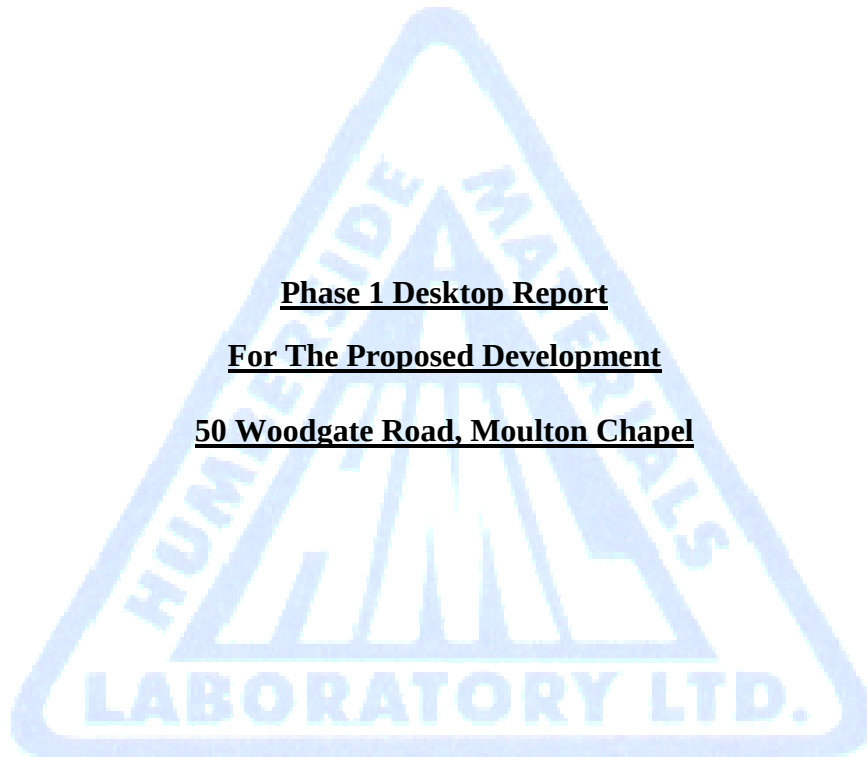


**HUMBERSIDE MATERIALS LABORATORY
LIMITED**

Atherton Way
Brigg
North Lincolnshire
DN20 8AR
Telephone & Fax 01652 652753
Humbersidematerialslab.co.uk



Phase 1 Desktop Report
For The Proposed Development
50 Woodgate Road, Moulton Chapel

Client Morris Builders

Date: April 2016
Report: 946/3909/P

PHASE 1 DESKTOP REPORT FOR THE
PROPOSED DEVELOPMENT AT
50 WOODGATE ROAD, MOULTON CHAPEL

INDEX OF CONTENTS

	Page.
1.0 Introduction	3
2.0 Site Description	4
3.0 Site History	5
4.0 Area Environment	6
5.0 Phase 1 Conclusions and Conceptual Model	8
5.1 Investigation Recommendations	13
6.0 Conclusion	13
 Appendix A - Site plan and Photographs	
Appendix B - Historic Maps	
Appendix C - Environmental Data	

1.0 Introduction

At the request of Morris Builders, Humberside Materials Laboratory Limited were engaged to undertake a phase 1 desktop study for the proposed development adjacent to 50 Woodgate Road in Moulton Chapel. The aim of the investigation is to assess the environmental settings for potential contamination on the site and produce an initial conceptual model.

When assessing the environmental risks of the site the following definitions are used: -

Very Low.	It is very unlikely that there is a risk associated with the site.
Low.	It is unlikely that there is a risk associated with the site.
Medium.	The previous/current uses of the property have or are of a nature, which could give rise to a potential risk associated with the site.
High.	The previous/current use is of a nature that will very likely give rise to a risk associated with the site.
Very High.	The previous/current use is of a nature that is most likely to have a risk associated with the site.

The methodology and references used in the compilation of this report includes: -

- BS 5930 - Code of practice for site investigations.
- BS 10175 - Investigation of potentially contaminated sites - Code of practice.
- CLEA documents published by DEFRA and the Environment Agency.

This report is produced solely for Morris Builders and their consultants and should only be copied in full. When transmitted electronically the definitive copy of the report is held by Humberside Materials Laboratory Ltd.

2.0 Site Description

The site is situated on land adjacent to 50 Woodgate Road in Moulton Chapel. The site is accessed from Woodgate Road and comprises of 0.1Ha. A site plan is included in appendix A. The proposals are to develop the site for one detached dwelling on the footprint of the current buildings. A walkover survey was undertaken on the 6th April.

The site is predominantly hardstanding of various aggregates and rubble. There is a timber building and a metal sheeted building within the site. Adjacent to the timber building are two block pillars that appear to have been the base for an above ground tank. There was no staining or discoloration noted within the site. At the rear of the metal sheeted building there is a concrete floor slab presumably from a building that has been demolished. The site contains old wheels and parts associated with agriculture. To the northern boundary is a small dyke which was dry at the time of the walkover survey. Photographs of the general layout of the site are included in appendix A.

To the rear of the site are open fields. Domestic properties are to the other three sides of the site.

3.0 Site History

Historic maps have been obtained dating back to 1887; copies of these are included in appendix B. The relevant details from these are discussed below.

1886 - The site is to the south of Moulton chapel and is part of open fields. There is a drain along the northern boundary and Woodgate road is to the west.

1906 - As above.

1938 - As above. There have been some residential developments along Woodgate Road.

1951 - As above but with the site now containing a small building.

1976 - As above but with the site now containing three small structures and hardstanding driveway.

1992 - As above.

1999 - As above.

2006 - As above.

2016 - As above and as per the walkover survey.

Although not notated on the historic maps as a farm it is considered that the most likely previous use has been associated with agriculture.

4.0 Area Environment

An envirocheck search has been obtained and is presented in appendix C. This is reviewed in the following sections.

There are no recorded contaminated land entries for the area.

The nearest discharge consent is 193m north of the site.

There are no prosecutions relating to controlled waters in the area.

No integrated pollution prevention and control exist in the area. One local authority integrated pollution prevention and control is noted 471m northeast of the site.

The nearest surface water feature is the drain on the northern boundary.

There are no pollution incidents to controlled waters in the area.

One prosecution relating to authorised processes is noted 366m northwest of the site. This was in 2004 and related to dumping controlled waste.

There are no radioactive substances registered in the area.

There is no river quantity data given for surface water features in the area.

There are no substantiated pollution incidents registered in the area.

The nearest water extraction is for surface water that is still current is 975m east of the site. There are no groundwater extractions in the area.

There are no water industry act referrals in the area.

Groundwater vulnerability is not classified. The bedrock aquifer is designated as unproductive, as is the superficial aquifer designation. No source protection zones are recorded in the area.

The site is not within an extreme flood risk zone without defences, but one exists 47m to the southeast. The map for surface water flood risks is presented in appendix C.

The map for the river network lines is included in appendix C. This shows non in the area.

There are no BGS recorded landfill sites, historic landfill sites, or licenced waste management facilities in the area. There are no potentially infilled water and non-water land in the immediate area. There are no registered landfill sites in the area.

There is no COMAH or NIHHS sites in the area.

Reference to the British Geological map for the area indicates the geology to be tidal flat deposits of silt and clay over Oxford clay formation at depth.

Estimated soil chemistry sources indicate the following element concentrations for rural soil: -

- Arsenic <15mg/kg
- Cadmium <1.8mg/kg
- Chromium 60-90mg/kg
- Lead <100mg/kg
- Nickel 15-30mg/kg.

Detailed maps with 250m, 500m and 1000m buffer zones from the site are included in appendix C.

No hazards are reported for other mining in the area. Coal mining might not affect the area.

Geological hazards are recorded as follows.

Collapsible ground stability	none
Compressible ground stability	medium
Ground dissolution	None
Landslide ground stability	Very low
Running sand	medium
Shrinking & swelling clay	low

The site is in an area with less than 1% of homes above the radon action level. No radon protection measures are required for new constructions.

There are no fuel stations within the immediate area. The nearest is 321m northeast.

A review of the contemporary trade directory and points of interest does not give any potential sites that would influence the site under investigation.

5.0 Phase I Conclusions and Conceptual Model

Reviewing the history of the site regarding potential contamination indicates the site may have had some use associated with agriculture from after 1938. The current buildings are very old and in a poor state of repair.

The following profile is considered for farming. It is essential that information from previous farmers is obtained where possible to ascertain the types and locations of the various farming practices that have taken place at the site. This will enable the necessary site specific information to be obtained on which to base any necessary sampling strategy and avoid the need for unnecessarily wide range of parameters to be analysed on a large number of samples.

