

Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study

Curtins Ref: EB1843/GB/5007

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Client Name: Fusion Hatfield Hotels Limited

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For and on behalf of **Curtins**

Planning Guidance: Contamination Statement
Does the site described herein involve any of the following: a. Land which is known to be contaminated? No b. Land where contamination is suspected for all or part of the site? Yes c. A proposed use that would be particularly vulnerable to the presence of contamination? No

Table of Contents

1.0	Introduction.....	1
1.1	Scope of Phase 1 Investigation – Detailed Desk Top Study	1
2.0	Phase 1 – Detailed Desk Top Study	2
2.1	Previous Site Use.....	2
2.2	Surrounding Land Use	2
2.3	Mapping Data Recorded in the Envirocheck Report.....	3
2.4	Geographical and Special Features.....	6
2.5	Geology	6
2.5.1	Mining.....	7
2.6	Hydrogeology and Hydrology.....	8
2.7	Landfill	9
2.8	Public Utility Records	9
2.9	Preliminary Unexploded Ordnance (UXO) Risk Assessment.....	9
2.10	Other Significant Features Potentially Affecting Re-Development	9
2.11	Existing Reports	9
3.0	Conclusions	10
3.1	Conceptual Model	10
3.1.1	Potential Sources	10
3.1.2	Potential Pathways.....	11
3.1.3	Potential Receptors.....	12
3.2	Qualitative Risk Assessment.....	13
3.2.1	End User	13
3.2.2	Groundwater.....	16
3.2.3	Surface Water	17
3.2.4	Construction Workers.....	17
3.2.5	Construction Materials	18

EB1843/GB/5007 Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study

3.2.6	Local Ecology	19
3.3	Recommendations	20

Appendices

Appendix A1 – Site Location Plan

Appendix A2 – Envirocheck Report

Appendix A3 – Diagrammatic Conceptual Model

Appendix A4 – Qualitative Risk Assessment Rationale

1.0 Introduction

In September 2015 Curtins were instructed by Fusion Hatfield Hotels Limited to undertake a Phase 1 Geo-Environmental Detailed Desk Top Study of an area of land occupied by the Comet Hotel, Hatfield, Hertfordshire.

The site is centred on national grid reference 521260, 208250 with an area of approximately 1.55ha. A location plan can be found in Appendix A1.

At this stage, it is understood that the development proposals comprise the extension of the existing hotel and the construction of new student accommodation apartments for the neighbouring Hertfordshire University.

1.1 Scope of Phase 1 Investigation – Detailed Desk Top Study

The desk top study is to be undertaken, principally, to provide an overview of the geo-environmental setting of the site of interest with a brief assessment of any risks that could be presented to site users and the wider environment.

Additionally the desk top study should provide information that could be used to ascertain the extent of any in-situ geo-environmental investigation required to confirm the site conceptual model developed in the desk top study. The desk top study provides an initial view in respect of the status of the site with regard to:

- The potential impact on the site of interest from surrounding land uses and other environmental factors.
- Potential contamination of the site strata by historical and or current use.
- The potential impact on the wider environment by historical and or current use of the site of interest.
- Potential problems associated with geological features such as faulting, mineral extraction, mining and land instability.
- The location of apparent sub-surface structures that may affect the proposed redevelopment.
- The location of above-surface features that may affect the proposed redevelopment.

2.0 Phase 1 – Detailed Desk Top Study

In accordance with the scope identified in Section 1.1, this desk top study has been undertaken using the following data sources and involves no intrusive investigations or testing.

- Envirocheck Report.
- British Geological Society 1:50,000 map.
- British Geological Society website.
- Environment Agency website.
- Local Authority records.
- Radon Atlas for England and Wales.

2.1 Previous Site Use

The earliest historical maps date from 1879 and show the site to be an open land or fields with no features noted.

The first building on site is the Comet Hotel located towards the northeast of the site and constructed in the 1930's. This building remains on site until the present day and has undergone various phases of extension to the southwest through the 1960's, 80's, 90's and 2000's.

The remainder of the site has generally comprised landscaping and car parks surrounding the hotel. A small pond and pathway, possibly part of an ornamental garden, is noted in the centre of the site in the 1960's and 70's and later looks to have been infilled. An electricity substation is shown on the western boundary in the 1960's and remains to the present day.

