

Piggery to the south of Chapelgate, Sutton St James, Spalding, Lincolnshire, PE12 0EF

Phase 1 Desk Study

Report on behalf of Kirk Homes Ltd

July 2017

Final Report

R17053

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EXECUTIVE SUMMARY

SITE INFORMATION & SETTING	**Purpose of this report**	Phase 1 Desk Study
	Client	Kirk Homes Ltd
	Site	Piggery to the south of Chapelgate, Sutton St James, Spalding, Lincolnshire, PE12 0EF
	Site Location	Sited approximately 20km to the south-east of Spalding, the site is located to the south of Chapelgate (the B1165 road) within the village of Sutton St James. The approximate National Grid Reference for the site is 539040, 318060.
	Current Land Use & Description	The site covers approximately 1.8 hectares and is occupied by an active piggery. It includes working areas, yards, storage facilities and paddocks. At the time of writing in July 2017, the piggery remained active and animals were being kept at the site.
	Proposed Development	Forty-two new homes with residential gardens, parking facilities and soft landscaping are proposed at the site.
PHASE 1 (DESK STUDY)	**Site History**	The site was occupied by rural, undeveloped land until the early 1970s, when a piggery was constructed within the western portion of the site. Extension of the piggery took place in the early 1990s. The east of the site has remained as rural, undeveloped land since mapping records began, but was divided into paddocks in the early 2000s. Sutton St James (corn) mill was present immediately to the north and west of the site, until production ceased in the 1950s. The surrounding area has remained predominantly rural in nature with residential properties, undeveloped land, farms and some small areas of woodland located in the vicinity. Many field drains are present in the surrounding area.
	Unexploded Ordnance	The Zetica UXB map indicates that the site and immediate vicinity is in an area with a low bomb risk.
	Geology	Made Ground is anticipated to be present at the site, associated with the existing piggery, since the early 1970s. The site is underlain by Tidal Flat Deposits. They typically comprise beach deposits of shingle, Sand, Silt and Clay. The upper bedrock at the site is the West Walton Formation. This stratum is variable and contains calcareous Mudstones, silty Mudstone and Siltstone with fine-grained Sandstones and argillaceous Limestone (cementstone) or Siltstone nodules. Typically, it is a silty Mudstone with occasional Limestone bands. The stratum is typically 15m thick, although the thickness on site is anticipated to be less, due to the proximity of the outcropping Ampthill Clay Formation, which formers the deeper bedrock at the site, immediately to the east. The Ampthill Clay Formation is a grey Mudstone, with argillaceous Limestone (cementstone) nodules.
	Mining and Mineral Extraction	The site is not present within an area affected by coal mining and there are no BGS Recorded Mineral Sites within 2km.
	Ground Stability	No significant ground stability hazards are noted at the site, though there is a **Moderate** risk of compressible ground and running sands associated with the underlying geology.
	Hydrogeology	The site is not within a Source Protection Zone. The site is underlain by Unproductive strata. There are no licensed groundwater abstractions within 2km.
	Hydrology and Flood Risk	Due to the presence of Unproductive Strata beneath the site, the site and the immediate vicinity is drained via a large network of culverts, streams and field drains. The closest surface water features to the site are listed as field drains on the eastern, western and southern site boundaries. The site is listed as being at risk of flooding from rivers or seas without defences (Zone 3). Portions of the site have a medium risk (100-year return) for flooding from surface water. The site is not listed as being at risk from groundwater flooding. There are no discharge consents for the site. There has been no pollution to controlled waters events recorded within 250m and no surface water abstractions within 2km.

	Geotechnical Hazards	The preliminary ground model has identified the following geotechnical hazards: • Excessive settlement (creep and inundation settlement or differential settlement of foundations from potential Made Ground); • Attack of buried concrete by aggressive ground conditions; • Moderate risk of compressible ground and running sands;
	Possible Contaminant linkages	The plausible contaminant linkages identified for the site are considered as potentially unacceptable risks in line with guidelines published in CLR 11 and additional risk assessment may be required. These risks are deemed to be **Low to Moderate**.
ASSESSMENT & CONSIDERATIONS	**Conclusions**	Based on historic land uses and its current operational use, the overall risk from land contamination at the site is **Low to Moderate.** This would need to be confirmed by appropriate intrusive investigation, testing and assessment. It is considered that it is unlikely that the site would be classified as Contaminated Land under Part 2a of the EPA 1990.
	Further Work	To confirm the risks to receptors and confirm the ground conditions, with respect to potential geotechnical and geo-environmental risks, an appropriate intrusive ground investigation will need to be undertaken at the site. Based on the current available data, the investigation is anticipated to comprise: • Dynamic (window) sampling to facilitate the collection of soil samples and allow in-situ testing to be undertaken to assess the density of the underlying soils to allow foundation design; • Ground gas and groundwater monitoring wells to be installed and monitored; • TRL Dynamic Cone Penetration tests to correlate to California Bearing Ratios for pavement design; • Geotechnical testing of soils; • Geo-environmental chemical (contamination) analyses of soil and groundwater to include a full and complex suite of contaminants based on the site´s history; • It is recommended that an asbestos survey is undertaken of the existing buildings. A specialist asbestos contractor should also be employed to remove the asbestos and asbestos-containing materials present on site to minimise the risk of these materials being broken-up and impacting human health; and • Continued liaison with the Environmental Health and the Contaminated Land Officers at South Holland District Council should be undertaken to obtain further information and to gain their approval of the proposed scope of works for the ground investigation.

This Executive Summary forms part of Grange GeoConsulting Limited report number R/17053/001 (Issue 1) and should not be used as a separate document.

1.0 INTRODUCTION

1.1 Terms of Reference

Consideration is being given by the Client, Kirk Homes Ltd, to the redevelopment of the piggery to the south of Chapelgate in Sutton St James, Spalding, Lincolnshire. The proposed development comprises forty-two new homes (to include two bungalows and forty houses) with residential gardens, parking facilities and associated soft landscaping.

The site is located on the western side of the village of Sutton St James and to the south of Chapelgate (the B1165 road) in the South Holland district of Lincolnshire. Sutton St James is a small village, located in a rural area. The site is within the Lincolnshire Fens, approximately 20km to the south-east of Spalding. The site covers approximately 1.8 hectares and is occupied by an active piggery. It includes working areas, yards, storage facilities and paddocks. At the time of writing in June 2017, the piggery remained active and animals were being kept at the site.

A Site Location Plan (Drawing R17053-DWG1) and a Proposed Development Layout (Drawing R17053-DWG2), are presented in Appendix A.

1.2 Objectives

The overall objective was to carry out a Desk Study and Preliminary Risk Assessment of the site to inform the Client of the ground conditions and any potential environmental or ground-related risks associated with the current and historical use of the site and surrounding area that could impact the redevelopment opportunity.

1.3 Scope of Works

The scope of works, as outlined in the Grange Geoconsulting Limited proposal dated 16th June 2017, is summarised below.

- A site walkover;
- A review of topographical, geological and hydrogeological maps;
- A review of historical site maps to identify any former potentially contaminative uses of the site and the areas immediately surrounding it, and an assessment of the potential contaminants associated with those uses;
- Purchase and review of a Landmark Information Group Envirocheck Report for the site to identify any former flooding events, local landfill sites, pollution incidents etc. which may have had the potential to impact the site;
- Formulation of a Conceptual Site Model including the clear and tabulated identification of potential pollution linkages;
- A Qualitative Risk Assessment; and
- A review of the geological conditions, and the potential effects on foundation design and possible construction impacts.

1.4 Provided Information

The following has been provided to Grange GeoConsulting Consulting Ltd by Kirk Homes Ltd for use in the preparation of this report:

- Landmark Information Group Sitecheck Combined Report dated 7th June 2017;
- Proposed Residential to the rear of Havencombe, Chapelgate, Sutton St James for Mr & Mrs Heanes (reference S015-040/1) dated February 2016; and
- Topographical Survey for the land to the rear of Avalon and Havencombe, Chapelgate, Sutton St James (reference 37815/02) dated December 2015

1.5 Limitations

This report is based upon information obtained from third party sources, together with observations from the site walkover. The third-party data has been accepted at face value and has not been independently verified. Grange GeoConsulting Limited can therefore give no warranty, representation or assurance as to the accuracy or completeness of such information.

This report has been prepared for the sole internal use and reliance of the Client, Kirk Homes Ltd, and shall not be relied upon by other parties without the express written authority of Grange GeoConsulting Limited. If an unauthorised third party comes into possession of this report, then they rely on it at their own risk.

2.0 PHASE 1 DESK STUDY

Several sources have been used to assemble the following information, including a Landmark Information Group Envirocheck Report for the site (reference 129559767_1_1), presented in Appendix C. Other publically available information, including Google Earth has been utilised. A site walkover has also been undertaken to supplement this desk-based review.

2.1 Site Referencing

Table 2.1: Site Referencing Information

Item	Brief description
Site name	Piggery to the south of Chapelgate, Sutton St James, Spalding, Lincolnshire. The approximate postcode of the site is PE12 0EF.
Site location and National Grid Reference	Located approximately 20km south-east of Spalding, the site is located to the south of Chapelgate (the B1165 road) within the village of Sutton St James. The approximate National Grid Reference for the site is 539040, 318060. A Site Location Plan is provided in Appendix A (Drawing R17053-DWG1).

2.2 Site Description and Walkover Survey

A site walkover was undertaken on 22nd June 2017 to confirm the findings of the desk study and identify any potential hazards and receptors. Photographs taken during the site walkover are presented in Appendix B. A description of the current site conditions is summarised in Table 2.2.

Table 2.2: Site Description

Item	Brief description
Site access	The site is accessed via the piggery which extends to the north, off-site towards Chapelgate. Vehicle and pedestrian access is obtained via Chapelgate (the B1165 road).
Land area	Approximately 1.8 hectares.
Elevation and topography	The site appears to be relatively flat. No large earth mounds or bunds were observed.
Site boundaries	The site lies within the village of Sutton St James. The remainder of the surrounding area is occupied by undeveloped rural land, dissected by field drains. The eastern, western and southern site boundaries are formed by field drains. To the south and east, rural land is present and Taylor´s Drove lies immediately to the west. The northern boundary forms part of the piggery, which extends to the north. Residential properties are present beyond.
Geomorphic features	There was no evidence of erosion or mass movement on or near the site.

Item	Brief description
Present land use	The western portion of the site is occupied by an active piggery. Several buildings are present within the western portion of the site including large barns, comprising storage space with animal stalls, and smaller pig sty units. Some concrete bases are also present which form vehicle roadways and working yard areas and adjacent churned up and muddy ground associated with farm vehicle use is present. Tractors, trailers and other large agricultural vehicles were parked on site during the site walkover. Most of the buildings on site are made of concrete blocks or sheeted metal. Some have steel beams present within the rooves. Several of the pig sty units were noted to have sheeted cement asbestos roofing. A phase of demolition works appears to have taken place within the south-west of the site. Ruins of old pig sty units in a state of disrepair are present. Piles of earth with concrete and brick and heaps of straw and mud are visible on site. A pile of asbestos sheeting is present. This seems to be the remains of the roofing materials from the ruins of the pig sty units that have been partly demolished on site. Above-ground tanks, silos and containers are located within the piggery. These appear to be used for the storage of liquid fertiliser, water and animal feed (typically grain or corn). The potential for previous fuel storage in some of the tanks and containers cannot be ruled out. Silage and animal waste is also likely to have been stored on site. A diesel tank is present within the piggery to the north of the site. This tank appeared to be double-bunded during the site walkover and no spills were observed. A small lined lagoon, presumably for surface water disposal, is present at the south-west of the site, south of the piggery. An area of land, adjacent to the lagoon was defined by the farmer as where pigs were historically buried on site before the mid-1980s. Two soakaways are present in the west of the site. The eastern portion of the site is occupied by paddocks, which are bound by trees and wooden post and wire fencing. A small, lined pond (which was noted to be dry during the site walkover) is present in the east of the site and several large trees. This area of the site is currently used for grazing sheep, goats and horses.
Vegetation	Grazing areas and large trees are present at the east of the site. Some of this vegetation is overgrown. No invasive weeds were noted to be present during the site walkover.
Evidence of contamination	Several of the pig sty units have sheeted cement asbestos roofing and a pile of asbestos sheeting is present on site. Heaps of construction rubble, which could potentially contain asbestos-containing materials are also present. The potential for previous fuel storage on site could have taken place in the past, though no evidence of this was noted during the site walkover. A diesel tank within the piggery to the north of the site is present. There is also the potential for spills from agricultural vehicles and machinery to have taken place on site. No slurry or silage was noted on site, though the possibility of previous spills can also not be ruled out.
Surrounding land	The site lies at the west of the village of Sutton St James and the surrounding land is predominantly rural area dominated by agricultural use.

2.3 Site History

Detailed maps and aerial photographs of the site and surrounding area, dated 1887 to 2017 (at scales of 1: 2,500, 1: 10,000 and 1: 10,560), provided as part of the Envirocheck Report for the site, have been reviewed. This has been undertaken to identify any former land uses at the site and within the surrounding area that may have geotechnical or geo-environmental implications for the proposed development. The findings are summarised below in Table 2.3. Google Earth and other sources of publicly available information have also been reviewed to support this assessment.

Table 2.3: Key Features from Historical Mapping

Map date and Scale	Key on-site features	Key off-site features
1887 to 1888 (1: 2,500 and 1: 10,560)	No buildings were present. The site was occupied by rural, undeveloped land.	Sutton St James (corn) mill was labelled immediately to the north and west of the site. Rose Cottage was labelled immediately north. The village of Sutton St James was shown and included a series of residential properties. Chapelgate to the north was labelled. A church, vicarage and bell tower were labelled 250m east. The surrounding area was occupied by rural, undeveloped land, farms and some small areas of woodland. Many field drains are labelled, one of which formed the western site boundary.
1904 to 1905 (1: 2,500 and 1: 10,560)	No changes were noted.	Rose Cottage was no longer labelled. Additional residential properties had been constructed in Sutton St James and allotment gardens were labelled 100m north-east.
1952 to 1958 (1: 10,560 and 1: 10,000)	No changes were noted.	The Mill to the north and west was labelled as disused. Residential properties including Avalon and Havencombe had been constructed immediately north on Chapelgate. Additional properties had been constructed to the west, north and north-east within Sutton St James.
1975 to 1979 (1: 2,500 and 1: 10,000)	By 1975, a piggery (with five barn buildings and yards) had been constructed within the western portion of the site. Drains were shown on the eastern, western and southern site boundaries.	The piggery extended to the north off-site and was accessed via Chapelgate to the north-west. A pond was shown 50m east and a sewage works 200m east.
1991 to 1995 (1: 2,500)	Extension of the piggery took place in the early 1990s. The north-west, west, centre and south-west of the site was occupied by barn buildings and yards. The north-east, east and south-east areas remained as rural, undeveloped land.	Further residential expansion in Sutton St James had taken place. Residential properties were present immediately to the west on Taylor´s Drove. A garage was labelled 75m west. The remains of Sutton St James Mill were shown immediately west.
2000 aerial photograph	The piggery and associated buildings and yards occupied the west of the site. The eastern portion was occupied by paddocks and small water bodies (ponds) were visible.	The surrounding area was occupied by the village of Sutton St James and open rural land.
2000 to 2006 (1: 10,000)	No changes were noted.	No changes were noted in the surrounding area.
2017 (1: 10,000)	The east of the site remains as rural, undeveloped land but is divided into paddocks.	No changes were noted in surrounding area.

2.4 Unexploded Ordnance

In general accordance with the CIRIA report C681 (Stone *et al* 2009) a non-UXO specialist screening exercise has been carried out for the site. The Zetica UXB map (Lincolnshire) indicates that the site and immediate vicinity is in an area with a low bomb risk (further action to mitigate the risk is considered prudent by Zetica, although not essential). This is likely to be due to the location of the site in a rural area, and distance from obvious targets including large towns, cities, water courses or heavy industries. A copy of the map is presented in Appendix D.

2.5 Geology

Made Ground is anticipated to be present across the site, associated with the use of the site as a piggery, since the early 1970s.

The British Geological Survey (BGS) indicates that the site is underlain by Tidal Flat Deposits (Superficial Deposits). This stratum typically comprises beach deposits of shingle, Sand, Silt and Clay and was formed up to two million years ago during the Quaternary period.

The upper bedrock at the site is the West Walton Formation. This stratum is variable and contains calcareous Mudstones, silty Mudstone and Siltstone with fine-grained Sandstones and argillaceous Limestone (cementstone) or Siltstone nodules. Typically, the stratum comprises dark grey, silty Mudstone with pale grey Mudstone and occasional Limestone bands. The stratum is typically 15m thick, although the thickness on site is anticipated to be less, due to the proximity of the outcropping Ampthill Clay Formation, which formers the deeper bedrock at the site, immediately to the east. The Ampthill Clay Formation is a mainly smooth or slightly silty, pale to medium grey Mudstone, with argillaceous Limestone (cementstone) nodules. The deeper bedrock was formed approximately 156 to 161 million years ago during the Jurassic period, in an environment dominated by shallow seas.

No BGS boreholes records (containing publically obtainable information) are available within 2km of the site.

2.6 Mining and Mineral Extraction

The site is not present within an area affected by coal mining and there are no BGS Recorded Mineral Sites within 2km.

2.7 Ground Stability

The potential ground stability hazards associated with the geology at the site, as outlined in the Envirocheck Report, have been summarised below:

- Collapsible Ground – No Hazard
- Compressible Ground – Moderate
- Ground Dissolution – No Hazard
- Landslide Ground Instability – Very Low
- Running Sand – Moderate

- Shrinking or Swelling Clay – Low

2.8 Soil Chemistry

A review of the BGS soil chemistry, included within the Envirocheck Report, has undertaken and is summarised in Table 2.4.

Table 2.4 Soil Chemistry

Soil Chemistry	Average Concentrations (mg/kg)
Arsenic	15 to 25 mg/kg
Cadmium	>1.8 mg/kg
Chromium	60 to 90 mg/kg (this is likely to relate to the presence of Clays on site which can have naturally has elevated chromium concentrations)
Lead	<100 mg/kg
Nickel	15 to 30 mg/kg

2.9 Radon

The Indicative Atlas of Radon for England and Wales and the Envirocheck Report indicate the site is in a lower probability radon area (where less than 1% of the homes are estimated to be at or above the Action Level). Consequently, the BGS and the Building Research Establishment Radon Guidance Document indicate that no radon protection for buildings are required in this area.

2.10 Hydrogeology

The site is listed within the Envirocheck Report as being underlain by Unproductive Strata of negligible permeability, which relates to both the Superficial Deposits and the underlying bedrock (both the West Walton Formation and the Ampthill Clay Formation). The underlying strata are classified as Non-Aquifers.

The site is not within a Source Protection Zone (SPZ) and there are no SPZs within 2km. There are no licensed groundwater abstractions within 2km of the site.

2.11 Hydrology and Flood Risk

Due to the presence of Unproductive Strata beneath the site, the site and the immediate vicinity is drained via a large network of culverts, streams and field drains. The closest surface water features to the site are listed on site and relate to field drains on the eastern, western and southern site boundaries. The drains form part of the wider drainage network.

The site is listed as being at risk of flooding from rivers or seas without defences (Zone 3). Portions of the site have a medium risk (100-year return) for flooding from surface water. The site is not at risk from groundwater flooding. No further consideration of flood risk is undertaken in this report. Specialist flood risk advice should be sought with regards to drainage and flooding.

There are no discharge consents for the site. There are five discharge consents listed between 20m and 100m from the site boundary. These consents relate to discharges from domestic properties on Chapelgate onto land and into a freshwater stream or river. The sewage treatment works at Baulkins Drove and Chapelgate, operated by South Holland District Council, is located 226m to the east of the site. An active discharge consent for

the site was held between 1970 and 1992 for the discharge of sewage discharges comprising final and treated effluent into a freshwater stream / river. Additional consents relating to residential properties are listed between 130m and 500m from the site.

There has been no pollution to controlled waters events recorded within 250m. The closest incident recorded to the site relates to a minor incident (Category 3) that occurred due to poor and inadequate maintenance relating to sewage. Septic tank effluent was discharged into a freshwater stream / river in 1999. Six further minor incidents are recorded to have taken place within 1km.

One substantial pollution incident, involving grey water (related to sewage) took place in 2009, at a site 442m to the east. The impact to water was classified as a significant incident (Category 2) and the impact to air and land was a minor incident (Category 3).

There are no surface water abstractions within 2km of the site.

2.12 Waste Management and Hazardous Substances

There are no current landfill sites or waste transfer sites registered within 2km. There are two historic landfill sites recorded as being present 265m and 278m to the south-west of the site. These sites were known as Birds Drove Corner and Holly Tree House at Manor Farm and were used for the disposal of household waste. No further information relating to these historic landfills is provided within the Envirocheck Report or on the Environment Agency website. It is considered that they are very old sites with a very limited potential to impact the site.

There are no records relating to the storage of radioactive materials, explosive sites and no planning hazardous substance enforcements within 2km of the site.

One planning hazardous substance consent is registered to Banks Odam Dennick Ltd on Chapelgate, 269m to the north-east of the site. A maximum quantity of 1500 tonnes of ammonium nitrate and mixtures of this substance are registered for use. It is considered highly reactive and explosive, where amounts greater than or equal to 500 tonnes are held. The application for the use of this substance was dated 24th November 1992.

Two sites of potentially infilled land (water) are present 462m and 512m east of the site. They are listed as unknown filled ground (pond, marsh, river stream) and are dated 1958.

2.13 Contemporary Trade Directories

The closest contemporary trade directory to the site is an active entry which relates to road haulage services, located 312m from the site. No further active entries are listed within 1km. An active fuel station, Garners Garage is listed 443m to the north-east on Chapelgate.

2.14 Local Authority Supporting Information

The site was identified with the South-East Lincolnshire Local Plan as a potential site for new homes. The emerging Local Plan seeks the development of approximately 80 residential dwellings within Sutton St James by 2036. The site is identified as Suggested Site 12. The site is considered to relate well to the village because there is development to the west, on the opposite side of Taylor's Drove as well as frontage development on Chapelgate to the north. Access provision is flagged as a potential difficulty and the wastewater and foul network capacity are noted to require upgrading. The flood risk for the site is noted to be the highest at all the potential development sites within Sutton St James.

Discussions with the Environmental Health Department at South Holland District Council have been undertaken relating to the proposed redevelopment of the site. No detailed information relating to the site is available and there are no records of complaints made against the site. The Environmental Health Officer will review the scope of works for the ground investigation (later recommended in Section 5.2) ahead of commencement to ensure that the scope of works is considered sufficient to support the planning application for the site and discharge the planning condition related to contaminated land.

3.0 PRELIMINARY RISK ASSESSMENT AND EXPOSURE MODEL

A Conceptual Model represents the possible relationships between potential contaminant sources, pathways and receptors in line with the Statutory Guidance to Part 2a of the Environmental Protection Act 1990. The following Preliminary Risk Assessment is based on the results of the Desk Study and the site walkover.

3.1 Potential Contamination Sources and Contaminants of Concern

The potential off-site source of contamination with the potential to impact the site is:

- The presence of a diesel tank within the piggery (which extends to the north of the site). However, this tank did appear to be double-bunded during the site walkover and no evidence of spills was observed. The potential contaminants of concern are hydrocarbons (TPH and fuel).

The potential contaminant sources identified at the site are outlined below:

- Likely presence of Made Ground associated with the historic and current use of the site as a piggery. The potential contaminants of concern include: heavy metals, asbestos, hydrocarbons (PAHs, TPH, fuel and lubricant oils), pathogens, nutrient-rich soils, acidity, elevated sulphate and ground gas (methane and carbon dioxide). Due to the anticipated limited thickness of Made Ground at the site due to the relatively short development history (since the early 1970s), the potential for the Made Ground to generate significant quantities of ground gas is considered low;
- The use and parking of agricultural machinery and vehicles, the storage of fuel and other chemicals including fertilisers, pesticides and animal waste (silage). Potential contaminants of concern include: heavy metals, hydrocarbons (PAH, TPH, fuel and lubricant oils), slurry with a high organic and nutrient content (nitrogen and nitrates, potassium, phosphorous, pathogens (E.coli, clostridium perfringens and enterococcus) and high biological oxygen demand;
- Several of the pig sty units have sheeted cement asbestos roofing. Piles of asbestos sheeting are also present on site. Asbestos containing materials within the existing fabric of the site buildings (roofing materials and possibly pipe lagging) could also be present. Heaps of construction rubble, which could also potentially contain asbestos-containing materials were also present; and
- Historical burial of pigs on site (before the mid-1980s). Potential concerns include pathogens including bacteria and pathogens (including salmonella, anthrax, foot and mouth and E.coli). Liquids associated with decomposing carcasses and bad odours are also potential problems associated with the burial of livestock.

3.2 Potential Pathways

The potential pathways identified for the site include the following:

- Direct human contact
- Inhalation
- Ingestion
- Direct contact with aggressive ground conditions

- Leaching and migration via groundwater and surface water (culverts, streams and field drains).
- Migration of ground gas via permeable soils (Made Ground is present)

3.3 Potential Receptors

The potential receptors identified for the site include the following:

- Site end users
- Ground workers (construction and future maintenance workers)
- Building materials (buried concrete and underground services)
- Controlled waters: Surface water (culverts, streams and field drains).

3.4 Summary of Potential Contaminant Linkages

Table 3.2 lists the plausible contaminant linkages identified for the site. These are considered as potentially unacceptable risks in line with guidelines published in CLR 11, and additional risk assessment may be required. Linkages have been assessed in general accordance with guidance provided in the CIRIA Report C552 (Rudland *et al* 2001) but with the addition of a 'no linkage' category as detailed in Table 3.1.

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to ground workers (construction and future maintenance workers), consideration of occupational health and safety issues is beyond the scope of this report and needs to be considered separately in the Construction Phase Health and Safety Plan.

Table 3.1: Risk Assessment Process

		Consequence			
Probability	*Product*	**Severe**	**Medium**	**Mild**	**Minor**
	High Likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Very low risk
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk
	No Linkage	No risk			

Table 3.2: Preliminary Exposure Model – Source Pathway Receptor Contaminant Linkages

Source(s)	Possible Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
Diesel tank within the piggery (which extends to the north of the site) COC: hydrocarbons (TPH and fuel).	Direct human contact Inhalation Ingestion Leaching and migration via groundwater and surface water	Site end users Ground workers Building materials Controlled waters: Groundwater and surface water	Low Likelihood	Mild	Low	The tank is located off-site to the north. It appeared to be double-bunded during the site walkover and no evidence of spills was observed. Testing for contaminants should be undertaken as part of a ground investigation to establish the presence or absence of potential contaminated soils. The proposed development will comprise building footprints, hard standing and soft landscaping areas. Building footprints and hard standing will provide a barrier between the future site users and any residual contamination found to be present in the shallow site soils. A potential exposure pathway could exist in soft landscaping areas. It is considered that the risks to ground workers will be mitigated through appropriate Health & Safety precautions, including dust suppression during the demolition and construction phases. Leaching and run-off to controlled waters will be limited in the final development. Run-off will be mitigated as part of the drainage design for the site. Soakaway drainage is not viable due to the negligible permeability of the underlying geology at the site.

Source(s)	Possible Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
Made Ground associated with the historic and current use of the site as a piggery COC: heavy metals, asbestos, hydrocarbons (PAHs, TPH, fuel and lubricant oils), pathogens, nutrient-rich soils, acidity, elevated sulphate and ground gas (methane and carbon dioxide).	Direct human contact Inhalation Ingestion Direct contact with aggressive ground conditions Leaching and migration via groundwater and surface water Migration of ground gas via permeable soils	Site end users Ground workers Building materials Controlled waters: Groundwater and surface water	Low Likelihood	Medium	Low	The Made Ground present across the site is likely to have been impacted by the agricultural operations that have taken place at the site over the last 40 to 50 years. Due to the negligible permeability of the underlying strata, it is unlikely that the soils are not grossly impacted, though some impact from operations, particularly animal waste with a high organic and nutrient content, is likely. There is also the potential for asbestos within the shallow soils due to the widespread presence of this contaminant across the site. Testing for contaminants should be undertaken as part of a ground investigation to establish the presence or absence of potential contaminated soils. It is anticipated that the thickness of Made Ground will be limited due to relatively short development history (since the early 1970s). No gross or widespread contamination is anticipated at the site. Consequently, the potential for the Made Ground to generate significant quantities of ground gas is low. The proposed development will comprise building footprints, hard standing and soft landscaping areas. Building footprints and hard standing will provide a barrier between the future site users and any residual contamination found to be present in the shallow site soils. A potential exposure pathway could exist in soft landscaping areas. It is considered that the risks to ground workers will be mitigated through appropriate Health & Safety precautions, including dust suppression during the demolition and construction phases. Leaching and run-off to controlled waters will be limited. Run-off will be mitigated as part of the drainage design for the site. Soakaway drainage is not viable due to the negligible permeability of the underlying geology at the site.

