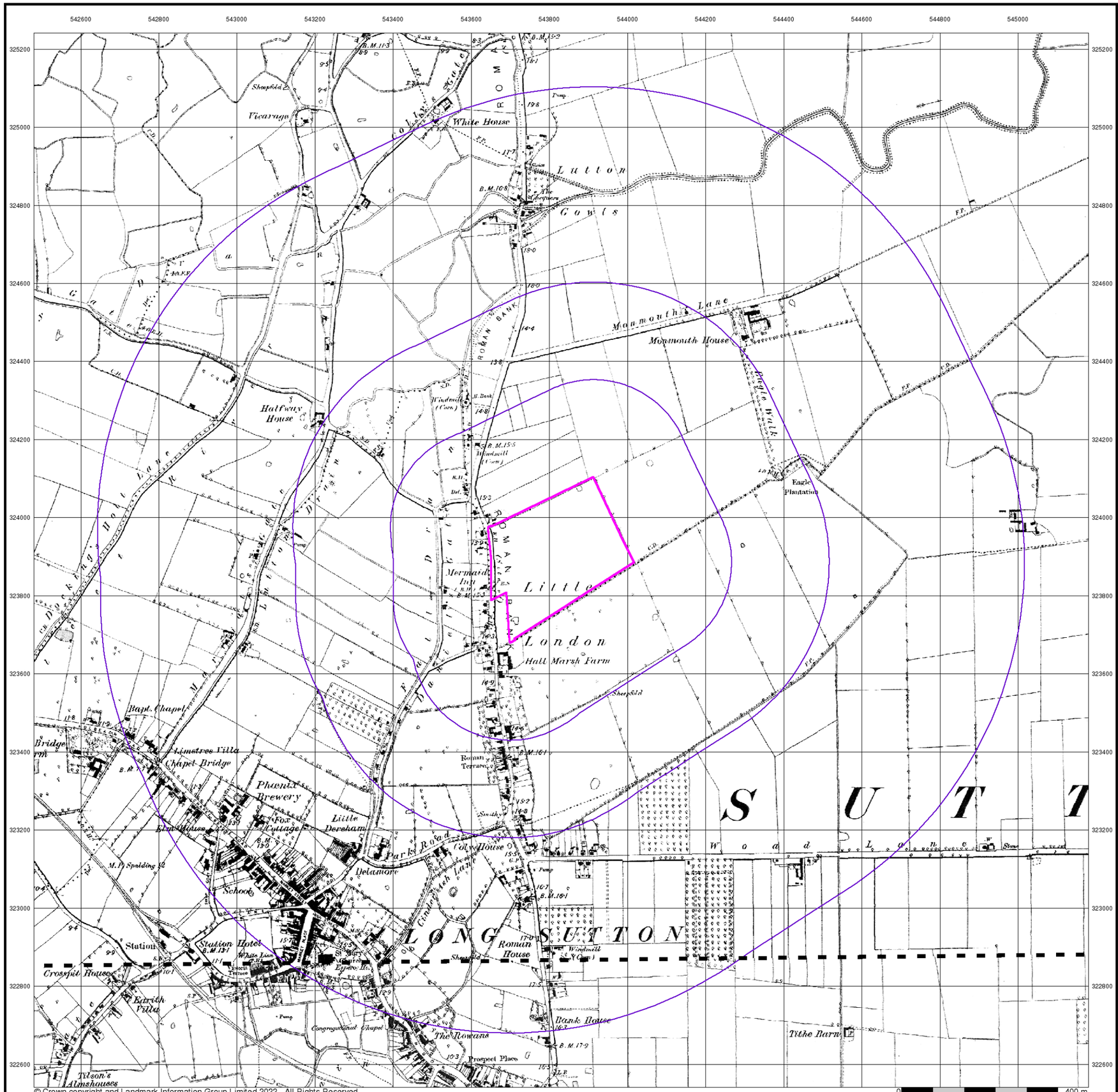

## Order Details

Order Number: 301186054_1_1
Customer Ref: 100110480
National Grid Reference: 543810, 323890
Slice: A
Site Area (Ha): 8.94
Search Buffer (m): 1000

## Site Details

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## Lincolnshire

## Published 1887

## Source map scale - 1:10,560

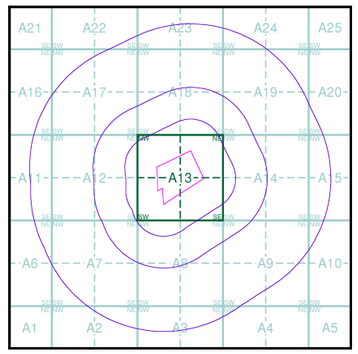
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

## Map Name(s) and Date(s)

136SW
1887
1:10,560

144NW
1887
1:10,560

## Historical Map - Slice A



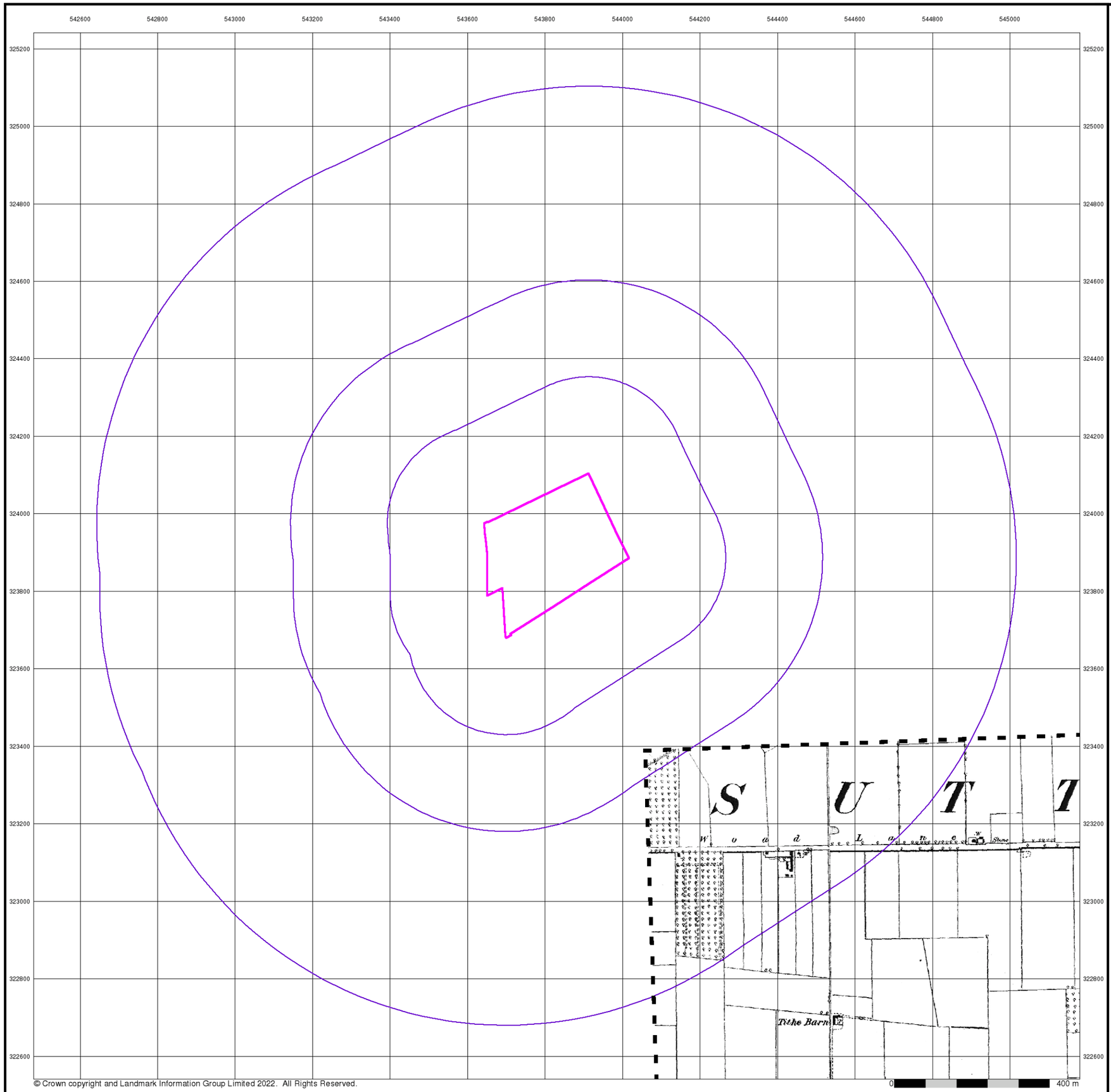

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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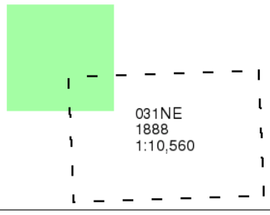
## Norfolk