The majority of the site is currently occupied by the hotel buildings and car park hardstanding with some areas of grassed landscaping and trees.

2.2 Surrounding Land Use

The earliest historical maps show the surrounding area to be largely agricultural with occasional farms and hamlets. A road forms the northern boundary of the site, immediately south of the site is the Great Northern Railway Line.

The first development around the site takes place in the 1920's with residential housing along the road on the northern boundary.

By the 1930's residential housing has expanded around the western boundary of the site and a new road (Barnet Bypass) has been constructed along the southeast boundary of the site.

By the 1960's residential expansion continues around 250m from the site in Roe Green, an airfield is constructed approx. 750m to the north and the railway line is dismantled.

By the 1970's residential expansion of Roe Green and Hatfield continues to the south east of the site. The airfield is labelled Hatfield Aerodrome and contains an aircraft works 500m northeast of the site.

By the 2000's, the aerodrome has been removed and the area in general has become mixed residential, commercial and business parks with the construction of Hertfordshire University buildings about 200m northwest of the site.

2.3 Mapping Data Recorded in the Envirocheck Report

The Envirocheck report contains historical ordnance survey maps (Hertfordshire) as identified below.

- 1:2,500 scale maps provided for the survey publication of 1879, 1898, 1924, 1937, 1962-1972,
- 1:1,250 scale maps provided for the survey publication of 1961-1962, 1962-1992, 1969-1981, 1989, 1990-1992, 1992 (x2), 1993
- 1:10,000 scale maps provided for the survey publication of 1960, 1965, 1971-1978, 1975, 1985, 1990, 1999, 2006, 2015.
- 1:10,560 scale maps provided for the survey publication of 1883, 1899, 1925 (x2), 1937, 1938-1939, 1938, 1947 (x2)

A summary of the map records is provided on the following pages; a copy of all maps obtained can be referred to in Appendix A2.

Date	Scale	Description
1:2,500 and 1:1,250 Scale Mapping		
1879	1:2,500	The site is a field with no features noted. The surrounding area is largely agricultural with occasional farms and hamlets. A road forms the northern boundary of the site, immediately south of the site is the Great Northern Railway Line.
1898	1:2,500	The site and surrounding area remain largely unchanged from the previous historical map.
1924	1:2,500	The site remains largely unchanged from the previous historical map. Some residential housing has been constructed along the road to the north of the site.

EB1843/GB/5007 Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study

Date	Scale	Description
1937	1:2,500	<p>The Comet Hotel has been constructed in the northeast of the site.</p> <p>The Barnet Bypass has been constructed along the southeast boundary of the site. Residential housing has been built up to the western site boundary.</p>
1962-1972	1:2,500	<p>A tree plantation, pond and small structure are shown in the central and southwest of the site.</p> <p>A large warehouse style building or factory has been built 100m north of the site.</p>
1961-1962	1:1,250	<p>An extension to the hotel has been constructed extending southeast from the original building.</p> <p>The surrounding area remains largely unchanged from the previous historical map.</p>
1962-1992	1:1,250	<p>The site and surrounding area remain largely unchanged from the previous historical map.</p>
1969-1981	1:1,250	<p>The site remains largely unchanged from the previous historical map.</p> <p>The railway line is now noted as disused.</p>
1989	1:1,250	<p>The majority of map tiles are missing.</p>
1990-1992	1:1,250	<p>The site and surrounding area remain largely unchanged from the previous historical map.</p>
1992	1:1,250	<p>The site and surrounding area remain largely unchanged from the previous historical map.</p>
1992	1:1,250	<p>The majority of map tiles are missing.</p>
1993	1:1,250	<p>The majority of map tiles are missing.</p>