Source(s)	Possible Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
Use and parking of agricultural machinery and vehicles, storage of fuel and other chemicals including fertilisers, pesticides and animal waste (silage). COC: heavy metals, hydrocarbons (PAH, TPH, fuel and lubricant oils), slurry with a high organic and nutrient content (nitrogen and nitrates, potassium, phosphorous, pathogens (E.coli, clostridium perfringens and enterococcus) and high biological oxygen demand.	Direct human contact Inhalation Ingestion Leaching and migration via groundwater and surface water	Site end users Ground workers Controlled waters: Groundwater and surface water	Low Likelihood	Medium	Low	No evidence of spillages or bad practice was observed during the site walkover. However, it is likely that spillages have taken place since the early 1970s and that the shallow soils at the site and consequently impacted, particularly by animal waste (silage). Testing for contaminants should be undertaken as part of a ground investigation to establish the presence or absence of potential contaminated soils. The proposed development will comprise building footprints, hard standing and soft landscaping areas. Building footprints and hard standing will provide a barrier between the future site users and any residual contamination found to be present in the shallow site soils. A potential exposure pathway could exist in soft landscaping areas. It is considered that the risks to ground workers will be mitigated through appropriate Health & Safety precautions, including dust suppression during the demolition and construction phases. Leaching and run-off to controlled waters will be limited. Run-off will be mitigated as part of the drainage design for the site. Soakaway drainage is not viable due to the negligible permeability of the underlying geology at the site.
Sheeted cement asbestos roofing on several of the pig sty units and piles of asbestos sheeting. Asbestos containing materials within the existing fabric of the site buildings and heaps of construction rubble could be present.	Inhalation	Site end users Ground workers	Low Likelihood	Severe	Moderate	Several of the pig sty units have sheeted cement asbestos roofing and a pile of asbestos sheeting is present on site. Heaps of construction rubble, which could potentially contain asbestos-containing materials are also present. It is recommended that an asbestos survey is undertaken of the existing buildings. A specialist asbestos contractor should also be employed to remove the existing asbestos and asbestos-containing materials from the site to minimise the risk of these materials being broken-up and impacting human health.

Source(s)	Possible Pathway(s)	Receptor(s)	Probability	Consequence	Risk	Comments
Historical burial of pigs on site (before the mid-1980s). COC: pathogens including bacteria and pathogens (including salmonella, anthrax, foot and mouth and E.coli), liquids associated with decomposing carcasses and bad odours.	Direct human contact Ingestion Leaching and migration via groundwater and surface water	Site end users Ground workers Controlled waters: Groundwater and surface water	Unlikely	Medium	Very Low	An area of land, adjacent to the lagoon was defined by the farmer as where pigs were historically buried on site before the mid-1980s. The farmer has indicated that no burials have taken place since and therefore the carcasses should have fully decomposed. However, there is a risk that additional burials have taken place unofficially and that potential risks from bacteria and pathogens and liquids associated with decomposing carcasses and bad odours could exist. The proposed development will comprise building footprints, hard standing and soft landscaping areas. Building footprints and hard standing will provide a barrier between the future site users and any residual contamination found to be present in the shallow site soils. A potential exposure pathway could exist in soft landscaping areas. It is considered that the risks to ground workers will be mitigated through appropriate Health & Safety precautions, including dust suppression during the demolition and construction phases. Leaching and run-off to controlled waters will be limited. Run-off will be mitigated as part of the drainage design for the site. Soakaway drainage is not viable due to the negligible permeability of the underlying geology at the site.

4.0 GEOTECHNICAL HAZARD IDENTIFICATION

The Preliminary Ground Model has been used to develop a list of potential geotechnical hazards to inform the required scope of intrusive investigation works. The geotechnical hazards are listed below:

- Excessive settlement (creep and inundation settlement or differential settlement of foundations from potential Made Ground);
- Attack of buried concrete by aggressive ground conditions; and
- Moderate risk of compressible ground and running sands associated with the underlying geology.

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Risk Evaluation

Based on historic land uses and its current operational use, the overall risk from land contamination at the site is **Low to Moderate**, but would need to be confirmed by appropriate intrusive investigation, testing and assessment.

It is considered that it is unlikely that the site would be classified as Contaminated Land under Part 2a of the EPA 1990.

Table 3.2 provides a summary of the geo-environmental risks identified and the overall risk associated with the site has been designated using qualitative judgement using the risk categories provided in Table 5.1.

Table 5.1: Assessed Overall Risk Categories for the Site from Land Contamination

Risk Category	Definition
Very High Risk	A significant contaminant linkage, including actual evidence of significant harm or significant possibility and significant harm, is clearly identifiable at the site (e.g. from visual or documentary evidence) under current conditions, with potential for legal and/or financial consequences for the site owner or other Responsible Person. Remediation advisable based on acute impacts being likely. Immediate action should be considered.
High Risk	A contaminant linkage is identifiable at the site under current and future use conditions. Although likely, there is no obvious actual evidence of significant harm or significant possibility and significant harm under current conditions. Extent of risk is therefore subject to confirmation by investigation and risk assessment, and most likely to be deemed significant. Realisation of the risk is likely to present a substantial liability to the site owner or other Responsible Person. Remediation required for redevelopment and may also be required under Part 2A for existing receptors.
Moderate Risk	A contaminant linkage is identifiable at the site under current and future use conditions. However, it is not likely to be a significant linkage under current conditions. It is either relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely, that the harm would be relatively mild. Actual extent of risk subject to confirmation by additional investigation and risk assessment and most likely to lie between no possibility of harm (under current conditions) and significant possibility of significant harm (under conditions created by new use). Remediation may be required for redevelopment.
Low Risk	Potential pathways and receptors exist but history of contaminative use or site conditions indicates that contamination is likely to be of limited extent and below the level of possibility of harm. It is unlikely that the site owner or other Responsible Person would face substantial liabilities from such a risk. Precautionary investigations and risk assessment advisable on change of use. Any subsequent remedial works are likely to be relatively limited.
Very Low Risk	No contaminant linkage likely to exist under current or future conditions, but this cannot be completely discounted. If harm is realised, it is likely at worst to be mild or minor. Site not capable of being determined under Part 2A (in accordance with PPS23) where the Local Authority inspects the site. No further action recommended.
No Risk	No contaminant linkage exists.

5.2 RECOMMENDATIONS FOR FURTHER WORK

To confirm the risks to receptors and confirm the ground conditions, with respect to potential geotechnical and geo-environmental risks, an appropriate intrusive ground investigation will need to be undertaken at the site. Based on the current available data, the investigation is anticipated to comprise:

- Dynamic (window) sampling to facilitate the collection of soil samples (for geotechnical and geo-environmental purposes) and allow in-situ testing (SPTs) to be undertaken to assess the density of the underlying soils to allow foundation design;
- Ground gas and groundwater monitoring wells to be installed on site and monitored;
- TRL Dynamic Cone Penetration tests to correlate to California Bearing Ratios for pavement design;
- Geotechnical testing of soils;
- Geo-environmental chemical (contamination) analyses of soil and groundwater to include a full and complex suite of contaminants including: heavy metals, asbestos, hydrocarbons (PAHs, TPH, fuel and lubricant oils), nutrient content (nitrogen and nitrates, potassium, phosphorous), pathogens (E.coli, clostridium perfringens and enterococcus), acidity, elevated sulphate and biological oxygen demand;
- It is recommended that an asbestos survey is undertaken of the existing buildings. A specialist asbestos contractor should also be employed to remove the asbestos and asbestos-containing materials present on site to minimise the risk of these materials being broken-up and impacting human health; and
- Continued liaison with the Environmental Health and the Contaminated Land Officers at South Holland District Council should be undertaken to obtain further information and to gain their approval of the proposed scope of works for the ground investigation.

6.0 REFERENCES

DEPARTMENT OF THE ENVIRONMENT. 1995. Industrial Profile. Animal and Animal Products Processing Works. Sponsored by Contaminated Land and Liabilities Division.

MILES, J. C. H., APPLETON, J. D., REES, D. M., GREEN, B. M. R., ADLAM. K. A. M. and MYRES. A. H. 2007. Indicative Atlas of Radon in England and Wales. Health Protection Agency and British Geological Survey. Report HPA-RPD-033.

RUDLAND, D. J., LANCEFIELD, R. M. and MAYELL, P. N. 2001. Contaminated land risk assessment. A guide to good practice. CIRIA Report C552. CIRIA, London. 158 pp.

SCIVYER, C. 2007. Radon: Guidance on protective measures for new buildings, extensions, conversions and refurbishment (2007 edition). Building Research Establishment Report BR 211. BRE, Garston.

STONE, K., MURRAY, A., COOKE, S., FORAN, J. and GOODERHAM, L. 2009. Unexploded ordnance (UXO), a guide to the construction industry. CIRIA Report C681. CIRIA, London. 141 pp.

APPENDICES

Appendix A DRAWINGS

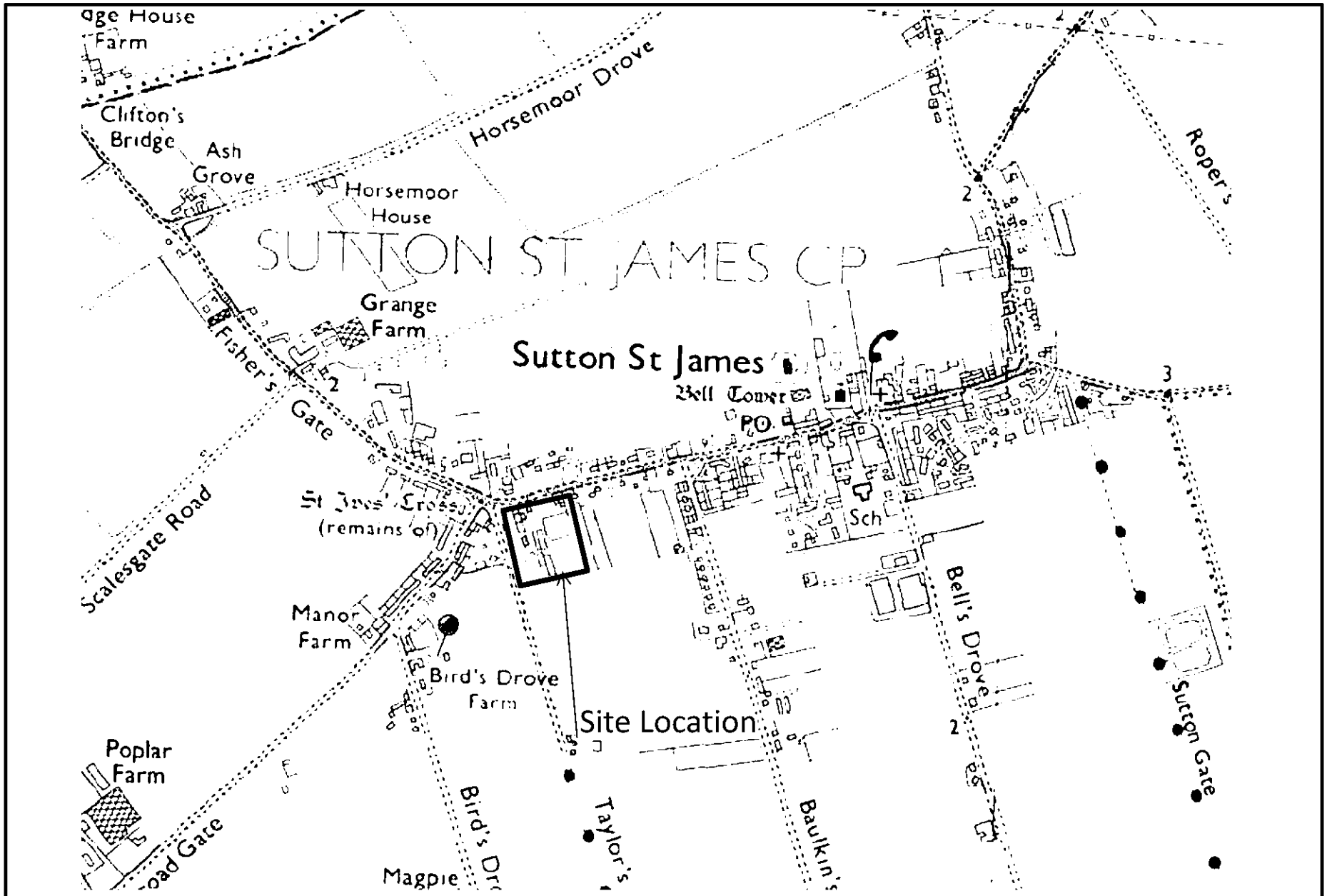
Appendix B SITE WALKOVER PHOTOGRAPHS

Appendix C DESK STUDY RESEARCH INFORMATION

Appendix D ZETICA UXB MAP

Appendix A

DRAWINGS



[redacted]	Sutton St James Site location plan	Client- Kirk Homes Date- July 2017	North	Drawing- R17053-DWG1

General Notes

Do not scale from this drawing.

This drawing is copyright and may not be altered, traced, copied, photographed or used for any purpose other that that for which it is issued without written permission from Messrs Status Design.

The General Contractor is to check all dimensions on site and report discrepancies to the Architect.

All details shown on this drawing are based upon typical site conditions related to the area. No responsibility can be accepted for abnormal conditions unless reported to the Architects so that design amendments may be considered. Site soil surveys are recommended in respect of foundations to establish specific site conditions before foundation work is undertaken.

Please note this drawing is not a conveyance drawing.

Proposed on-site roadways to be maintained by the owner for the life duration of the property.

This drawing is limited in the amount of information contained and does not purport to contain a full specification of the works. It is solely for the purpose of obtaining Planning and Building Regulations approvals. This drawing must not be used as a contract document alone. The works will not be supervised or inspected by Status Design unless specifically contracted to do so. It is the client or their agent's responsibility to control workmanship, substitution of materials, adherence to specification, variations to contract, etc.

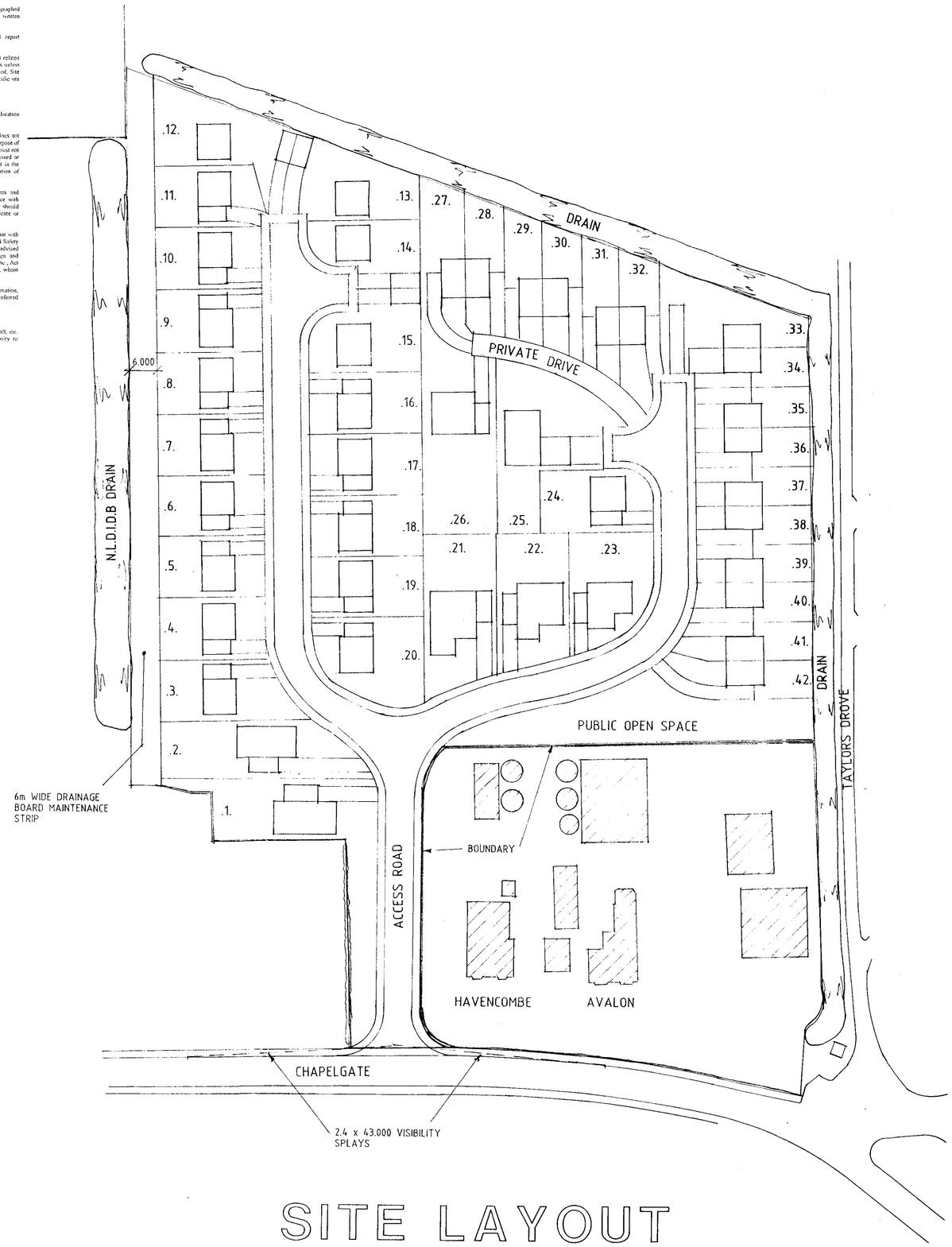
All materials to be new unless stated otherwise and all components and materials, etc to be used, fitted and installed, etc. in strict accordance with manufacturers' instructions and relevant Code of Practise. Materials should conform to appropriate British Standard specification or BBA Certificate or European Code equivalent.

The Employer/Client shall ensure that the selected contractor is conversant with and adopts all measures necessary to achieve compliance with Health and Safety Legislation for Building Sites and Work Places. The Employer-Client is advised that should the works need to comply with the Construction Design and Management Regulations 1994 (CDM) and Health and Safety at Work, etc., Act 1974 (HSW Act) an independent Planning Supervisor will be required, whom should be supplied with a set of all relevant drawings, etc.

The works shall comprise of all that shown on the drawings and information, etc. Works that may not specifically be shown but may be reasonably inferred as necessary to carry out the works shall be deemed to be included.

These notes relate to this drawing and all associated drawings

It is the property/landowner's responsibility to be aware of the Party Wall, etc. Act 1996 when building or carrying out alterations in close proximity to adjoining neighbour's boundaries



SITE LAYOUT

THIS DRG. TO BE READ IN CONJUNCTION WITH 37815/02

NOTE

THIS IS AN INDICATIVE LAYOUT ONLY

DWELLINGS

PLOTS 1 & 2 TO BE BUNGALOWS

PLOTS 3 TO 42 TO BE HOUSES

AMENDED PLAN
Prof. A2

Development
13 JAN 2016
Ref 0254-16

B - ALTS - 30.11.16
A - ALTS - 16.3.16

Status DESIGN
CONSULTANTS IN ARCHITECTURE & PLANNING

PROPOSED RESIDENTIAL TO THE REAR OF HAVENCOMBE, CHAPELGATE, SUTTON ST. JAMES FOR

MR. & MRS. P. HEANES.

INDICATIVE SITE PLAN

1:500 | SD15-040/1

FEB-16 | B.GILHAM.

2 Edinburgh Walk, Holbeach, Spalding, Lincs PE12 7AP
Tel: 01406 424343 Fax: 01406 490702

Appendix B

SITE WALKOVER PHOTOGRAPHS



Figure 1: View of animals grazing in eastern portion of the site



Figure 2: View of piggery looking south



Figure 3: View of agricultural vehicles and machinery parked on site



Figure 4: View of lagoon in the south west corner of the site



Figure 5: Piled sheeted asbestos roofing materials



Figure 6: Roof sheeting on pig sty units on site

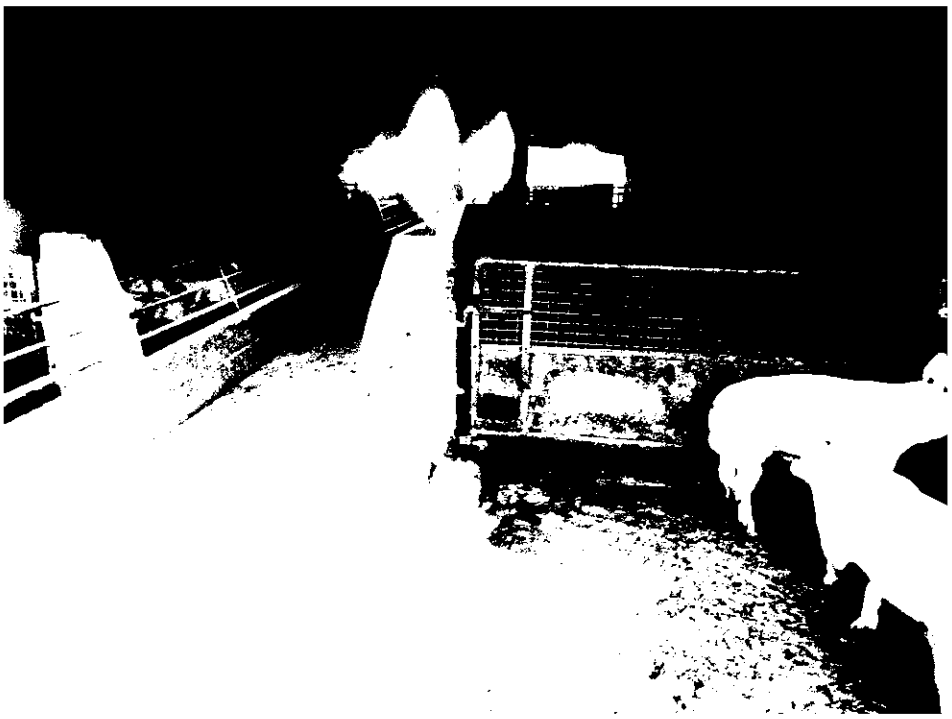


Figure 7: Pigs being kept on site



Figure 8: Visible asbestos roof sheeting on site



Figure 9: Demolished old pig sty units on site



Figure 10: Demolition materials and mud and straw heaped on site

Appendix C

DESK STUDY RESEARCH INFORMATION

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
	AMC	Ampthill Clay Formation	Mudstone	Oxfordian - Oxfordian

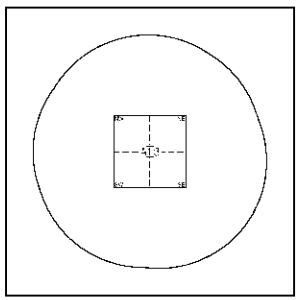
Geology 1:50,000 Maps

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: Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A

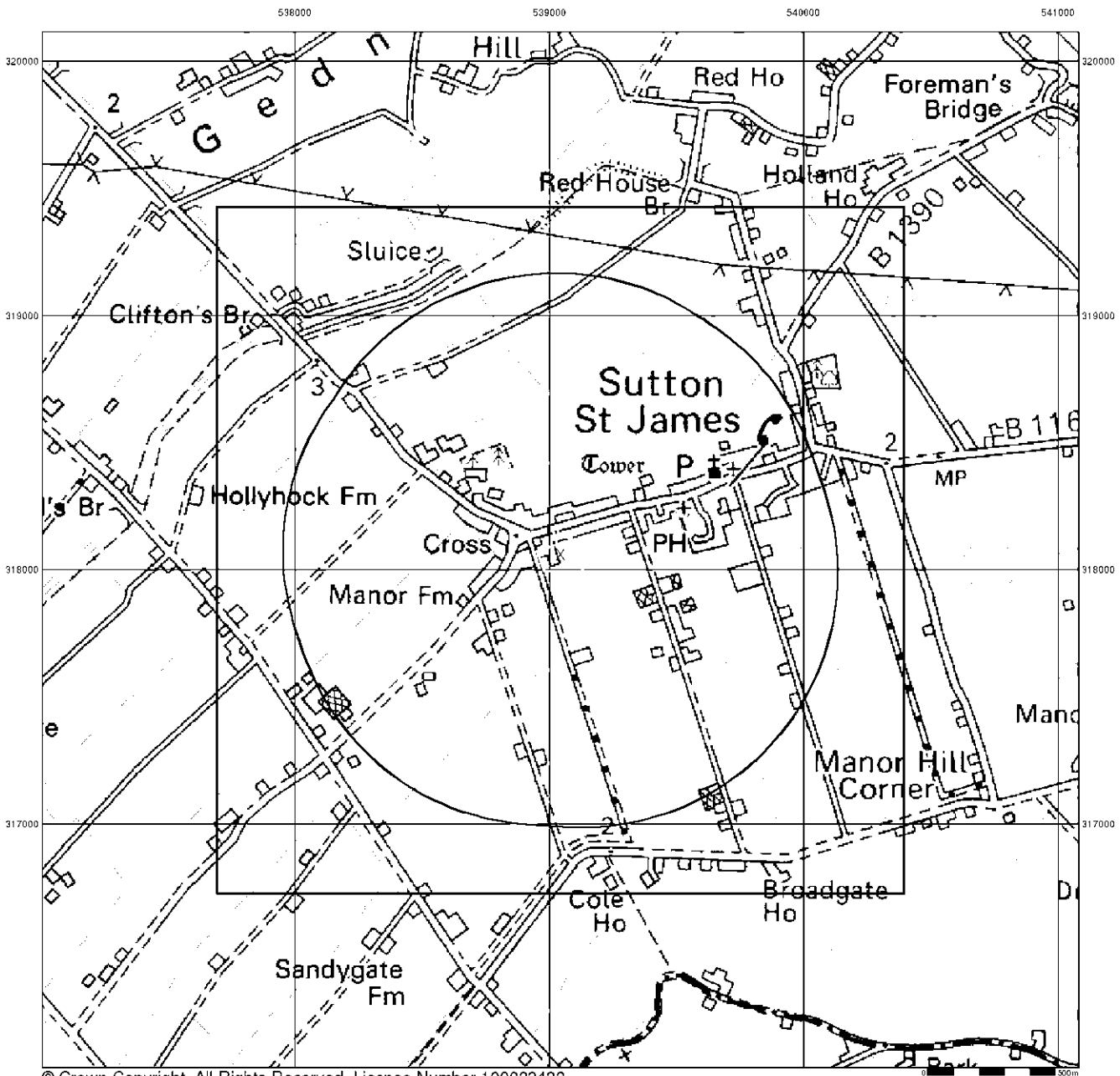


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National Grid Reference: 539040, 318060
Slice: A
Site Area (Ha): 1.79
Search Buffer (m): 1000

Site Details:

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF



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Artificial Ground and Landslip

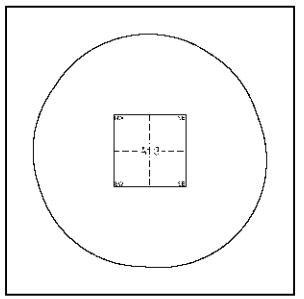
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