## Published 1888

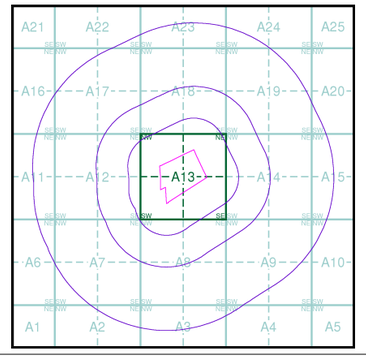
## Source map scale - 1:10,560

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

## Map Name(s) and Date(s)




## Historical Map - Slice A



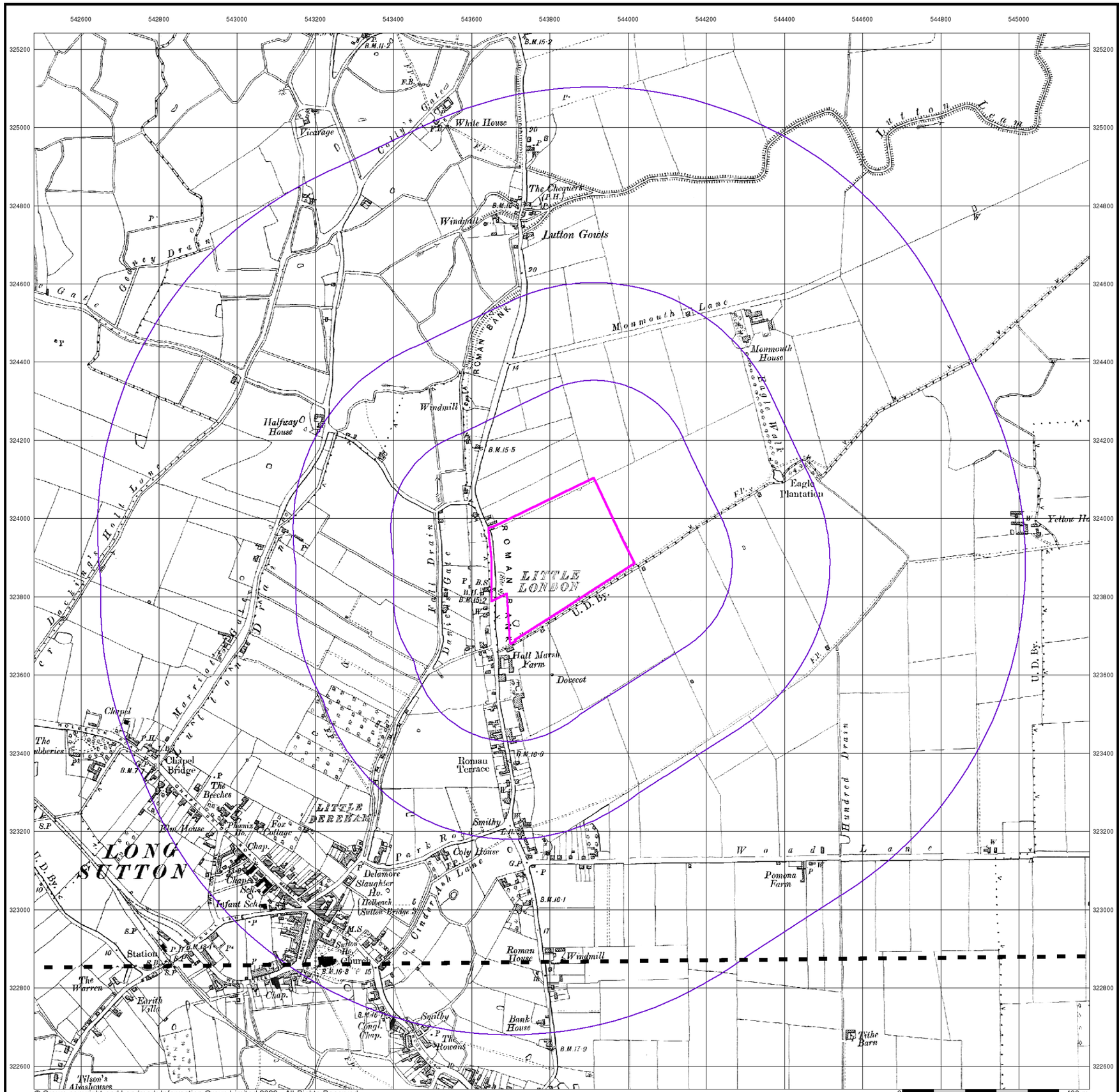

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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# M M

MOTT MACDONALD

## Lincolnshire

## Published 1905 - 1906

## Source map scale - 1:10,560

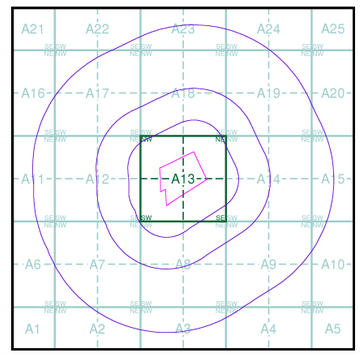
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

## Map Name(s) and Date(s)

136SW
1906
1:10,560

144NW
1905
1:10,560

## Historical Map - Slice A




## Order Details

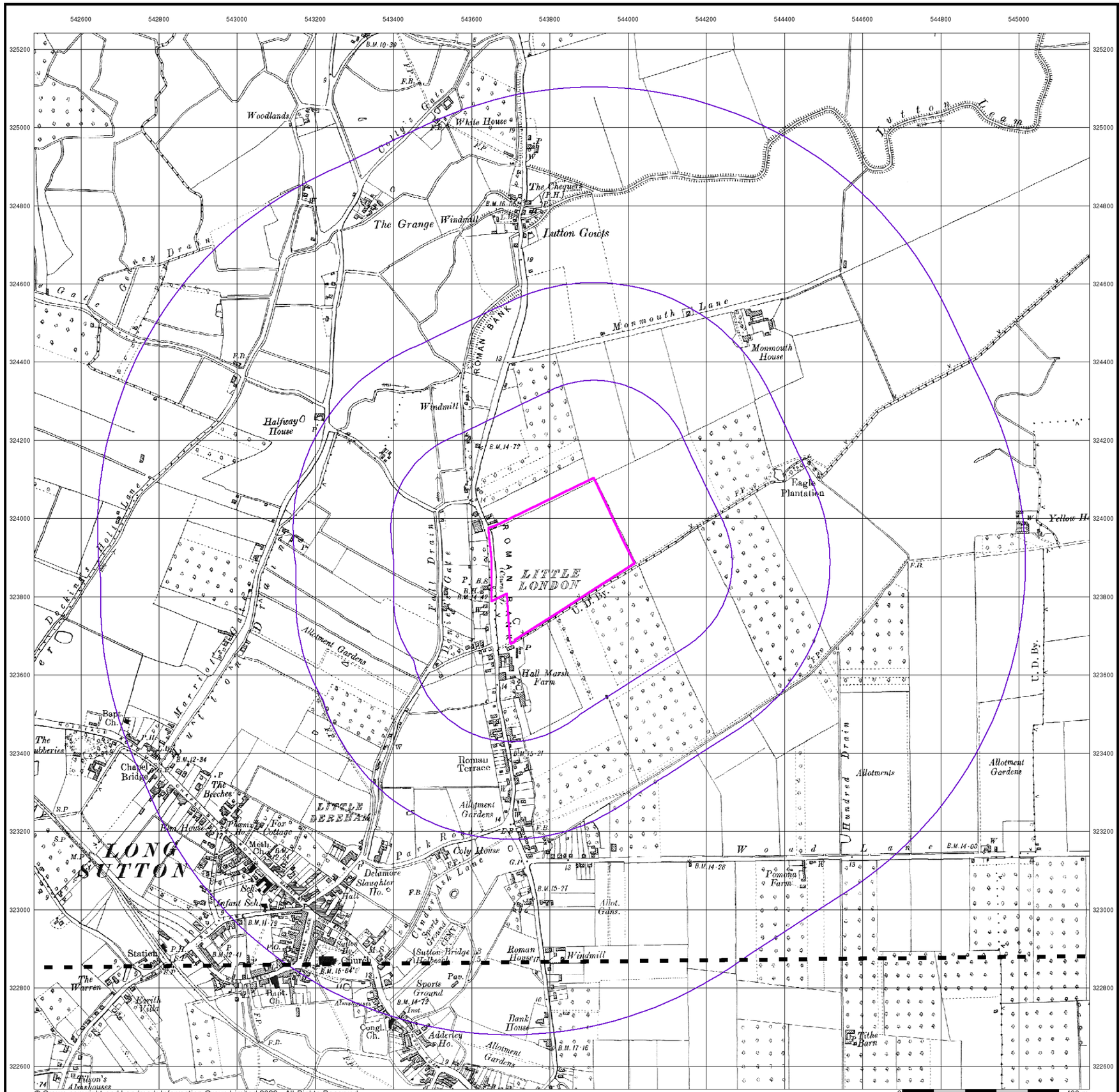
| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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MOTT MACDONALD

## Lincolnshire

## Published 1931

## Source map scale - 1:10,560

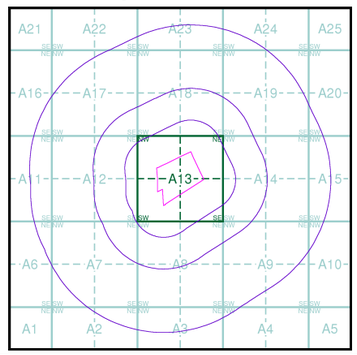
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

## Map Name(s) and Date(s)

136SW
1931
1:10,560

144NW
1931
1:10,560

## Historical Map - Slice A




## Order Details

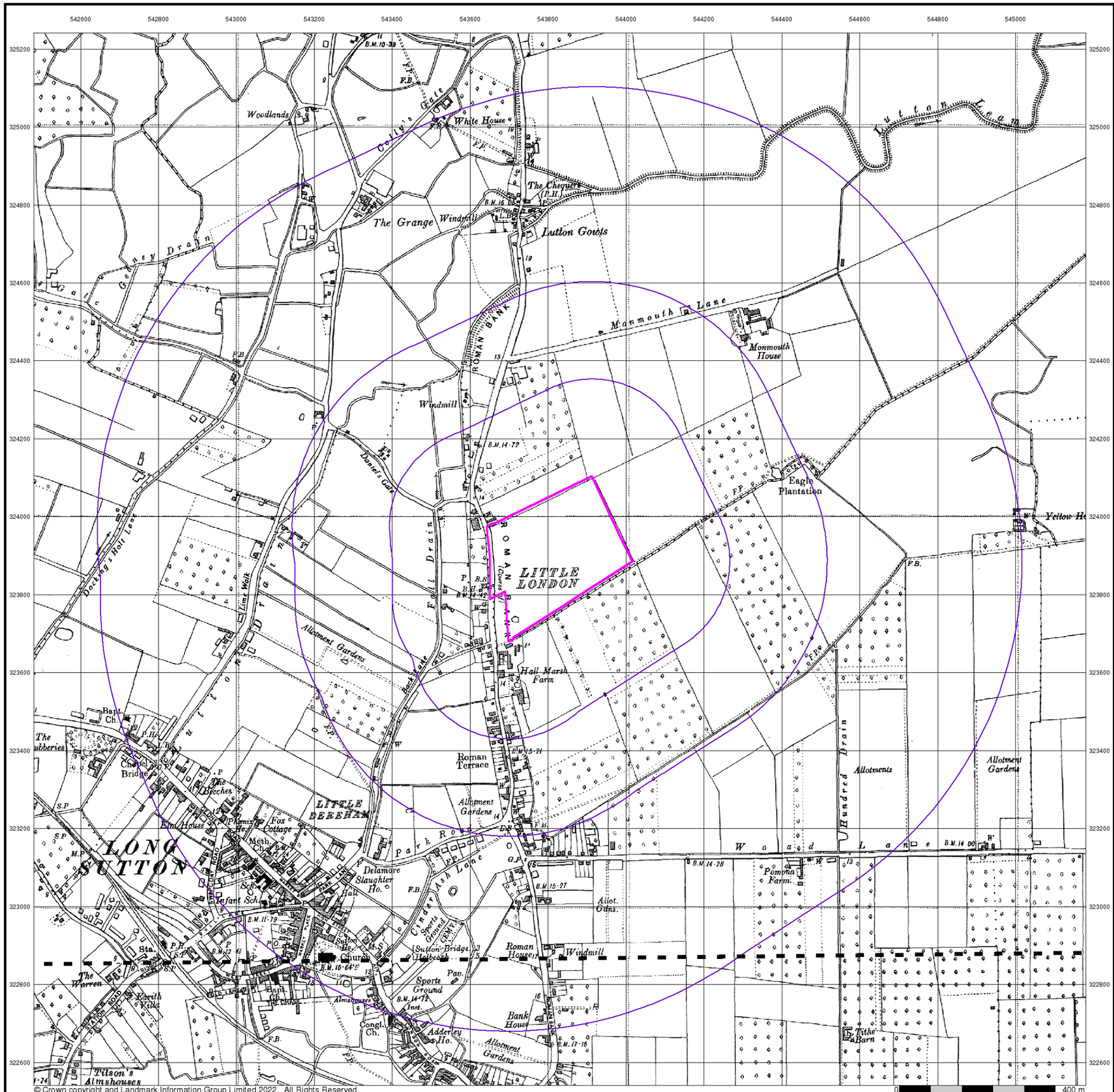
| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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## Lincolnshire