The following list of potential contaminants is for general guidance only and does not form part of any definitive list for this site but is used to provide the philosophy for the site assessment.

Asbestos, mainly in the form of cement sheeting and drainage pipes, has been used extensively in farmyard buildings for over a hundred years. It is very common for the asbestos from old demolished buildings to be found in the hardcore used in farmyards, on farm tracks and in other made ground across the site.

Coke, coal, wood & rubbish may have been used on farms in the area for fuelling machines and boilers. Metals may have leached from areas where coal was stored and significant quantities of coal dust and fragments may remain in soils in the vicinity of storage & use areas. Large quantities of ash & clinker would have been produced from the combustion of these fuels over the centuries and may have been used on site as a base for farm tracks, farmyards and other made ground. Ash may present a risk, mainly from metals and PAHs.

In the first half of the 20th century petrol was used, followed in the second half of the century by diesel which replaced coal for fuelling farm machinery. Most large farmyards had diesel tanks for fuelling tractors etc, some had fuel oil tanks for heating grain dryers and some had workshops for the storage and maintenance of farm machinery.

There is the potential on larger farms that have housed livestock for gas to be produced from accumulations of slurry. The volumes of muck & slurry produced from livestock could have been quite considerable. For example, a 62 cow dairy herd could have produced about 2.8 tonnes of slurry each day. Most mixed farms, where there was plenty of arable land available for the disposal of muck & slurry via spreading have disappeared since the 1950s and those rearing only intensive livestock are the most likely to have stored large quantities. Slurry pits may be capable of holding 4 months' storage and it is not uncommon for 'sacrificial sites', for example in unused areas of fields, to have been used for disposal. Pig slurry may also contain elevated concentrations of copper and zinc from the use of copper sulphate and zinc oxide growth promoters in feed.

As well as the potential for metal contamination from the storage and uses of fuels, ash and growth promoters, elevated concentrations of metals can also arise from the use, storage and disposal of inorganic pesticides such as lead arsenate, mercurous chloride, and copper sulphate, sewage sludge (e.g. Cd, Pb, Hg, Cr, Ni, Cu & Zn) and to a lesser extent from fertilisers and lime containing trace contaminants (e.g. Cd, Zn, Cu, As & Ni).

Along with the metal based fungicides & seed dressings mentioned above, there is the potential for a wide range of synthetic pesticides and veterinary medicines to have been stored, mixed, used & disposed of on farms over the past 70 years. These may include various types of insecticides, e.g. organochlorines, organophosphates, hydrocyanic acid, carbon disulphide.

Initially potential sources for consideration are, metals, PAH, TPH, asbestos, pesticides, herbicides and gases. The size and usage of the farm should also be considered.

The following basic conceptual model is considered for the site.



Site specific conceptual model

The site is very small and in a region associated with vegetable production. With no livestock farming in the area, the risk of gases from slurry is none.

The buildings have been present for over 70 years. There was no evidence of asbestos drain pipes or sheeting but at some stage they may have been replaced. There is hard core on the site from unknown sources which could contain asbestos type materials from demolition products or ash. It is therefore concluded that the risks from asbestos materials being on site is low. The risk from metals and PAH contamination in the made ground is medium.

No staining was evident on the ground but a zone where an above ground tank may have been, was identified. Therefore, there is potential for TPH contamination in that area.

The contaminants of concern are therefore considered to be metals, asbestos, TPH and PAH.

The estimated soil chemistry (natural levels) indicates metals should not be above the site assessment criteria.

Site Conceptual Model					
Source		Pathway		Receptor	
Source type/area	Contaminant - likelihood	Route	Sub-route		Risk
Asbestos sheeting and pipes. Asbestos in demolition materials	Asbestos – Very low	Ingestion	Soils Indoor dust Outdoor dust Soils attached to vegetation Soil absorbed by vegetation	Human health	Medium
Waste combustion products	Metals – medium PAH – medium	Absorption	Dermal contact	Human health	Medium
Fuels	TPH – Low to medium	Inhalation	Indoor dust Outdoor dust Indoor vapour Outdoor vapour	Human health	Medium
Naturally occurring metals	Metals – very low	Migration		Groundwater Surface water	low
				Building materials & services	low
Not applicable					
Item		Rational			
Pesticides & herbicides Slurry gases		With the likelihood being very low these are discounted unless any visual evidence is found of these products during the intrusive investigation.			

Risks

With due consideration to the afore and the conceptual model that it builds up, it is concluded at this stage that there is an overall medium risk of contaminants of concern on the site that could pose a significant risk to human health and the environment. Pathways are present and receptors to be considered include young children as the most vulnerable receptors post development.

An investigation is therefore required to evaluate contamination on the site.

From the BGS database no radon protection measures are necessary.

5.1 Investigation Recommendations

Based on the site being small for only one dwelling it is considered three sample locations should be sufficient to evaluate the site. This is considered sufficiently robust and compliant with BS 10175:2013. Sample depth should be shallow (0.1m to 0.5m), as this represents the zone with the highest risk to the end user and the greatest risk of containing a contaminant from previous use. Further samples maybe taken at a greater depth but not necessarily tested in the first instance.

One location shall be adjacent to the potential fuel tank. This should be tested for asbestos, metals TPH and PAH. A second location should be in the proposed rear garden area as this is the most sensitive area.

Contaminants of concern for this are metals, asbestos and PAH. A further location for sampling is from the side of the property where made ground is likely to be. Contaminants of concern to include metals, asbestos and PAH.

6.0 Conclusion

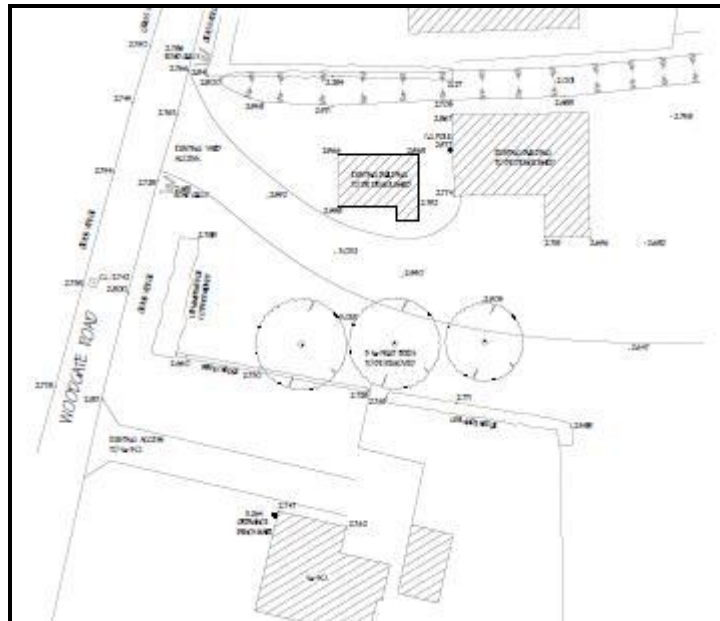
From the BGS database no radon protection measures are necessary.

The historic and area environmental settings have been assessed. A conceptual model has been developed for the site. An investigation for potential contaminants has been proposed to include sampling three shallow locations for potential contaminants of concern.

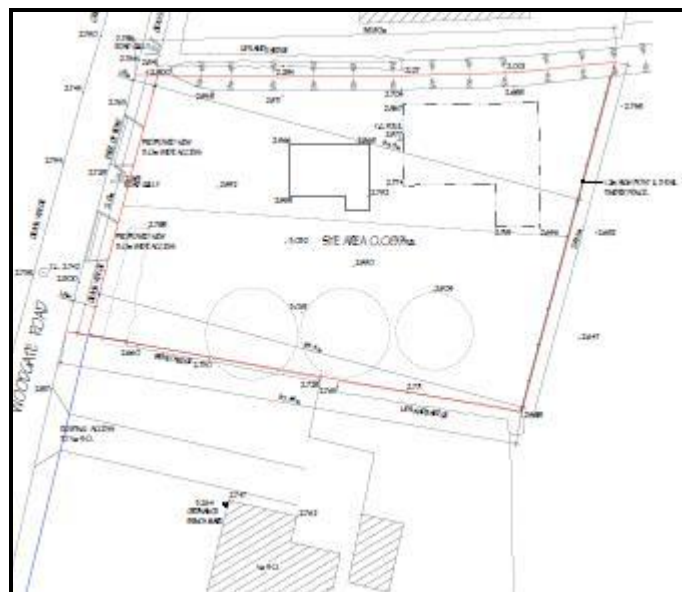
This report is prepared on the assumption that all facts have been disclosed. The comments given in this report and the opinions expressed assume that conditions do not vary beyond the range revealed by this study and the information provided in the production of this report is complete and reliable.

M J Green I.Eng F.I.H.I.E.