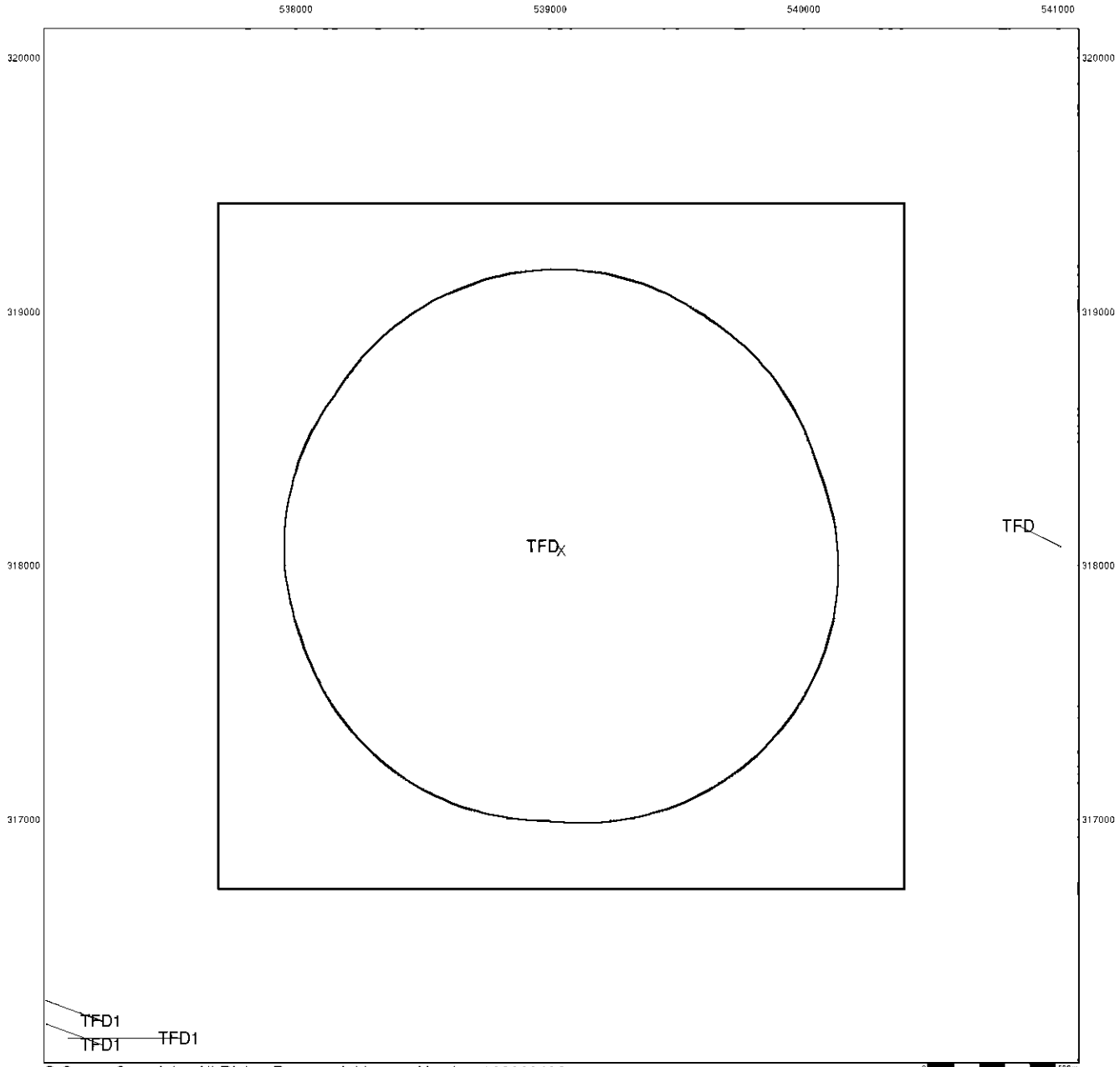
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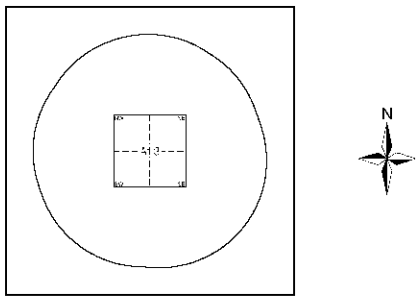
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



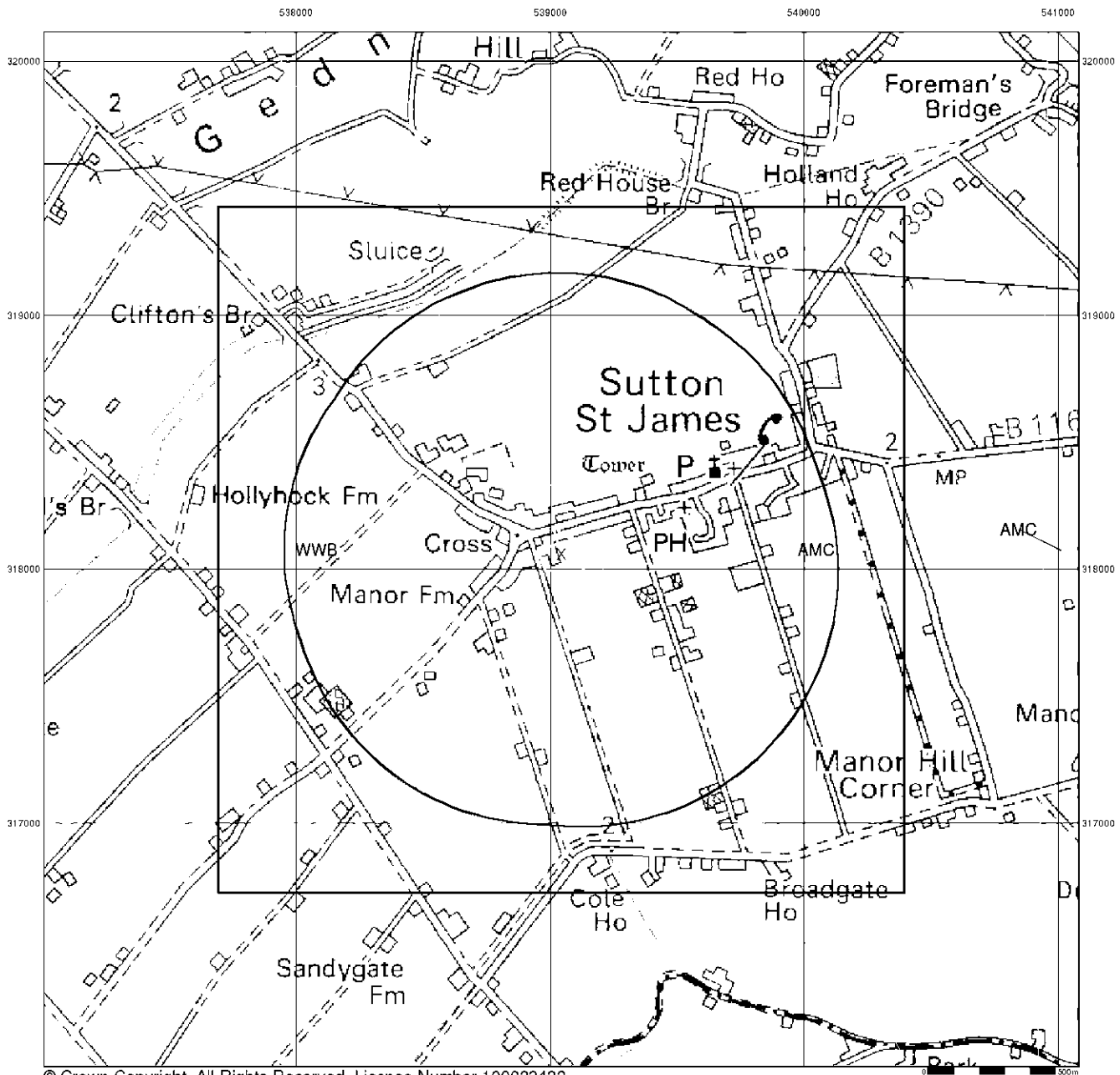
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Bedrock and Faults

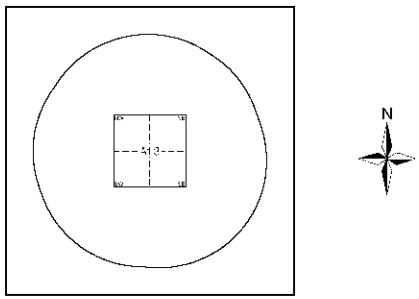
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



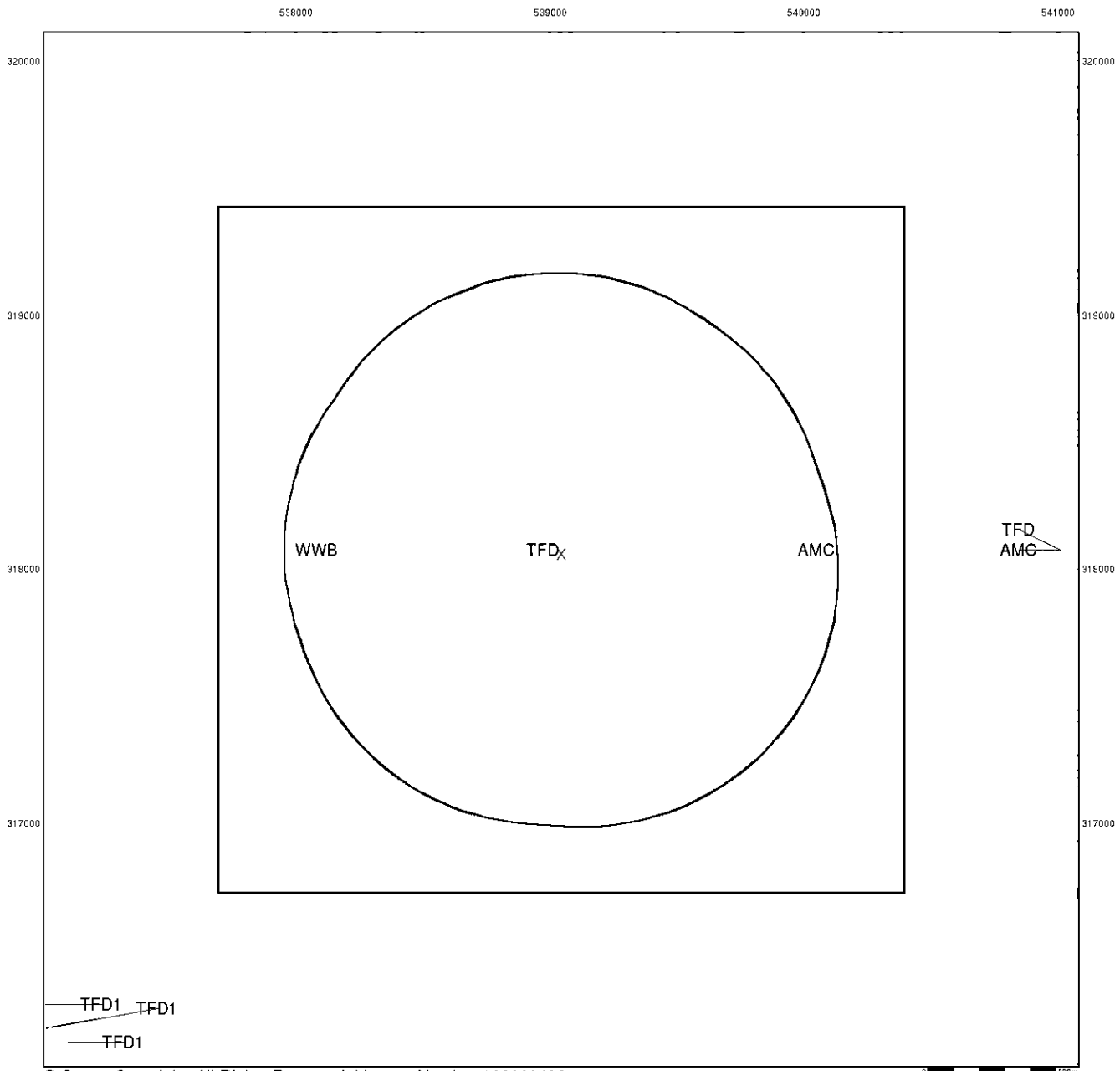
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Combined Surface Geology

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

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

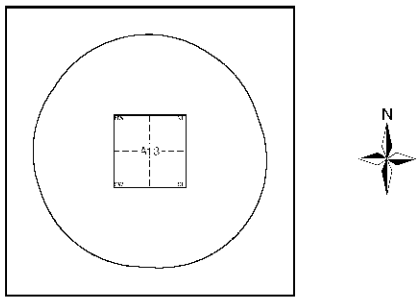
Additional Information

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

Contact

British Geological Survey
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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



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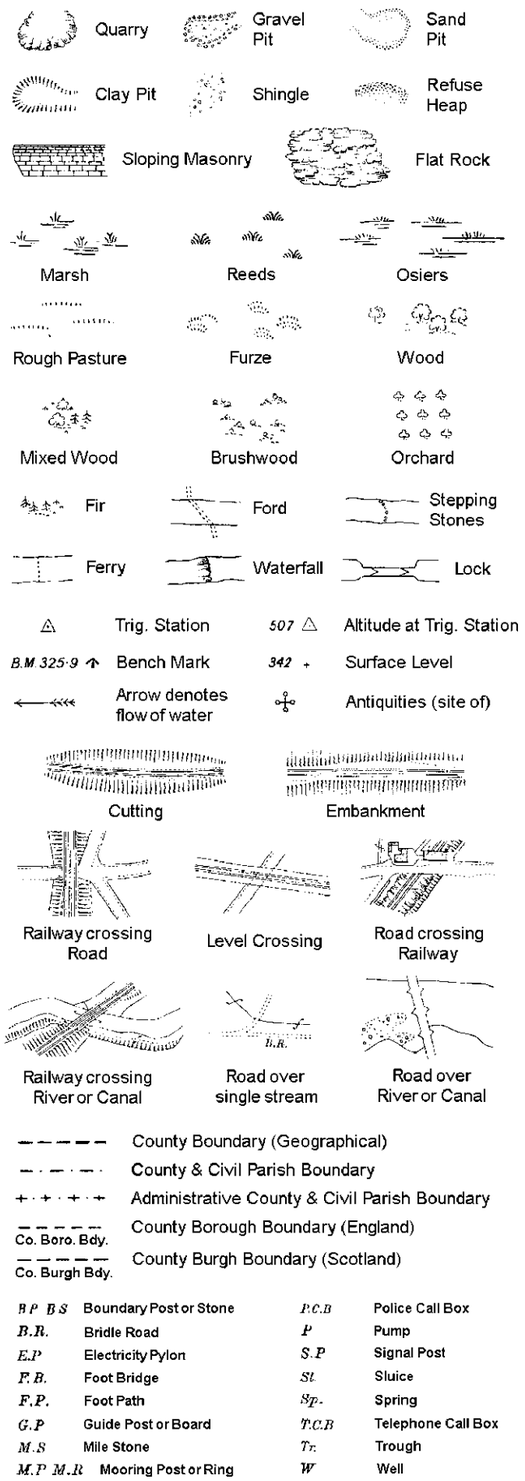
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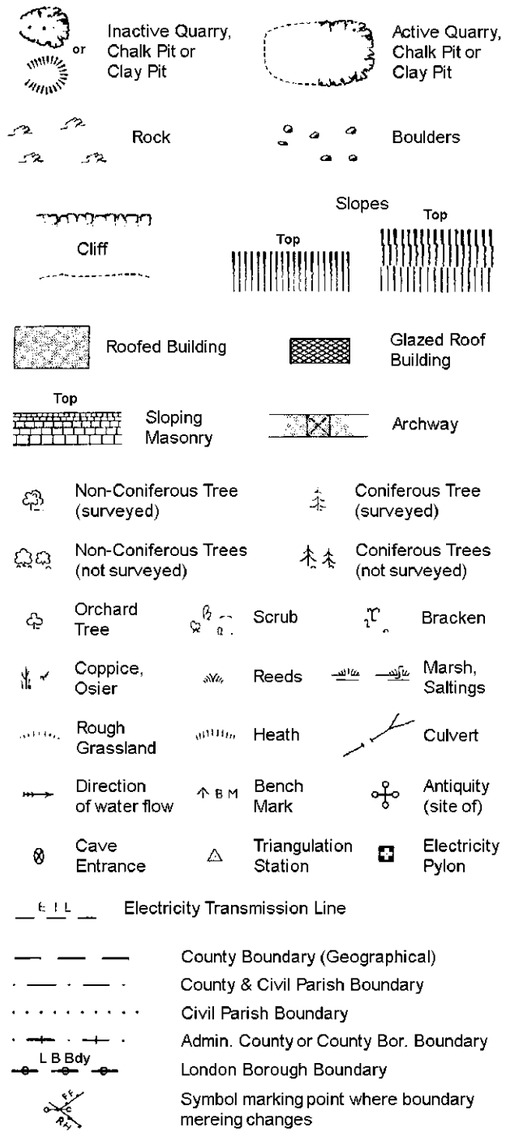
Historical Mapping Legends

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



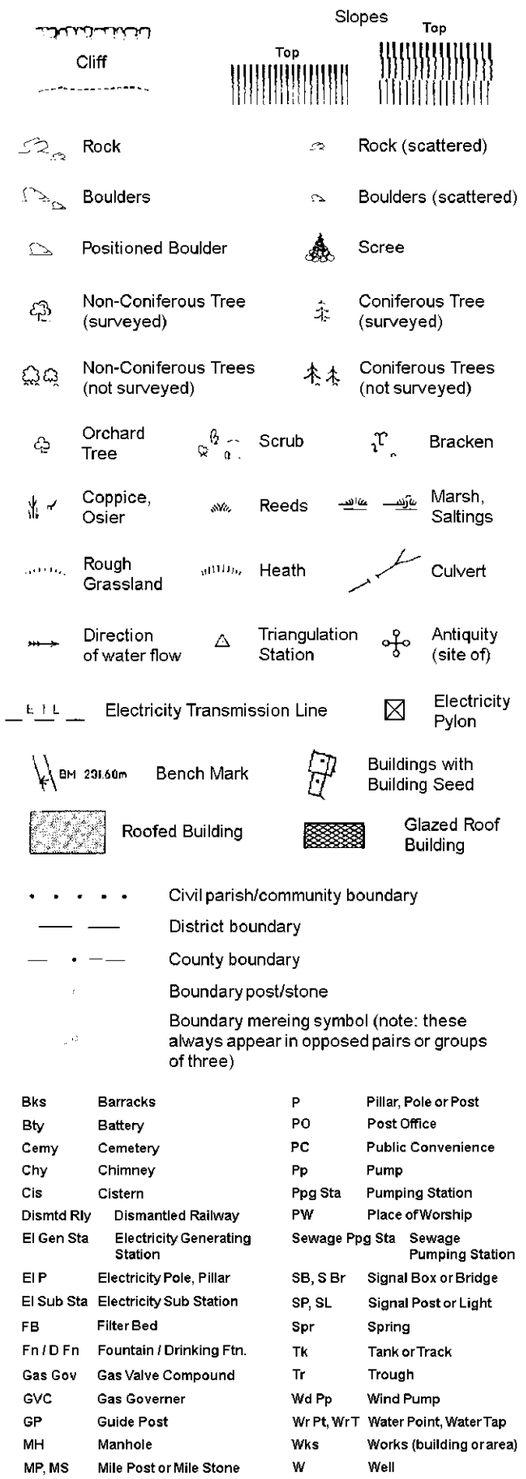
B.P B.S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



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

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

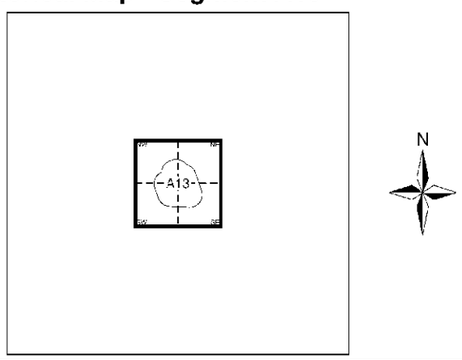


Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lincolnshire	1:2,500	1888	2
Lincolnshire	1:2,500	1904	3
Ordnance Survey Plan	1:2,500	1975	4
Additional SIMs	1:2,500	1991 - 1993	5
Large-Scale National Grid Data	1:2,500	1995	6
Historical Aerial Photography	1:2,500	2000	7

Historical Map - Segment A13



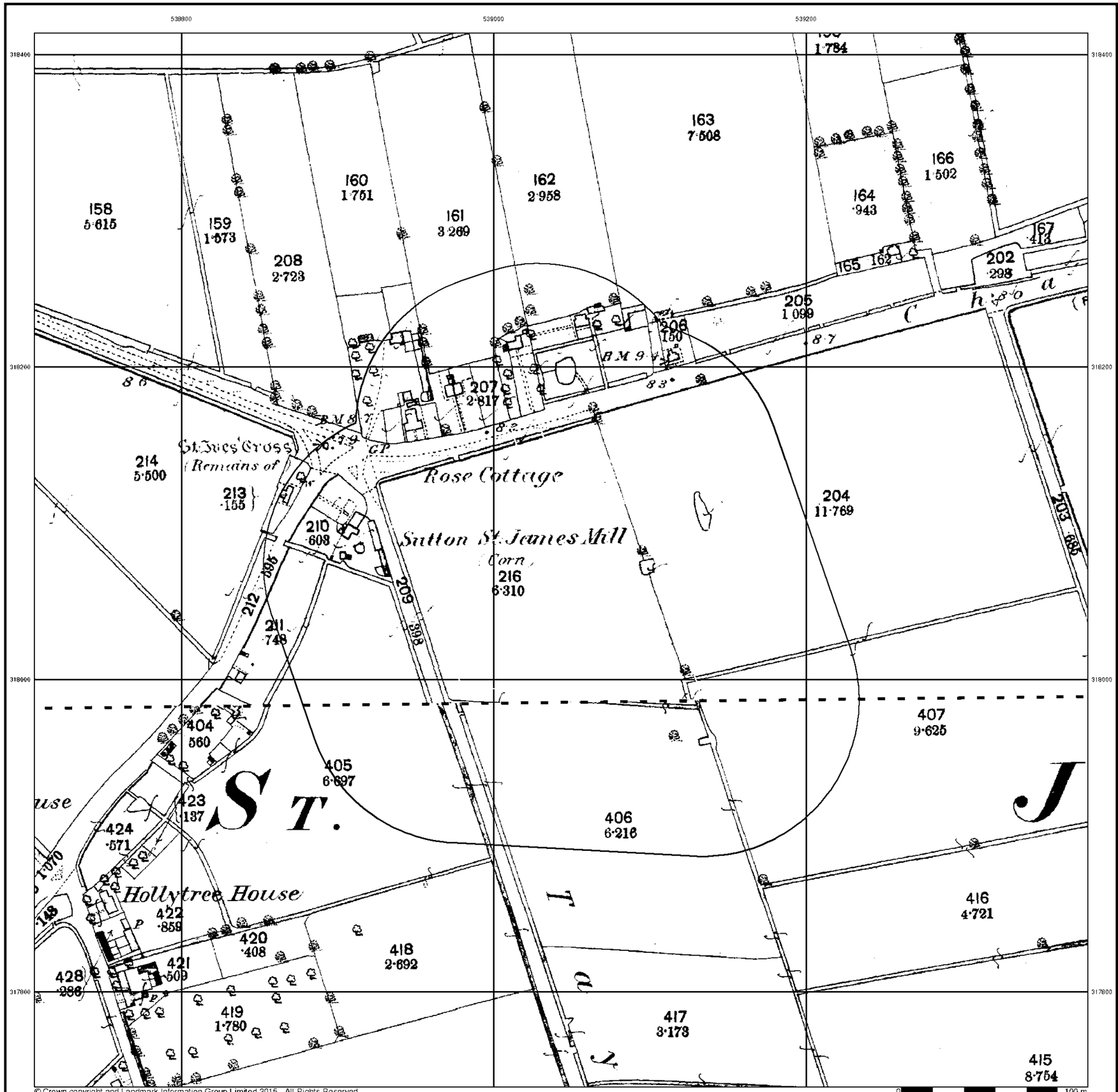
Order Details

Order Number: 129559767_1_1
Customer Ref: R17053
National Grid Reference: 539040, 318060
Slice: A
Site Area (Ha): 1.79
Search Buffer (m): 100

Site Details

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Lincolnshire

Published 1888

Source map scale - 1:2,500

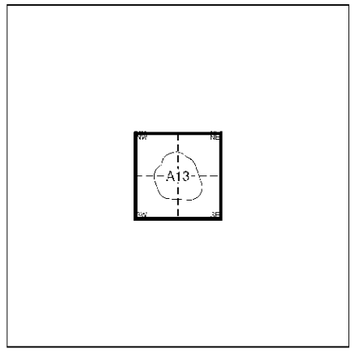
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

143_12
1888
1:2,500

143_16
1888
1:2,500

Historical Map - Segment A13



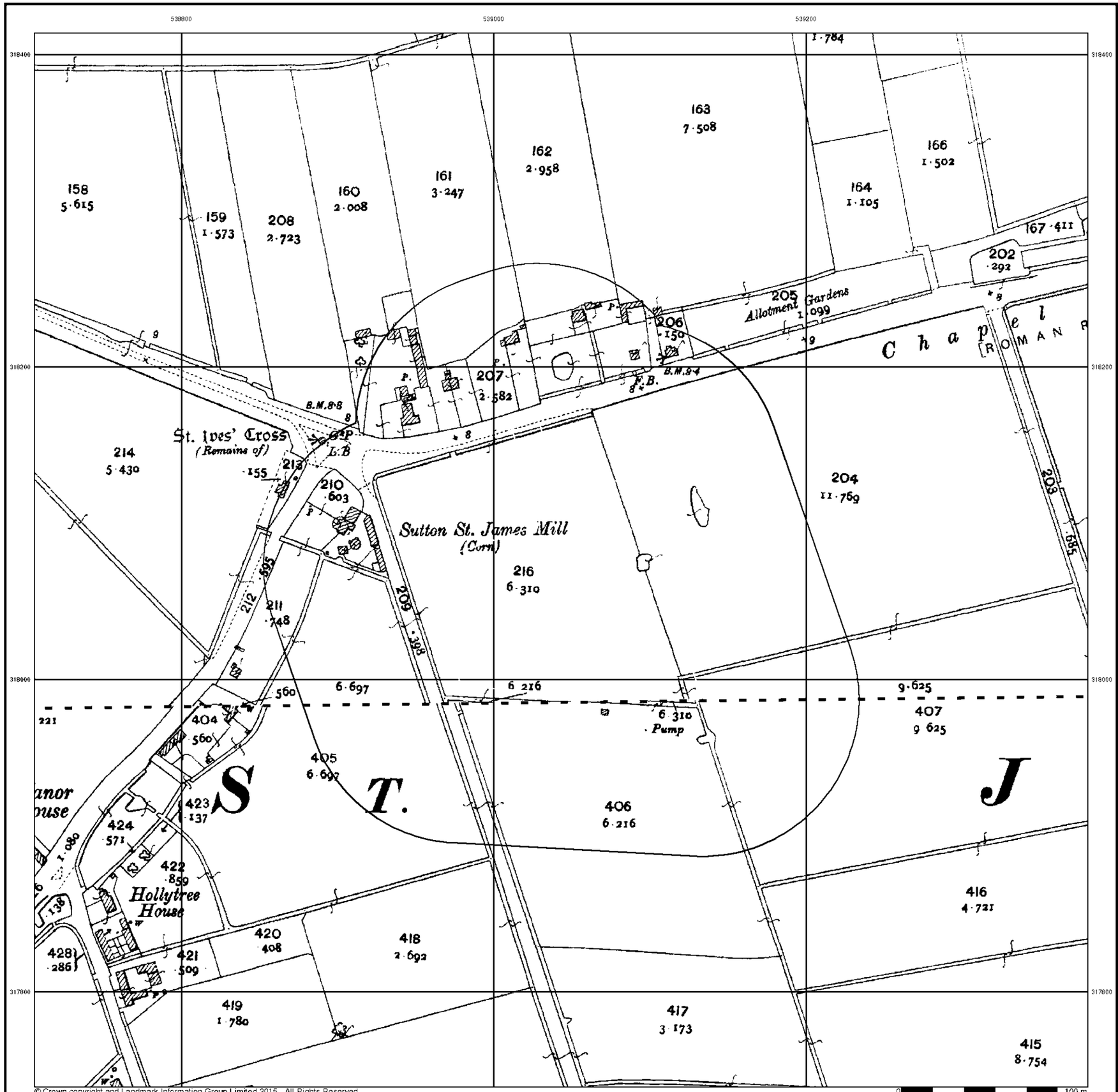
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	100

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[redacted]

Lincolnshire
Published 1904
Source map scale - 1:2,500

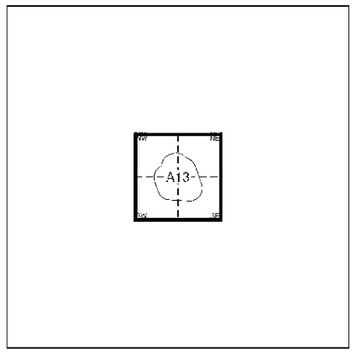
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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)