## Published 1938

## Source map scale - 1:10,560

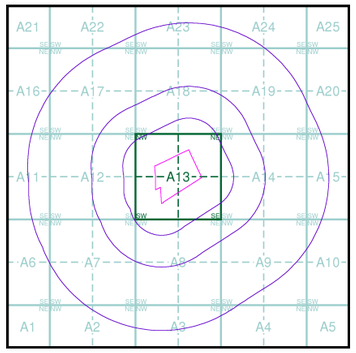
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

## Map Name(s) and Date(s)

136SW
1938
1:10,560

144NW
1938
1:10,560

## Historical Map - Slice A



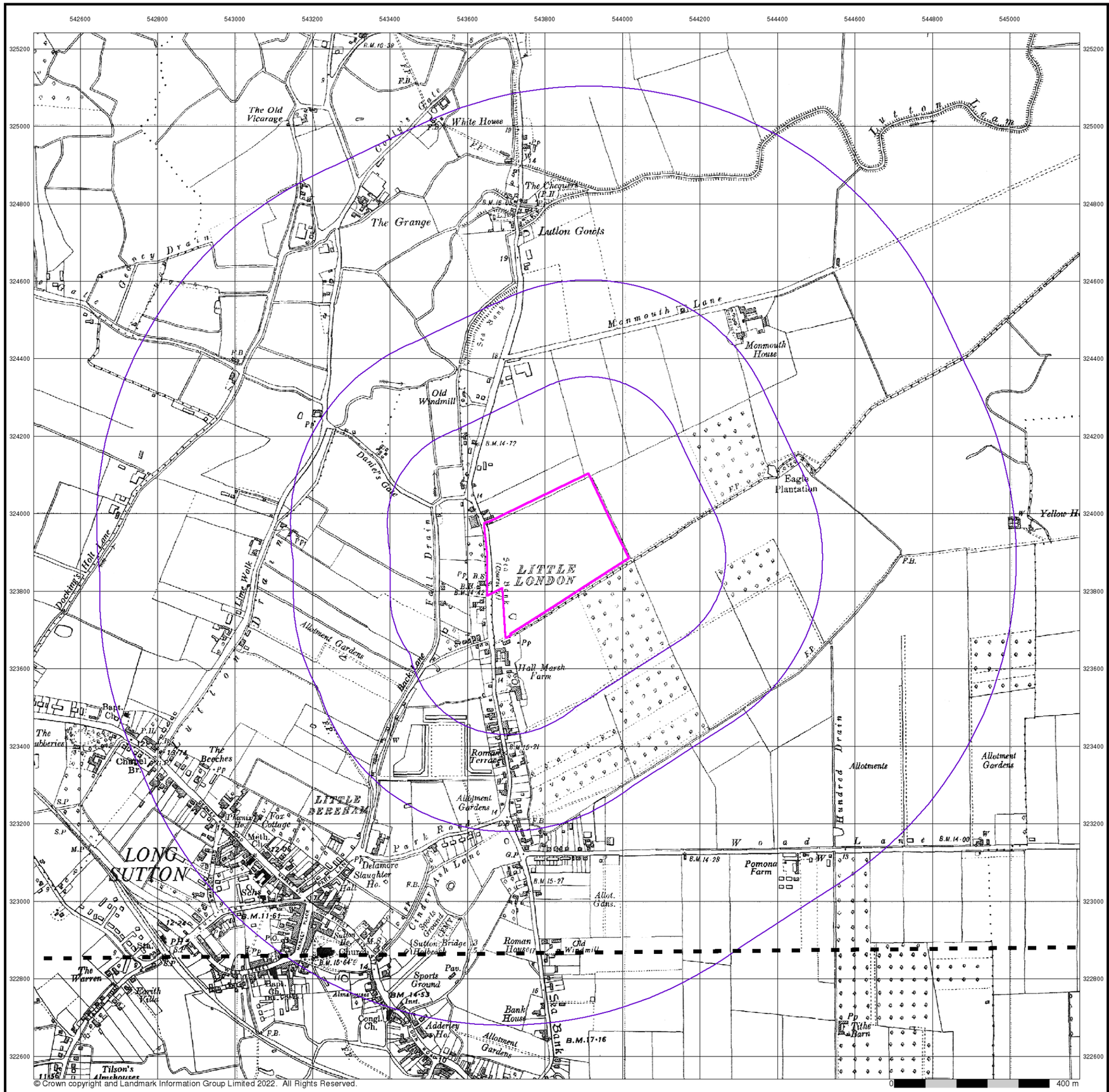

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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# M M

MOTT MACDONALD

## Lincolnshire

## Published 1952 - 1953

## Source map scale - 1:10,560

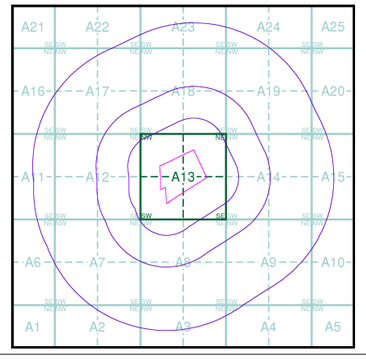
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

## Map Name(s) and Date(s)

136SW
1952
1:10,560

144NW
1953
1:10,560

## Historical Map - Slice A



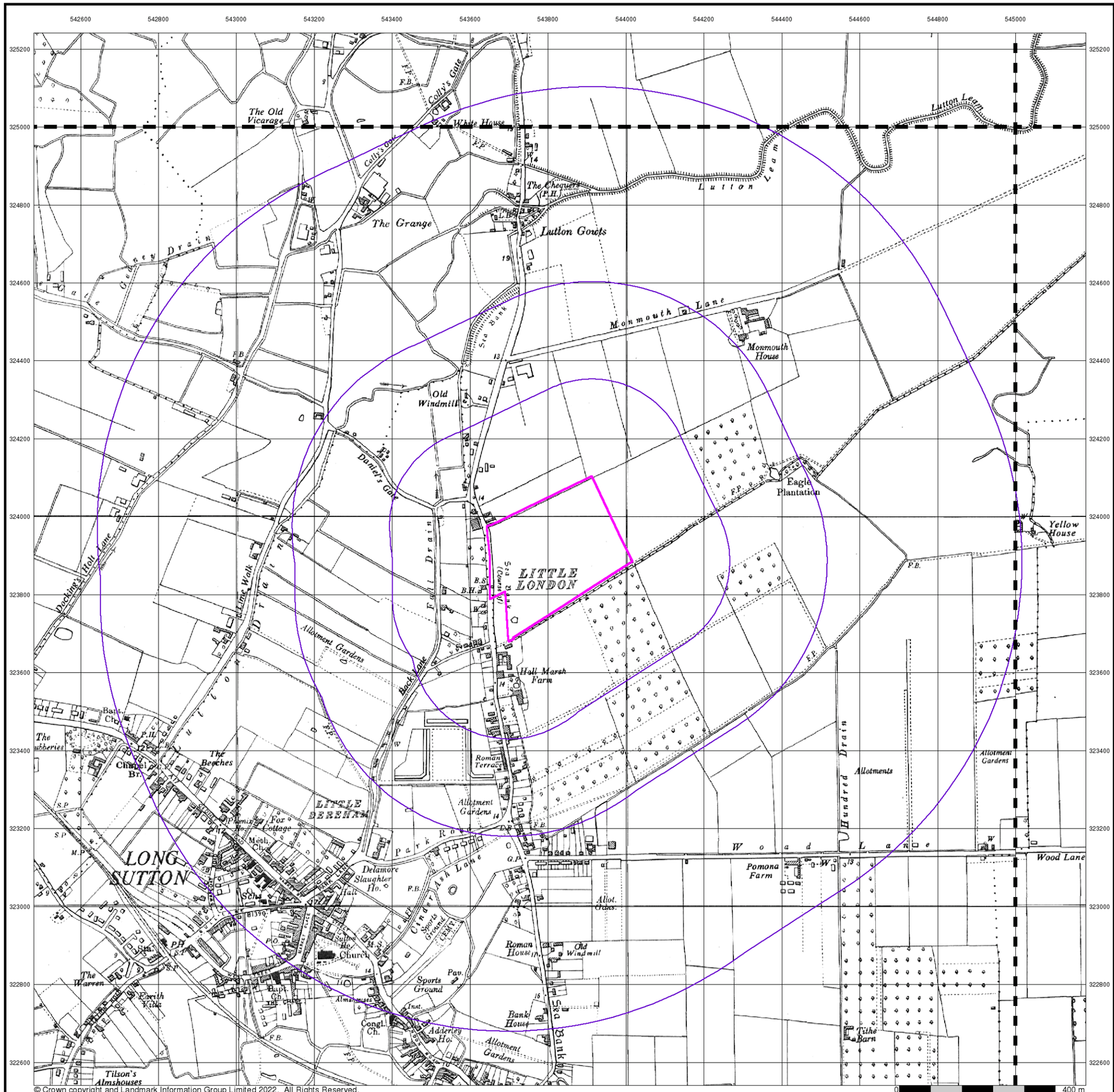

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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MOTT MACDONALD