EB1843/GB/5007 Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study

1:10,560 & 1:10,000 Scale Mapping		
1883	1:10,560	The site is a field with no features noted. The surrounding area is largely agricultural with occasional farms and hamlets. A road forms the northern boundary of the site, immediately south of the site is the Great Northern Railway Line.
1899	1:10,560	The site and surrounding area remain largely unchanged from the previous historical map.
1925	1:10,560	Some residential development has commenced on the road north of the site and New Town to the east
1925	1:10,560	The site and surrounding area remain largely unchanged from the previous historical map
1937	1:10,560	The majority of map tiles are missing.
1938-1939	1:10,560	Residential expansion has continued around the site, A large building possible a sports hall has been built 500m to the northeast.
1938	1:10,560	The majority of map tiles are missing.
1947 (aerial photograph)	1:10,560	The site and surrounding area remain largely unchanged from the previous historical map.
1947	1:10,560	The majority of map tiles are missing.
1960	1:10,000	A small building, possibly an electricity substation has been built on the western boundary of the site. Residential expansion continues in Roe Green to the southwest. An airfield complex is constructed 500m north of the site
1965	1:10,000	The site and surrounding area remain largely unchanged from the previous historical map.
1971-1978	1:10,000	The site and surrounding area remain largely unchanged from the previous historical map.

1975	1:10,000	The hotel on the site has undergone some expansion The large building to the north is now identified as an aircraft works. Residential expansion continues in Oxlease 1000m to the southeast.
1985	1:10,000	The majority of map tiles are missing.
1990	1:10,000	The site and surrounding area remain largely unchanged from the previous historical map.
1999	1:10,000	The site and surrounding area remain largely unchanged from the previous historical map.
2006	1:10,000	The hotel appears to have undergone further expansion. Development has occurred to the north of the site in the area of the former airfield, including the university, residential housing and a number of depots and warehouses.
2015	1:10,000	The site remains the same as the previous historical map. The area of the former airfield to the north continues to be developed.

2.4 Geographical and Special Features

There are no significant geographical features on site or within the surrounding area.

2.5 Geology

A study of the Envirocheck records and British Geological Survey (BGS) 1:50,000 mapping records (Bedrock and Superficial Editions) for Hertford (Sheet 239) indicates the following geological succession underlying the site:

Rock Name	Rock Type	Geological Age
Kesgrave Catchment Subgroup	Sand and Gravel	Pleistocene - Pleistocene
Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Santonian - Turonian

The nearest British Geological Survey borehole located on the eastern perimeter of the site shows 2m of made ground overlying an unproven thickness of up to 8m of superficial clay, sand and gravel.

A borehole just outside the northwest corner of the site reveals a 25m thickness of superficial deposits before encountering the underlying chalk. Similarly a borehole recorded outside the northeast perimeter reveals a 23m thickness of superficial deposits before the underlying chalk is encountered.

Due to previous phases of development, it is expected that a variable deposit of made ground will exist on the site and is likely to include hardstanding and subbase and some reworked natural material.

Indicative soil geochemistry mapping by the British Geological Survey estimates low concentrations of Arsenic, Lead, Cadmium, Chromium and Nickel on site.

The Envirocheck Report confirms that there is a very low risk to no hazard from the following ground stability hazards on and around the site; running sands, shrinking or swelling clay, ground dissolution, collapsible ground, compressible ground and landslides.

The Envirocheck Report confirms that the site is in a low probability radon area, with less than 1% of homes are above the radon action level. No radon protective measures are necessary in the construction of new dwellings or extensions.

2.5.1 Mining

The Envirocheck report confirms that the site is within an area which is unlikely to be affected by coal mining activity. The site lies outside a coal mining referral area, and as such, a Coal Authority report has not been obtained.

There are no active British Geological Survey mineral sites within 1000m of the site of interest. The nearest historic quarry (sand and gravel) is recorded 448m southeast of the site.

There are records of underground chalk mining activities and features in the area, the nearest mine being recorded 633m south of the site. There are mining cavities recorded as chalk wells 395m southeast of the site.

There is no historical evidence of mining or quarrying activities on the site.

2.6 Hydrogeology and Hydrology

The 1:100,000 Sheet 39 West London Groundwater Vulnerability Map indicates that the site is underlain by a Principal Aquifer and within the solid geology and a Secondary A aquifer within the superficial deposits. These are;

Principal Aquifer - *“layers of rock or drift deposits that have high intergranular and/or fracture permeability - meaning they usually provide a high level of water storage. They may support water supply and/or river base flow on a strategic scale. In most cases, principal aquifers are aquifers previously designated as major aquifers”*

Secondary A – *‘permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers’*

The site is recorded as containing soils of high leaching potential - Soils which readily transmit liquid discharges because they are either shallow, or susceptible to rapid by-pass flow directly to rock, gravel or groundwater and the site is in a nitrate vulnerable zone.