143_12
1904
1:2,500

143_16
1904
1:2,500

Historical Map - Segment A13



Order Details

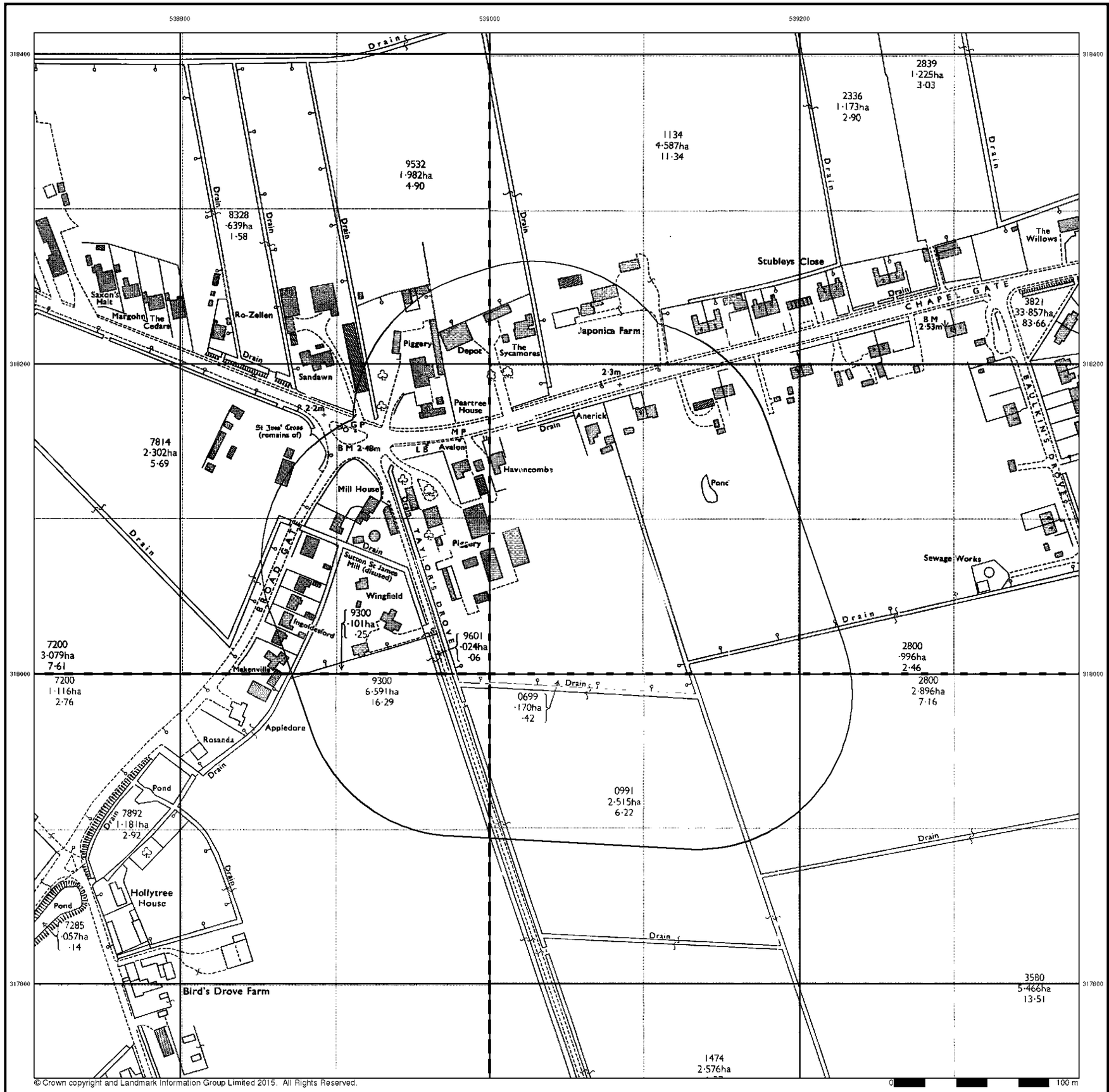
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National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
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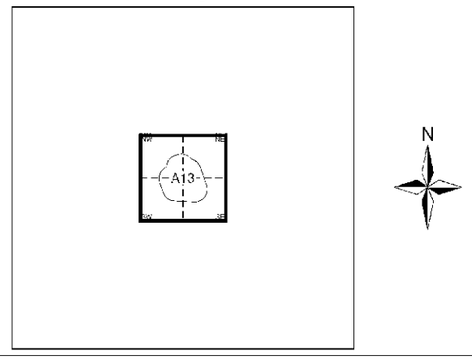
Ordnance Survey Plan
Published 1975
Source map scale - 1:2,500

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)

TF3818 1975 1:2,500	TF3918 1975 1:2,500
TF3817 1975 1:2,500	TF3917 1975 1:2,500

Historical Map - Segment A13



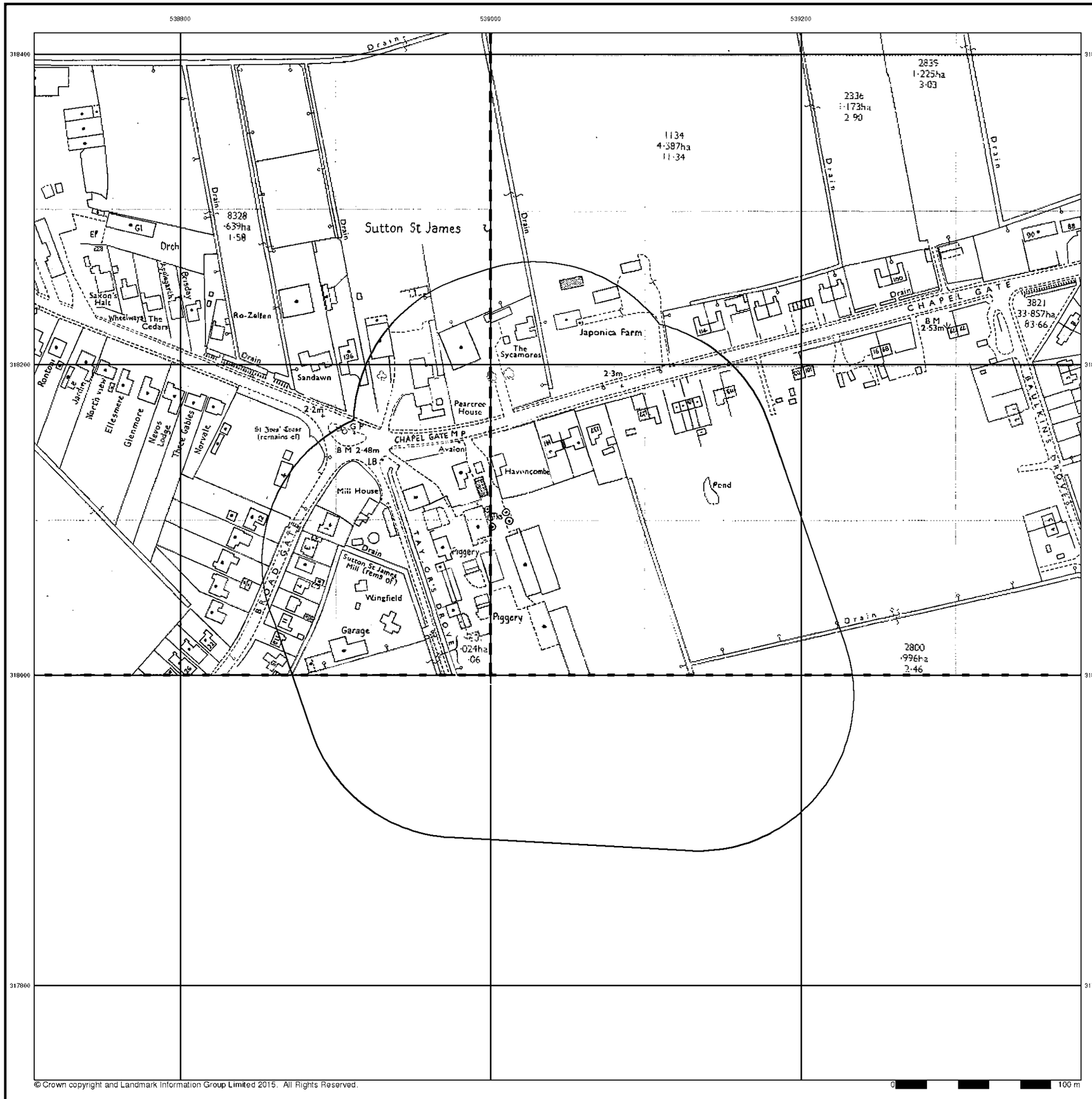
Order Details

Order Number:	129559767_1_1
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National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	100

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539800
539000
539200
318400
318200
318000
317800
Drain
8328
·639ha
1·58
Sutton St James
1134
4·387ha
11·34
2836
1·173ha
2·90
2839
1·225ha
3·03
Drain
Drain
Drain



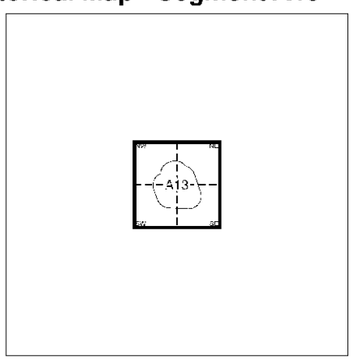
Large-Scale National Grid Data
Published 1995
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

TF3818 1995 1:2,500	TF3918 1995 1:2,500
TF3817 1995 1:2,500	TF3917 1995 1:2,500

Historical Map - Segment A13



Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
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Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	100

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

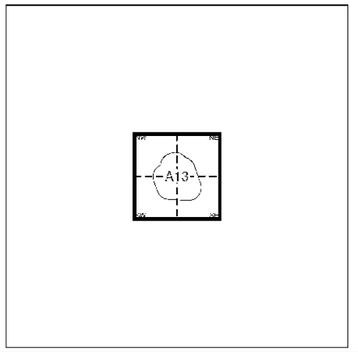
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Historical Aerial Photography
Published 2000

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

Historical Aerial Photography - Segment A13



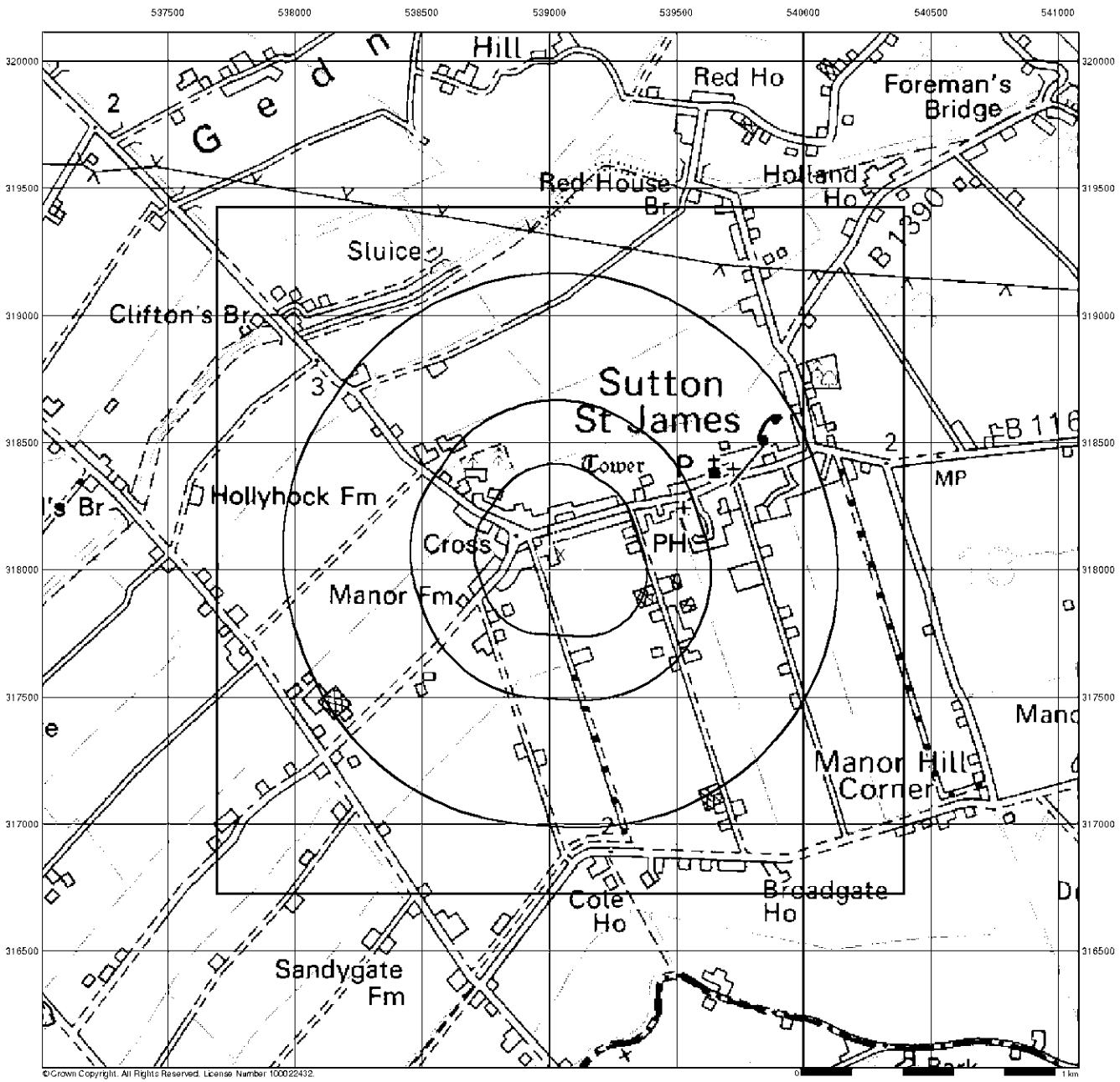
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Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	100

Site Details

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Groundwater Vulnerability

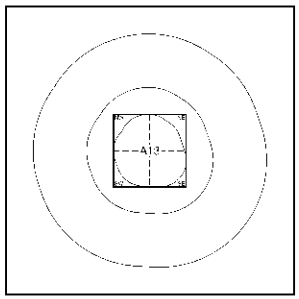
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



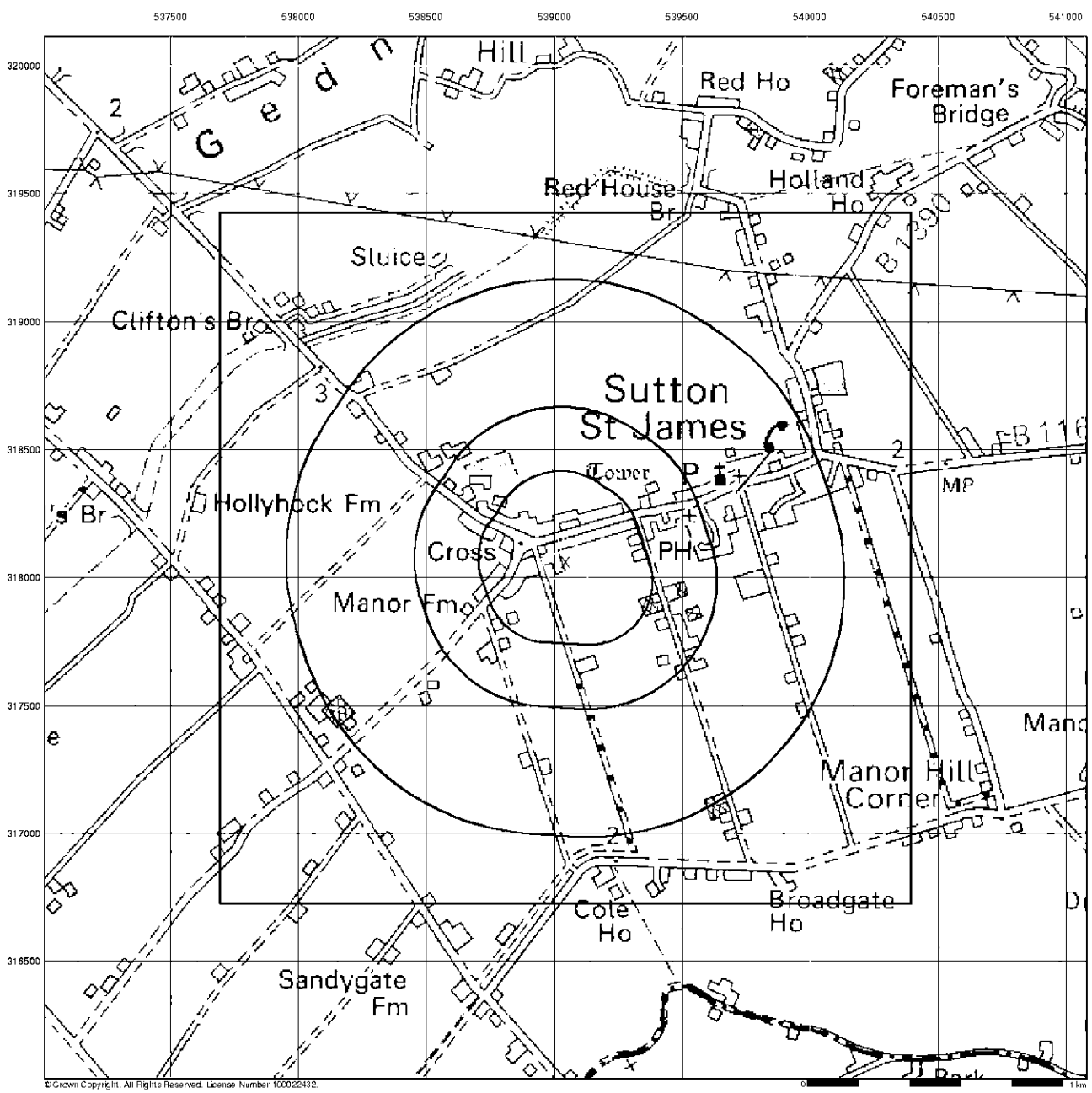
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

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Bedrock Aquifer Designation

General

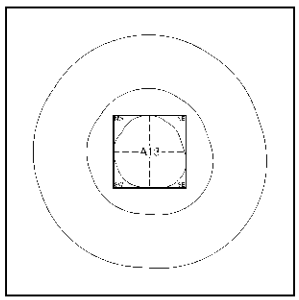
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



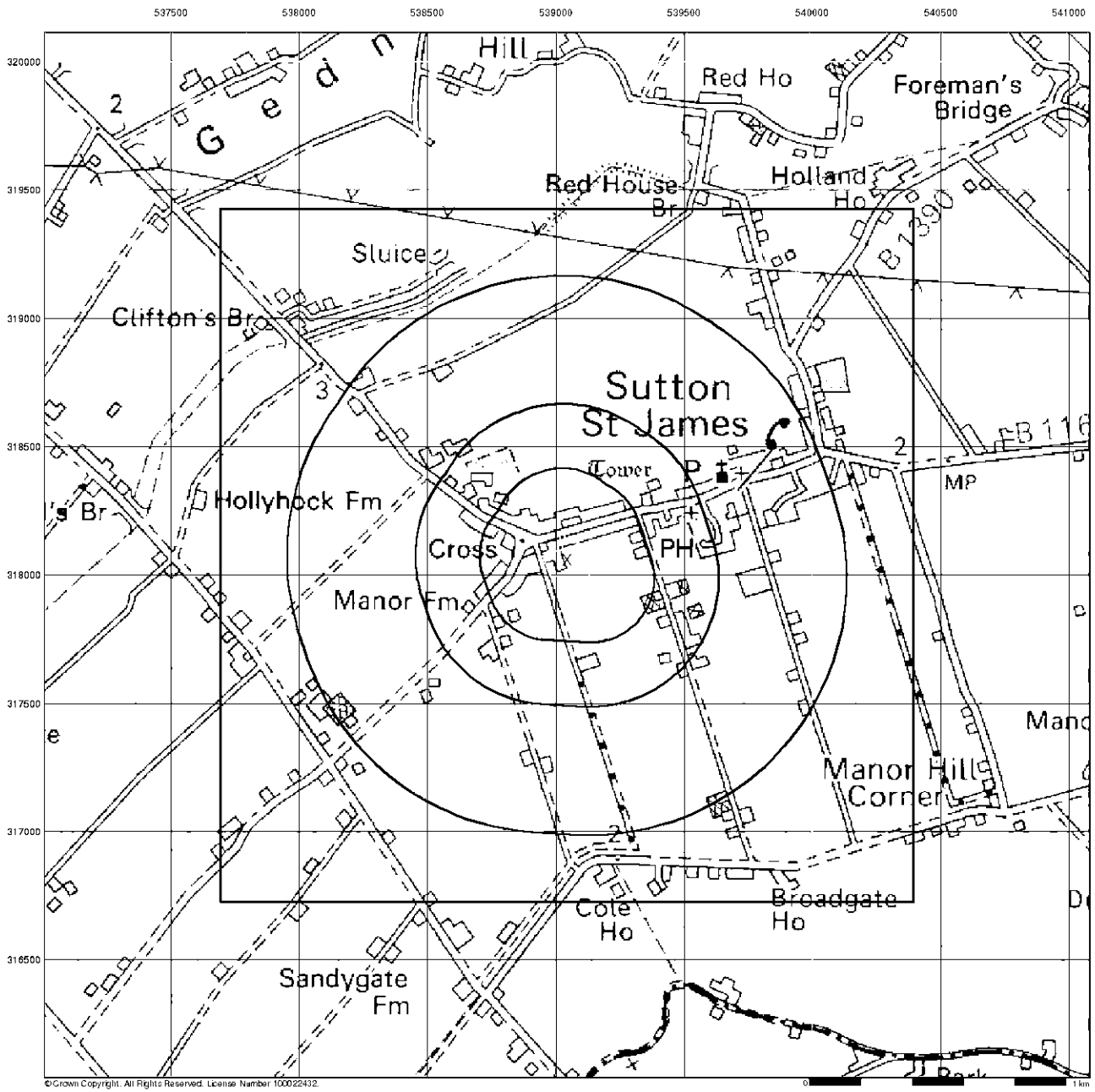
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

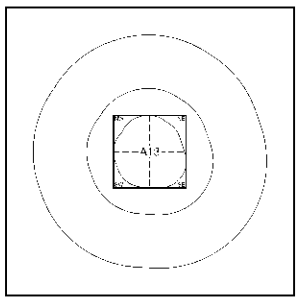
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



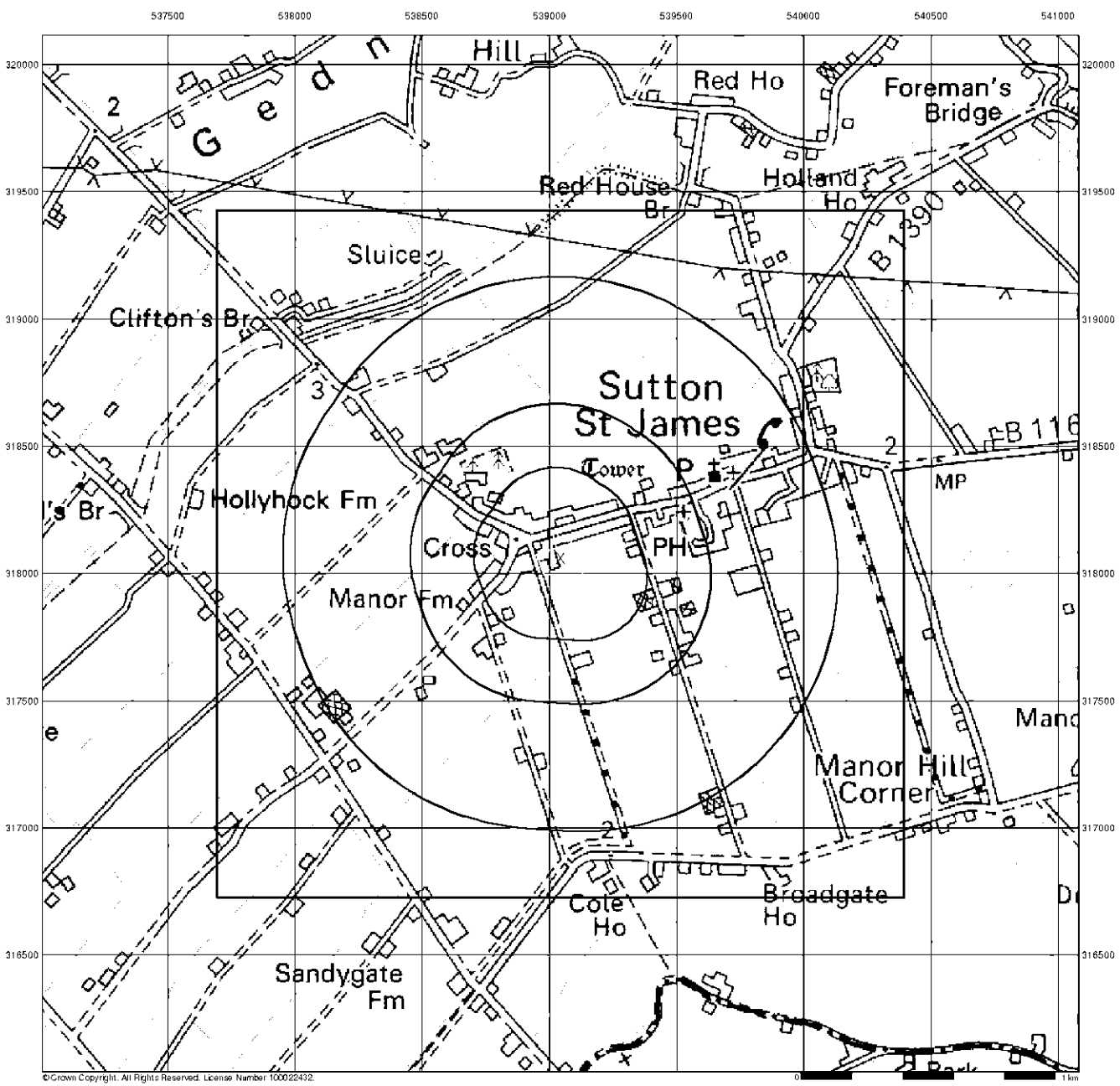
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Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

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Source Protection Zones

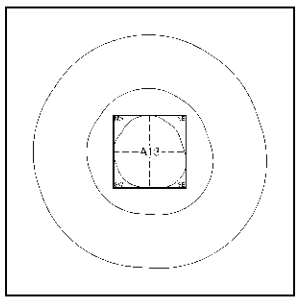
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



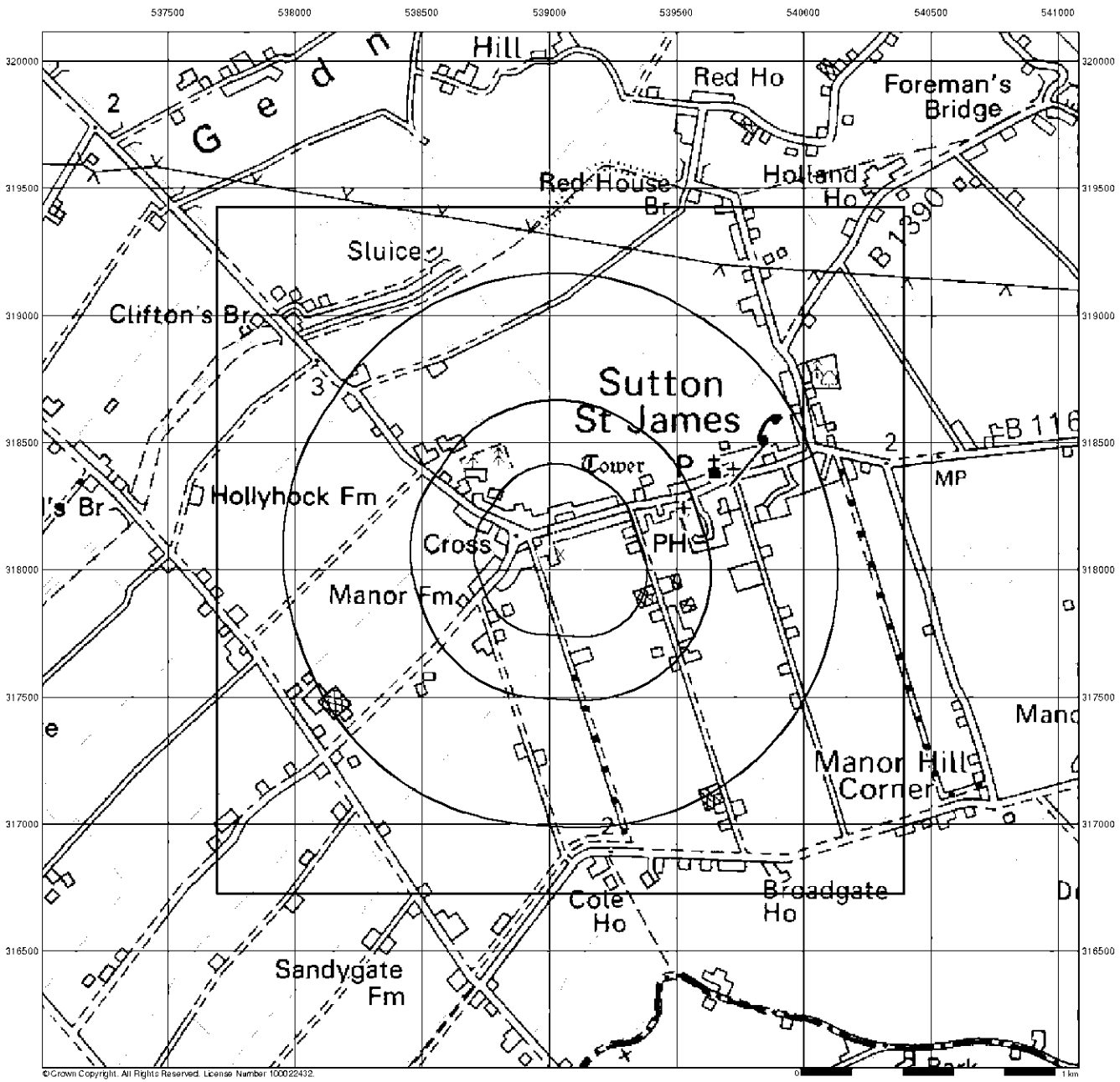
Order Details

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Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

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BGS Flood GFS Data

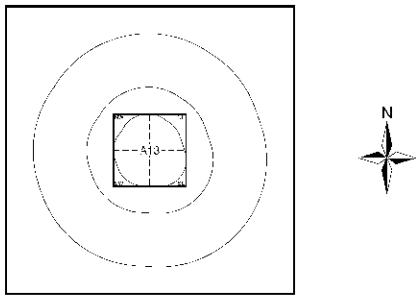
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
129559767_1_1

Customer Reference:
R17053

National Grid Reference:
539040, 318060

Slice:
A

Site Area (Ha):
1.79

Search Buffer (m):
1000

Site Details:

149, Chapelgate
Sutton St. James
SPALDING
PE12 0EF

Client Details:

Mr A Hare
Grange Geo Consulting Ltd
43 Winchilsea Avenue
Newark
Nottinghamshire
NG24 4AD

Contents

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	65
Hazardous Substances	66
Geological	67
Industrial Land Use	68
Sensitive Land Use	-
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Data Suppliers	76
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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.