Appendix A



Existing layout



Proposed layout



Timber building and potential location of above ground fuel tank



Metal sheeted building



Rear of the site



Right hand side of site from the front

Appendix B

Ordnance Survey Plan 1:10,000

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:10,560	1887	2
Lincolnshire	1:10,560	1906	3
Lincolnshire	1:10,560	1906	4
Lincolnshire	1:10,560	1938	5
Lincolnshire	1:10,560	1951	6
Ordinance Survey Plan	1:10,000	1958 - 1959	7
Ordinance Survey Plan	1:10,000	1979	8
Ordinance Survey Plan	1:10,000	1991	9
Historical Aerial Photography	1:10,000	1999	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2016	13

Order Details

Order Number: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A

Site Details

Site Details
50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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

A Landmark Information Group Service v49.0 05-Apr-2016 Page 1 of 13

[illegible]

				
Gravel pit	Gravel pit	Gravel pit	Gravel pit	Gravel pit
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak
				
Oak	Oak	Oak	Oak	Oak



Lincolnshire

Published 1887

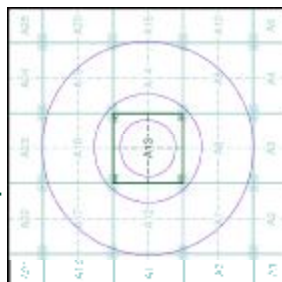
Source map scale - 1:10,560

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 1:25,000 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 1838, 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 1840'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 now marked. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.english-heritage.co.uk



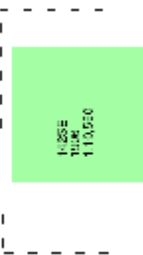
Lincolnshire

Published 1906

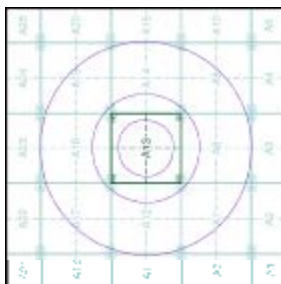
Source map scale - 1:10,560

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 now marked with a red dot. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.earthcheck.co.uk



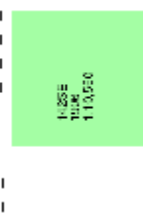
Lincolnshire

Published 1906

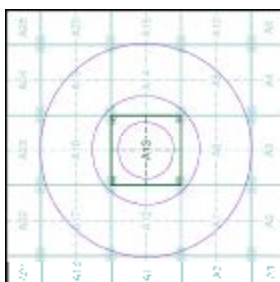
Source map scale - 1:10,560

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 now marked with a red dot. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.earthcheck.co.uk



Lincolnshire

Published 1938

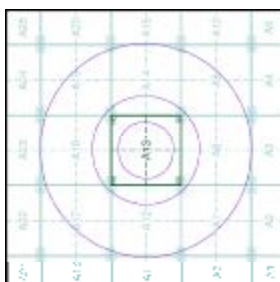
Source map scale - 1:10,560

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 now marked with a red dot. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.earthcheck.co.uk



Lincolnshire

Published 1951

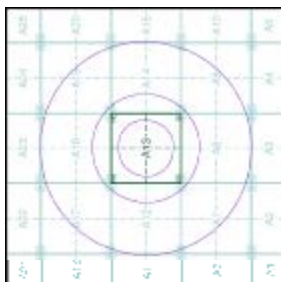
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites now marked with a red dot. These maps were produced using the Transverse Mercator Projection. The 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.english-heritage.co.uk



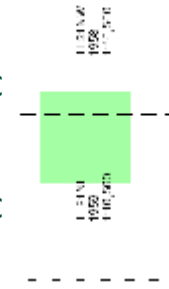
Ordnance Survey Plan

Published 1958 - 1959

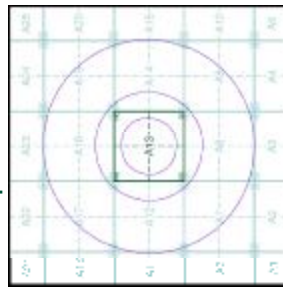
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 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 adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites marked. These maps were produced using the Transverse Mercator Projection. The 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: 83812680 1.1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.ordnancesurvey.co.uk



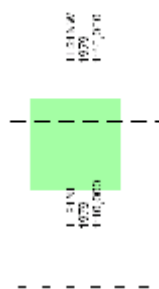
Ordnance Survey Plan

Published 1979

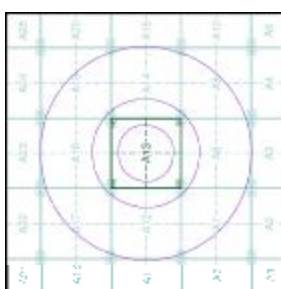
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 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 adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites marked. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
0844 844 9953
Web: www.ordnancesurvey.co.uk



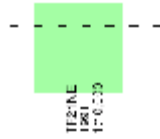
Ordnance Survey Plan

Published 1991

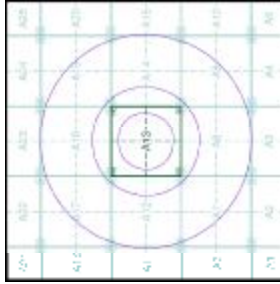
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,000 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 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites shown as uncompleted. These 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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.ordnancesurvey.co.uk

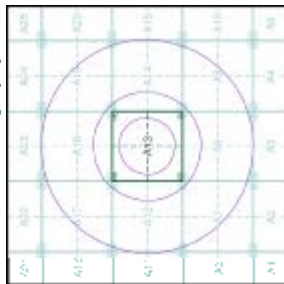


Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Slice A



Order Details

Order Number: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.geomapping.co.uk



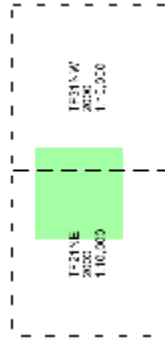
10k Raster Mapping

Published 2000

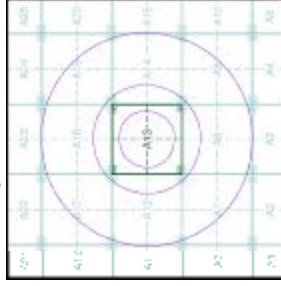
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.ema.co.uk



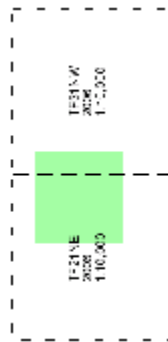
10k Raster Mapping

Published 2006

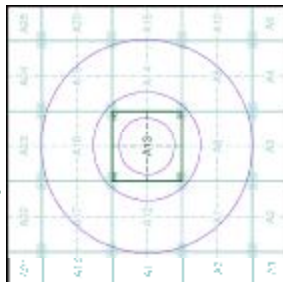
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

Order Number: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.ema.co.uk



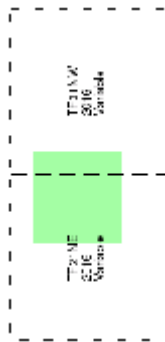
VectorMap Local

Published 2016

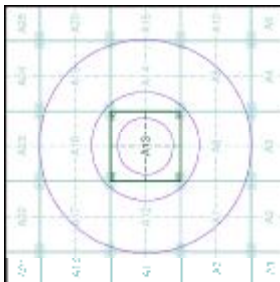
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'background' 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)



Historical Map - Slice A



Order Details

Order Number: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

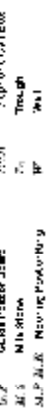
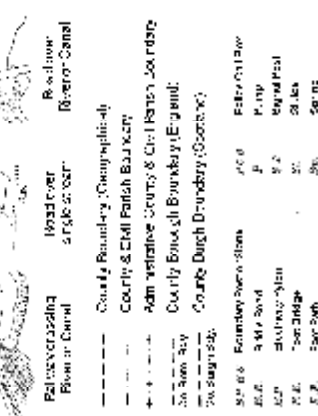
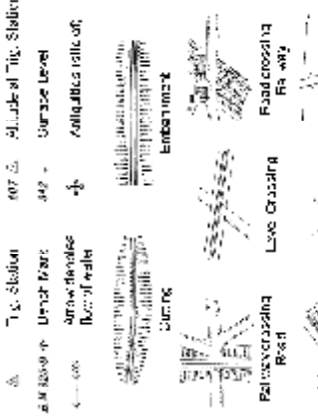
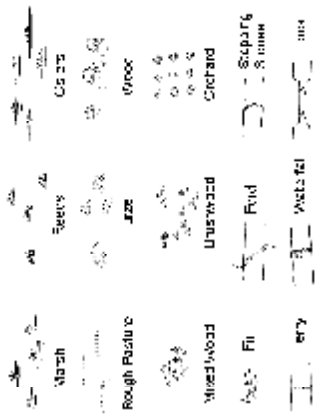
50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