The site is within a Source Protection Zone (SPZ) II and III. These are:

Zone III (Total Catchment): *The total area needed to support the discharge from the protected groundwater source.*

Zone II (Outer Protection Zone): *Either 25% of the source area or a 400 day travel time whichever is greater*

The protection zones relate to a potable groundwater borehole located 828m southwest of the site.

There are no surface water abstractions within 1000m of the site.

The nearest surface water feature is 41m north of the site and appears to be landscaped ponds within the adjacent business park. The nearest river is Ellen Brook 373m southwest of the site.

There are no Pollution incidents, Discharge Consents, Local Authority Pollution Prevention and Control permits arising from the site.

The site is not recorded as being at risk of flooding from rivers or seas.

2.7 Landfill

The site is not situated on a recorded operational or historic landfill site. The nearest historic site is recorded 795m south and ceased in 1984. Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste.

A British Geological Survey landfill is recorded 853m to the south but no details area given.

2.8 Public Utility Records

Public utility information has not been obtained as a part of this report.

2.9 Preliminary Unexploded Ordnance (UXO) Risk Assessment

Indicative risk mapping places the site in a Medium risk area.

The site and immediate surrounding area were unlikely to present any major bombing targets to the Luftwaffe in World War II. Development of the site since WWII would have further reduced the risk of encountering UXO. On this basis, a Detailed Unexploded Ordnance report is not considered necessary prior to the ongoing development of the site.

2.10 Other Significant Features Potentially Affecting Re-Development

No other significant features affecting the site have been noted.

2.11 Existing Reports

No existing reports were available for review.

3.0 Conclusions

3.1 Conceptual Model

The following sub-sections present a non-exhaustive list of the possible sources, pathways and receptors that exist within the site conceptual model.

Potential source-pathway-receptor linkages that may arise are discussed in the following section, the Qualitative Risk Assessment.

A Diagrammatic Conceptual Model is provided in Appendix A3.

3.1.1 Potential Sources

Potential Source (S1): Made-ground Soils On Site

Low Likelihood due to evidence of development and extension of the hotel on site from the 1930, and taking into account the lack of industrial activity on site.

The nature and type of contamination may include, amongst others; ash and fill, hydrocarbons (e.g. fuel oils), heavy metals, herbicides / pesticides and asbestos. PCB's may be associated with the electricity substation.

Potential Source (S2): Made-ground Soils Off Site

Off-site soils have been exposed to patterns of development and demolition however the largely residential nature provides a low potential for contamination to be present in any made ground around the site.

Potential contaminants could arise due to geological origin, construction activities, atmospheric deposition and land management. The nature and type of general contamination may include, amongst others; ash and fill, hydrocarbons (e.g. fuel oils), heavy metals and asbestos.

Potential Source (S3): Natural Soils both On and Off Site

Regionally elevated levels of metals may be present within the shallow soils, however the superficial and bedrock deposits beneath the site and within the immediate surrounding area are not considered to present significant sources of natural contamination.

Potential Source (S4): Ground Gas Generating Sources

No operational landfills are recorded within 1000m of the site. Historic landfills are located 795m south of the site.

There are no records of organic rich drift deposits (e.g. peat) or coal measures.

Gas is likely to be generated from decaying organic matter potentially releasing gases and compounds such as, but not limited to; methane, hydrogen sulphide, carbon dioxide and volatile organic compounds.

Potential Source (S5): Geological Deposits with Potential to Generate Radon

Both the Radon Atlas for England and Wales, and the Envirocheck Report confirm that the site is in a low probability radon area, with less than 1% of homes above the action level. Radon protective measures are not necessary in the construction of new dwellings or extensions.

Potential Source (S6): Unexploded Ordnance

The site is located in a low risk area for UXO.

The site and immediate surrounding area were unlikely to present any major bombing targets to the Luftwaffe in World War II.

Potential Source (S7): Mining Workings

No mining works are considered to currently affect the site. Subsequently a coal mining risk assessment is not necessary for the site.