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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 v53.0

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		29	37	22
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 23			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 23	Yes			
Pollution Incidents to Controlled Waters	pg 23			3	4
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 24			1	
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 24	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 24	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 24	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 24	Yes	Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 25	Yes		n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 25		43	73	236

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	pg 65			2	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 65	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)					
Potentially Infilled Land (Water)	pg 65			1	1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 66				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents	pg 66			1	
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 67	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 67	Yes			
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards				n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 67	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 67	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 67	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 67	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 68			2	2
Fuel Station Entries	pg 68			1	
Points of Interest - Commercial Services	pg 68			1	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 68		8	4	3
Points of Interest - Public Infrastructure	pg 69			4	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					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Chapel Gate Plot 1 Chapel Gate, Sutton St James, Lincolnshire, Pe12 0ef Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf01551 Permit Version: 1 Effective Date: 8th August 1989 Issued Date: 8th August 1989 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13NE (N)	20	2	539050 318160
1	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Chapel Gate Plot 1 Chapel Gate, Sutton St James, Lincolnshire, Pe12 0ef Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf01552 Permit Version: 1 Effective Date: 8th August 1989 Issued Date: 8th August 1989 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13NE (N)	20	2	539050 318160
1	**Discharge Consents** Operator: Mr Stephen Sutton Property Type: Domestic Property (Single) Location: Chapelgate No.129 Sutton St James, Spalding, Lincolnshire, -, Pe12 0ef Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18549 Permit Version: 1 Effective Date: 3rd June 2006 Issued Date: 7th June 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Baulkins Drove Drain **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13NE (N)	38	2	539086 318166
2	**Discharge Consents** Operator: J.L. Vere Esq. Property Type: Not Supplied Location: House At Broadgate Road Sutton St James, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3883 Permit Version: 1 Effective Date: 17th February 1983 Issued Date: 17th February 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	74	2	538900 318000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	**Discharge Consents** Operator: Mr & Mrs M Hales Property Type: Domestic Property (Single) Location: 11 Broadgate Broadgate, Sutton St James, Spalding, Lincolnshire, Pe12 0el Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf12747 Permit Version: 1 Effective Date: 8th April 2002 Issued Date: 24th April 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Bad Gate Drain **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	83	2	538880 318030
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02418 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02419 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02420 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02421 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02422 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060
3	**Discharge Consents** Operator: Bambi Builders Property Type: Domestic Property (Multiple) Location: Broadgate Development Sutton St James, Spalding, Lincs, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02423 Permit Version: 1 Effective Date: 2nd April 1990 Issued Date: 2nd April 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	134	2	538820 318060
3	**Discharge Consents** Operator: J.L. Vere Esq. Property Type: Not Supplied Location: Plot 3 Broadgate Road, Sutton St James, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3895 Permit Version: 1 Effective Date: 13th June 1983 Issued Date: 13th June 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	162	2	538800 318020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: John Ivor And Betty Irene Tansell Property Type: Not Supplied Location: Plot 2 Broadgate Road, Sutton St. James, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5051 Permit Version: 1 Effective Date: 31st May 1985 Issued Date: 31st May 1985 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	165	2	538800 318010
4	**Discharge Consents** Operator: J.L. Vere Esq. Property Type: Not Supplied Location: Plot 2 Broadgate Road, Sutton St. James, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3894 Permit Version: 1 Effective Date: 13th June 1983 Issued Date: 13th June 1983 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	165	2	538800 318010
4	**Discharge Consents** Operator: D. Brown (Building Contractors) Ltd. Property Type: Not Supplied Location: House At Plot3 Broadgate, Sutton St James, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3921 Permit Version: 1 Effective Date: 3rd February 1984 Issued Date: 3rd February 1984 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	172	2	538800 317990
4	**Discharge Consents** Operator: D. Brown (Building Contractors) Ltd. Property Type: Not Supplied Location: House At Plot4 Broadgate, Sutton St James, Spalding, Lincs, Pe12 6dq Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3922 Permit Version: 1 Effective Date: 3rd February 1984 Issued Date: 3rd February 1984 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	185	2	538790 317980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: J H King & D O King (Partners) Property Type: Domestic Property (Single) Location: Fishergate, Sutton St James, Spalding, Lincs, Pe12 0en Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf00457 Permit Version: 1 Effective Date: 1st March 1989 Issued Date: 1st March 1989 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	173	2	538810 318170
5	**Discharge Consents** Operator: Mr A & Mrs M E Whitehead Property Type: Domestic Property (Single) Location: Three Gables 3 Fishergate, Sutton St James, Spalding, Lincs, Pe12 0en Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf00456 Permit Version: 1 Effective Date: 1st March 1989 Issued Date: 1st March 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	179	2	538810 318180
5	**Discharge Consents** Operator: V & N R Alfred Property Type: Domestic Property (Single) Location: Fishergate No.1 Fishergate, Sutton St James, Spalding, Lincs, Pe12 0en Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf00458 Permit Version: 1 Effective Date: 1st March 1989 Issued Date: 1st March 1989 Revocation Date: 24th April 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	185	2	538810 318190
5	**Discharge Consents** Operator: David Drummond And Shirley Drummond Property Type: Not Supplied Location: Plot 3 Fishersgate, Sutton St James, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5487 Permit Version: 1 Effective Date: 5th February 1988 Issued Date: 5th February 1988 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	209	2	538780 318190

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: David Drummond And Shirley Drummond Property Type: Not Supplied Location: Plot 2 Fishersgate, Sutton St James, Spalding, Lincs Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5486 Permit Version: 1 Effective Date: 5th February 1988 Issued Date: 5th February 1988 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	217	2	538770 318190
5	**Discharge Consents** Operator: Kings Quality Homes Property Type: Not Supplied Location: Plot 1, Fishgate, Sutton St. James Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5235 Permit Version: 1 Effective Date: 19th November 1986 Issued Date: 19th November 1986 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (W)	234	2	538740 318170
6	**Discharge Consents** Operator: South Holland D.C. Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Sewage Works Baulkins Drove & Chapel Gate, Sutton St. James, Lincs. Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5nf526 Permit Version: 1 Effective Date: 16th March 1970 Issued Date: 16th March 1970 Revocation Date: 26th February 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Sutton St. James Drain **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NE (E)	226	2	539340 318080
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.38 Sutton St James, Spalding, Lincolnshire, Pe12 0jx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008506 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.40 Sutton St. James, Spalding, Lincolnshire, Pe12 0jx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008507 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.42 Sutton St. James, Spalding, Lincolnshire, Pe12 Ojx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008508 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.44 Sutton St. James, Spalding, Lincolnshire, Pe12 0jx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008509 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.46 Sutton St James, Spalding, Lincolnshire, Pe12 0jx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008510 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	**Discharge Consents** Operator: Kitchen Plus (Holbeach) Limited Property Type: Domestic Property (Single) Location: Baulkins Drove No.48 Sutton St. James, Spalding, Lincolnshire, Pe12 0jx Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Npswqd008511 Permit Version: 1 Effective Date: 14th July 2009 Issued Date: 14th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drn Ldng To Sth Holland Mn Drn **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	234	2	539356 318059
7	**Discharge Consents** Operator: Mr D & Mrs S Fritchley Property Type: Domestic Property (Single) Location: Broadgate No.34 Broadgate, Sutton St James, Spalding, Pe12 0el Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02184 Permit Version: 1 Effective Date: 19th January 1990 Issued Date: 19th January 1990 Revocation Date: 16th July 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	254	2	538730 317940
7	**Discharge Consents** Operator: Mr & Mrs Moore Property Type: Domestic Property (Single) Location: Mayesbrook 42 Broadgate, Sutton St James, Spalding, Lincs, Pe12 0js Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf02188 Permit Version: 1 Effective Date: 22nd January 1990 Issued Date: 22nd January 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Into Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	263	2	538727 317923
7	**Discharge Consents** Operator: Mr & Mrs K R Hale Property Type: Domestic Property (Single) Location: Bereowa, 37 Broadgate Broadgate, Sutton St James, Spalding, Pe12 0el Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02186 Permit Version: 1 Effective Date: 19th January 1990 Issued Date: 19th January 1990 Revocation Date: 17th July 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	267	2	538720 317930

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Discharge Consents** Operator: Mr R L Pedwell Property Type: Domestic Property (Single) Location: Livesey, 36 Broadgate Broadgate, Sutton St James, Spalding, Pe12 0el Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02185 Permit Version: 1 Effective Date: 19th January 1990 Issued Date: 19th January 1990 Revocation Date: 17th July 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A13SW (W)	267	2	538720 317930
8	**Discharge Consents** Operator: Kings Quality Homes Property Type: Not Supplied Location: Plot 2, Fishgate, Sutton St. James Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5236 Permit Version: 1 Effective Date: 19th November 1986 Issued Date: 19th November 1986 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (W)	256	2	538720 318180
8	**Discharge Consents** Operator: Mrs E L Robinson Property Type: Not Supplied Location: Plot 3, Fishgate, Sutton St. James Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf5237 Permit Version: 1 Effective Date: 19th November 1986 Issued Date: 19th November 1986 Revocation Date: 17th September 1997 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A13NW (W)	270	2	538710 318190
9	**Discharge Consents** Operator: Mr Darren Hall Property Type: Domestic Property (Single) Location: New House Adj To No. 90 Chapelgate, Sutton St James, Lincolnshire, -, Pe12 0ee Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnnf/18528 Permit Version: 1 Effective Date: 10th March 2006 Issued Date: 10th March 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Drain G11 - Sutton St James Dn **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	285	2	539320 318290

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Mr & Mrs C E Noble Property Type: Domestic Property (Single) Location: Mayesbrook 42 Broadgate, Sutton St James, Spalding, Lincs, Pe12 0js Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02187 Permit Version: 1 Effective Date: 19th January 1990 Issued Date: 19th January 1990 Revocation Date: 17th July 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	289	2	538700 317920
10	**Discharge Consents** Operator: Kings Quality Homes Property Type: Domestic Property (Single) Location: Broadgate Plot 1 Broadgate, Sutton St James, Spalding, Lincs, Pe12 0js Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf03080 Permit Version: 1 Effective Date: 20th July 1990 Issued Date: 20th July 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	303	2	538700 317880
10	**Discharge Consents** Operator: Kings Quality Homes Property Type: Domestic Property (Single) Location: Broadgate Plot 2 Broadgate, Sutton St James, Spalding, Lincs, Pe12 0js Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnlf03081 Permit Version: 1 Effective Date: 20th July 1990 Issued Date: 20th July 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	303	2	538700 317880
10	**Discharge Consents** Operator: Kings Quality Homes Property Type: Domestic Property (Single) Location: Broadgate Plot 3 Broadgate, Sutton St James, Spalding, Lincs, Pe12 0js Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf03082 Permit Version: 1 Effective Date: 20th July 1990 Issued Date: 20th July 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	303	2	538700 317880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18650 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18651 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18652 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18653 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18654 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18655 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18656 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 6th October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940
11	**Discharge Consents** Operator: Fenbank Builders Property Type: Domestic Property (Single) Location: Baulkins Drove Plots 1-8 Baulkins Drove, Sutton St James, Spalding, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18649 Permit Version: 1 Effective Date: 21st August 2006 Issued Date: 2nd October 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of River Nene **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Manually positioned to the road within the address or location	A14SW (E)	303	2	539433 317940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Mr & Mrs P Barks Property Type: Domestic Property (Single) Location: The Laurels Baulkins Drove, Sutton St James, Spalding, Lincolnshire, Pe12 0ju Authority: Environment Agency, Anglian Region Catchment Area: Low River Welland (Spalding) Reference: Prnnf18165 Permit Version: 1 Effective Date: 12th June 2004 Issued Date: 30th June 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib South Holland Main Drain **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14SW (E)	319	2	539450 317950
12	**Discharge Consents** Operator: South Holland D.C. Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Sutton St.James Stw, Spalding, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf184 Permit Version: 1 Effective Date: 10th March 1961 Issued Date: 10th March 1961 Revocation Date: 21st December 1992 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	322	2	539400 318200
13	**Discharge Consents** Operator: Kings Quality Homes Property Type: Not Supplied Location: Plot 1 Broadgate, Sutton St James, Spalding, Pe12 0tn Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02189 Permit Version: 1 Effective Date: 22nd January 1990 Issued Date: 22nd January 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A12SE (W)	340	2	538650 317910
14	**Discharge Consents** Operator: Mr & Mrs P K Thorley Property Type: Not Given Location: 9 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	400	2	539495 318165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Mr & Mrs Wilkinson Property Type: Not Given Location: 8 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	402	2	539495 318170
14	**Discharge Consents** Operator: Mr R Henley Property Type: Not Given Location: 7 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	403	2	539495 318175
14	**Discharge Consents** Operator: Mr & Mrs K Skinner Property Type: Not Given Location: 2 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	405	2	539500 318165
14	**Discharge Consents** Operator: Needham Drive (Sutton St James) Management Co Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Needham Drive Chapelgate, Sutton St James, Spalding, Lincs, Pe12 0eg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf09972 Permit Version: 2 Effective Date: 17th August 2000 Issued Date: 18th April 2000 Revocation Date: 11th July 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	406	2	539500 318170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Mr & Mrs L F Greens Property Type: Not Given Location: 16 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	406	2	539500 318170
14	**Discharge Consents** Operator: Hull Matthewson Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Needham Drive Chapelgate, Sutton St James, Spalding, Lincs, Pe12 0eg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf09972 Permit Version: 1 Effective Date: 20th December 1996 Issued Date: 20th December 1996 Revocation Date: 16th August 2000 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Drain Receiving Water: Village Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	406	2	539500 318170
14	**Discharge Consents** Operator: Mr & Mrs J Lawson Property Type: Not Given Location: 3 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	408	2	539500 318175
14	**Discharge Consents** Operator: Mr & Mrs R Cross Property Type: Not Given Location: 22 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	409	2	539505 318165

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	**Discharge Consents** Operator: Mr & Mrs R Peake Property Type: Not Given Location: 26 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	411	2	539505 318170
14	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Single) Location: Festival Square Sutton St. James, Spalding, Pe12 0eh (Site 2218), Pe12 0eh Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf5130 Permit Version: 2 Effective Date: 11th September 1997 Issued Date: 11th September 1997 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Fen Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	413	2	539500 318190
14	**Discharge Consents** Operator: Mr & Mrs D Abram Property Type: Not Given Location: 27 Needham Drive, Chapelgate, Sutton St James, SPALDING, Lincolnshire Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: PRNNF/09972 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 20th December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Treatment Works - Final Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	413	2	539505 318175
14	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Single) Location: Festival Square Sutton St. James, Spalding, Pe12 0eh (Site 2218), Pe12 0eh Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf5130 Permit Version: 1 Effective Date: 21st February 1986 Issued Date: 21st February 1986 Revocation Date: 10th September 1997 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Drain Receiving Water: Fen Drain **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	419	2	539510 318180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Discharge Consents** Operator: Anglian Water Services Limited Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Needham Drive Chapelgate, Sutton St James, Spalding, Lincs, Pe12 0eg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf09972 Permit Version: 3 Effective Date: 11th July 2007 Issued Date: 11th July 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Village Drain **Status: Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	486	2	539582 318177
16	**Discharge Consents** Operator: Mr C Gumbrell & Mrs L Smith Property Type: Domestic Property (Single) Location: Rosemead Baulkins Drove, Sutton St James, Holbeach, Lincs, Pe12 0ju Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Prnnf09000 Permit Version: 1 Effective Date: 23rd January 1992 Issued Date: 23rd January 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Fen Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	486	2	539540 317720
17	**Discharge Consents** Operator: Lincolnshire C.C. Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Sutton St.James Primary School Bells Drove, Sutton St. James, Spalding, Lincs, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf435 Permit Version: 3 Effective Date: 31st July 1995 Issued Date: 31st July 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Sutton St. James Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A14NW (E)	533	2	539620 318210
17	**Discharge Consents** Operator: Sutton St James Primary Sch Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Sutton St.James Primary School Bells Drove, Sutton St. James, Spalding, Lincs, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf435 Permit Version: 2 Effective Date: 11th December 1968 Issued Date: 11th December 1968 Revocation Date: 30th July 1995 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Sutton St. James Drain **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	533	2	539620 318210

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Discharge Consents** Operator: Sutton St James Primary Sch Property Type: EDUCATION/NURSERY/SCHOOL/COLLEGE/UNI/TRAINING VENUE Location: Sutton St.James Primary School Bells Drove, Sutton St. James, Spalding, Lincs, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Pr5nf435 Permit Version: 1 Effective Date: 21st May 1968 Issued Date: 21st May 1968 Revocation Date: 10th December 1968 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Sutton St. James Drain **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NW (E)	533	2	539620 318210
18	**Discharge Consents** Operator: Mr P W Prosser Property Type: Not Supplied Location: Premises At Greylands Bells Drove, Sutton St James, Spalding, Lincs, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02829 Permit Version: 1 Effective Date: 21st May 1990 Issued Date: 21st May 1990 Revocation Date: 5th August 1997 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	669	2	539750 318250
18	**Discharge Consents** Operator: Ashwood Homes Property Type: Not Supplied Location: Bells Drove Sutton St. James, Spalding, Lincs, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf00003 Permit Version: 1 Effective Date: 25th November 1988 Issued Date: 25th November 1988 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	681	2	539770 318230
19	**Discharge Consents** Operator: South Holland D.C. Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Site 2265 Birds Drove, Sutton St James, Spalding, Lincolnshire, Pe12 0jz Authority: Environment Agency, Anglian Region Catchment Area: Not Given Reference: Prnnf12250 Permit Version: 1 Effective Date: 11th March 1999 Issued Date: 26th August 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Unnamed Drain **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A8SE (S)	670	2	539190 317320

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Discharge Consents** Operator: Roffes Catering Limited Property Type: Domestic Property (Single) Location: Roffes Catering Limited Bells Drove, Sutton St. James, Spalding, Lincolnshire, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Npswqd008108 Permit Version: 1 Effective Date: 13th July 2009 Issued Date: 13th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Ditch Ldng To Denham'S Drain **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	684	2	539806 318112
21	**Discharge Consents** Operator: The Chairperson, Sutton St James Pre-School Playgp Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: The Playgroup Building C/O Sutton St James School, Bells Drove, Sutton St James, Spalding, Lincolnshire, Pe12 0jg Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf12470 Permit Version: 1 Effective Date: 1st September 2000 Issued Date: 8th September 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of South Holland M'N Dr'N **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	685	2	539750 318300
22	**Discharge Consents** Operator: Draw Dike Management Limited Property Type: Domestic Property (Multiple) Location: Jubilee Close Development Jubilee Close, Sutton St James, Spalding, Lincs, Pe12 0es Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf12823 Permit Version: 1 Effective Date: 18th September 2002 Issued Date: 24th September 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Bells Drove Drain **Status:** **New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	731	2	539828 318214
23	**Discharge Consents** Operator: Mrs Lilian Rose Dix Property Type: Not Supplied Location: House At Draw Dike, Sutton St. James, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3436 Permit Version: 1 Effective Date: 16th August 1977 Issued Date: 16th August 1977 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status:** **Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (NE)	769	2	539800 318410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Discharge Consents** Operator: William John And Lily Ann Carfrae Property Type: Not Supplied Location: Plot 4 Chapelgate, Sutton St. James, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3393 Permit Version: 1 Effective Date: 28th January 1977 Issued Date: 28th January 1977 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	802	2	539850 318370
24	**Discharge Consents** Operator: The Secretary Property Type: Not Supplied Location: Plot 4 Chapelgate, Sutton St. James, Spalding Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3287 Permit Version: 1 Effective Date: 22nd December 1975 Issued Date: 22nd December 1975 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	802	2	539850 318370
25	**Discharge Consents** Operator: Mrs B Bradford Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Hedgeside Jarvis Gate, Sutton St James, Spalding, Lincs, Pe12 0ep Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnnf09996 Permit Version: 1 Effective Date: 23rd December 1996 Issued Date: 23rd December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Fen Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	857	2	539800 318600
26	**Discharge Consents** Operator: P L Ely (Contractors) Ltd Property Type: Domestic Property (Single) Location: Chapelgate, Sutton St. James, Lincs, Pe12 0es Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3371 Permit Version: 1 Effective Date: 4th November 1976 Issued Date: 4th November 1976 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A14NE (E)	859	2	539900 318400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Discharge Consents** Operator: The Occupier Property Type: Not Supplied Location: Plot 1 Chapel Gate (Draw Dyke), Sutton St James, Spalding, Lincs, Pe12 0ef Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnlf02833 Permit Version: 1 Effective Date: 29th March 1990 Issued Date: 29th March 1990 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	897	2	539940 318400
27	**Discharge Consents** Operator: Mrs E Newton Property Type: Domestic Property (Single) Location: Chapelgate, Sutton St. James, Lincs, Pe12 0es Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3355 Permit Version: 1 Effective Date: 7th September 1976 Issued Date: 7th September 1976 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	895	2	539920 318450
27	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Single) Location: Chapel Gate No.20 Sutton St James, Spalding, Lincs, Pe12 0ee Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18272 Permit Version: 1 Effective Date: 29th October 2004 Issued Date: 1st November 2004 Revocation Date: 12th May 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of S. Holland Main Drain **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	903	2	539931 318442
27	**Discharge Consents** Operator: Mr Michael Langley Property Type: Domestic Property (Single) Location: Chapel Gate No.18 Sutton St James, Spalding, Lincs, Pe12 0ee Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18282 Permit Version: 1 Effective Date: 22nd December 2004 Issued Date: 7th January 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of S Holland Main Drain **Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	909	2	539938 318442

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Single) Location: Chapel Gate No.16 Sutton St James, Spalding, Lincs, Pe12 0ee Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18271 Permit Version: 1 Effective Date: 29th October 2004 Issued Date: 1st November 2004 Revocation Date: 6th April 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: S. Holland Main Drain **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	919	2	539930 318490
27	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Single) Location: Chapel Gate No.14 Sutton St James, Spalding, Lincolnshire, Pe12 0ee Authority: Environment Agency, Anglian Region Catchment Area: Low River Nene / South Holland Main Reference: Prnnf18273 Permit Version: 1 Effective Date: 29th October 2004 Issued Date: 2nd November 2004 Revocation Date: 12th May 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of S. Holland Main Drain **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	924	2	539952 318446
28	**Discharge Consents** Operator: G Cooper Esq. Property Type: Domestic Property (Single) Location: Baulkins Drove, Sutton St James, Spalding, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Pr5lf3540 Permit Version: 1 Effective Date: 25th October 1978 Issued Date: 25th October 1978 Revocation Date: 1st October 1996 Discharge Type: Unknown Discharge Environment: Onto Land Receiving Water: Land **Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989** Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	915	2	539600 317200
29	**Discharge Consents** Operator: South Holland D.C. Property Type: Domestic Property (Multiple) Location: Baulkins Drove House Site 2257 Baulkins Drove, Sutton St James, Lincs, Pe12 0jt Authority: Environment Agency, Anglian Region Catchment Area: Not Supplied Reference: Prnnf09995 Permit Version: 1 Effective Date: 23rd December 1996 Issued Date: 23rd December 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Fen Drain **Status: Post National Rivers Authority Legislation where issue date > 31/08/1989** Positional Accuracy: Located by supplier to within 10m	A4NW (S)	976	2	539440 317060
30	**Prosecutions Relating to Controlled Waters** Location: Tributary Of Baulkins Drove Drain, Sutton St James, Spalding Prosecution Text: Polluting a stream with catering and sewage effluent Prosecution Act: Wra91 S85(1) & (6) Hearing Date: 1st March 2010 Verdict: Guilty Fine: 2000 Cost: 2000 Positional Accuracy: Manually positioned to the road within the address or location	A9NW (SE)	619	2	539562 317540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	**Local Authority Pollution Prevention and Controls** Name: J E Garner Location: J E GARNER, 71 Chapelgate, Sutton St. James, SPALDING, Lincolnshire, PE12 0EF 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	A14NW (NE)	442	3	539505 318264
	Nearest Surface Water Feature	A13SW (S)	0	-	539041 317991
32	**Pollution Incidents to Controlled Waters** Property Type: Domestic/Residential Location: Spalding District, SUTTON ST JAMES Authority: Environment Agency, Anglian Region Pollutant: Sewage - Septic Tank Effluent Note: Local Dyke Incident Date: 10th May 1999 Incident Reference: 2834 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Poor/Inadequate Maintenance Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	263	2	538700 318000
33	**Pollution Incidents to Controlled Waters** Property Type: Petrol/Fuelling Stations Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Oils - Petrol Note: Local Dyke Incident Date: 4th March 1997 Incident Reference: 2415 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	320	2	539400 318195
33	**Pollution Incidents to Controlled Waters** Property Type: Petrol/Fuelling Stations Location: SUTTON ST JAMES Authority: Environment Agency, Anglian Region Pollutant: Oils - Petrol Note: Local Dyke Incident Date: 4th March 1997 Incident Reference: 2415 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	322	2	539400 318200
34	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Oils - Waste Oil Note: Idb Drain Incident Date: 9th October 1996 Incident Reference: 2356 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	511	2	539600 318200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Local Drain Incident Date: 21st September 1993 Incident Reference: 1659 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	827	2	539900 318300
36	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Local Drain Incident Date: 9th March 1993 Incident Reference: 1526 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	859	2	539900 318400
37	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Spalding District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Dyke At Rear Of Property Incident Date: 27th April 1992 Incident Reference: 1305 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	955	2	540001 318401
38	**Substantiated Pollution Incident Register** Authority: Environment Agency - Anglian Region, Northern Area Incident Date: 20th May 2009 Incident Reference: 680480 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Sewage Materials: Grey Water	A14SW (E)	442	2	539575 317990
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 24 North Northamptonshire Scale: 1:100,000	A13SE (NE)	0	2	539045 318060
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (NE)	0	1	539045 318060
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (NE)	0	1	539045 318060
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SE (NE)	0	2	539045 318060
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (S)	0	2	539050 318040
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (N)	0	2	539045 318130

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: Tidal Models Boundary Accuracy: As Supplied	A13NW (W)	68	2	538895 318110
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	81	2	539010 318245
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NW (N)	115	2	539020 318280
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (NE)	144	2	539210 318200
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13NW (NW)	160	2	538935 318300
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial/Tidal Models Boundary Accuracy: As Supplied	A13SW (W)	0	2	539001 318069
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13SE (NE)	0	2	539045 318060
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (W)	1	4	538964 318034
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 189.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	2	4	539132 317996
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (S)	2	4	539041 317990
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	2	4	539128 318008

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	2	4	539127 318010
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NE (E)	2	4	539105 318079
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	2	4	539127 318010
46	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	3	4	538979 317993
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NE (NE)	5	4	539095 318114
48	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NE (NE)	6	4	539092 318124
49	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 299.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (SW)	12	4	538962 318010
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (SW)	12	4	538960 318016
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538957 318026

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538955 318031
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538955 318032
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538950 318047
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538948 318051
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538945 318060
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 45.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (W)	12	4	538944 318066
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 249.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	15	4	539140 318012
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 232.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NW (N)	23	4	539039 318186
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (W)	51	4	538902 318082

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (W)	51	4	538902 318082
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (W)	94	4	538875 318012
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 314.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NE (NE)	122	4	539130 318242
64	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SE (SE)	127	4	539184 317870
65	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 214.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	139	4	538870 318184
66	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 204.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (W)	150	4	538805 318046
67	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (S)	162	4	539035 317829
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	165	4	538901 318282
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 195.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	176	4	538835 318204

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	181	4	539192 317816
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	182	4	538807 317936
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	192	4	538816 317895
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 197.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SE (SE)	194	4	539196 317804
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	201	4	538795 317916
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	203	4	538794 317915
76	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13SW (SW)	203	4	538794 317915
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	205	4	538781 317946
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NE (NE)	215	4	539265 318245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	219	4	538770 317931
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	220	4	538769 317931
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NW (N)	250	4	538995 318414
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (N)	257	4	538939 318407
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 183.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18SW (N)	260	4	538992 318423
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SW (E)	263	4	539387 318056
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	265	4	539057 317726
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 256.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (S)	265	4	539057 317726
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 46.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	271	4	538878 318397

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NE (E)	272	4	539372 318131
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SW (E)	280	4	539413 317974
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	287	4	539420 317985
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 154.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	288	4	539422 317980
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 209.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (W)	293	4	538697 317918
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 35.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NE (NE)	296	4	539329 318295
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	296	4	538832 318396
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	296	4	538706 318236
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	302	4	538772 317776