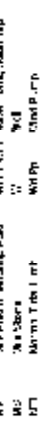
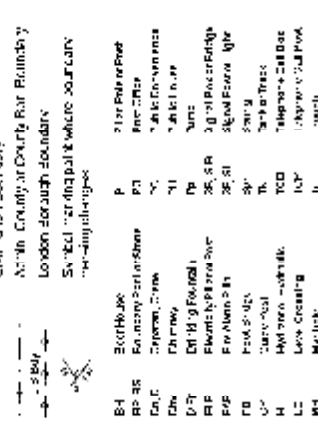
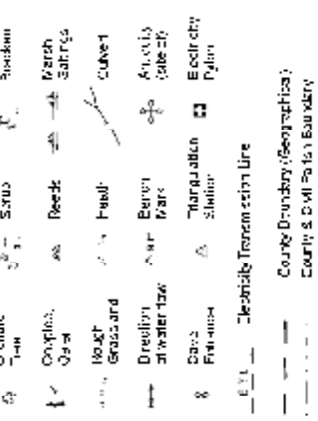
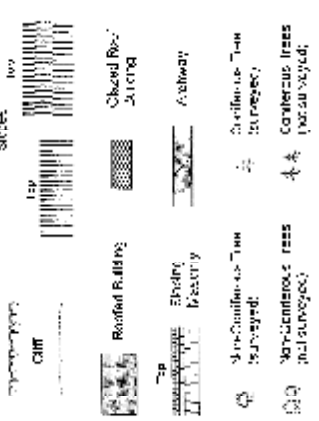
Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.ordnancesurvey.co.uk

Historical Mapping Legends

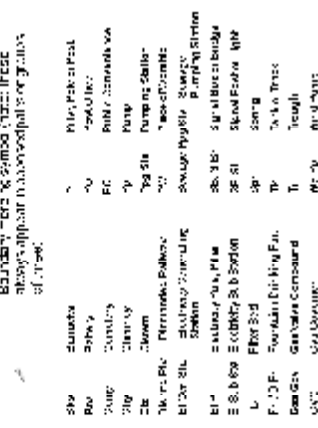
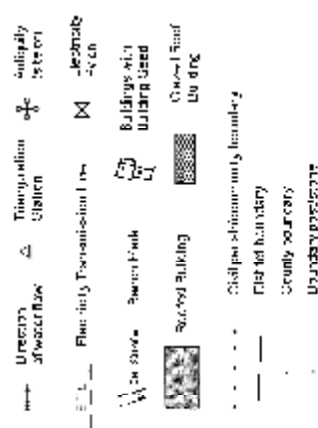
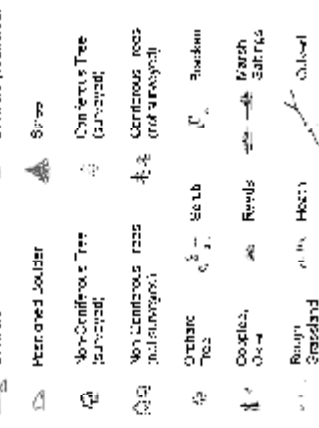
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



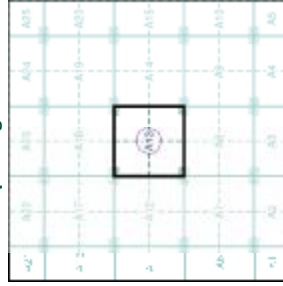
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1880	2
Lincolnshire	1:2,500	1894	3
Ordnance Survey Plan	1:2,500	1976	4
Additional SIMs	1:2,500	1992	5
Large-Scale National Grid Data	1:2,500	1995	6

Historical Map - Segment A13



Order Details

Order Number: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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



Lincolnshire

Published 1888

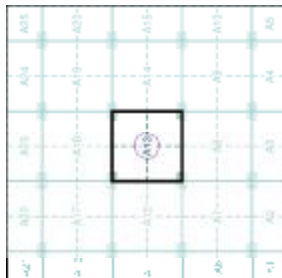
Source map scale - 1:2,500

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)

1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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



Lincolnshire

Published 1904

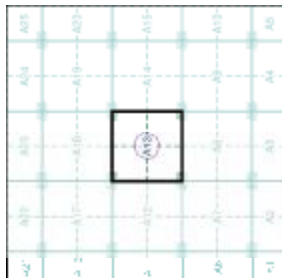
Source map scale - 1:2,500

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)

1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500
1:2,500	1:2,500	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 83812680 1.1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.envirocheck.co.uk



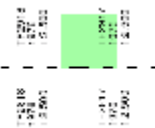
Ordnance Survey Plan

Published 1976

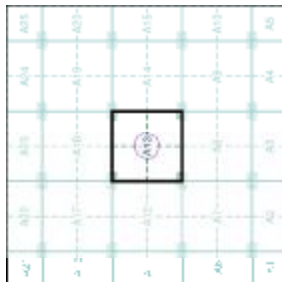
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940'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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Email: enquiries@landmark.co.uk
Web: www.envirocheck.co.uk



Additional SIMs

Published 1992

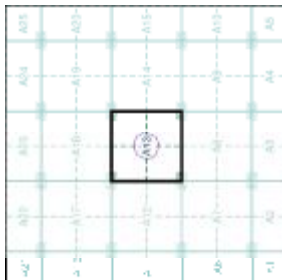
Source map scale - 1:2,500

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: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.envirocheck.co.uk

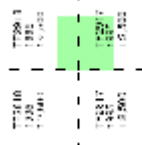


Published 1995

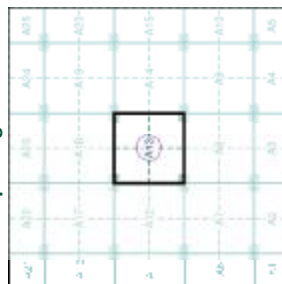
Source map scale - 1:2,500

Large Scale National Grid Data super-seeded 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 2:50 000 and 1:1 250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 100

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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

Appendix C



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

83812680_1_1

Customer Reference:

MG5416

National Grid Reference:

529310, 317920

Slice:

A

Site Area (Ha):

0.1

Search Buffer (m):

1000

Site Details:

50 Woodgate Road

Moulton Chapel

SPALDING

Lincolnshire

PE12 0XF

Client Details:

MR M Gree

Humberside Materials Laboratory Ltd

Atherton Way

Brigg

North Lincolnshire

DN20 8AR



Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	10
Hazardous Substances	-
Geological	11
Industrial Land Use	12
Sensitive Land Use	-
Data Currency	14
Data Suppliers	18
Useful Contacts	19

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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

Copyright Notice

© Landmark Information Group Limited 2016. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining_review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v50.0



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		7		9
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	pg 4			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 5			1	
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 5				2 (*13)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 8	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 8		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					n/a
Detailed River Network Offline Drainage					n/a



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 10	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 10				2
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



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 11	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 11	Yes		Yes	
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			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 11	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 11	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 11	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 12			1	4
Fuel Station Entries	pg 12			1	
Points of Interest - Commercial Services	pg 12			2	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 12			2	1
Points of Interest - Public Infrastructure	pg 13			1	
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					