## Ordnance Survey Plan

### Published 1956 - 1959

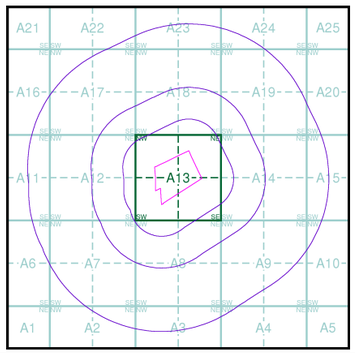
### Source map scale - 1:10,000

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

## Map Name(s) and Date(s)

| | |
|---|---|
| TF42NW 1956 1:10,560 | TF42NE 1956 1:10,560 |
| TF42SW 1959 1:10,560 | TF42SE 1959 1:10,560 |

## Historical Map - Slice A



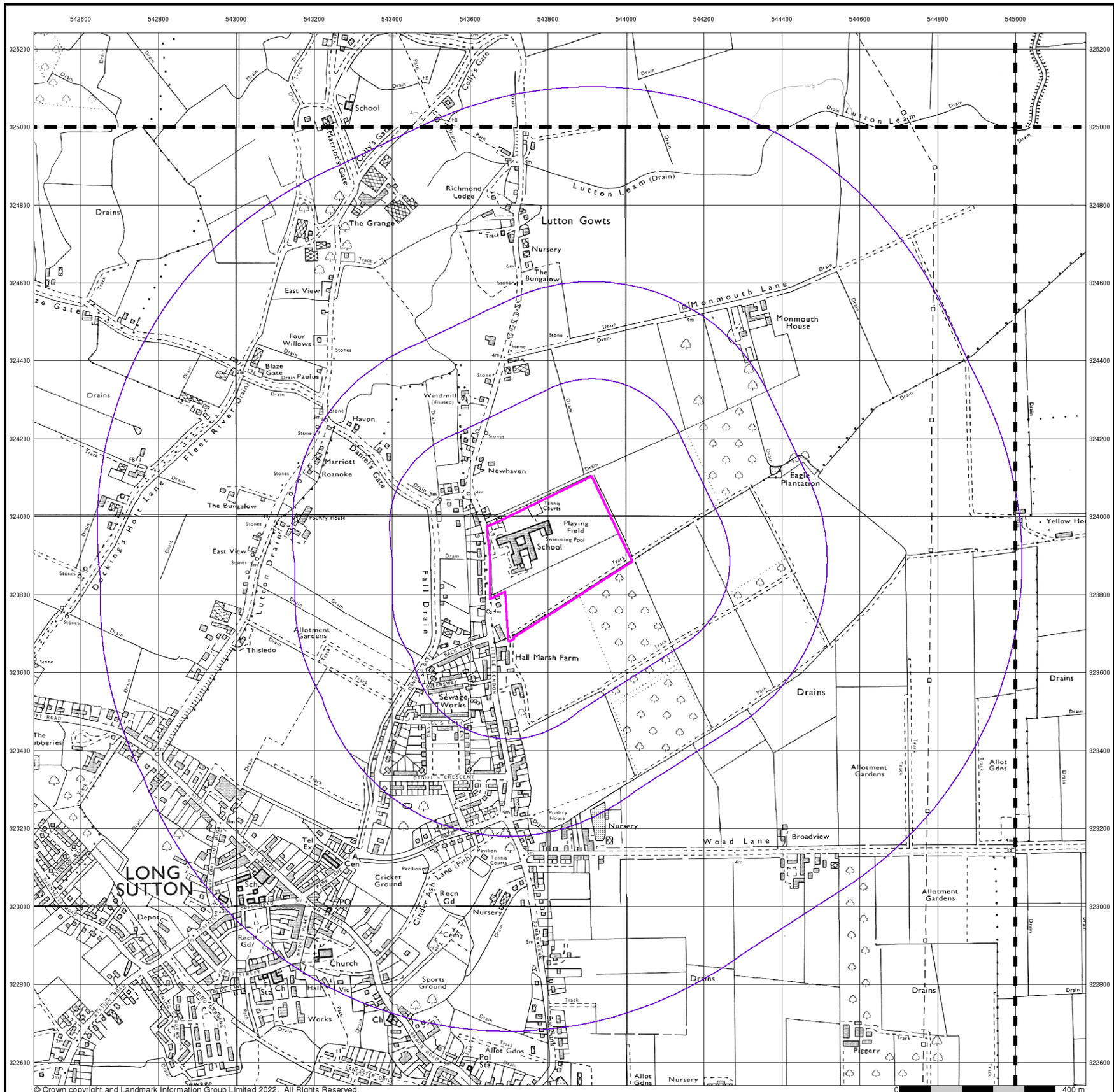

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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MOTT MACDONALD

## Ordnance Survey Plan

### Published 1973 - 1978

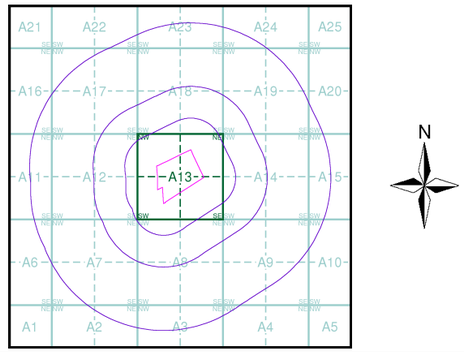
### Source map scale - 1:10,000

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

## Map Name(s) and Date(s)

| | |
|---|---|
| TF42NW 1978 1:10,000 | TF42NE 1973 1:10,000 |
| TF42SW 1975 1:10,000 | TF42SE 1974 1:10,000 |

## Historical Map - Slice A



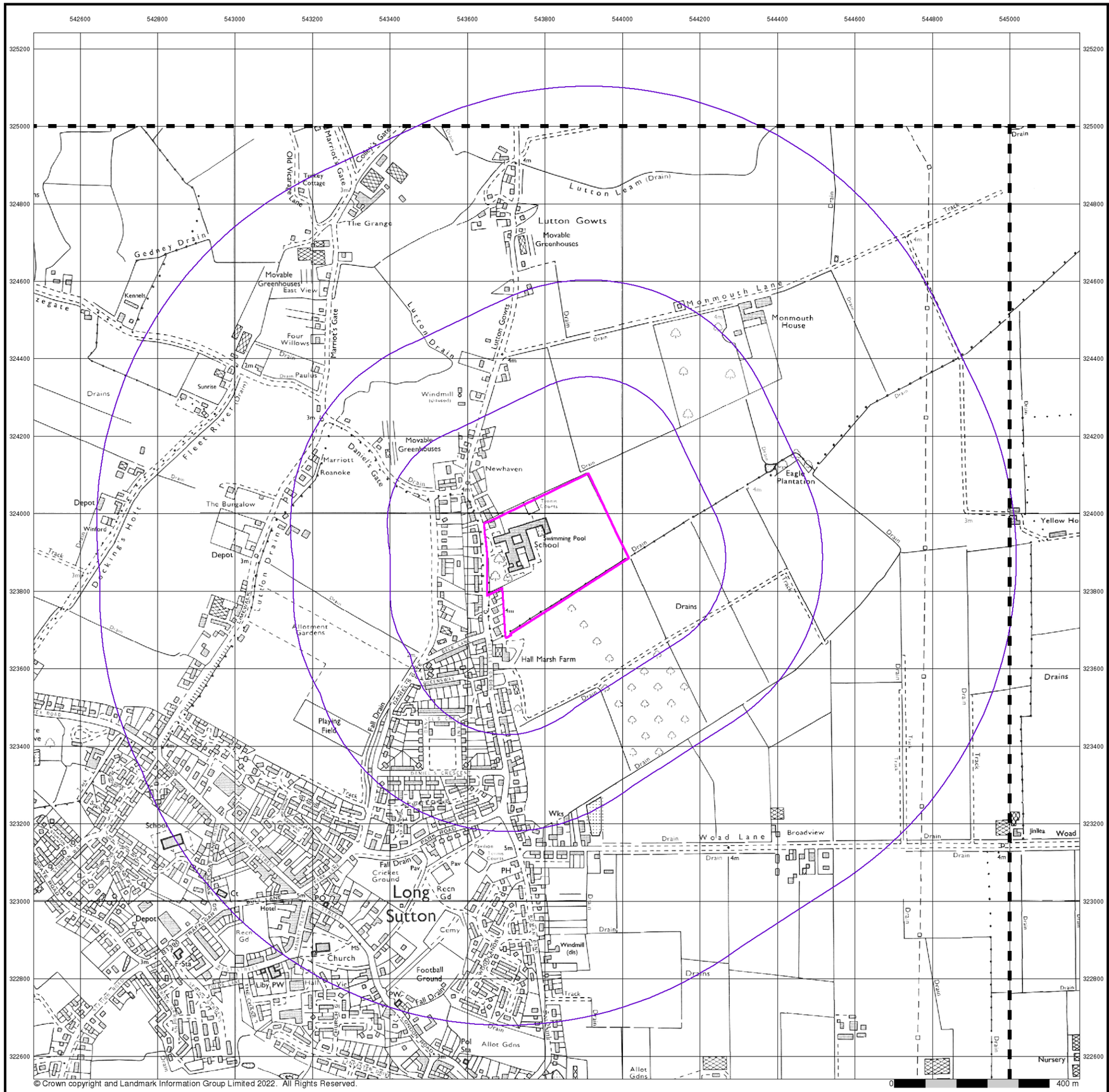

## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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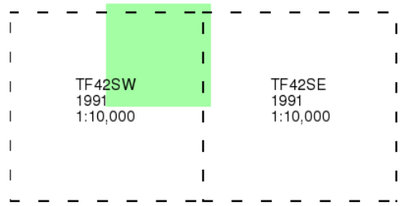
## Ordnance Survey Plan

### Published 1991

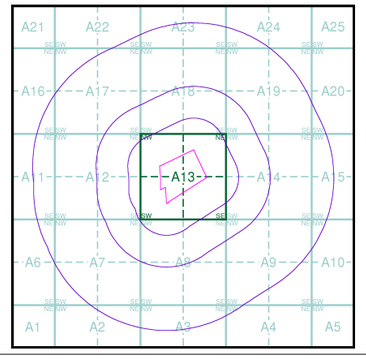
### Source map scale - 1:10,000

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

## Map Name(s) and Date(s)




## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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# M M