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 157.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NW)	304	4	538705 318248
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 143.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NE (NE)	312	4	539323 318330
99	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 188.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NE (NE)	312	4	539323 318330
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (W)	315	4	538661 318192
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13NW (NW)	317	4	538800 318395
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 219.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A13SW (SW)	318	4	538765 317762
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A13NE (NE)	322	4	539381 318255
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 83.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (S)	327	4	539153 317661
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 251.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (SE)	330	4	539249 317678

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SW (SE)	334	4	539447 317870
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (NE)	343	4	539395 318275
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 115.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (N)	343	4	539167 318480
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (N)	343	4	539167 318480
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	344	4	539085 317645
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 22.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (SW)	346	4	538783 317712
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 181.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (N)	348	4	539164 318486
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	353	4	539088 317636
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	356	4	538656 318270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	363	4	539091 317626
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (SW)	363	4	538793 317684
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 134.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	366	4	539115 317621
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	366	4	539091 317623
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	367	4	539092 317619
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 264.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (S)	369	4	539090 317620
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 161.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (S)	370	4	539092 317619
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SW (SE)	372	4	539464 317817
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 213.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (SW)	374	4	538794 317671

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (SW)	374	4	538798 317668
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 118.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (SW)	383	4	538801 317657
126	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	385	4	538642 318300
127	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (SE)	388	4	539249 317617
128	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 169.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (SE)	391	4	539258 317616
129	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (W)	403	4	538550 318068
130	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 255.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NW)	405	4	538618 318300
131	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 135.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NW)	405	4	538618 318300
132	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (W)	410	4	538543 318074

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
133	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (E)	425	4	539509 318201
134	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	425	4	539554 318050
135	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (NE)	426	4	539277 318512
136	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 259.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (SW)	428	4	538615 317772
137	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	428	4	539561 317996
138	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NE (NW)	432	4	538648 318395
139	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (N)	433	4	539058 318598
140	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 199.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18SE (NE)	434	4	539287 318515
141	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	438	4	539571 317999

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SW (SE)	443	4	539544 317821
143	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9NW (SE)	457	4	539498 317712
144	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	459	4	538617 318395
145	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	463	4	538613 318395
146	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	465	4	539595 317928
147	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 82.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	469	4	539597 317919
148	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 69.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	472	4	538574 318355
149	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 337.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NW (S)	482	4	538838 317534
150	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NW (SE)	488	4	539540 317717

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	490	4	538581 318394
152	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 215.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (NE)	491	4	539520 318356
153	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 103.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NE (SW)	493	4	538578 317710
154	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 451.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SW (N)	500	4	538826 318625
155	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	501	4	538568 318394
156	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NE (NW)	509	4	538558 318394
157	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (E)	511	4	539623 317841
158	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 141.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NW (SE)	522	4	539529 317646
159	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	522	4	539143 317465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 568.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (S)	522	4	539143 317465
161	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 226.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (S)	525	4	539132 317462
162	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SW (N)	527	4	538999 318692
163	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SW (N)	528	4	539026 318693
164	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (W)	531	4	538434 317957
165	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18SW (N)	532	4	539012 318697
166	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 304.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18SW (N)	532	4	539009 318698
167	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 413.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18SW (N)	535	4	539023 318701
168	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 85.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NE (SW)	535	4	538608 317611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 132.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SE (W)	536	4	538428 317963
170	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 50.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (SE)	541	4	539639 317794
171	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (SE)	541	4	539639 317794
172	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 250.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (SE)	549	4	539648 317796
173	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9NW (SE)	558	4	539544 317609
174	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 260.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8NE (SE)	561	4	539310 317455
175	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (SE)	561	4	539310 317455
176	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 253.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8NE (SE)	563	4	539320 317456
177	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 200.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17SE (NW)	569	4	538578 318529

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 146.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17SE (NW)	569	4	538578 318529
179	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 201.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (NE)	572	4	539594 318389
180	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SW (SE)	574	4	539654 317746
181	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 155.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NE (SW)	580	4	538633 317530
182	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 307.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18SE (N)	585	4	539110 318745
183	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (E)	589	4	539670 318237
184	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	590	4	539479 318567
185	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 331.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	592	4	538516 317628
186	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NW (NE)	600	4	539615 318409

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 167.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	606	4	539612 318427
188	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	606	4	539612 318427
189	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	622	4	539627 318432
190	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	644	4	539541 318582
191	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	644	4	539541 318582
192	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 324.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	645	4	538900 317356
193	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NW (SE)	646	4	539679 317641
194	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	646	4	538471 317598
195	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 339.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	647	4	539538 318590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 209.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12NW (W)	650	4	538319 318214
197	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NW (SE)	651	4	539687 317644
198	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	652	4	538333 317872
199	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 248.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12SW (W)	652	4	538333 317872
200	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 320.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NE (N)	652	4	539218 318789
201	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 186.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SE (S)	653	4	539177 317336
202	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SE (SE)	656	4	539349 317367
203	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 311.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	656	4	538449 317611
204	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 20.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	660	4	539560 318587

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
205	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 66.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	664	4	538323 317863
206	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 267.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	669	4	538497 317532
207	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	677	4	538444 317581
208	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	677	4	539580 318591
209	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 138.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NE (E)	699	4	539822 318104
210	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	705	4	538997 317289
211	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 217.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NW (SE)	706	4	539708 317577
212	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 252.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SE (SE)	708	4	539365 317319
213	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	712	4	538471 317497

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
214	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 322.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NE (SW)	714	4	538470 317496
215	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	722	4	539855 318001
216	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 247.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SE (S)	722	4	539200 317268
217	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	724	4	538276 317817
218	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	724	4	538276 317817
219	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 234.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	726	4	538271 317824
220	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 157.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	726	4	539740 318441
221	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	730	4	538931 317267
222	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17SE (NW)	731	4	538376 318522

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
223	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	737	4	538269 317798
224	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12SW (W)	741	4	538263 317804
225	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 213.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	750	4	538878 317253
226	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 97.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SE (E)	751	4	539881 318059
227	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SE (E)	756	4	539886 317908
228	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SW (NE)	764	4	539674 318615
229	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	767	4	539677 318616
230	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 442.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NW (W)	768	4	538185 318083
231	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	771	4	539892 317849

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
232	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	777	4	539897 317841
233	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 165.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	779	4	538698 318872
234	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 166.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	780	4	539778 318486
235	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	782	4	539712 318596
236	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	782	4	538764 318902
237	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	784	4	538772 318906
238	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	791	4	538805 318925
239	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A12SW (W)	792	4	538222 317765
240	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	792	4	538222 317765

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
241	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NE (NW)	793	4	538699 318888
242	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	793	4	538719 318897
243	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 49.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	793	4	538728 318901
244	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 78.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SW (NE)	794	4	539706 318622
245	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19SE (NE)	796	4	539808 318460
246	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	796	4	538822 318935
247	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12SW (W)	797	4	538215 317771
248	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	797	4	539399 318871
249	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	798	4	538604 317291

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
250	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	798	4	538607 317290
251	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	800	4	538772 318923
252	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	800	4	538604 318849
253	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	801	4	539404 318873
254	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	801	4	538780 318928
255	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 258.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	802	4	538725 318909
256	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 14.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	803	4	538593 318845
257	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 38.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	806	4	538580 318840
258	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	806	4	538580 318840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
259	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	812	4	538334 317503
260	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 339.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	812	4	538349 317484
261	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 259.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	812	4	538334 317503
262	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	812	4	538960 317183
263	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	814	4	539796 318523
264	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	814	4	539796 318523
265	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 199.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	814	4	538959 317181
266	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	814	4	538959 317181
267	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	814	4	538836 318957

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
268	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 246.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NE (NW)	815	4	538574 318848
269	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	815	4	538543 318827
270	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	816	4	538849 318962
271	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 268.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	817	4	538833 318959
272	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NE (NW)	818	4	538532 318824
273	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	818	4	539431 318877
274	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	819	4	538856 318967
275	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	821	4	539633 317336
276	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 136.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	821	4	539634 317336

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
277	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A12NW (W)	823	4	538189 318379
278	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	823	4	538911 318980
279	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	823	4	538578 317277
280	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 109.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	824	4	539428 318886
281	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 527.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	826	4	538635 317245
282	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	826	4	538635 317245
283	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17SW (NW)	828	4	538261 318528
284	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 161.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	830	4	538581 317268
285	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (S)	831	4	539395 317199

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
286	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 287.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	831	4	538891 318985
287	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	831	4	538891 318985
288	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 295.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14NE (E)	839	4	539941 318214
289	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	839	4	538957 319002
290	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (S)	842	4	539400 317188
291	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (S)	842	4	539400 317188
292	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14SE (E)	842	4	539939 317743
293	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NE (E)	842	4	539934 317726
294	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	845	4	538457 318798

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
295	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 258.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (SE)	845	4	539409 317188
296	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 197.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	847	4	539781 318610
297	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	847	4	539781 318610
298	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NE (NW)	850	4	538446 318794
299	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	850	4	538947 319012
300	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 245.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8SE (S)	853	4	539240 317141
301	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 54.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NW (N)	853	4	538953 319015
302	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 152.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NE (NW)	857	4	538402 318763
303	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	857	4	539644 317299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
304	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	859	4	538975 317135
305	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 25.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	863	4	539772 318651
306	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 130.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	863	4	539004 319028
307	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 268.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	869	4	539762 318674
308	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NE (SE)	870	4	539948 317681
309	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NW (W)	872	4	538159 317703
310	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (W)	872	4	538159 317703
311	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 236.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (W)	872	4	538154 317713
312	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 368.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	876	4	538980 317118

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
313	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	876	4	539000 319041
314	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 48.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8SW (S)	877	4	538981 317118
315	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	879	4	539008 319045
316	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 12.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NE (NW)	880	4	538376 318770
317	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	880	4	539652 317276
318	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 139.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (SE)	880	4	539652 317276
319	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	882	4	538153 317688
320	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SE (SE)	885	4	539766 317368
321	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17NW (NW)	886	4	538365 318765

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
322	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NW (NW)	887	4	538357 318758
323	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 70.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (W)	887	4	538147 317691
324	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A17SW (NW)	890	4	538142 318438
325	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SE (SE)	890	4	539775 317370
326	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 276.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17NW (NW)	891	4	538355 318763
327	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9NE (SE)	893	4	539965 317661
328	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 107.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7SE (S)	893	4	538703 317146
329	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	896	4	539906 318486
330	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 559.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	898	4	540030 317932

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
331	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	898	4	540030 317932
332	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	898	4	539042 319064
333	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	898	4	539042 319064
334	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	899	4	539043 319065
335	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	901	4	538819 317109
336	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	901	4	538820 317109
337	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A18NE (N)	903	4	539052 319069
338	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 291.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A18NW (N)	907	4	539037 319073
339	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 251.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A14SE (E)	908	4	540040 317935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
340	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 342.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NW (SW)	909	4	538284 317410
341	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 124.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8SW (S)	915	4	539002 317078
342	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	917	4	539526 318935
343	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A19NW (NE)	917	4	539526 318935
344	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (S)	918	4	539423 317116
345	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 68.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SW (S)	918	4	539423 317116
346	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 195.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (S)	918	4	539430 317118
347	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 367.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19NW (NE)	918	4	539519 318941
348	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 291.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	921	4	538830 317087

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
349	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 74.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17SW (NW)	922	4	538231 318650
350	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A8SW (S)	922	4	538996 317072
351	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A3NW (S)	930	4	538999 317063
352	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 249.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9SE (SE)	931	4	539797 317334
353	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 228.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SW (SE)	931	4	539668 317225
354	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	932	4	538732 317097
355	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A8SW (S)	932	4	538732 317097
356	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 91.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A23SE (N)	933	4	539127 319093
357	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 345.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A3NW (S)	937	4	539000 317056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
358	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 56.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A3NW (S)	938	4	539002 317056
359	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 344.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19NW (NE)	940	4	539653 318878
360	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NE (SE)	941	4	539987 317592
361	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9NE (SE)	944	4	539989 317587
362	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SE (SE)	946	4	539787 317303
363	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 215.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17SW (NW)	948	4	538170 318607
364	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 624.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A17SW (NW)	948	4	538170 318607
365	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 102.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A9SE (SE)	950	4	539796 317306
366	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	952	4	538096 317642

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
367	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	952	4	538096 317642
368	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 230.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A14NE (E)	953	4	540018 318345
369	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 222.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7NW (SW)	954	4	538090 317651
370	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 345.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7SW (SW)	968	4	538262 317346
371	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 309.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A3NW (S)	971	4	538761 317049
372	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 199.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A9NE (SE)	974	4	540002 317546
373	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 172.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	974	4	539867 318709
374	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	978	4	538465 317165
375	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 365.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A7SE (SW)	986	4	538469 317152

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
376	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 73.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A4NW (S)	987	4	539443 317050
377	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A4NW (S)	987	4	539443 317050
378	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A19SE (NE)	987	4	539970 318565
379	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 177.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A4NW (S)	990	4	539452 317050
380	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A3NW (S)	990	4	539019 317002
381	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 145.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A23SE (N)	991	4	539179 319146
382	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A23SE (N)	991	4	539179 319146
383	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 355.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7SE (SW)	992	4	538631 317067
384	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 271.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A15SW (E)	993	4	540098 317751

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
385	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A3NW (S)	998	4	539022 316994
386	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 307.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 0	A23SE (N)	998	4	539175 319153
387	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 345.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A3NW (S)	999	4	539021 316993
388	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A7NW (SW)	1000	4	538058 317609
389	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 151.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A3NW (S)	1000	4	539022 316992
390	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 37.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Nene Primacy: 2	A23SE (N)	1000	4	539206 319150

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
391	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Broadgate, Sutton St James Name: Birds Drove Corner Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00280 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: SH-8-01/89, RD7-8-01/89, 2500/5264	A13SW (SW)	265	2	538746 317871
392	**Historical Landfill Sites** Licence Holder: Not Supplied Location: Sutton St James, Lincolnshire Name: Holly Tree House - Manor Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD00247 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: RD7-41-01/89, SH-41-01/89, 2500/5057	A13SW (SW)	278	2	538735 317864
	Local Authority Landfill Coverage Name: South Holland District Council - Has no landfill data to supply		0	3	539045 318060
	Local Authority Landfill Coverage Name: Lincolnshire County Council - Had landfill data but passed it to the relevant environment agency		0	5	539045 318060
393	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A14SW (E)	462	-	539592 317935
394	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1958	A14NW (E)	512	-	539595 318220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
395	**Control of Major Accident Hazards Sites (COMAH)** Name: Johnson and Son Location: 47, Chapelgate, Sutton St. James, SPALDING, Lincolnshire, PE12 0EF Reference: 5525 Type: Lower Tier **Status: Record Ceased To Be Supplied Under COMAH Regulations** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	600	6	539654 318317
396	**Planning Hazardous Substance Consents** Name: Banks Odam Dennick Ltd Location: Chapel Gate, SUTTON ST JAMES, Lincolnshire, PE Authority: South Holland District Council Application Ref: H20/1219/92 Hazardous Substance: Part B, Highly Reactive and Explosive Substance, Ammonium nitrate and mixtures of, where amount held is greater than or equal to 500 tonnes Maximum Quantity: 1500 Application date: 24th November 1992 **Decision: Unknown at time of reportUnknown** Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	269	7	539327 318245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: West Walton Formation, Ampthill Clay Formation And Kimmeridge Clay Formation (Undifferentiated)	A13SE (NE)	0	1	539045 318060
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	0	1	539045 318000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (NE)	0	1	539045 318060
	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	A13SE (NE)	0	1	539045 318060
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (NE)	0	1	539045 318060
	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	A13SE (NE)	0	1	539045 318060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
397	**Contemporary Trade Directory Entries** Name: F S Campling & Sons Location: 26, Fishergate, Sutton St. James, Spalding, Lincolnshire, PE12 0EN Classification: Road Haulage Services **Status:** **Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	312	-	538717 318277
398	**Contemporary Trade Directory Entries** Name: J E Garner Location: 71, Chapelgate, Sutton St. James, Spalding, Lincolnshire, PE12 0EF Classification: Petrol Filling Stations **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	442	-	539505 318264
399	**Contemporary Trade Directory Entries** Name: Dusty Sparkle Location: Chapelgate, Sutton St. James, Spalding, Lincolnshire, PE12 0EE Classification: Commercial Cleaning Services **Status:** **Inactive** Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	563	-	539605 318343
400	**Contemporary Trade Directory Entries** Name: Johnson & Son Location: 47, Chapelgate, Sutton St. James, Spalding, Lincolnshire, PE12 0EF Classification: Agricultural Merchants **Status:** **Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	600	-	539654 318317
401	**Fuel Station Entries** Name: Garners Garage Location: 71, Chapelgate, Sutton St. James, Spalding, Lincolnshire, PE12 0EF Brand: Pace Premises Type: Petrol Station **Status:** **Open** Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	443	-	539506 318266
402	**Points of Interest - Commercial Services** Name: F S Campling & Sons Location: 26 Fishergate, Sutton St. James, Spalding, PE12 0EN Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (NW)	312	8	538716 318276
403	**Points of Interest - Manufacturing and Production** Name: Tanks Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	4	8	539024 318104
403	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	9	8	539001 318098
403	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	10	8	539012 318103
403	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	15	8	539000 318104
403	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	17	8	539009 318109
403	**Points of Interest - Manufacturing and Production** Name: Tank Location: PE12 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A13NW (NW)	20	8	538998 318109

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
403	**Points of Interest - Manufacturing and Production** Name: M C Heanes & Son Location: 149 Chapelgate, Sutton St. James, Spalding, PE12 0EF Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13NW (NW)	38	8	538980 318132
403	**Points of Interest - Manufacturing and Production** Name: M C Heanes & Son Location: 149 Chapelgate, Sutton St. James, Spalding, PE12 0EF Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13NW (NW)	38	8	538980 318132
404	**Points of Interest - Manufacturing and Production** Name: C & N Campling Location: Saxon Halt 20, Fishergate, Sutton St. James, Spalding, PE12 0EN Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13NW (NW)	275	8	538746 318255
404	**Points of Interest - Manufacturing and Production** Name: C & N Campling Location: 20 Fishergate, Sutton St. James, Spalding, PE12 0EN Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A13NW (NW)	275	8	538746 318254
405	**Points of Interest - Manufacturing and Production** Name: D S Ward Location: Denbar, Baulkins Drove, Sutton St. James, Spalding, PE12 0JX Category: Farming Class Code: Arable Farming Positional Accuracy: Positioned to address or location	A14SW (SE)	294	8	539414 317898
406	**Points of Interest - Manufacturing and Production** Name: Piggery Location: PE12 Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A8NW (SW)	369	8	538763 317697
407	**Points of Interest - Manufacturing and Production** Name: Piggery Location: PE12 Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (SE)	542	8	539580 317679
408	**Points of Interest - Manufacturing and Production** Name: Grange Farm (Lincolnshire) - Solar Photovoltaics (DECC) Location: Grange Farm, Fishergate, Sutton St James, Spalding, Lincolnshire, PE12 0EZ Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A18SE (N)	630	8	539284 318741
409	**Points of Interest - Manufacturing and Production** Name: Piggery Location: PE12 Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	696	8	538885 317306
410	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: PE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A14NW (E)	330	8	539422 318161
411	**Points of Interest - Public Infrastructure** Name: J E Garner Location: 71 Chapelgate, Sutton St. James, Spalding, PE12 0EF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	442	8	539505 318264
411	**Points of Interest - Public Infrastructure** Name: John Eric Garner Location: 71 Chapelgate, Sutton St. James, Spalding, PE12 0EF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	443	8	539506 318266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
411	**Points of Interest - Public Infrastructure** Name: Garners Garage Location: 71 Chapelgate, Sutton St. James, Spalding, PE12 0EF Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (NE)	443	8	539506 318266
412	**Points of Interest - Public Infrastructure** Name: Sewage Works Location: PE12 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	578	8	539663 318223

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
South Holland District Council - Environmental Services	October 2013	Annual Rolling Update
Fenland District Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents		
Environment Agency - Anglian Region	April 2017	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	April 2017	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Fenland District Council - Environmental Health Department	February 2015	Annual Rolling Update
South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls		
Fenland District Council - Environmental Health Department	February 2015	Annual Rolling Update
South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Fenland District Council - Environmental Health Department	February 2015	Annual Rolling Update
South Holland District Council - Environmental Services	October 2014	Annual Rolling Update
Nearest Surface Water Feature		
Ordnance Survey	March 2017	
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
Registered Radioactive Substances		
Environment Agency - Anglian Region	January 2015	
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 - Central Area	April 2017	Quarterly
Environment Agency - Anglian Region - Northern Area	April 2017	Quarterly
Water Abstractions		
Environment Agency - Anglian Region	October 2016	Quarterly
Water Industry Act Referrals		
Environment Agency - Anglian Region	April 2017	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

Data Currency

Agency & Hydrological	Version	Update Cycle
Source Protection Zones Environment Agency - Head Office	April 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2017	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2017	Quarterly
Flood Defences Environment Agency - Head Office	May 2017	Quarterly
OS Water Network Lines Ordnance Survey	April 2017	6 Weekly
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

Data Currency

Waste	Version	Update Cycle
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	May 2017	Quarterly
Integrated Pollution Control Registered Waste Sites		
Environment Agency - Anglian Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries)		
Environment Agency - Anglian Region - Central Area	May 2017	Quarterly
Environment Agency - Anglian Region - Northern Area	May 2017	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - Anglian Region - Central Area	May 2017	Quarterly
Environment Agency - Anglian Region - Northern Area	May 2017	Quarterly
Local Authority Landfill Coverage		
Cambridgeshire County Council	May 2000	Not Applicable
Fenland District Council	May 2000	Not Applicable
Lincolnshire County Council	May 2000	Not Applicable
South Holland District Council - Environmental Services	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Cambridgeshire County Council	May 2000	Not Applicable
Fenland District Council	May 2000	Not Applicable
Lincolnshire County Council	May 2000	Not Applicable
South Holland District Council - Environmental Services	May 2000	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 - Central Area	March 2003	Not Applicable
Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - Anglian Region - Central Area	March 2003	Not Applicable
Environment Agency - Anglian Region - Northern Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	March 2017	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Cambridgeshire County Council	February 2016	Annual Rolling Update
Fenland District Council	February 2016	Annual Rolling Update
South Holland District Council	January 2016	Annual Rolling Update
Lincolnshire County Council - Highways and Planning Department	June 2010	Annual Rolling Update
Planning Hazardous Substance Consents		
Lincolnshire County Council - Highways and Planning Department	August 2007	Annual Rolling Update
Cambridgeshire County Council	February 2016	Annual Rolling Update
Fenland District Council	February 2016	Annual Rolling Update
South Holland District Council	January 2016	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	As notified
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	April 2017	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	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 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2017	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland Natural England	May 2017	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	January 2017	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	June 2017	Bi-Annually
Marine Nature Reserves Natural England	January 2017	Bi-Annually
National Nature Reserves Natural England	January 2017	Bi-Annually
National Parks Natural England	February 2017	Bi-Annually
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	January 2017	Bi-Annually
Sites of Special Scientific Interest Natural England	January 2017	Bi-Annually
Special Areas of Conservation Natural England	January 2017	Bi-Annually
Special Protection Areas Natural England	January 2017	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	May 2017	Bi-Annually

Data Suppliers

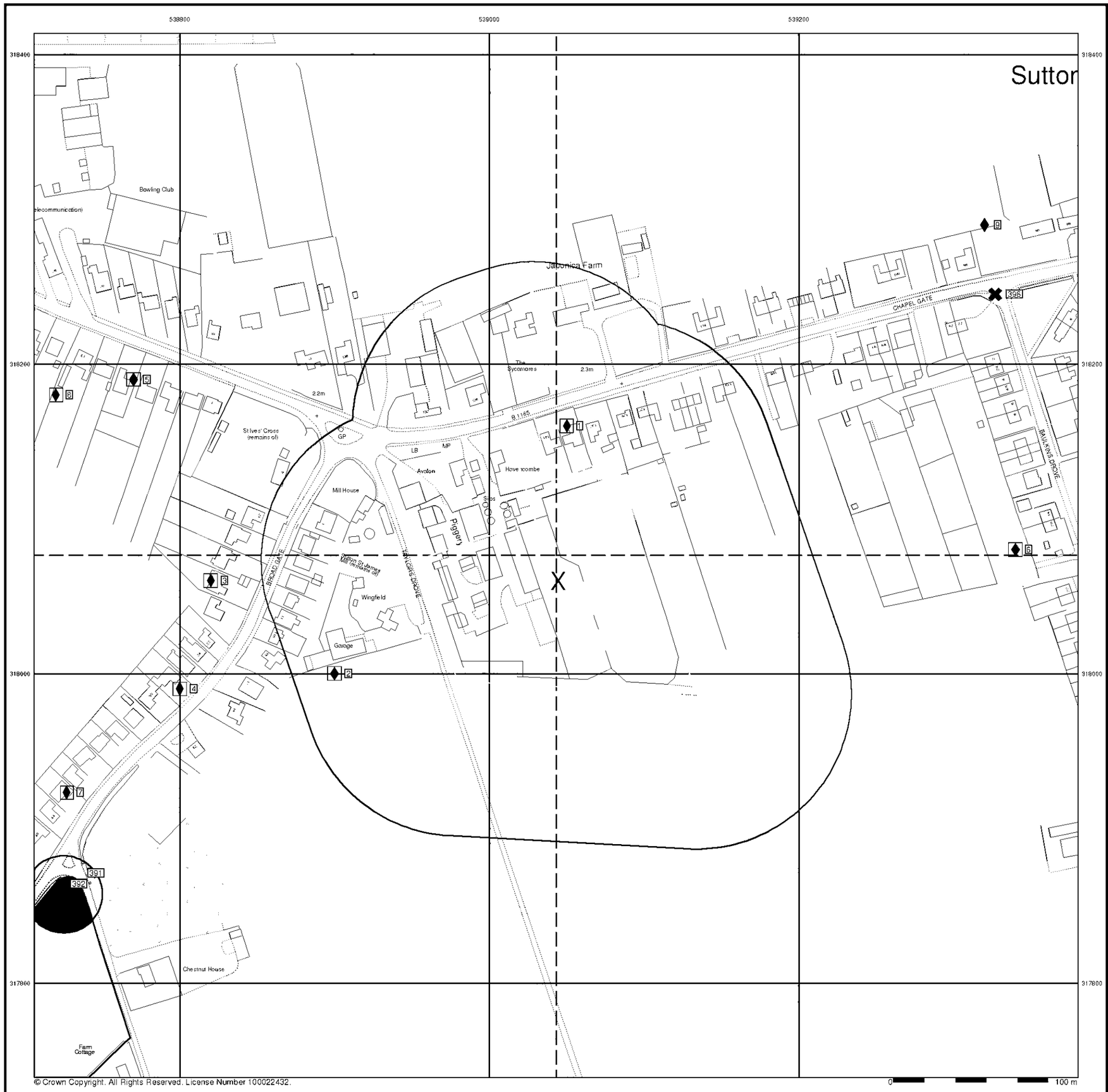
A selection of organisations who provide data within this report

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
1	**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
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**South Holland District Council - Environmental Services** Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Website: www.sholland.gov.uk
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 023 8079 2000 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.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	**Health and Safety Executive** 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	**South Holland District Council** Council Offices, Priory Road, Spalding, Lincolnshire, PE11 2XE	Telephone: 01775 761161 Fax: 01775 710772 Website: www.sholland.gov.uk
8	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	**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.