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					



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 6 Effective Date: 21st September 2015 Issued Date: 21st September 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 5 Effective Date: 1st January 2011 Issued Date: 31st March 2010 Revocation Date: 20th September 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 4 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 31st December 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 2 Effective Date: 18th September 1989 Issued Date: 18th September 1989 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120
1	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 1 Effective Date: 22nd March 1988 Issued Date: 22nd March 1988 Revocation Date: 17th September 1989 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A13NE (N)	193	3	529360 318120
1	Discharge Consents Operator: Anglian Water Services Ltd Property Type: Not Given Location: Woodgate Road Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: AW5NF/584 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 9th August 1972 Revocation Date: Not Supplied Discharge Type: Sewerage Emergency Discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Fen Drain Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NE (N)	193	3	529360 318120
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 6 Effective Date: 21st September 2015 Issued Date: 21st September 2015 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 5 Effective Date: 1st January 2011 Issued Date: 31st March 2010 Revocation Date: 20th September 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 4 Effective Date: 31st March 2010 Issued Date: 31st March 2010 Revocation Date: 31st December 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 3 Effective Date: 1st January 2010 Issued Date: 24th September 2009 Revocation Date: 30th March 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 2 Effective Date: 18th September 1989 Issued Date: 18th September 1989 Revocation Date: 31st December 2009 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Revised by Notice, at direction of Secretary of State (Section 37(2)) Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf807 Permit Version: 1 Effective Date: 22nd March 1988 Issued Date: 22nd March 1988 Revocation Date: 17th September 1989 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Moulton Mere Drn River Nene N Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	507	3	529780 318170
2	Discharge Consents Operator: Anglian Water Services Limited Property Type: Sewage Disposal Works - Water Company Location: Cowbit Stw, Cowbit, Spalding, Broadgate, Bgate Weston, Pe12 0xw Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Aw5nf584 Permit Version: 1 Effective Date: 9th August 1972 Issued Date: 9th August 1972 Revocation Date: 21st March 1988 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Drain Environment: Receiving Water: Fen Drain Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	507	3	529780 318170
3	Discharge Consents Operator: Stuart Lewis Gibbard Property Type: Domestic Property (Single) Location: Chapel Road Moulton Chapel, Spalding, Lincs, Pe12 0ju Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3585 Permit Version: 1 Effective Date: 21st March 1979 Issued Date: 21st March 1979 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge: Onto Land Environment: Receiving Water: Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A12NW (W)	748	3	528600 318200
4	Discharge Consents Operator: Mr J Sneath Property Type: Domestic Property (Single) Location: Ebenezer Farm House Fengate, Moulton Chapel, Lincs, Pe12 0xl Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pm1lf01051 Permit Version: 1 Effective Date: 29th June 1989 Issued Date: 29th June 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A18NE (N)	972	3	529480 318890
5	Local Authority Pollution Prevention and Controls Name: Moulton Chapel Motors Location: 50 Roman Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XQ Authority: South Holland District Council, Environmental Services Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Not Supplied Positional Accuracy: Automatically positioned to the address	A19SW (NE)	471	4	529653 318276



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13NE (N)	0	-	529313 317928
6	Prosecutions Relating to Authorised Processes Location: Roman Road, Moulton Chapel, Spalding, Pe12 Prosecution Text: Dumping Controlled Waste On Land Without A Wml Prosecution Act: Epa90 S33(1)(A) Hearing Date: 29th March 2004 Verdict: Guilty Fine: 4000 Costs: 1014 Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	366	3	529063 318209
7	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SW (W)	848	3	528500 317600
8	Water Abstractions Operator: A H Clark Farms Ltd Licence Number: 5/32/11/*S/0052b Permit Version: 100 Location: Fresh Water Drain, Crown Hall Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 May Authorised End: 31 July Permit Start Date: 2nd April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (E)	975	3	530240 318290
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1025	3	528400 317400
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	1137	3	528400 317200



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1278	3	528300 317100
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SE (W)	1327	3	528000 317600
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	1343	3	528300 317000
	Water Abstractions Operator: A H Clark Farms Ltd Licence Number: 5/32/11/*S/0052b Permit Version: 100 Location: Fresh Water Drain, Crown Hall Authority: Environment Agency, Anglian Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Status: Perpetuity Authorised Start: 01 May Authorised End: 31 July Permit Start Date: 2nd April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1357	3	530030 316740



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6NW (W)	1480	3	527900 317400
	Water Abstractions Operator: M/S A H Clark Farms Ltd Licence Number: 5/32/11/*s/052c Permit Version: Not Supplied Location: Drain , MOULTON MERE Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 4 Yearly Rate (m3): 818300 Details: Status: Perpetuity Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A11SW (W)	1494	3	527800 317800
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Moulton Mere Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NE (SW)	1554	3	528200 316800
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	1560	3	527900 317200



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	1608	3	527900 317100
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	1745	3	527800 317000
	Water Abstractions Operator: G & R Biggs Licence Number: 5/32/11/*s/110 Permit Version: Not Supplied Location: Delgate Drain, COWBIT Authority: Environment Agency, Anglian Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 30 Yearly Rate (m3): 2000000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A1NW (SW)	1857	3	527800 316800
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 24 North Northamptonshire Scale: 1:100,000	A13NE (NE)	0	3	529313 317916
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (NE)	0	2	529313 317916
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (NE)	0	2	529313 317916
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (SE)	47	3	529340 317855
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	71	3	529220 317915
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	136	3	529450 318000



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	183	3	529410 318095
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
	Detailed River Network Lines None				
	Detailed River Network Offline Drainage None				



Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	4	529313 317916
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	5	529313 317916
9	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A9NW (SE)	839	-	529940 317328
10	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1959	A18NE (N)	998	-	529385 318925



Geological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Kellaways Formation And Oxford Clay Formation (Undifferentiated)	A13NE (NE)	0	2	529313 317916
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	0	2	529313 317916
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (NE)	436	2	529625 318253
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	2	529313 317916



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Contemporary Trade Directory Entries Name: Moulton Chapel Motors Ltd Location: 50, Roman Road, Moulton Chapel, Spalding, Lincolnshire, PE12 0XQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	471	-	529653 318276
12	Contemporary Trade Directory Entries Name: M C Hydraulics Location: The Hunters Lodge, Roman Road, Moulton Chapel, Spalding, Lincolnshire, PE12 0XA Classification: Hydraulic Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (NW)	588	-	528785 318217
12	Contemporary Trade Directory Entries Name: South Lincs Gases Location: South View, Roman Road, Moulton Chapel, Spalding, Lincolnshire, PE12 0XA Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	616	-	528752 318215
13	Contemporary Trade Directory Entries Name: M C Gates Location: 192, Moulton Chapel Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XB Classification: Gate Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	876	-	528460 318185
14	Contemporary Trade Directory Entries Name: Crt Damp Timber & Tanking Services Location: 31 Eaugate Rd, Moulton Eaugate, Spalding, Lincolnshire, PE12 0SZ Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A9NE (SE)	890	-	530121 317501
15	Fuel Station Entries Name: Moulton Chapel Motors Location: Roman Road, Moulton Chapel, Spalding, Lincolnshire, PE12 0XQ Brand: Pace Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	321	-	529474 318218
16	Points of Interest - Commercial Services Name: Moulton Chapel Motors Location: Roman Road, Moulton Chapel, Spalding, PE12 0XQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	325	6	529475 318221
17	Points of Interest - Commercial Services Name: Moulton Chapel Motors Ltd Location: 50 Roman Road, Moulton Chapel, Spalding, PE12 0XQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A19SW (NE)	471	6	529653 318276
18	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	287	6	529389 318210
19	Points of Interest - Manufacturing and Production Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SE (NE)	438	6	529581 318291
20	Points of Interest - Manufacturing and Production Name: A H Clark Farms Ltd Location: Crown Hall, Moulton Eaugate, Spalding, PE12 0TD Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A9NE (SE)	936	6	530162 317478



Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	Points of Interest - Public Infrastructure Name: Moulton Chapel Motors Location: Roman Road, Moulton Chapel, Spalding, PE12 0XQ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	321	6	529474 318218



Data Currency

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Holland District Council - Environmental Services	October 2013	Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region	January 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - Anglian Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Anglian Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Anglian Region	January 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Anglian Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Anglian Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Anglian Region - Northern Area	January 2016	Quarterly
Water Abstractions Environment Agency - Anglian Region	January 2016	Quarterly
Water Industry Act Referrals Environment Agency - Anglian Region	January 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	January 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	February 2016	Quarterly



Data Currency

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	February 2016	Quarterly
Flood Defences Environment Agency - Head Office	February 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Integrated Pollution Control Registered Waste Sites Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Anglian Region - Northern Area	February 2016	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Anglian Region - Northern Area	January 2016	Quarterly
Local Authority Landfill Coverage Lincolnshire County Council South Holland District Council - Environmental Services	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lincolnshire County Council South Holland District Council - Environmental Services	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable



Data Currency

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	February 2016	Bi-Annually
Explosive Sites Health and Safety Executive	February 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements South Holland District Council Lincolnshire County Council - Highways and Planning Department	January 2016 June 2010	Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Lincolnshire County Council - Highways and Planning Department South Holland District Council	August 2007 January 2016	Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	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	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified



Data Currency

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	March 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2015	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	March 2016	Quarterly
Points of Interest - Education and Health PointX	March 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	March 2016	Quarterly
Points of Interest - Public Infrastructure PointX	March 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	March 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	June 2015	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	October 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	October 2015	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2015	Bi-Annually
Marine Nature Reserves Natural England	October 2015	Bi-Annually
National Nature Reserves Natural England	October 2015	Bi-Annually
National Parks Natural England	March 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	October 2015	Bi-Annually
Special Protection Areas Natural England	October 2015	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually



Data Suppliers

A selection of organisations who provide data within this report

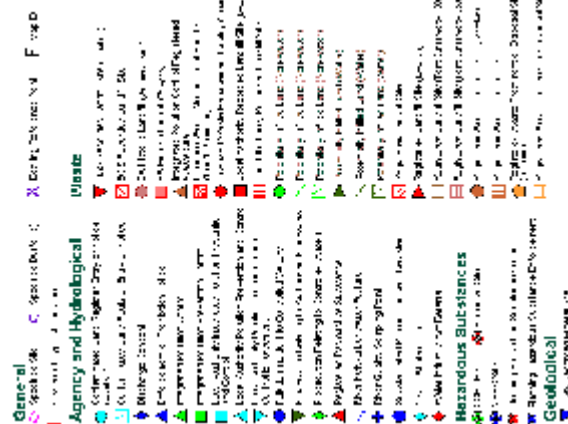
Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	