MOTT MACDONALD

## 10k Raster Mapping

## Published 2000

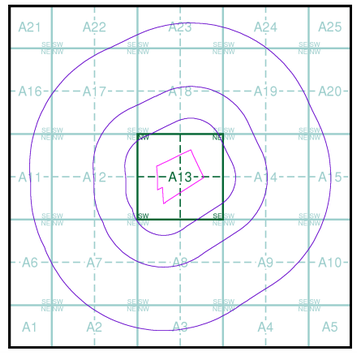
## Source map scale - 1:10,000

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

## Map Name(s) and Date(s)

| | |
|---|---|
| TF42NW 2000 1:10,000 | TF42NE 2000 1:10,000 |
| TF42SW 2000 1:10,000 | TF42SE 2000 1:10,000 |

## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

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# M M

MOTT MACDONALD

## 10k Raster Mapping

## Published 2006

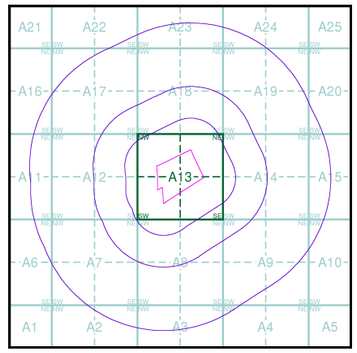
## Source map scale - 1:10,000

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

## Map Name(s) and Date(s)

| | |
|---|---|
| TF42NW 2006 1:10,000 | TF42NE 2006 1:10,000 |
| TF42SW 2006 1:10,000 | TF42SE 2006 1:10,000 |

## Historical Map - Slice A




## Order Details

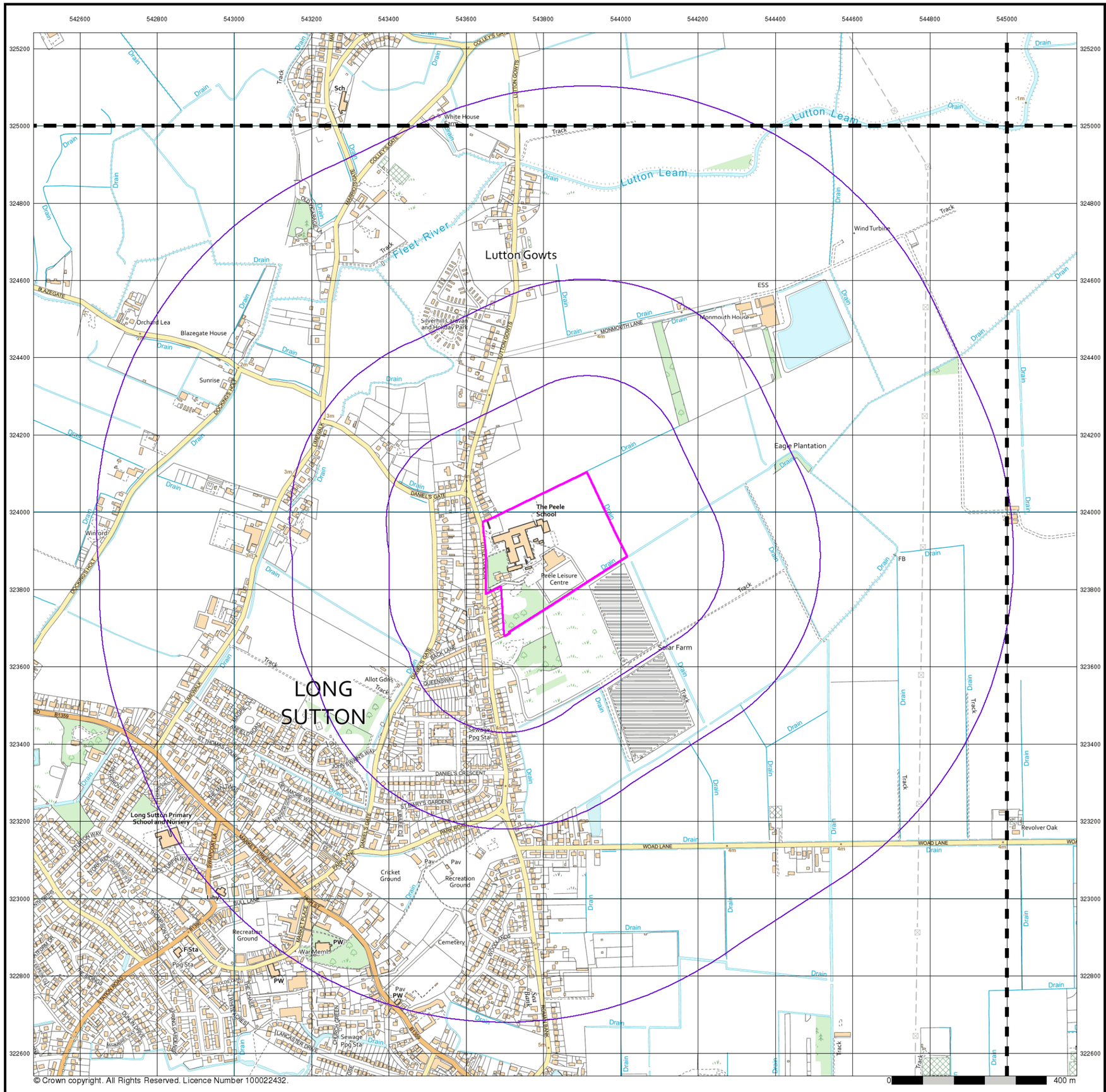
| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

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MOTT MACDONALD

# VectorMap Local

## Published 2021

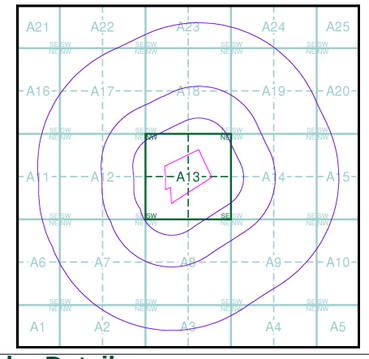
## Source map scale - 1:10,000

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

## Map Name(s) and Date(s)

| | |
|---|---|
| TF42NW 2021 Variable | TF42NE 2021 Variable |
| TF42SW 2021 Variable | TF42SE 2021 Variable |

## Historical Map - Slice A




## Order Details

| | |
|---|---|
| Order Number: | 301186054_1_1 |
| Customer Ref: | 100110480 |
| National Grid Reference: | 543810, 323890 |
| Slice: | A |
| Site Area (Ha): | 8.94 |
| Search Buffer (m): | 1000 |

## Site Details

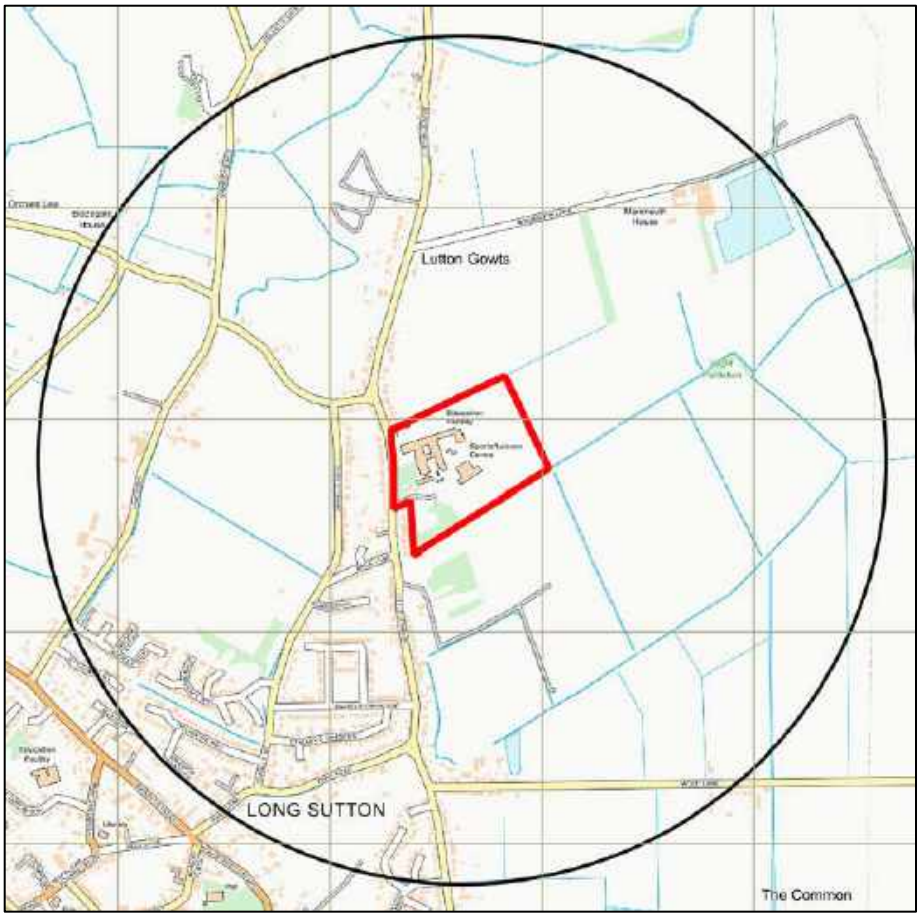
83, Little London, Long Sutton, SPALDING, PE12 9LF

Landmark INFORMATION GROUP

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

# PRELIMINARY UNEXPLODED ORDNANCE (UXO) THREAT ASSESSMENT

Meeting the requirements of *CIRIA* C681 'Unexploded Ordnance (UXO) – A guide for the Construction Industry' Risk Management Framework




| | | | |
|---|---|---|---|
| **PROJECT NUMBER** | 8888_23 | **ORIGINATOR** | S. Klatzow |
| **PROJECT** | University Academy | **REVIEWED BY** | L. Hayes |
| **CLIENT** | Mott MacDonald | **RELEASED BY** | L. Hayes |
| **VERSION** | 1.0 | **DATE** | 15th September 2022 |
| **RECOMMENDATION** | No Further Action is required to address the UXO risk at this Study Site | | |

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T: +44 (0)2033 713 900 | W: www.6alpha.com

# UNEXPLODED ORDNANCE THREAT ASSESSMENT

## STUDY SITE

The Study Site is described as "University Academy Long Sutton, 84 Little London, Long Sutton, Spalding, Lincolnshire, PE12 9LF", and it is centred on National Grid Reference 543812, 323904.

## THREAT POTENTIAL AND RECOMMENDATIONS

The potential for a UXO hazard to occur, and more specifically, the potential for unexploded WWI and WWII ordnance to exist at this site is assessed as being UNLIKELY (*Figure 2*).

In accordance with *CIRIA* C681 Chapter 5 on managing UXO risks, *6 Alpha* concludes that **NO FURTHER ACTION** is required to address the UXO risk at this Study Site. Should you have any queries, please contact *6 Alpha*.

## REPORT SUMMARY

During WWII, the Study Site was situated within *East Elloe Rural District*, which recorded less than one High Explosive (HE) bomb strike per 100 hectares; a "very low" level of bombing.

*Luftwaffe* aerial reconnaissance photography associated with the Study Site did not identify any primary bombing targets on-site, nor within 1,000m of its boundary.

Neither *Air Raid Precaution* (ARP) records nor official mapping were available. Nonetheless, further research of historical records and an analysis of post-war mapping did not identify any evidence of bombing within 1,000m of the Study Site.

As there was no bombing or bomb damage recorded in the Study Site's vicinity during WWII, there is no evidence to suggest that further investigation into UXO is warranted.

## USING THIS REPORT

This Preliminary Assessment is designed to inform environmental and construction professionals of the potential threat of military related explosives and/or ordnance on, or in, the vicinity of the Study Site.

This assessment is designed to be employed as a site-screening tool to meet with the requirement of Phase One of the *CIRIA UXO Risk Management Framework*; there are two broad prospective outcomes; either the threat level requires a detailed threat & risk assessment; or no further action is required. In the former instance we can provide a report within 10 working days (or more quickly upon application).

Two figures accompany the report, the *Second World War* (WWII) High Explosive (HE) Bomb Density and the final Probability of UXO Encounter. The purpose of this approach is to demonstrate that whilst bomb density statistics give an indication for WWII bombing, they should not be relied upon exclusively to generate a holistic assessment.