General

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

Several of Type at Location | Pylon | Overhead Transmission Line

Agency and Hydrological

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

Hazardous Substances

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

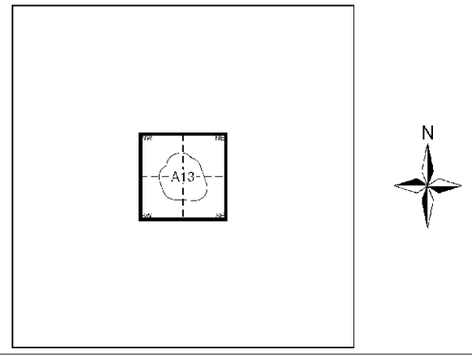
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Segment A13



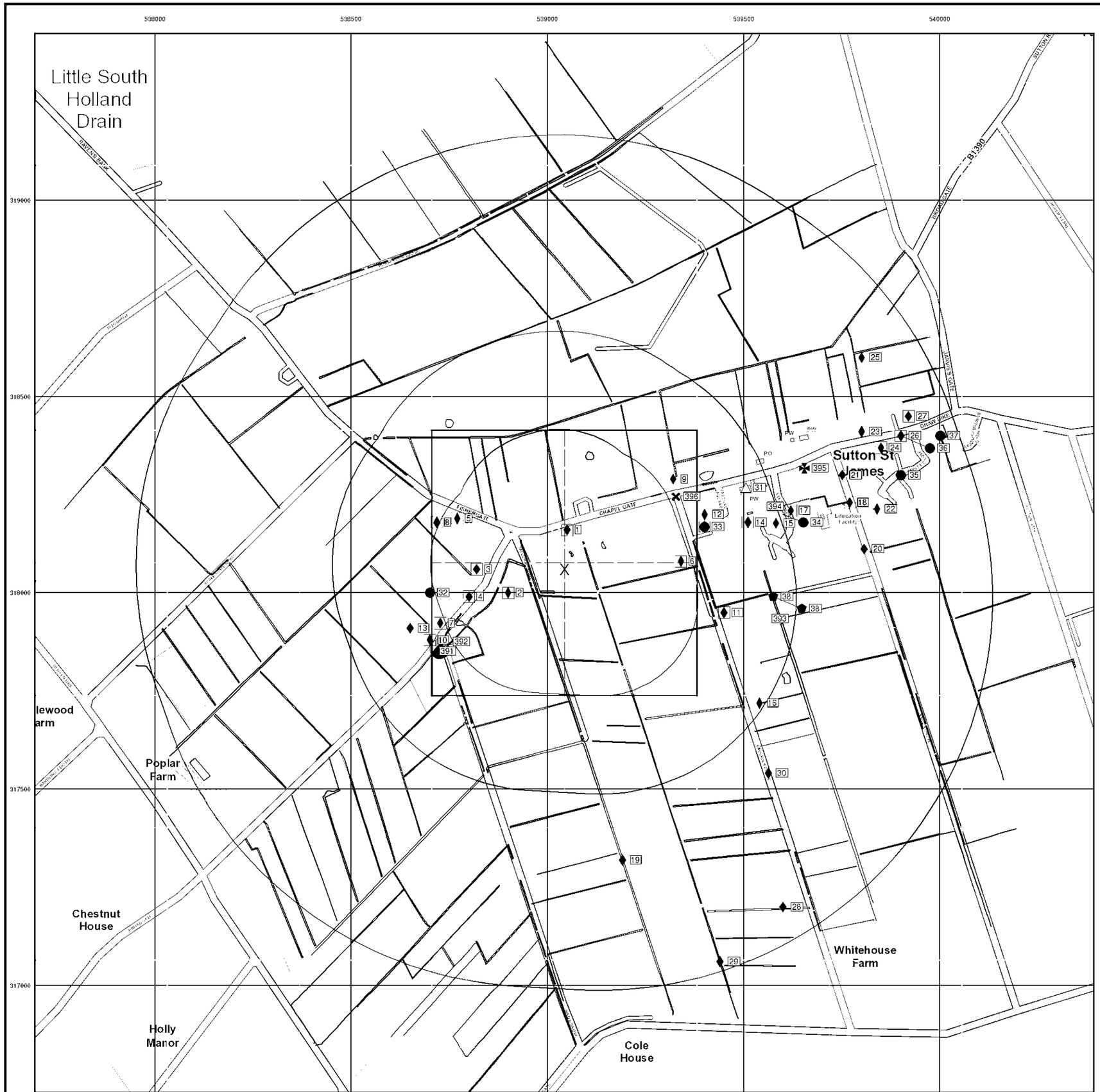
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Plot Buffer (m):	100

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

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



General

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

Several of Type at Location

Agency and Hydrological

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

Hazardous Substances

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

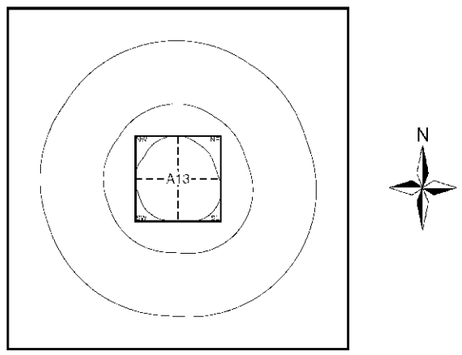
Geological

- BGS Recorded Mineral Site

Waste

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

Site Sensitivity Map - Slice A



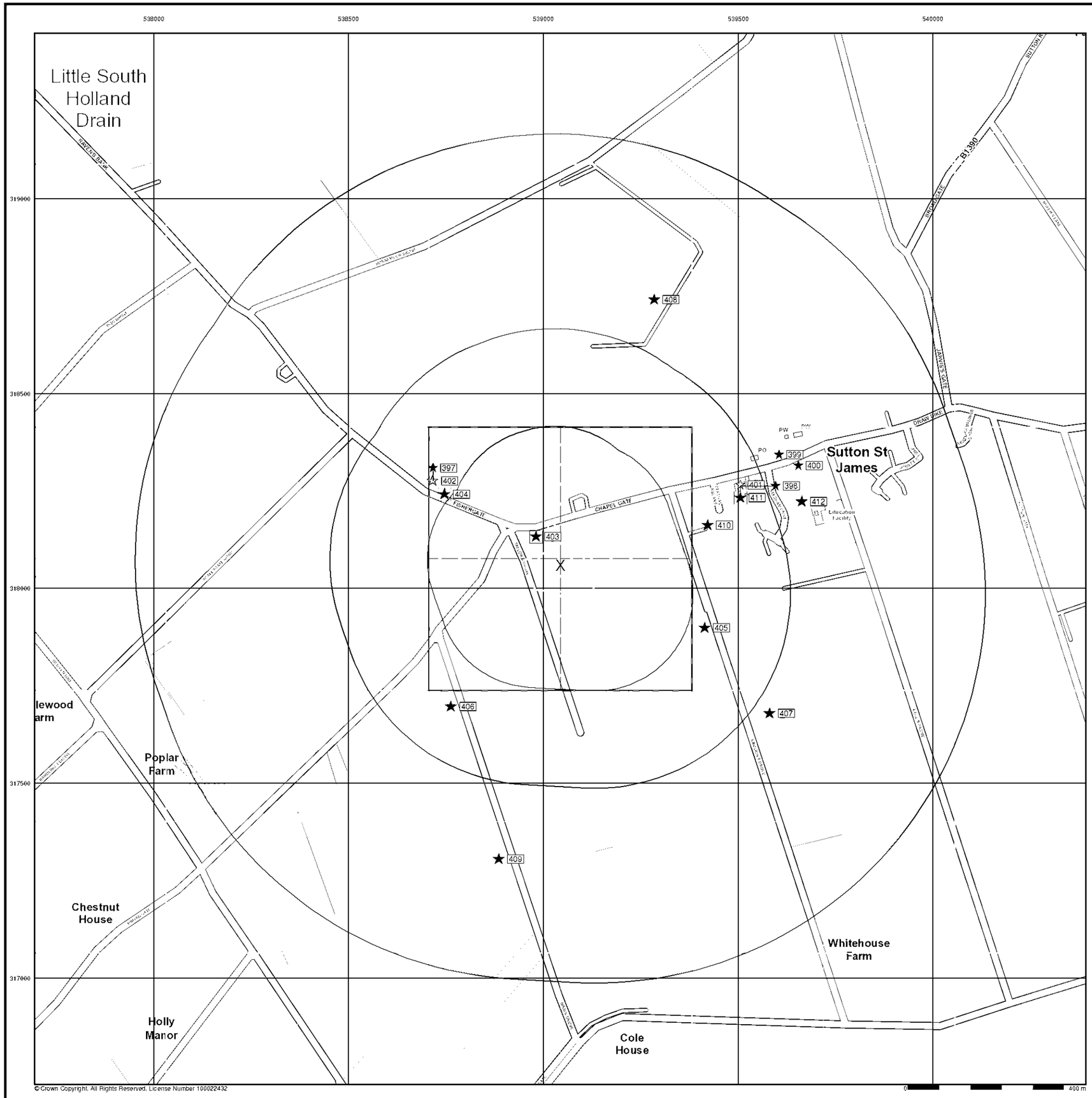
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

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Industrial Land Use Map

General

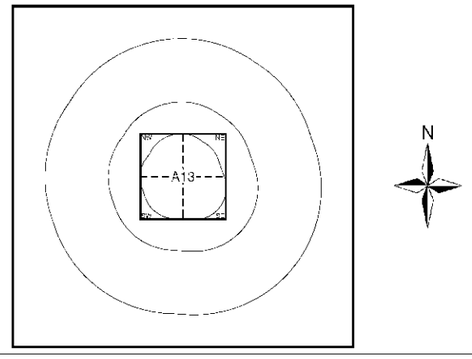
Specified Site | Specified Buffer(s) | Bearing Reference Point

Slice | 8 Map ID

Industrial Land Use

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

Industrial Land Use Map - Slice A



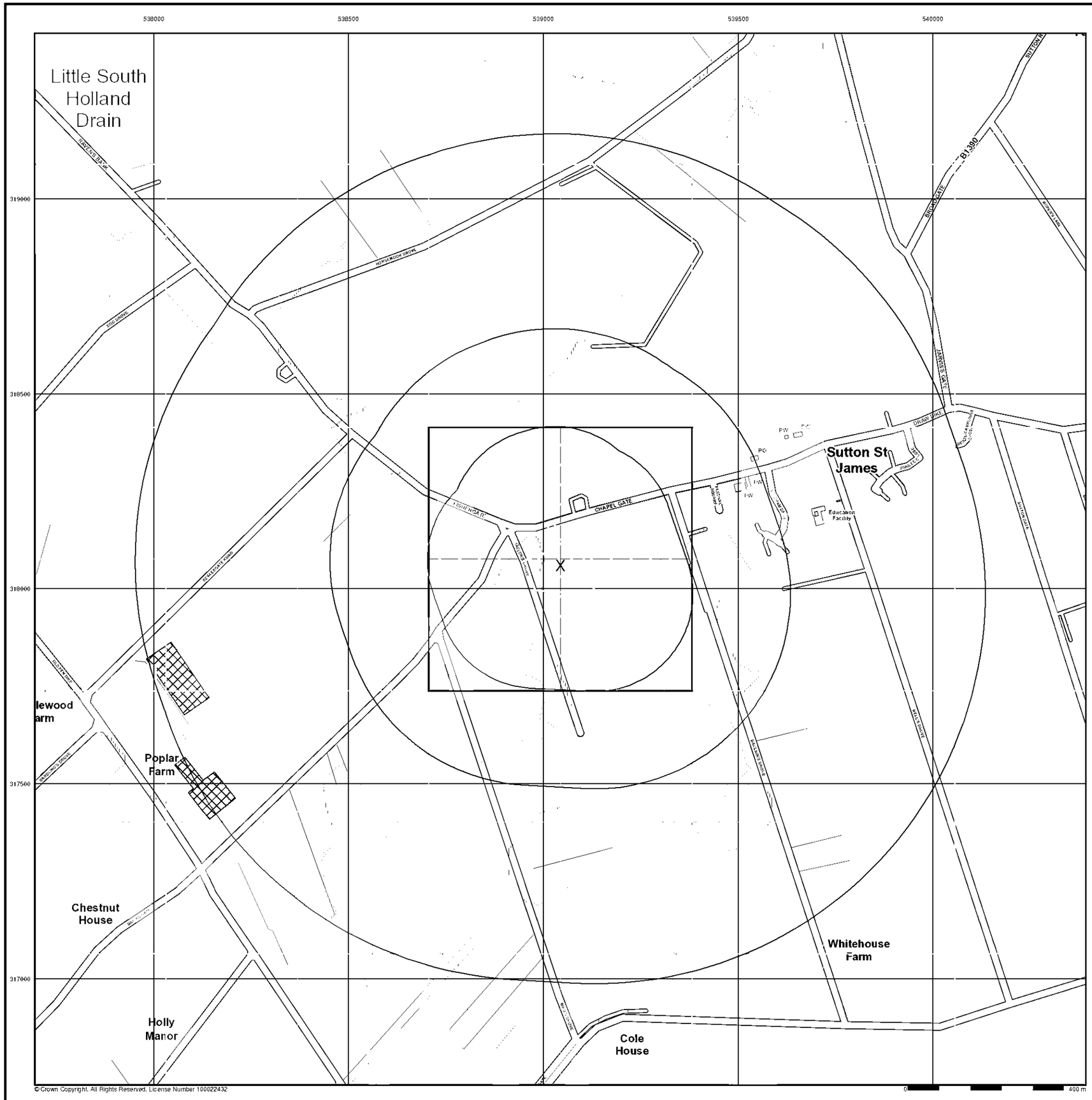
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

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General

Specified Site

Specified Buffer(s)

X Bearing Reference Point

Agency and Hydrological (Flood)

Extreme Flooding from Rivers or Sea without Defences (Zone 2)

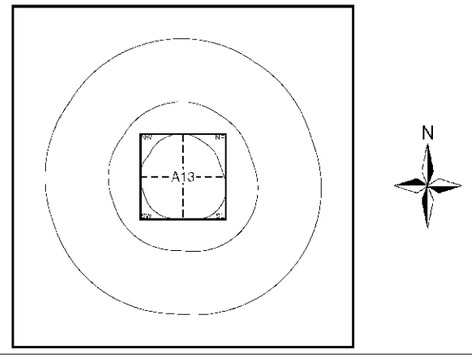
Flooding from Rivers or Sea without Defences (Zone 3)

Area Benefiting from Flood Defence

Flood Water Storage Areas

Flood Defence

Flood Map - Slice A



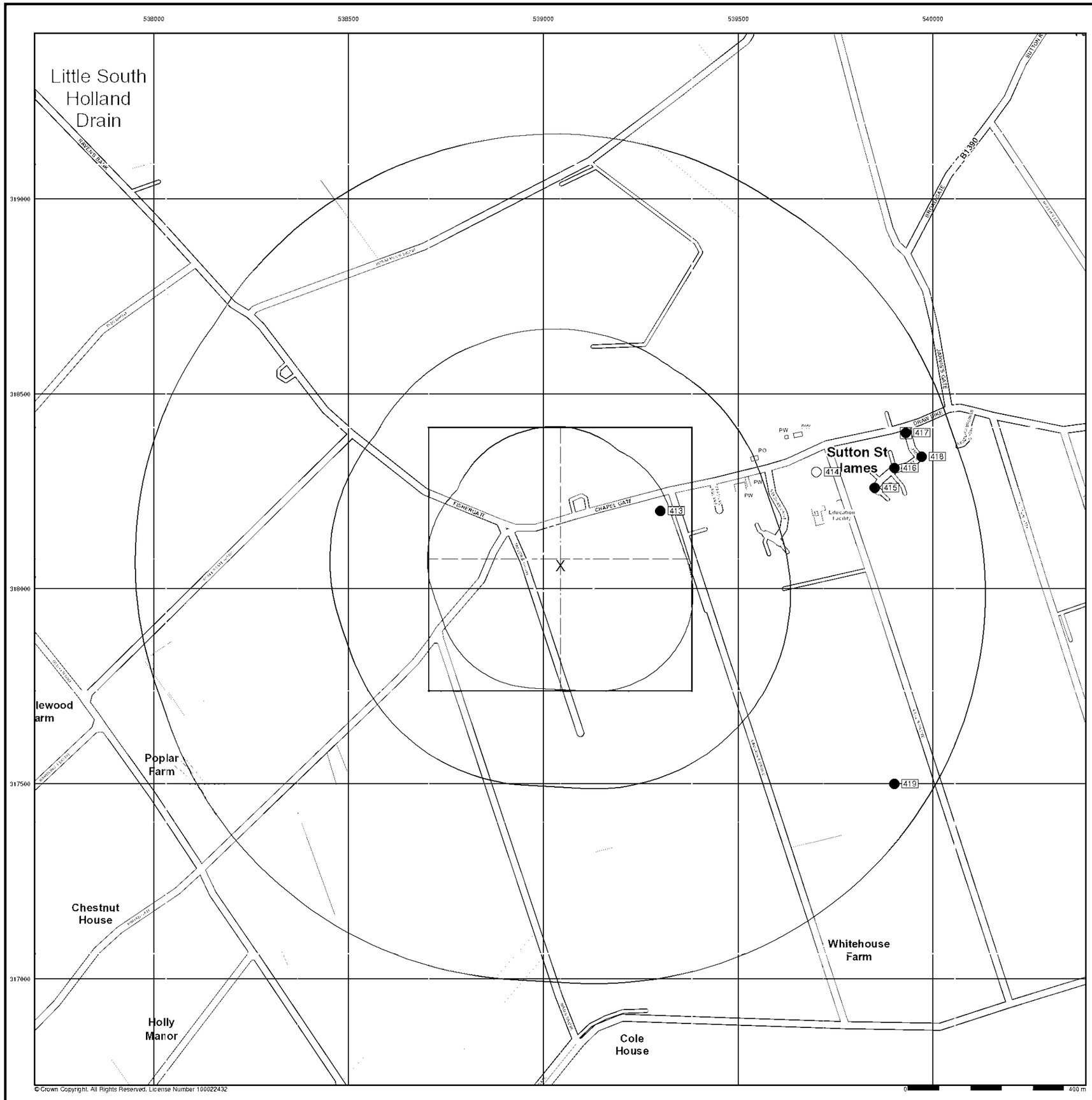
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

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Web: www.envirocheck.co.uk



General

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

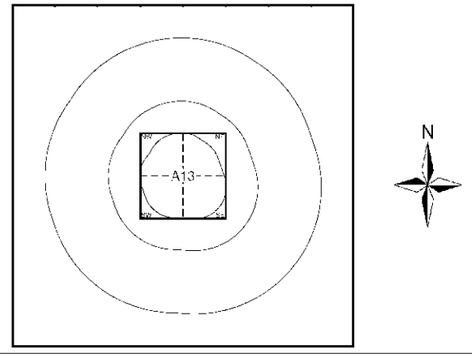
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A



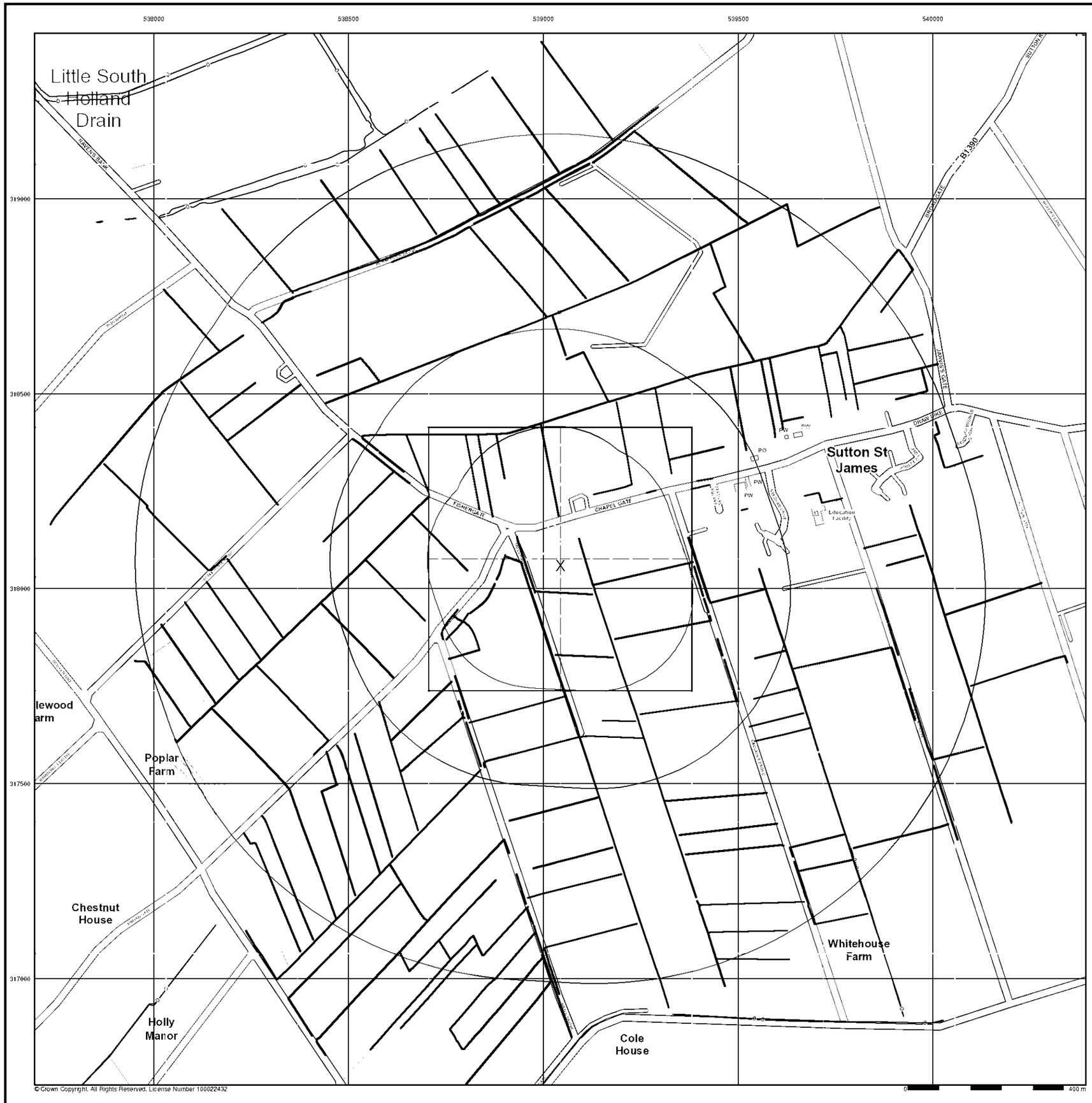
Order Details

Order Number:	129559767_1_1
Customer Ref:	R17053
National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

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Web: www.envirocheck.co.uk



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General

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

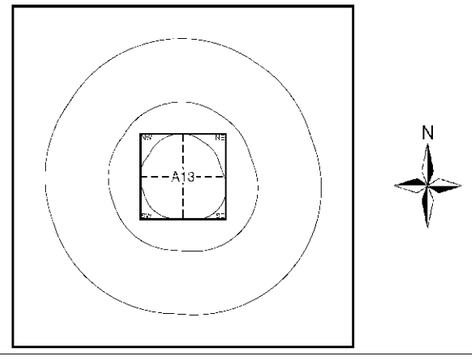
OS Water Network Data

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

Contours (height in meters)

- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



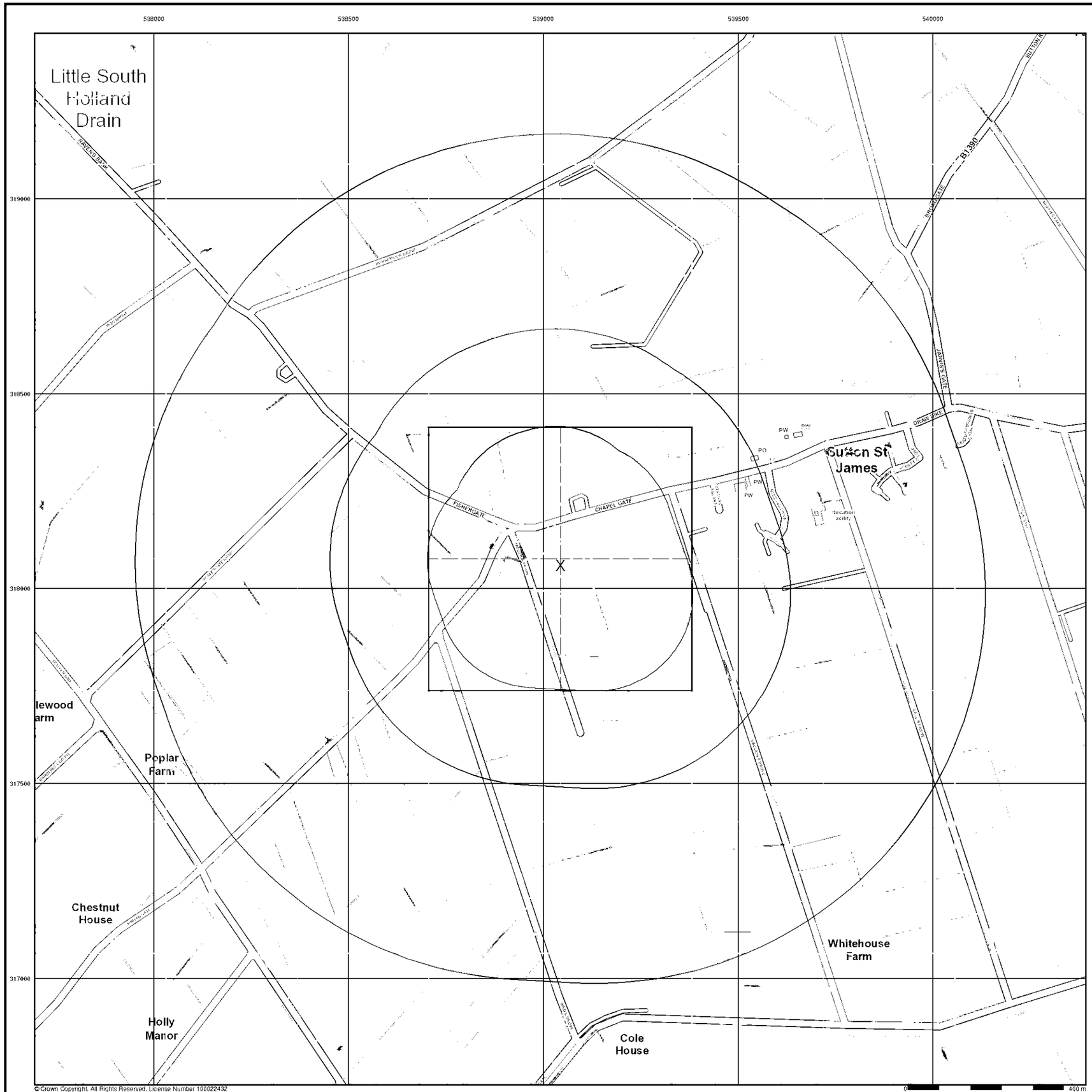
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National Grid Reference:	539040, 318060
Slice:	A
Site Area (Ha):	1.79
Search Buffer (m):	1000

Site Details

149, Chapelgate, Sutton St. James, SPALDING, PE12 0EF

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General

Specified Site

Specified Buffer(s)

Bearing Reference Point

Risk of Flooding from Surface Water

High - 30 Year Return

Medium - 100 Year Return

Low - 1000 Year Return

Suitability

See the suitability map below

National to county

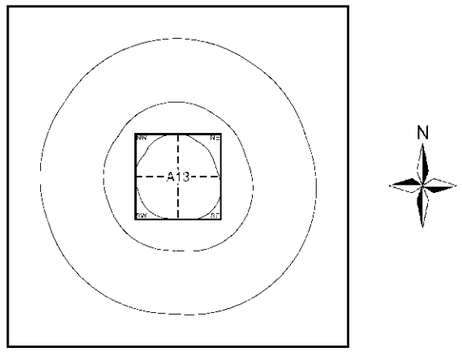
County to town

Town to street

Street to parcels of land

Property

EA/NRW Suitability Map - Slice A



Order Details

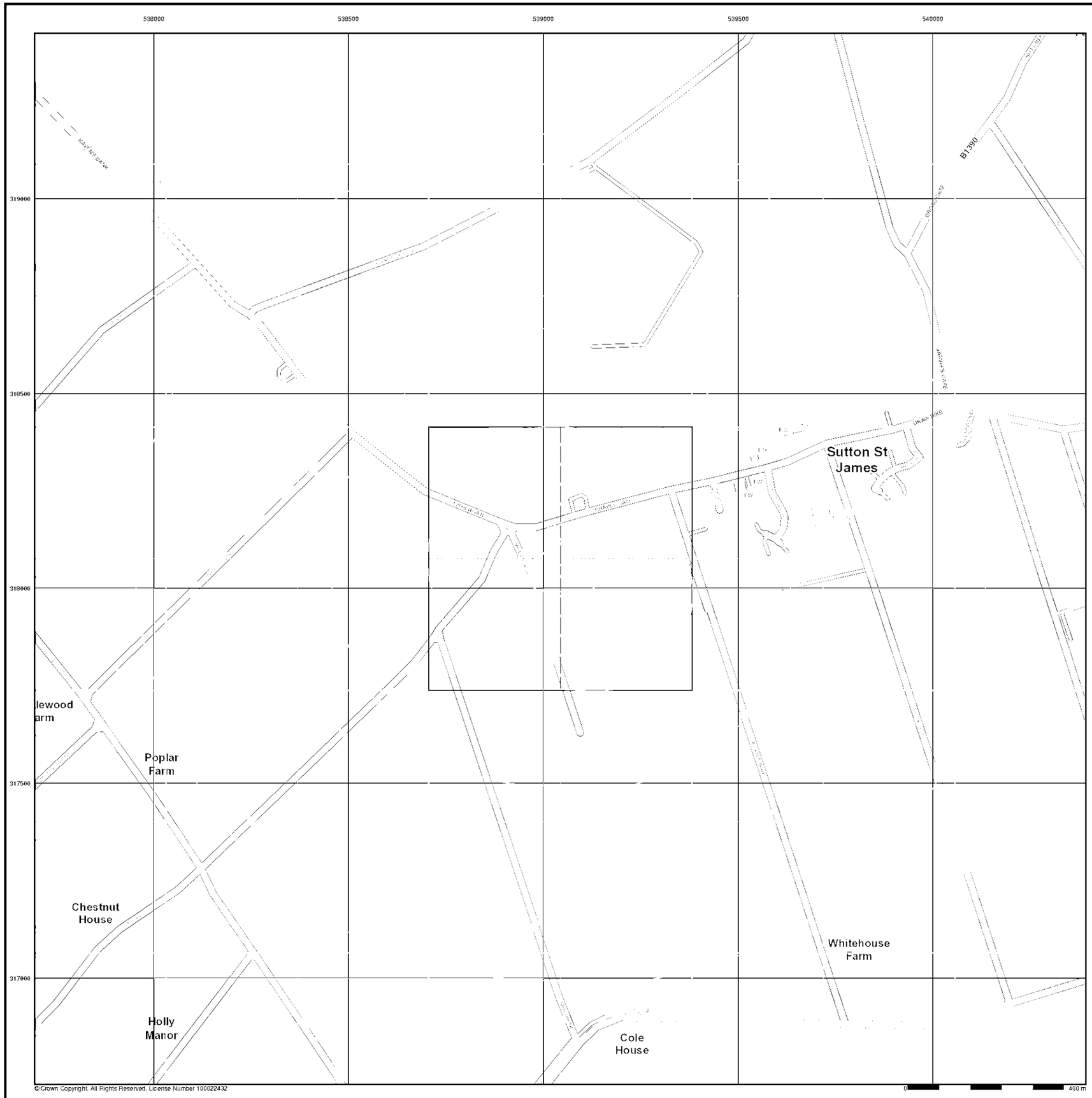
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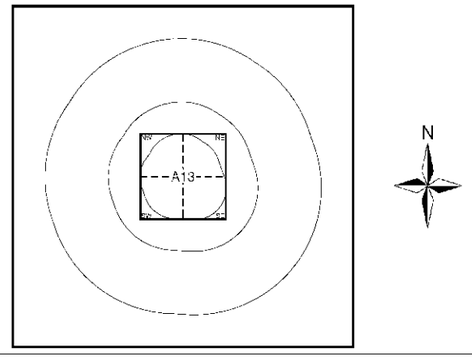
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A