Useful Contacts

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

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



Order Number: 83812680_1_1
Customer Ref: MC5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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



Industrial Land Use Map

General

Site location: <

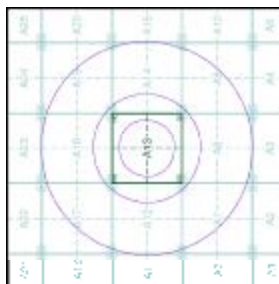


General
● Low Water
○ Low Water
X Low Water

Agency and Hydrological (Flood)

● Flood Risk Assessment (Flood Risk)
● Flood Risk Assessment (Flood Risk)
● Flood Risk Assessment (Flood Risk)
● Flood Risk Assessment (Flood Risk)
● Flood Risk Assessment (Flood Risk)
● Flood Risk Assessment (Flood Risk)

Flood Map - Slice A



Order Details

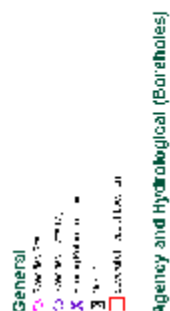
Order Number: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



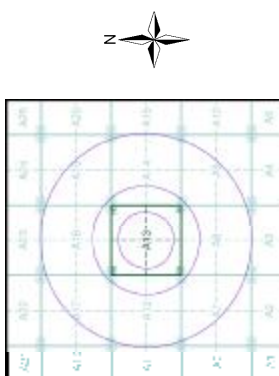
Tel: 0844 844 9852
Fax: 0844 844 9853
Web: www.landmark.co.uk



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

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

Borehole Map - Slice A



Order Details

Order Details

Order Number:	83812680_1_1
Customer Ref:	MG5416
National Grid Reference:	529310, 317920
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	1000

Site Details

Site Details
50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



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



General
 G Grid Reference
 X Easting
 Y Northing

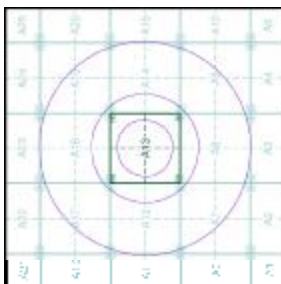
Detailed River Network Data

- 1 River
- 2 Tributary
- 3 Canal
- 4 Drainage
- 5 Floodplain
- 6 Embankment
- 7 Levee
- 8 Flood Wall
- 9 Flood Gate
- 10 Flood Relief
- 11 Flood Relief
- 12 Flood Relief
- 13 Flood Relief
- 14 Flood Relief
- 15 Flood Relief
- 16 Flood Relief
- 17 Flood Relief
- 18 Flood Relief
- 19 Flood Relief
- 20 Flood Relief
- 21 Flood Relief
- 22 Flood Relief
- 23 Flood Relief
- 24 Flood Relief
- 25 Flood Relief
- 26 Flood Relief
- 27 Flood Relief
- 28 Flood Relief
- 29 Flood Relief
- 30 Flood Relief
- 31 Flood Relief
- 32 Flood Relief
- 33 Flood Relief
- 34 Flood Relief
- 35 Flood Relief
- 36 Flood Relief
- 37 Flood Relief
- 38 Flood Relief
- 39 Flood Relief
- 40 Flood Relief
- 41 Flood Relief
- 42 Flood Relief
- 43 Flood Relief
- 44 Flood Relief
- 45 Flood Relief
- 46 Flood Relief
- 47 Flood Relief
- 48 Flood Relief
- 49 Flood Relief
- 50 Flood Relief
- 51 Flood Relief
- 52 Flood Relief
- 53 Flood Relief
- 54 Flood Relief
- 55 Flood Relief
- 56 Flood Relief
- 57 Flood Relief
- 58 Flood Relief
- 59 Flood Relief
- 60 Flood Relief
- 61 Flood Relief
- 62 Flood Relief
- 63 Flood Relief
- 64 Flood Relief
- 65 Flood Relief
- 66 Flood Relief
- 67 Flood Relief
- 68 Flood Relief
- 69 Flood Relief
- 70 Flood Relief
- 71 Flood Relief
- 72 Flood Relief
- 73 Flood Relief
- 74 Flood Relief
- 75 Flood Relief
- 76 Flood Relief
- 77 Flood Relief
- 78 Flood Relief
- 79 Flood Relief
- 80 Flood Relief
- 81 Flood Relief
- 82 Flood Relief
- 83 Flood Relief
- 84 Flood Relief
- 85 Flood Relief
- 86 Flood Relief
- 87 Flood Relief
- 88 Flood Relief
- 89 Flood Relief
- 90 Flood Relief
- 91 Flood Relief
- 92 Flood Relief
- 93 Flood Relief
- 94 Flood Relief
- 95 Flood Relief
- 96 Flood Relief
- 97 Flood Relief
- 98 Flood Relief
- 99 Flood Relief
- 100 Flood Relief

Contours Height in metres

- 100m
- 110m
- 120m
- 130m
- 140m
- 150m
- 160m
- 170m
- 180m
- 190m
- 200m
- 210m
- 220m
- 230m
- 240m
- 250m
- 260m
- 270m
- 280m
- 290m
- 300m
- 310m
- 320m
- 330m
- 340m
- 350m
- 360m
- 370m
- 380m
- 390m
- 400m
- 410m
- 420m
- 430m
- 440m
- 450m
- 460m
- 470m
- 480m
- 490m
- 500m
- 510m
- 520m
- 530m
- 540m
- 550m
- 560m
- 570m
- 580m
- 590m
- 600m
- 610m
- 620m
- 630m
- 640m
- 650m
- 660m
- 670m
- 680m
- 690m
- 700m
- 710m
- 720m
- 730m
- 740m
- 750m
- 760m
- 770m
- 780m
- 790m
- 800m
- 810m
- 820m
- 830m
- 840m
- 850m
- 860m
- 870m
- 880m
- 890m
- 900m
- 910m
- 920m
- 930m
- 940m
- 950m
- 960m
- 970m
- 980m
- 990m
- 1000m

EANRW Detailed River Network Map - Slice A



Order Details

Order Number: 83812680_1_1
 Customer Ref: MG5416
 National Grid Reference: 529310, 317920
 Slice: A
 Site Area (Ha): 0.1
 Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
 PE12 0XF



Tel: 0844 844 9852
 Fax: 0844 844 9853
 Web: www.landmark.co.uk



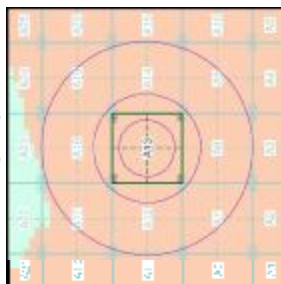
General
* Low Risk
* Low Risk
* Low Risk
* Low Risk

Risk of Flooding from Surface Water

1: 100 Years
2: 100 Years
3: 100 Years
4: 100 Years

Suitability
1: 100 Years
2: 100 Years
3: 100 Years
4: 100 Years

EANRW Suitability Map - Slice A



Order Details

Order Number: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Site: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9852
Fax: 0844 844 9853
Web: www.landmark.co.uk



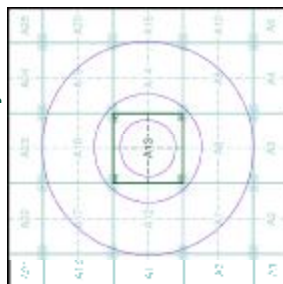
General

Estimated Soil Chemistry Arsenic

Arsenic Concentration (mg/kg)



Estimated Soil Chemistry Arsenic - Slice A



Order Details

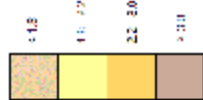
Order Details: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9852
Fax: 0844 844 9853
Web: www.landmark.co.uk



50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF





General

Customer Ref: 83812680_1_1

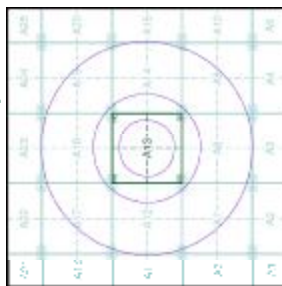
Project Name: Moulton Chapel

Estimated Soil Chemistry Chromium

Concentration: mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 83812680_1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9852
Fax: 0844 844 9853
Web: www.landmark.co.uk