For further information, please contact *6 Alpha*:

Website: http://www.6alpha.com

Telephone: +44 (0)2033 713 900

Email: enquiry@6alpha.com

## DATA FINDINGS

| Threat Source (within 1,000m) | | Detail | |
|---|---|---|---|
| | | Identified | Comments |
|  | Military Facilities/Activity | ✗ | None recorded within 1,000m. |
|  | Ordnance Manufacture/Storage | ✗ | None recorded within 1,000m. |
|  | WWII Decoy Bombing Sites | ✗ | None recorded within 1,000m. |
|  | WWII Defensive Features | ✗ | None recorded within 1,000m. |
|  | WWII *Luftwaffe* Designated Bombing Targets | ✗ | *Luftwaffe* aerial photography did not identify any primary bombing targets within 1,000m. |
|  | WWII Bomb Strikes (Study Site Boundary) | ✗ | ARP records were not available. |
|  | WWII Bomb Strikes (Wider Area) | ✗ | ARP records were not available. |
|  | WWII Bomb Damage | ✗ | Official bomb damage mapping was not available. |
|  | Abandoned Bomb Register | ✗ | The official abandoned bomb list did not identify abandoned bombs within 1,000m of the Study Site. |
|  | Potential Threat Sources | ✗ | Further research has not uncovered any potential UXO threat sources associated with the Study Site. |
|  | WWII Bombing Density Per 100 Hectares | ✓ | The Study Site was located within *East Elloe Rural District*, which recorded less than one HE bomb strike per 100 hectares. |

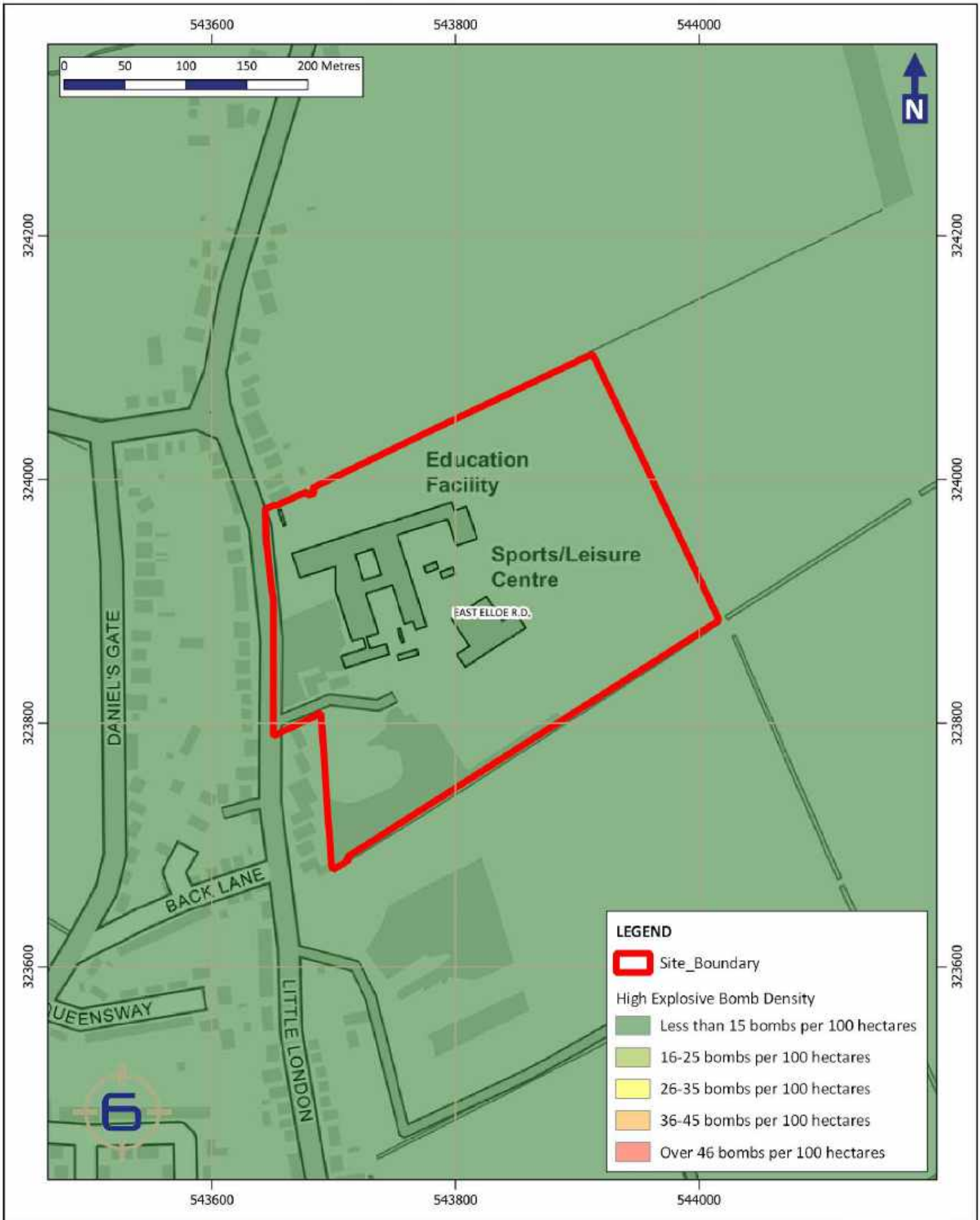
## IMPORTANT NOTES

1. The term 'Preliminary UXO Threat Assessment' has been used to describe this report, to fall in line with the *CIRIA* C681 guidelines. Whilst the term 'Risk' can be justifiably used at this stage, the reader should note that the 'Consequence' function of 'Risk' is not considered. Should it be required, this would be addressed in the 'Detailed UXO Threat & Risk Assessment' (Stages 2 and 3).
2. This report is accurate and up to date at the time of writing.
3. The assessment levels have been generated from historical data and third-party sources. Where possible *6 Alpha* have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third party data sets (e.g. *National Archives* or library sources).
4. *6 Alpha* have exercised all reasonable care, skill and due diligence in producing this service.
5. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities, which may not have released privately recorded information concerning UXO/explosive threats into the public domain. It is therefore possible that some of the aforementioned sites may not be included within the database.

# University Academy Long Sutton, 84 Little London, Long Sutton, Spalding, Lincolnshire PE12 9LF

## WWII High Explosive Bomb Density

British National Grid




| PROJECT NO. | FIGURE | DRAWN | CHECKED | DATE |
|---|---|---|---|---|
| 8888_23 | 1 | LH | LG | 13/09/2022 |

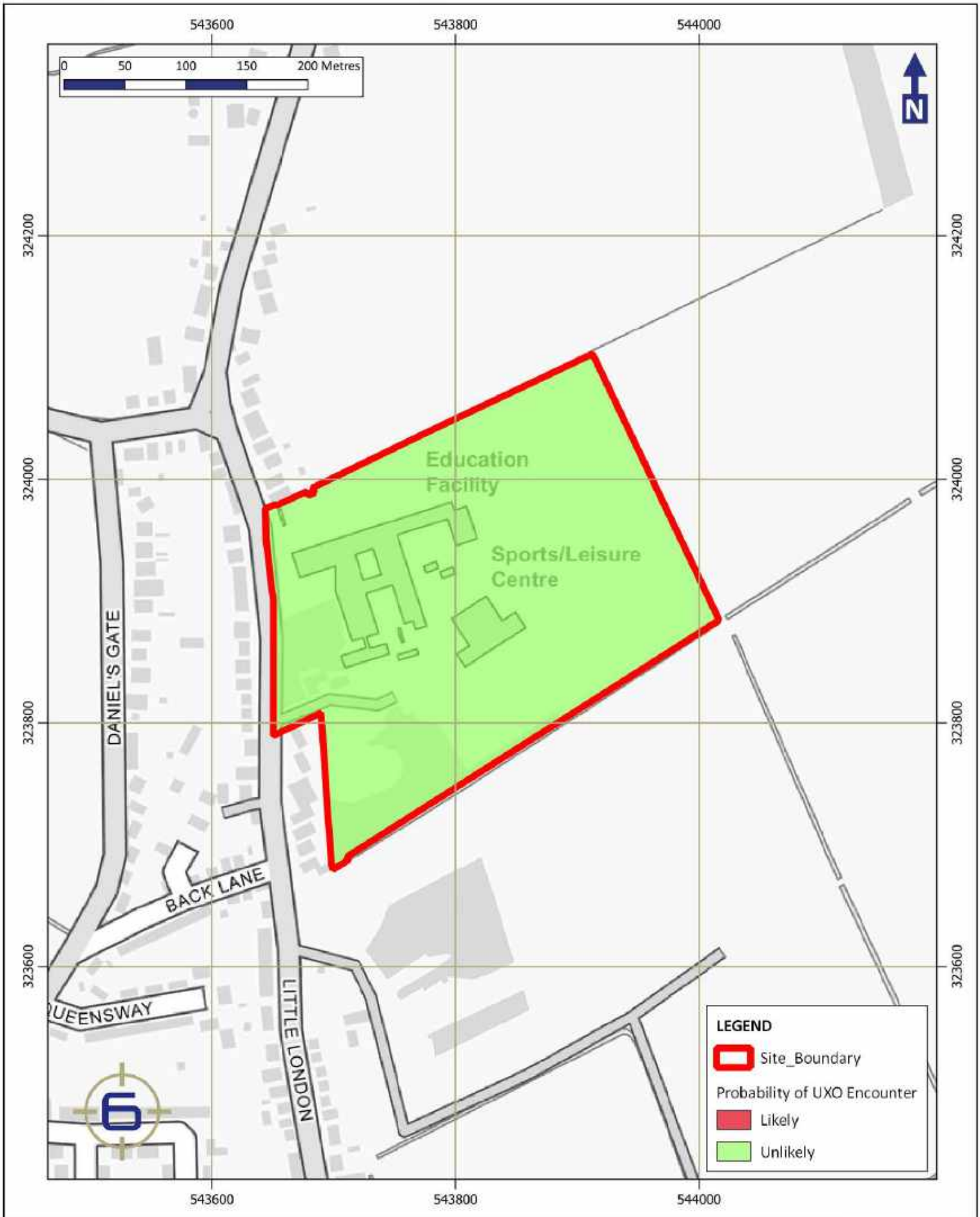
Contains Ordnance Survey data © Crown copyright and database right 2017

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# University Academy Long Sutton, 84 Little London, Long Sutton, Spalding, Lincolnshire PE12 9LF

## Probability of UXO Encounter

British National Grid




| PROJECT NO. | FIGURE | DRAWN | CHECKED | DATE | | | |
|---|---|---|---|---|---|---|---|
| 8888_23 | 2 | LH | LG | 13/09/2022 | Contains Ordnance Survey data © Crown copyright and database right 2017 | Produced by and Copyright to 6 Alpha Associates Ltd. Users noting any errors please notify 6 Alpha. | alpha ASSOCIATES |

# APPENDIX 4

## Contaminated Land Risk Assessment

# CONTAMINATED LAND RISK ASSESSMENT METHODOLOGY

## Legislation Overview

This report includes potential contaminant linkage and environmental risk assessment in line with the risk-based methods referred to in relevant UK legislation and guidance. Government environmental policy is based upon a "suitable for use approach," which is relevant to both the current use of land and also to any proposed future use. The contaminated land regime is the statutory regime for remediation of contaminated land that causes an unacceptable level of risk and is set out in Part 2A of the Environmental Protection Act 1990 ("EPA 1990"). The main objective of introducing the Part 2A regime is to provide an improved system for the identification and remediation of land where contamination is causing unacceptable risks to human health or the wider environment given the current use and circumstances of the land. Part IIA provides a statutory definition of contaminated land under Section 78A(2) as:

> *"any land which appears to the Local Authority in whose area it is situated to be in such a condition, by reason of substances in, on, or under the land, that:*
>
> *(a) Significant harm is being caused or there is a significant possibility of such harm being caused;*
>
> *or*
>
> *(b) Pollution of controlled waters is being, or is likely to be, caused."*

In order to assist in establishing if there is a "*significant possibility of significant harm*" there must be a "*contaminant linkage"* for potential harm to exist. That means there must be a source(s) of contamination, sensitive receptors present and a connection or pathway between the two. This combination of source-pathway-receptor is termed a "contaminant linkage or SPR linkage." Part 2A of The Environmental Protection Act 1990 is supported by a substantial quantity of guidance and other Regulations. Key implementing legislation of the Part 2A regime includes the Contaminated Land (England) Regulations 2006 (SI 2006/1380) as amended by the overarching legislation for the contaminated land regime, which implements the provisions of Part IIA of the Environmental Protection Act 1990 (as inserted by section 57 of the Environment Act 1995), came into force on 14th July 2000 together with recent amended regulations: Contaminated Land (England) (Amendment) Regulations 2012 (SI 2012/263). Revised Contaminated Land Statutory Guidance was published by DEFRA in April 2012. Part 2A defines the duties of Local Authorities in dealing with it. Part 2A places contaminated land responsibility as a part of planning and redevelopment process rather than Local Authority direct action except in situations of very high pollution risk.