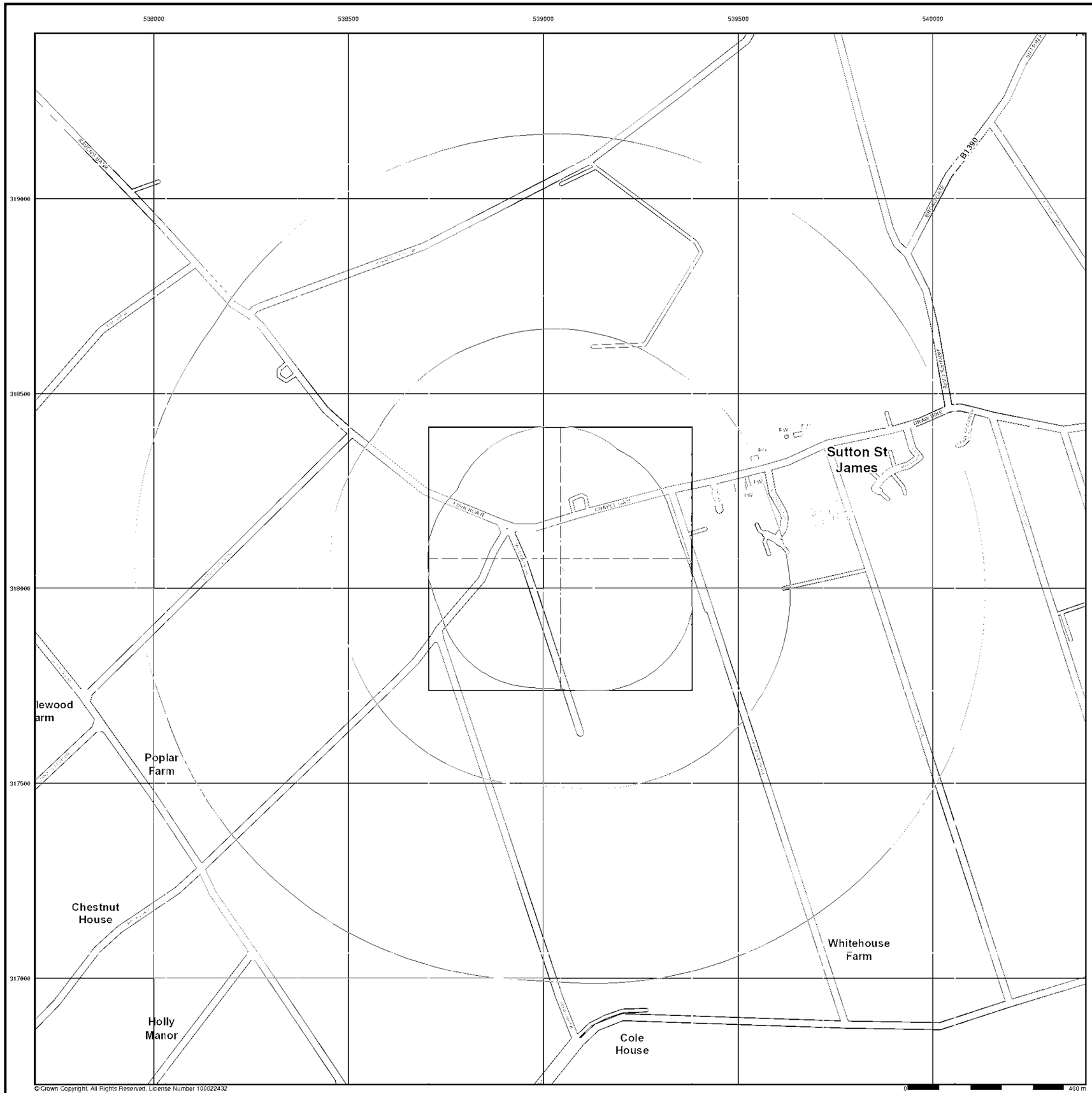
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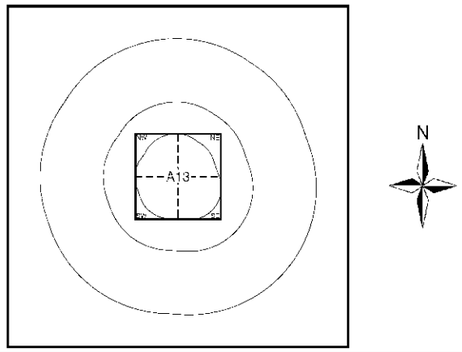
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg

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

Estimated Soil Chemistry Cadmium - Slice A



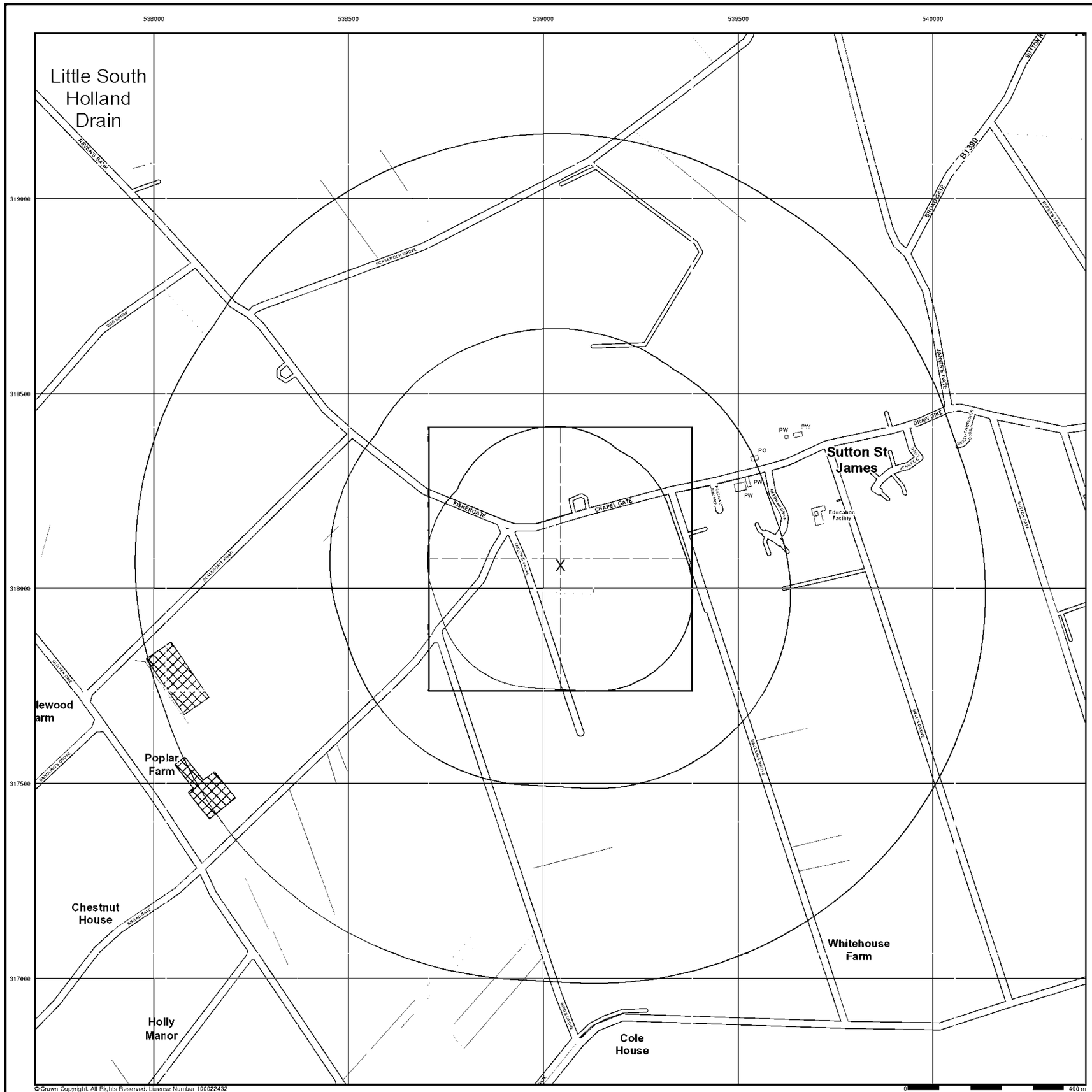
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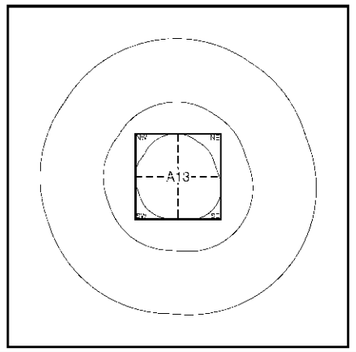
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg

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

Estimated Soil Chemistry Chromium - Slice A



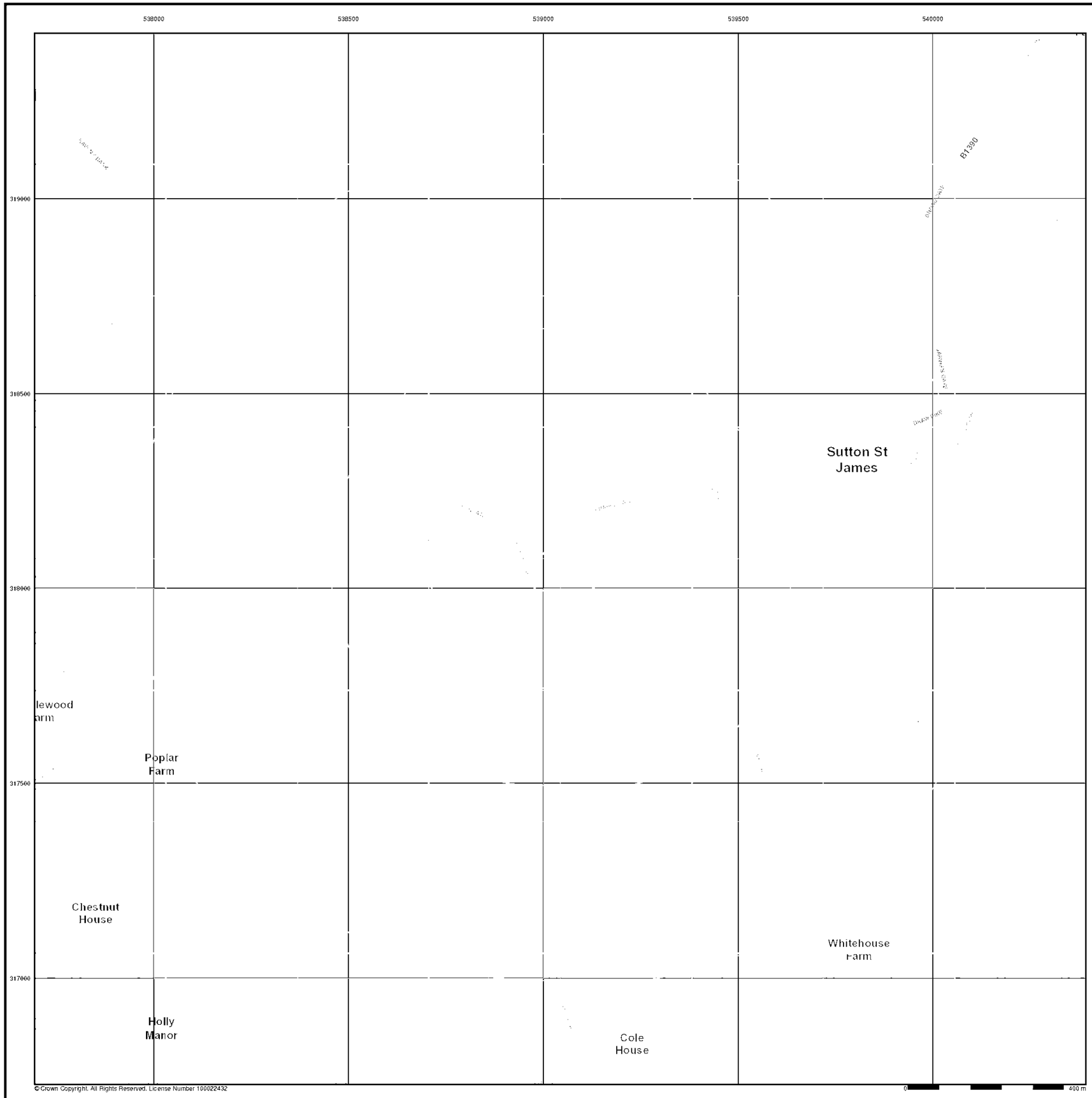
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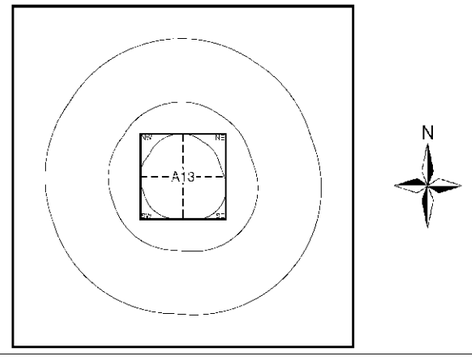
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg

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

Estimated Soil Chemistry Lead - Slice A



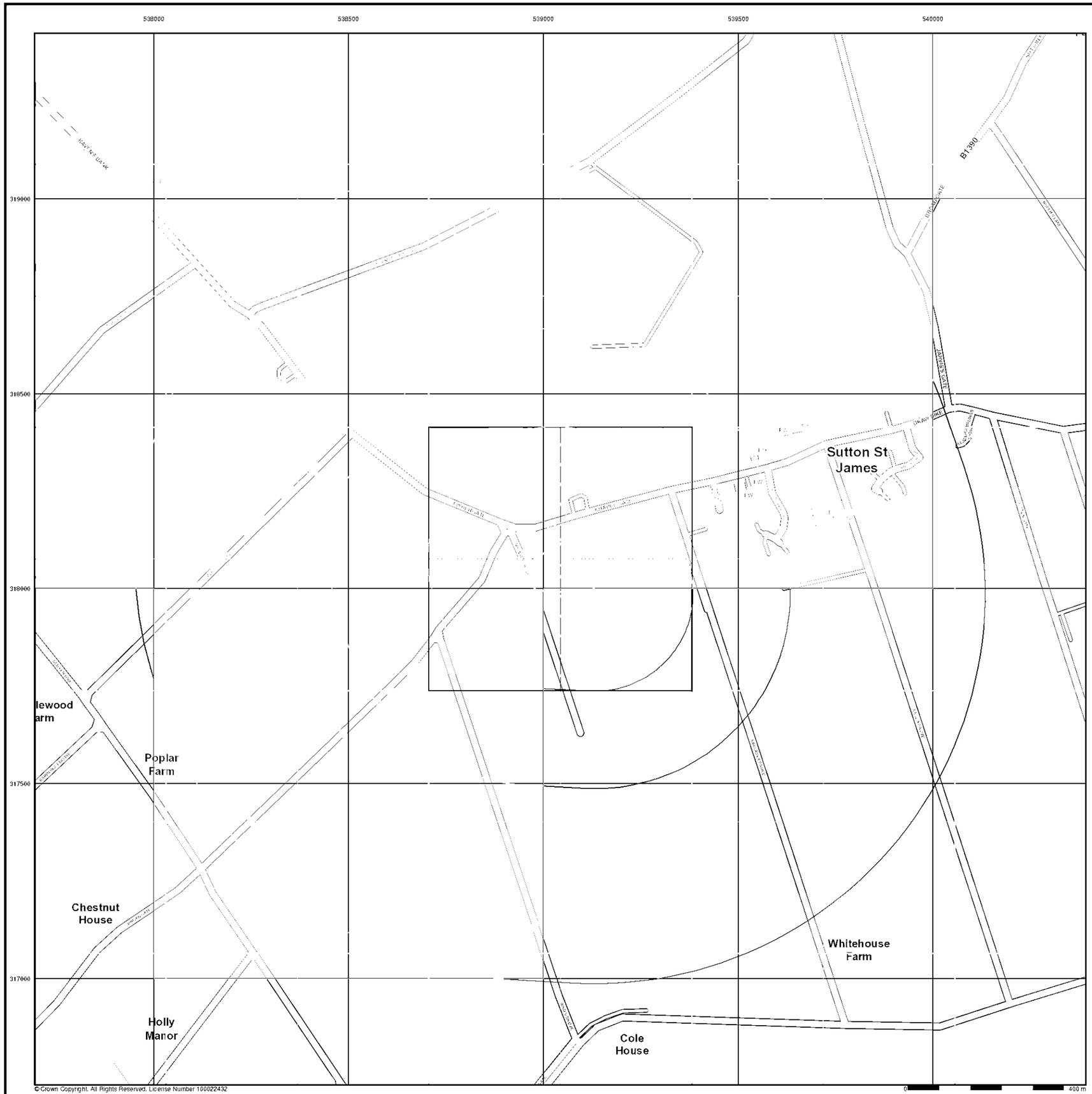
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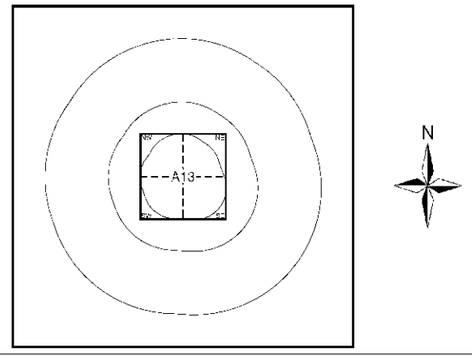
Specified Site | Specified Buffer(s) | X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg

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

Estimated Soil Chemistry Nickel - Slice A



Order Details

Order Details:	129559767_1_1
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Appendix D

ZETICA UXB PLAN

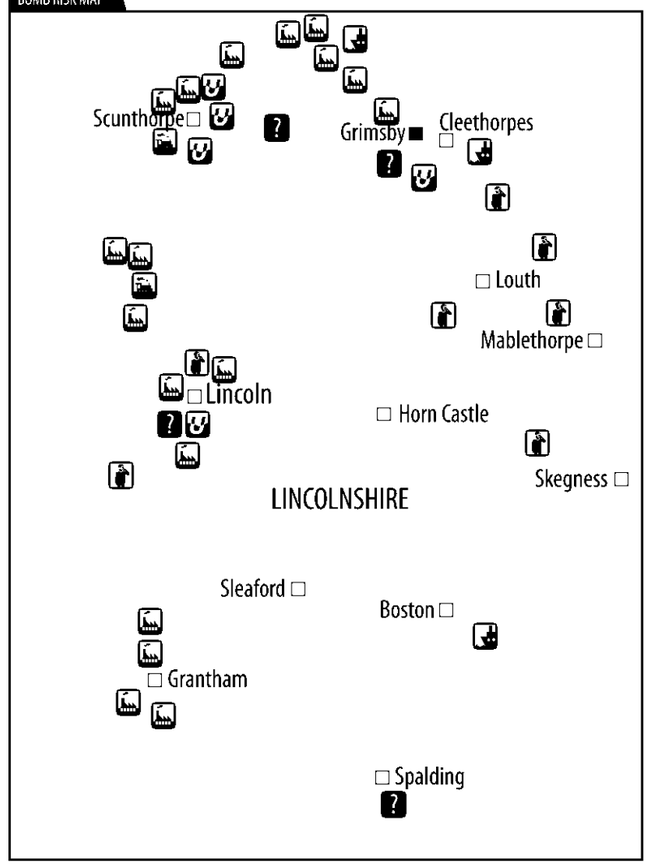
REGIONAL UNEXPLODED BOMB RISK

LINCOLNSHIRE

DENSITY OF BOMBS PER BOROUGH

Borough			
	335	0	162
	25	0	7
	634	0	78
	140	0	19
	98	0	7
	69	0	27
	305	0	8
	51	0	27
	257	0	8

BOMB RISK MAP



OTHER WWII TARGETS

- military
- transport
- utilities
- industry
- docks
- other

BOMB TONNAGE

- >1000
- >500
- >100
- > 0
- unverified

BOMB RISK

- high
- moderate
- low

The information in this regional UXB risk map is derived from a number of sources and should be read in conjunction with the "Users' Guide" (printed overleaf). Zetica cannot guarantee the accuracy or completeness of the information or data.

This map covers regions of coast with beaches, estuaries and alike. Further consideration of the bomb risk is required in these areas. The often inaccessible nature and changing ground conditions (e.g. movement of silt that may contain ordnance) means that historical bombing records for these areas are often poor or inaccurate and further assessment of the bomb risk may be required as part of a site specific study.

A FOUR-STEP PROCESS

Risk assessment and method statement from a qualified explosive ordnance clearance (EOC) operative.

Surface geophysical survey to allow shallow groundwork.

MAGCONE detects UXBs and obstructions on piling layout to the no-risk depth.

Detected UXBs can be dealt with by our EOC engineers and a Clearance Certificate issued for the site.

zetica

For more details on this and related services, telephone: +44 (0) 1993 886682 or visit our website: www.zetica.com

BOMB MAP USERS' GUIDE

Sources of information and explanation of bomb risk

Why?

Unexploded bombs (UXB) still present a risk to construction projects long after the end of the Second World War (WWII). UXBs often entered the ground unnoticed at high velocity and penetrated to a depth of several metres. Here they remain – vulnerable to disturbances from construction work. Beyond the depth of shallow excavation work, the greatest risk is to piling, drilling and probing crews. A piling rig could repeatedly hit a UXBs with considerable force before the crew realises an obstruction has been impacted. It could then be up to 72 hours before the detonator activates.

Who?

The responsibility for avoiding UXB risk usually lies with construction companies or house builders particularly those who are redeveloping urban sites. In addition, project engineering or environmental consultants are expected to advise their clients of a site's history. Other interested parties include those organisations whose employees are physically at most risk from intrusive works, normally piling companies, drillers or probing operators.

How?

UXB risk should be assessed for every site, but especially those in known heavily bombed areas or those situated near war-time strategic installations that were priority targets for enemy aircraft, for example, airfields. Zetica's regional bomb risk map is therefore a first point of reference from which the relative, potential abundance of UXBs can be judged. Consultants then advise their clients that an ordnance-risk desk study is required, which they may obtain from external sources. Construction companies or house builders who assess their own risk could choose to come direct to Zetica.

When?

Do not wait for the piling or drilling company to be on site before thinking about UXB risk – it will inevitably cause delays and higher costs. Request the regional bomb risk map from Zetica as soon as a site is being considered, and then use it to help you or your clients to decide if an ordnance-risk desk study is required.

Where?

Maps can be obtained for any county in England, Scotland, Wales or Northern Ireland – or for any London borough. They can help determine the areas that were most heavily bombed – but no part of the country should be considered 100% safe from UXB risk. Even remote rural areas can have a high risk if, for example, they were locations for decoy airfields or beacons that were lit to fool enemy pilots into thinking they had located a burning city that had been successfully hit by others in the raid.

How to use this regional map

This map is designed to give you an indication of the potential risk from UXBs in your area. If you are conducting work that involves excavation, piling or other disturbance of the ground, then you should use the map to identify the category of risk for your site.

The risk boundaries are a guide, compiled from data based on the political areas for which records are held; being just outside a high-risk area does not mean there is no UXB risk. You should use the map to assist in your decision of whether to investigate the UXB risk further.

Information on the regional risk remaining from UXBs in the UK

Zetica has built the largest UXB database of its kind in the UK. It includes a unique digital library of bomb census data, and maps showing key strategic points and bombing densities from the First and Second World Wars. The main sources of information include records from central government (Public Records Office), the Ministry of Defence, and the German Luftwaffe.

Using information from this database, Zetica has published maps of UXB risk on a regional, county and borough scale. The maps indicate relative degrees of UXB risk based on available records for bombing densities and known targeted areas for regions within the UK. The risk is broken down into individual boroughs, towns or cities. The data are based on the historical boroughs and are then overlaid onto the modern map. It is important to note that more-detailed research may be required for individual sites, particularly where proximity to a potential WWII target means the local risk may be higher.

High risk

Areas designated as high risk are those that show a high density of bombing hits (50+ bombs per 1000 acres) and abundant potential WWII targets. In high-risk regions, further action to mitigate UXB risk is considered essential.

Moderate risk

Moderate-risk regions are those that show a bomb density of between 11 and 50 bombs per 1000 acres and that may contain potential WWII targets. Action to mitigate the risk is considered essential, albeit more likely that a reduced scope of work is required compared with that needed for high-risk regions.

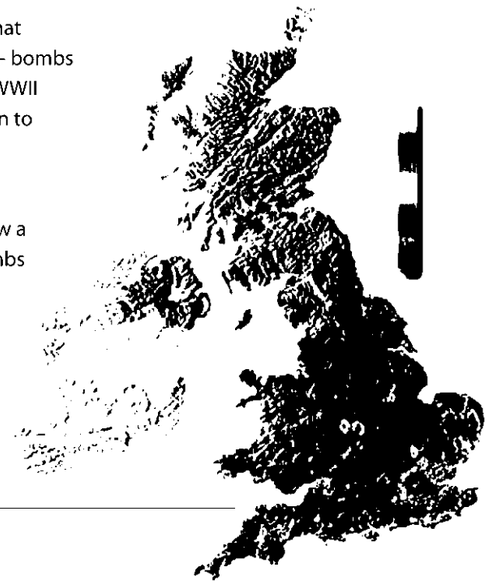
Low risk

Low-risk regions are those with a bombing density of up to 10 bombs per 1000 acres. These areas are considered to have a significant but low UXB risk. In general, further action to mitigate the risk is considered prudent, although not essential. Care is required when assessing the risk for specific sites where the risk may be higher because of local wartime activity.

Other WWII targets

Other regions with the risk of UXBs are key strategic points as defined by the government during WWII as representing potential enemy targets. Where these exist outside areas mapped as high, moderate or low risk, a site-specific assessment of the UXB risk may be required.

Relative UXB risk across UK



What to do if...

...you have a site that has a potential UXB risk

In the absence of current legislation requiring you to address the risk from UXBs, your responsibilities under health and safety legislation and regulations such as construction design and management require that you address all identified risks. The first stage is to request further advice from a professional adviser such as Zetica, or to gain more site-specific information by commissioning an ordnance-risk desk study. Then a strategy to deal with the risk can be established that is tailored to your proposed work.

...you find a suspect item or require advice

If during site works you find a suspect (ordnance-related) item, it is very important that you do not touch or move it (even if it has already been moved by an excavator). If it is clearly ordnance related, then dial 999 and ask for the police. Ensure that the area around the item is kept as clear as possible without placing yourself at risk. If you are unsure and do not wish to cause undue alarm, or you just require some advice, then you can call Zetica. We have experienced qualified UXB specialists on hand who can offer support and advice during any site works.

More-detailed procedures should be established in advance if you are in an area where the risk of finding a UXB is shown to be significant (moderate to high).

Site-specific desktop studies

Zetica is able to provide high-quality, site-specific UXB risk information for any residential, industrial or commercial property in the UK. These desktop studies provide details of the bombing density within an area and for the site itself, in order to indicate the risks of UXBs still being present. A risk assessment is provided to facilitate informed decision making on whether any further risk mitigation measures are required.