A Landmark Information Group Service v49.0 05-Apr-2016 Page 4 of 5

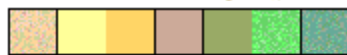


General

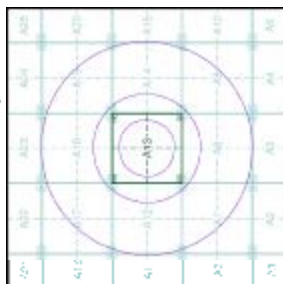
Estimated Soil Chemistry Nickel

Estimated Soil Chemistry Nickel

Estimated Soil Chemistry Nickel



Estimated Soil Chemistry Nickel - Slice A



Order Details

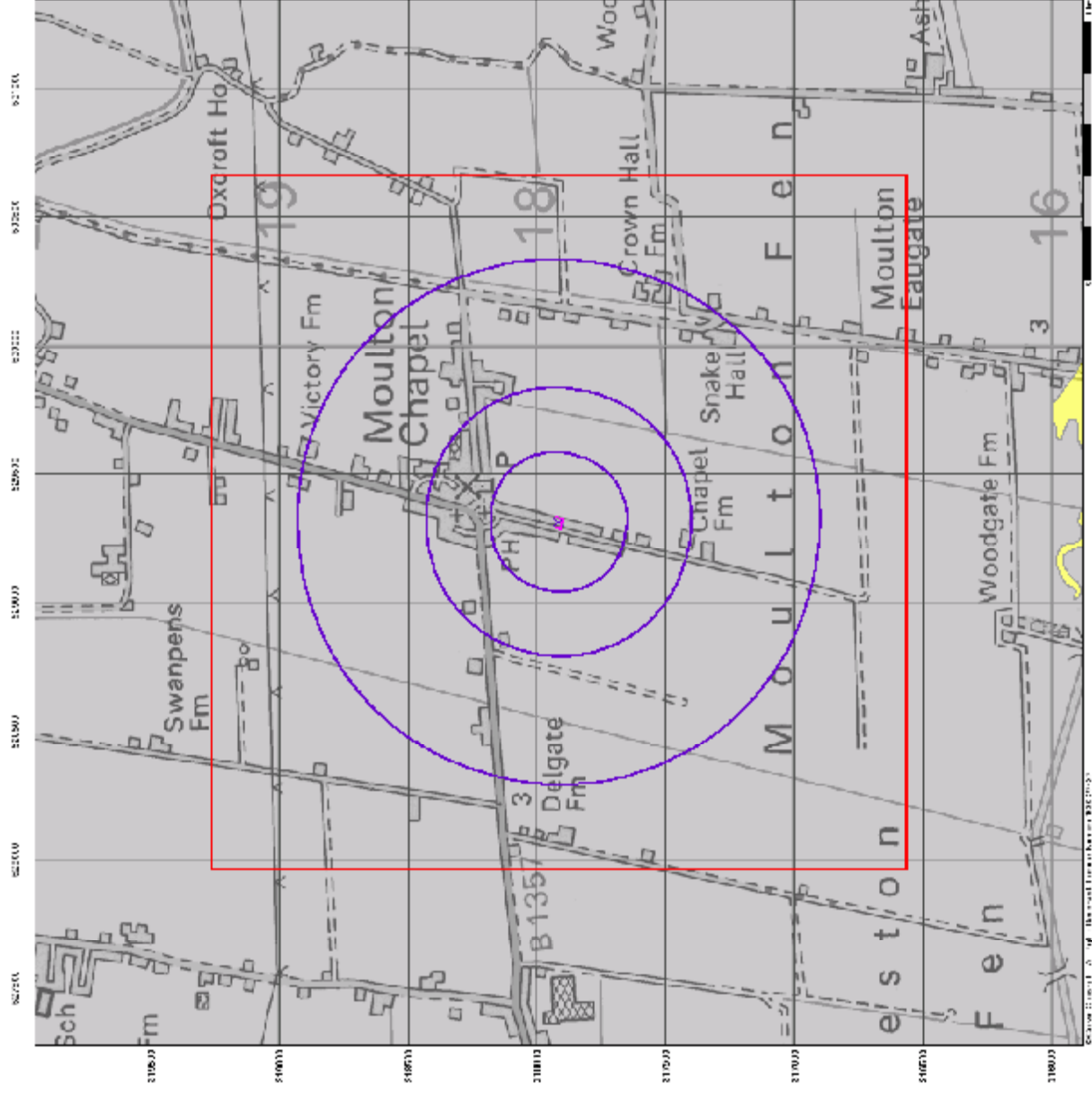
Order Details: 83812680 1_1
Customer Ref: MG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire,
PE12 0XF



Tel: 0844 844 9852
Fax: 0844 844 9853
Web: www.landmark.co.uk



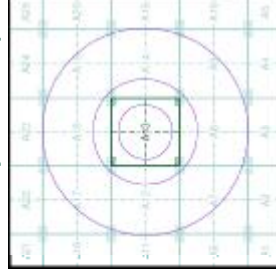
Superficial Aquifer Designation

General	Brother's St-	Coach's Journal	Leaving Ministry Ap.
			

Agency and Hydrological

[illegible]

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	83812680_1_1
Customer Ref:	MG5416
National Grid Reference:	529310, 317920
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	1000

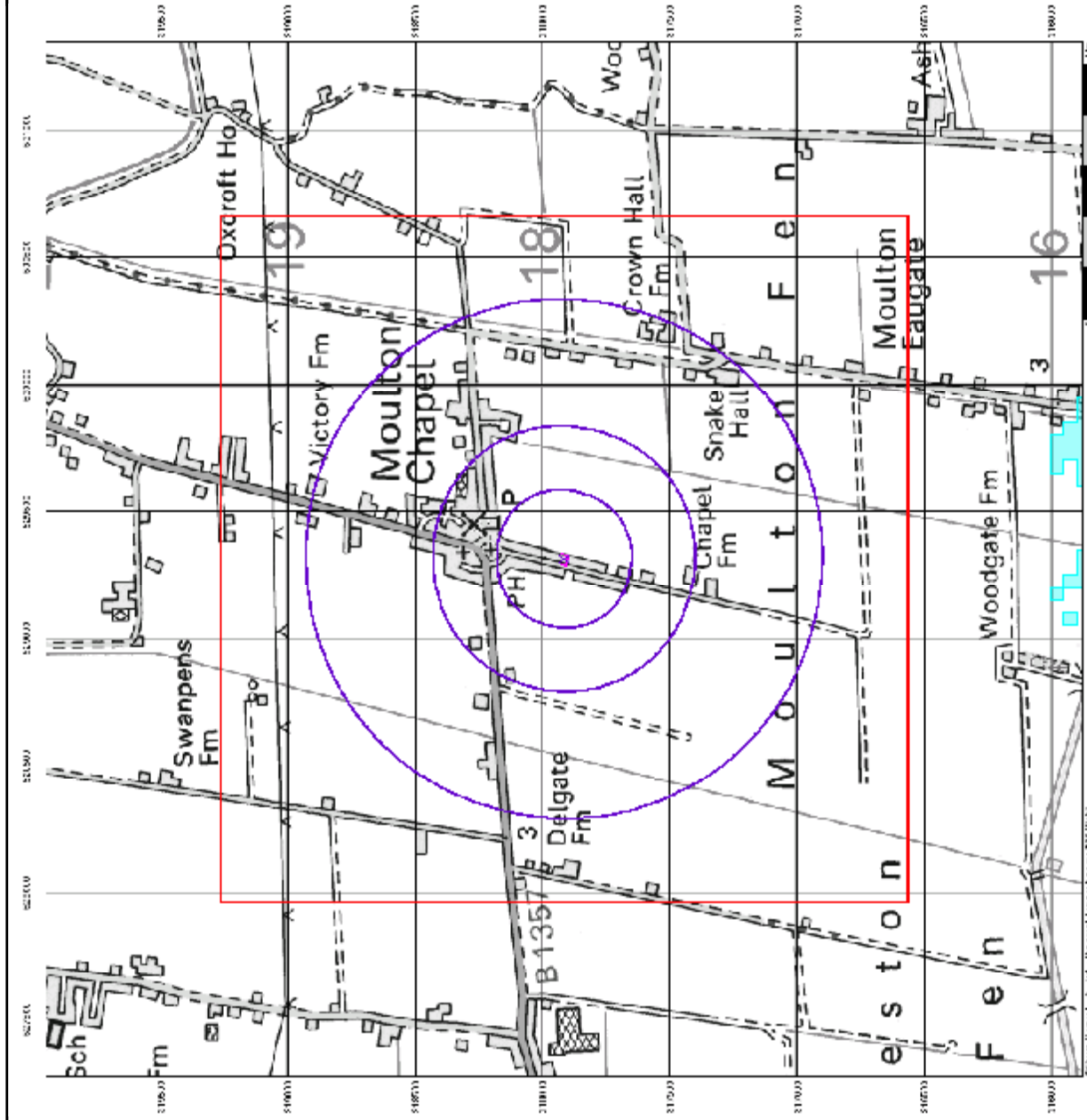
Site Details

Site Details
50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



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

A Landmark Information Group Service v15.0 05-Apr-2016



BGS Flood GFS Data

General

QUESTION	ANSWER	MARKS
11. Which of the following is not a function of the endoplasmic reticulum?	Storage of calcium ions	1
12. Which of the following is not a function of the Golgi apparatus?	Protein synthesis	1
13. Which of the following is not a function of the lysosome?	Protein synthesis	1
14. Which of the following is not a function of the mitochondrion?	Protein synthesis	1
15. Which of the following is not a function of the nucleus?	Protein synthesis	1