In the planning process guidance is provided by National Planning Policy Framework (NPPF) of February 2019 which requires that a site which has been developed shall not be capable of being determined "contaminated land" under Part 2A. In practice, Planning Authorities require sites being developed to have a lower level of risk post development, which is known as 'land affected by contamination'. This is to ensure that there is a suitable zone of safety below the level for Part 2A determination and prevent recently developed sites becoming reclassified as contaminated land if there are future legislative or technical changes (e.g. a substance is subsequently found to be more toxic than previously assessed this increases its hazard).

The criteria for assessing concentrations of contaminants and hence determining whether a site represents a hazard are based on a range of techniques, models and guidance. Within this context it is relevant to note that Government objectives are:

(a) to identify and remove unacceptable risks to human health and the environment;
(b) to seek to bring damaged land back into beneficial use;
(c) to seek to ensure that the cost burdens faced by individuals, companies and society as a whole are proportionate, manageable and economically sustainable.

These three objectives underlie the "suitable for use" approach to risk management and remediation of contaminated land. The "suitable for use" approach focuses on the risks caused by land contamination. The approach recognises that the risks presented by any given level of contamination will vary greatly according to the use of the land and a wide range of other factors, such as the underlying geology of the site. Risks therefore should be assessed on a site-by-site basis.

The "suitable for use" approach then consists of three elements:

(a) *ensuring that land is suitable for its current use* - in other words, identifying any land where contamination is causing unacceptable risks to human health and the environment, assessed on the basis of the current use and circumstances of the land, and returning such land to a condition where such risks no longer arise ("remediating" the land); the contaminated land regime provides the regulatory mechanisms to achieve this;
(b) *ensuring that land is made suitable for any new use, as planning permission is given for that new use* - in other words, assessing the potential risks from contamination, on the basis of the proposed future use and circumstances,

before official permission is given for the development and, where necessary to avoid unacceptable risks to human health and the environment, remediating the land before the new use commences; this is the role of the town and country planning and building control regimes; and

(c) *limiting requirements for remediation to the work necessary to prevent unacceptable risks to human health or the environment in relation to the current use or future use of the land for which planning permission is being sought* - in other words, recognising that the risks from contaminated land can be satisfactory assessed only in the context of specific uses of the land (whether current or proposed), and that any attempt to guess what might be needed at some time in the future for other uses is likely to result either in premature work (thereby running the risk of distorting social, economic and environmental priorities) or in unnecessary work (thereby wasting resources).

The mere presence of contaminants does not therefore necessarily warrant action, and consideration must be given to the scale of risk involved for the use that the site has, and will have in the future.

## Overall Methodology

The work presented in this report has been carried out in general accordance with recognised best practice as detailed in guidance documents such as in the on-line Environment Agency Land Contamination Risk Management (LCRM), and BS10175:2011+A2 2017. Important aspects of the risk assessment process are transparency and justification. The particular rationale behind the risk assessments presented is given in this appendix.

The first stage of a two-staged investigation and assessment of a site is the Preliminary Investigation (BS 10175:2011), often referred to as the Phase 1 Study, comprising desk study and walk-over survey, which culminates in the Preliminary Risk Assessment and development of the Preliminary Conceptual Site Model (CSM). A CSM is developed which identifies potential geotechnical and geo-environmental hazards and the qualitative degree of risk associated with them. From the geo-environmental perspective, the Hazard Identification process uses professional judgement to evaluate all the hazards in terms of potential contaminant linkages (of contaminant source-pathway-receptor). Potential contaminant linkages are potentially unacceptable risks in terms of the current contaminated land regime legal framework and require either remediation or further assessment. These are normally addressed via intrusive ground investigation and generic risk assessment.

The second stage is the Ground Investigation, Generic Risk Assessment and Geotechnical Interpretation. This represents the further assessment mentioned above. The scope of the Ground Investigation is based on the findings of the Preliminary Risk Assessment and is designed to reduce uncertainty in the geotechnical and geoenvironmental hazard identification. The Ground Investigation comprises fieldwork, laboratory testing and usually also on-site monitoring. The Ground Investigation may include the Exploratory, Main and Supplementary Investigations described in BS 10175:2011+A2 2017. The results of the Ground Investigation reduces uncertainty in the geotechnical and geoenvironmental risks. Depending on the findings more detailed investigations or assessments may be required.

## Preliminary Risk Assessment

Current practice recommends that the determination of potential liabilities that could arise from land contamination be carried out using the process of risk assessment, whereby "risk" is defined as:

*"(a) The probability, or frequency, or occurrence of a defined hazard; and*

*(b) The magnitude (including the seriousness) of the consequences."*

The UK's approach to the assessment of environmental risk is set out in the Environment Agency's "Land Contamination Risk Assessment". This established an iterative, systematic staged process which comprises:

(a) Hazard identification;
(b) Hazard assessment;
(c) Risk estimation; and
(d) Risk evaluation

At each stage during the development process, the above steps are repeated as more detailed information becomes available for the site.

For an environmental risk to be present, all three of the following elements must be present:

- Source/Contaminant: hazardous substance that has the potential to cause adverse impacts;
- Receptor: target that may be affected by contamination: examples include human occupants/users of site, water resources (rivers or groundwater), or structures;
- Pathway: a viable route whereby a hazardous substance may come into contact with the receptor.

The absence of one or more of each component (contaminant, pathway, receptor) would prevent a contaminant linkage being established and there would be no significant environmental risk.

The identification of potential contaminant linkages is based on a Conceptual Model of the site, which is subject to continual refinement as additional data becomes available. As part of a Preliminary Risk Assessment (Desk Study and site walk over) a Preliminary Conceptual Site Model (PCSM) is formed. Based on the PCSM, potential contaminant linkages can be assessed. If the PCSM and hazard assessment indicate that a contaminant linkage is not of significance then no further assessment or action is required for this linkage. For each significant and potential linkage a risk assessment is carried out. The linkages which potentially pose significant risks may require a variety of responses ranging from immediate remedial action or risk management or, more commonly, further investigation and risk assessment. This next stage is termed a Phase II Main Site Investigation and should provide additional data to allow refinement of the Conceptual Site Model and assess the level of risk from each contaminant linkage.

### Definition of Risk Assessment Terminology

The criteria used for risk assessment are broadly based on those presented in DETR's "A Guide to Risk Assessment and Risk Management for Environmental Protection" (2000). The Severity of the risk is classified according to the criteria in Table C.1 below:

| **Table C.1 Severity/Consequence of Risk** | |
|---|---|
| **Severe** | Acute risks to human health.<br>Catastrophic damage to buildings/property (e.g. by explosion).<br>Direct pollution of sensitive water receptors or serious pollution of other controlled water (watercourses or groundwater) bodies. |
| **Medium** | Harm to human health from long-term exposure.<br>Slight pollution of sensitive controlled waters (surface waters or aquifers) or pollution of other water bodies.<br>Significant effects on sensitive ecosystems or species. |
| **Mild** | No significant harm to human health in either short or long term.<br>No pollution of sensitive controlled waters, no more than slight pollution of non-sensitive waters.<br>Significant damage to buildings or structures.<br>Requirement for protective equipment during site works to mitigate health effects. |
| **Negligible** | Damage to non-sensitive ecosystems or species.<br>Minor damage to buildings or structures.<br>No harm or pollution of water. |

The probability of the risk occurring is classified according to criteria given in Table C.2 below:

| **Table C.2: Probability of Risk Occurring** | |
|---|---|
| **High likelihood** | Contaminant linkage may be present, and risk is almost certain to occur in the long term, or there is evidence of harm to the receptor. |
| **Medium/Reasonably Foreseeable** | Contaminant linkage may be present, and it is probable that the risk will occur over the long term. |
| **Low/Unlikely** | Contaminant linkage may be present and there is a possibility of the risk occurring, although there is no certainty that it will do so. |
| **Negligible/ Not credible** | Contaminant linkage may be present but the circumstances under which harm would occur are improbable. |

An overall evaluation of the level of risk is gained from a comparison of the severity and probability, as shown in Table C.3 below:

| Table C.3: Comparison of Severity and Probability | | | | | |
|---|---|---|---|---|---|
| | | Severity | | | |
| | | Severe | Medium | Mild | Negligible |
| Probability | High likelihood | Very High Risk | High Risk | Medium/Low Risk | Low Risk |
| | Medium/Reasonably Foreseeable | High Risk | Medium Risk | Low Risk | Near Zero |
| | Low/Unlikely | High/Medium Risk | Medium/Low Risk | Low Risk | Near Zero |
| | Negligible/ Not credible | Medium/Low Risk | Low Risk | Low Risk | Near Zero |

The various risk rankings provide guidance for recommended actions, whether this is:

AR - Action Required, Remediation or mitigation or site investigation works required
SIR - Site Investigation Required, further assessment is required.
NAR - No Action Required.