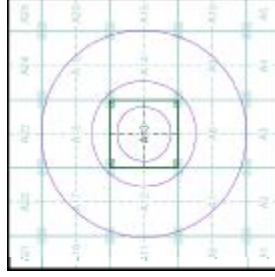
Agency and Hydrological (Flood)

in a few days. An online Florida

Technical Support Forum: <http://www.ibm.com/Support/Forum>

Editorial: Quarterly Forum 3

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 83812680 1 1

Customer Ref: MG5416

National Grid Reference:

Slice: 4

Site Area (Ha):

Search Buffer (m): 1000

Site Details

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



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

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	Holocene - Holocene
	TFD1	Tidal Flat Deposits, 1	Clay and Silt	Quaternary - Quaternary
	TFD1	Tidal Flat Deposits, 1	Sand and Silt	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WWB	West Walton Formation	Mudstone and Siltstone	Oxfordian - Oxfordian
	OXC	Oxford Clay Formation	Mudstone	Oxfordian - Callovian



Geology 1:50,000 Maps

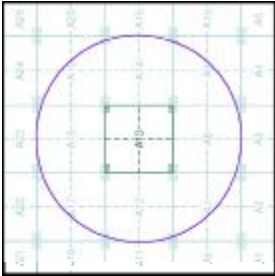
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	144
Map Name:	Spalding
Map Date:	1992
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Supplied
Faults:	Not Available
Landslip:	Not Supplied
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number: 83812680_1_1
Customer Reference: WG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details:

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



Tel: 0844 844 9952
Fax: 0844 844 9953
Web: www.landmark.co.uk



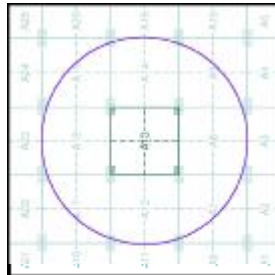
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface
- Quarries and pits - where the ground has been cut away such as for aggregates and road cuttings
- In-filled ground - areas where the ground has been cut away then wholly or partially backfilled
- Disurbed ground - areas where the surface has been reshaped
- Landscaped 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 founded strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number:	83812680_1_1
Customer Reference:	MG5416
National Grid Reference:	529310, 317920
Slice:	A
Site Area (Ha):	0.1
Search Buffer (m):	1000

Site Details:

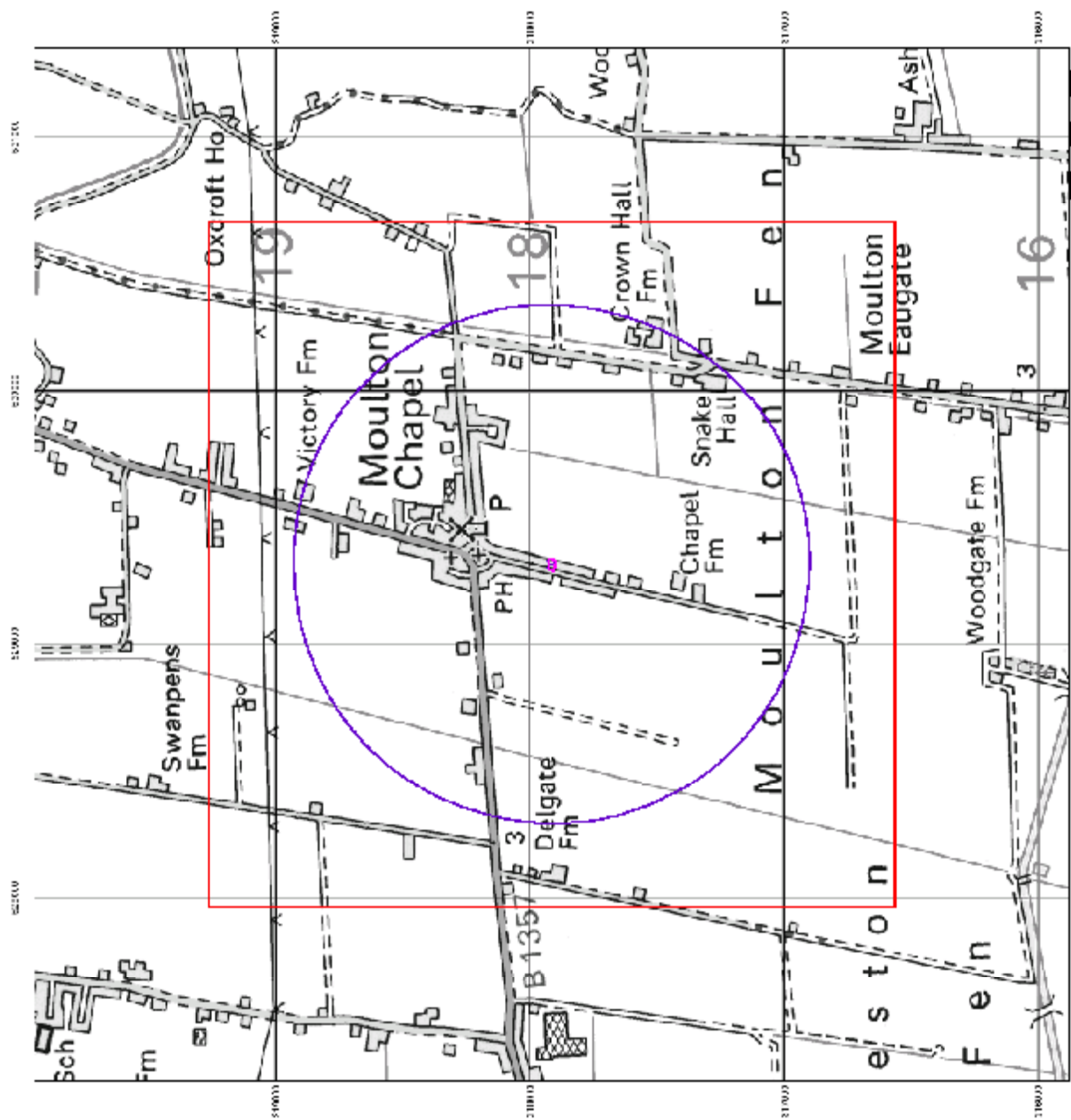
SITE DETAILS:
50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire PE12 0XF



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

v15.0 05-Apr-2016

Page 2 of 5



© Crown Copyright. All Rights Reserved. License Number 100022432.



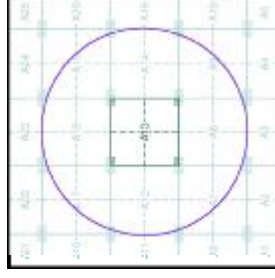
Superficial Geology

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:

Order Number: 83812680_1_1
Customer Reference: WG5416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details:

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



Tel: 0844 844 9652
Fax: 0844 844 9651
Web: www.landmark.co.uk



Bedrock and Faults

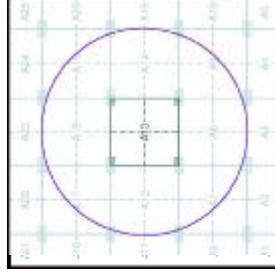
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 83812680_1_1
Customer Reference: WG35416
National Grid Reference: 529310, 317920
Slice: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details:

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



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



Combined Surface Geology

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

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

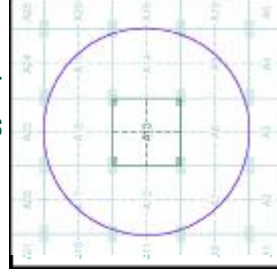
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

Order Number: 83812680_1_1
Customer Reference: WG3416
National Grid Reference: 529310, 317920
Site: A
Site Area (Ha): 0.1
Search Buffer (m): 1000

Site Details:

50 Woodgate Road, Moulton Chapel, SPALDING, Lincolnshire, PE12 0XF



Tel: 0844 844 9652
Fax: 0844 844 9651
Web: www.landmark.co.uk