A description of the evaluated risk is as follows:

| Table C.4 – Description of the Classified Risks and Likely Action Required | |
|---|---|
| Evaluated Risk | Recommended Actions |
| Very High Risk | AR: There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required. |
| High Risk | AR: Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the long term. |
| Medium Risk | SI: It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| Low Risk | NAR: It is possible that harm could arise to a designated receptor from an identified hazard, but there is a low likelihood of this hazard occurring and if realised, harm would at worst normally be mild. |
| Near Zero | NAR: There is a negligible possibility that harm could arise to a receptor. In the event of such harm being realised, it is not likely to be severe. |

# APPENDIX 5

## Geotechnical Risk Assessment

# Desk Study Report - Geotechnical Risk Register

**PC228532**

**University Academy Long Sutton**

| | Condition | Hazard | Potential Impact | Before Control | | | Comments/Proposed Mitigation | After Control | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Probability | Impact | Risk | | Probability | Impact | Risk |
| R1 | Compressible ground | Insufficient bearing capacity leading to potential increased total and differential settlement problems. | Failure / excessive movement of the foundations / ground bearing floor slabs leading to cracking of buildings. Potential for differential settlement. | 3 (P) | 4 (H) | 12 (Md) | Undertake appropriate ground investigations to define ground model and inform suitable foundation design. | 2 (U) | 4 (H) | 8 (Mn) |
| R2 | Made Ground | Variable behaviour and thickness leading to varaible bearing capacities and unpredicable total and differential settlements. | Failure / excessive movement of the foundations / ground bearing floor slabs leading to cracking of buildings. Potential for differential settlement. | 5 (VL) | 4 (H) | 20 (Sv) | Undertake appropriate ground investigations to define ground model and inform appropriate and suitable foundation design taking foundations into the natural ground or treatment of the Made Ground. | 2 (U) | 4 (H) | 8 (Mn) |
| R3 | Swelling / Shrinking Soils | Shallow foundation movement due to seasonal shrinkage / swelling of clay soils associated with trees and shrubs. | Excessive movement of the foundations / ground bearing floor slabs leading to cracking of buildings. | 3 (P) | 4 (H) | 12 (Md) | Undertake appropriate ground investigations to define ground model and inform suitable foundation design. Identify any existing trees and proximity to proposed building. Ensure any future planting will not influence foundations. | 2 (U) | 4 (H) | 8 (Mn) |
| R4 | Obstruction / Hard Strata | Affecting excavations during construction works and potential hard spots below foundations / floor slabs. | Differential movement of the foundations / ground bearing floor slabs leading to cracking of buildings. Delays to excavations during construction. | 3 (P) | 4 (H) | 12 (Md) | Undertake appropriate ground investigations to define ground model and inform suitable foundation design and select appropriate excavation plant for construction. | 2 (U) | 4 (H) | 8 (Mn) |
| R5 | High groundwater | Instability of foundation excavations and problems with foundation, floor slab and road / hardstanding formations. | Excessive movement of the foundations / ground bearing floor slabs leading to cracking of buildings and subsidence of roads / hardstanding areas. | 3 (P) | 4 (H) | 12 (Md) | Undertake appropriate ground investigations including the installation of standpipes and piezometers and long term monitoring to define groundwater model and inform suitable foundation, floor slab and road design. | 2 (U) | 4 (H) | 8 (Mn) |
| R6 | Chemically Aggressive Soil | Corrosive attack of buried concrete. | Degradation of concrete foundation and buried concrete structures leading to failure. | 2 (P) | 3 (M) | 6 (Mn) | Undertake appropriate ground investigations including chemical laboratory testing to BRE SD1 to inform the design of buried concrete. | 1 (VU) | 3 (M) | 3 (N) |
| R7 | Buried services | Damage during ground investigation and construction works posing risk to Health and Safety of site personnel and public. | Increased cost and delay for unplanned diversions, protection or repair. | 3 (Lk) | 5 (VH) | 15 (Sb) | A statutory services search has been carried out. A GPR Survey to be carried out prior to ground investigations at exploratory Hole Locations. All Statutory Service Plans to be provided to the Specialist Contractors prior to works taking place. Vigilance throughout installation works for any indications of any unrecorded buried services. | 1 (VU) | 5 (VH) | 5 (Mn) |
| R8 | Slopes | Failure of existing slopes along southern edge of site along river bank and any slope created during development separating different areas. | Not expected. | 1 (VU) | 4 (H) | 4 (N) | | | | |
| R9 | Retaining Walls | Failure or movement of existing retaining walls along the eastern and southern edges of the site and any created during development separating different site areas. | Not expected. | 1 (VU) | 4 (H) | 4 (N) | | | | |
| R10 | Solution Features | Potential collapse settlement of ground affecting buildings, hardstanding and infrastructure. | Not expected. | 1 (VU) | 4 (H) | 4 (N) | | | | |

# Desk Study Report - Geotechnical Risk Register

## PC228532
## University Academy Long Sutton

| | Condition | Hazard | Potential Impact | Before Control | | | Comments/Proposed Mitigation | After Control | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Probability | Impact | Risk | | Probability | Impact | Risk |
| R11 | Mining Activities | Potential collapse settlement of ground affecting buildings, hardstanding and infrastructure. | Not expected. | 1 (VU) | 4 (H) | 4 (N) | | | | |
| R12 | Frost Susceptibility | Affecting the subgrade of roads and areas of hardstanding. | Subsidence and cracking of roads and areas for hardstanding and increased maintenance and management costs. | 3 (P) | 3 (P) | 9 (Mn) | Undertake appropriate ground investigations to define ground model and inform suitable pavement design. | 2 (U) | 3 (M) | 6 (Mn) |
| R13 | UXO | Affecting investigation and construction works and posing risk to Health and Safety of site personnel and the public. | Increased costs and delay to the project and potential serious injury or death. | 2 (U) | 5 (VH) | 10 (Md) | Preliminary UXO Threat Assessment carried out and risk assessed as very low and no further action required. Vigilance throughout investigation and construction works required. | 1 (VU) | 5 (VH) | 5 (Mn) |

**Notes**

1 The Geotechnical Risk Register has been developed in general accordance with the guidance presented in DETR Partners in Technology Programme/ICE Document 'Managing Geotechnical Risk' (2001). It has been compiled to show the degree of risk attached to various geotechnical aspects of the proposed scheme with the purpose of providing an assessment of the risk to the scheme posed by ground-related problems and identifying practical mitigation measures to control the risk to an acceptable level.

2 The inclusion of a risk in the register does not constitute confirmation that the problem actually exists at the site.

3 A probability of 'very unlikely' is indicative of a condition which the available data suggests should not be present.

4 The calculated risk is not the risk that the impact will occur, it is the risk that the mitigation will be required to enable the project to progress.

5 Only geotechnical risks are considered. Other risks such as archaeology, ecology, unexploded ordnance, etc. have not been considered in this Geotechnical Risk Register.

**Methodology**

1 For the purposes of this risk register the magnitude of each impact and the resulting severity of risk is measured against that which would 'normally' be expected for each element. The degree of risk (R) is determined by combining an assessment of the probability (P) of the hazard occurring with an assessment of the Impact (I) the hazard (R = P x I) and associated mitigation will cause if it occurs.

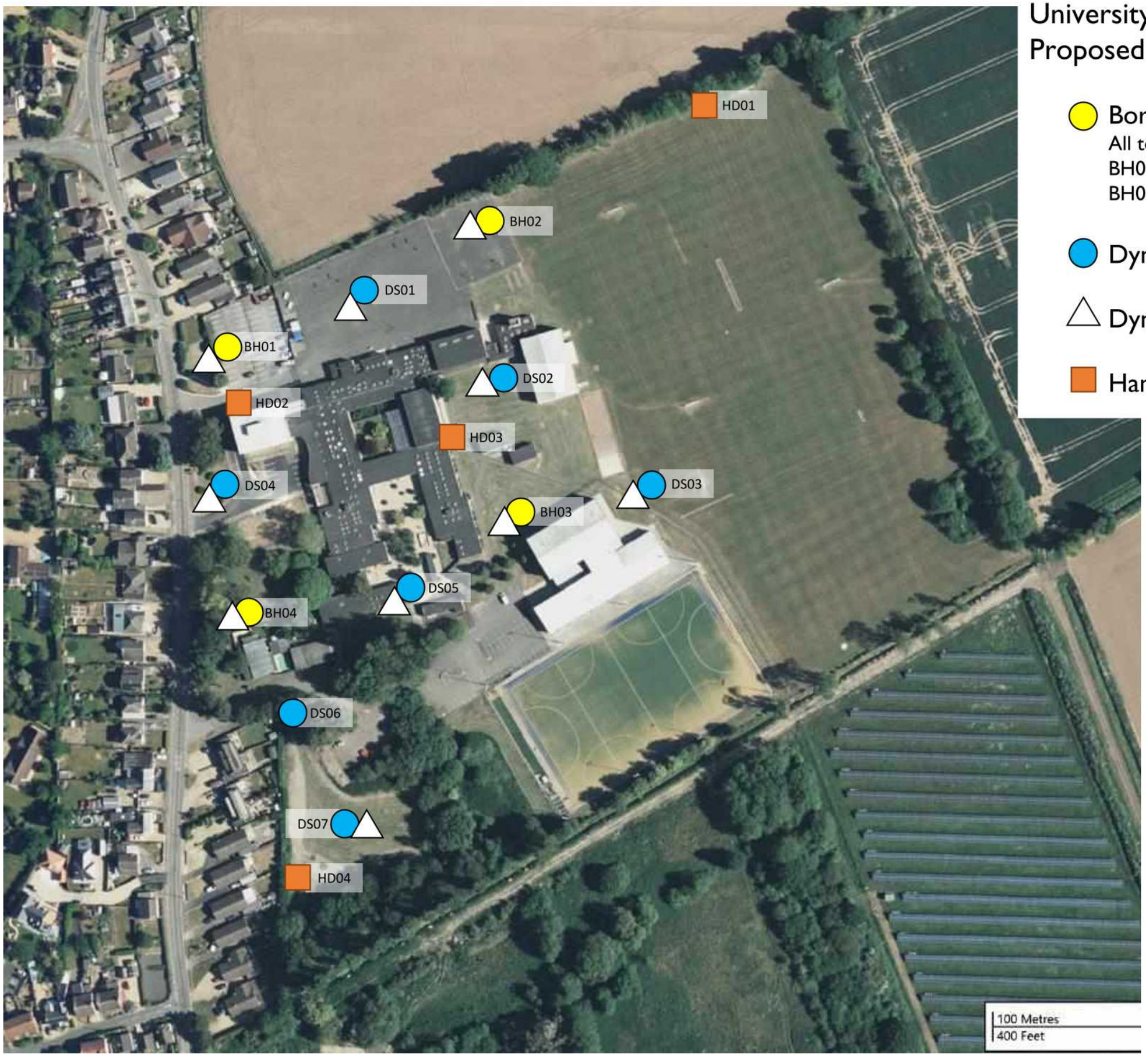
2 The scale against which the probability and impact are measured and the resulting degree of risk determined is presented below.

| Probability (P) | | Impact (I) | | Risk (R) | |
|---|---|---|---|---|---|
| Very Likely (VLk) | 5 | Very High | 5 | Severe (Sv) | 20 - 25 |
| Likely (Lk) | 4 | High (H) | 4 | Substantial (Sb) | 15 - 19 |
| Plausible (P) | 3 | Medium (M) | 3 | Moderate (Md) | 10 - 14 |
| Unlikely (U) | 2 | Low (Lw) | 2 | Minor (Mn) | 5 - 9 |
| Very Unlikely (VU) | 1 | Very Low (VLw) | 1 | None / Negligible (N) | 1 - 4 |

# APPENDIX 6

## Proposed Exploratory Hole Location Plan

# University Academy Long Sutton - Proposed Exploratory Hole Plan




- Borehole Location
  All to be installed with monitoring wells
  BH01 & BH03 to 20m bgl
  BH02 & BH04 to 10m bgl
- Dynamic Sample Location
- Dynamic Cone Penetrometer
- Hand Dug Inspection Pit