3.1.2 Potential Pathways

Potential Pathway (P1): Direct Contact, Ingestion and Inhalation (dust and vapours)

May occur where the end user is exposed to; solid, dust or volatile components of made-ground soils on site.

Potential Pathway (P2): Vertical Migration

May occur within any made-ground deposits on-site both upwards, due to processes including; capillary action, burrowing animals inducing soil mixing, and downwards into the natural deposits due to processes including; infiltration and burrowing animals. Includes ground gas migration.

Soils of High Leaching Potential (H1) are found on site, overlying a Primary Aquifer

Potential Pathway (P3): Horizontal Migration

May occur within any made-ground or natural deposits due to processes including; the influence of perched or natural groundwater flow patterns and natural or man-made high permeability zones, e.g. sand lenses or drainage runs or pores/voids within natural and made-ground soils for ground gases.

Potential Pathway (P4): Collapse

Unlikely on this site.

3.1.3 Potential Receptors

Potential Receptor (R1): End Users

Residents, visitors, site maintenance staff and the general public.

Potential Receptor (R2): Controlled Waters (Groundwater)

Corresponding with the underlying geology, the site is underlain by a Primary and Secondary A Aquifer.

There are potable groundwater abstractions located within 1000m south of the site. The site is situated within a Source Protection Zone (SPZ) II and III.

Potential Receptor (R3): Controlled Waters (Surface Waters)

The nearest surface water feature is the River Bourne which is 71m from the eastern boundary of the site.

Potential Receptor (R4): Construction Workers

Whilst unlikely, during the development of the site, construction workers may come into contact with any contamination that is on site. However, wearing the correct personal protective equipment will reduce the risk.

Potential Receptor (R5): Construction Materials

Buried concrete and water supply pipes.

Potential Receptor (R6): Local Ecology
Protected species and local habitats; e.g. hedgerow, grassland and water.

3.2 Qualitative Risk Assessment

The qualitative risk assessment details both the source-pathway-receptor linkages and associated level of risk that have been identified for the site.

The rationale for the qualitative risk assessment is described within Appendix A4 and a tabulated summary provided in Table A4.1.

The term 'risk' in this instance refers to the risk that the source, pathway, receptor linkage for a given source of contamination is complete. Unless specifically noted it does not necessarily refer to an immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.

3.2.1 End User

Assessment of Risk to End Users from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood due to no evidence of industrial activity and nature of previous site development. PCB's could be present around the electrical substation.</i>
Potential Pathway	P1: Direct contact, ingestion and inhalation
<i>Details</i>	<i>Recreational grounds, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Visitors, site maintenance staff and the general public).</i>
Risk	Moderate / Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality and composition.</i>

Assessment of Risk to End Users from Made-Ground Soils Off-Site	
Potential Source	S2: Made-ground soils off site
<i>Likelihood of Occurrence</i>	<i>Low likelihood due to limited evidence of historic industrial activity immediately surrounding the site but accounting for the road and railway.</i>
Potential Pathway	P3 & P1: Horizontal migration then direct contact, ingestion and/or inhalation
<i>Details</i>	<i>Recreational grounds, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Visitors, site maintenance staff and the general public).</i>
Risk	Moderate / Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>

Assessment of Risk to End Users from Natural Soils On and Off Site	
Potential Source	S3: Natural soils on and off site
<i>Likelihood of Occurrence</i>	<i>Unlikely due to the nature of the site geology.</i>
Potential Pathway	P1 & P3: Direct contact, ingestion and inhalation and horizontal migration
<i>Details</i>	<i>Either horizontal migration from off site or on-site presence; private gardens, home-grown produce, landscaped areas and internal airspaces.</i>
Potential Receptor	R1: End users
<i>Consequence (Potential Severity)</i>	<i>Medium due to human health effects (chronic and acute) for a sensitive receptor (Visitors, site maintenance staff and the general public).</i>
Risk	Low
<i>Recommendation</i>	<i>Environmental sampling of site natural soils to confirm quality.</i>

Assessment of Risk to End Users from Ground Gas Generating Sources	
Potential Source	S4: Ground gas generation source s (e.g. landfill ls or made ground)
<i>Likelihood of Occurrence</i>	<i>Low considering no major gas generating sources recorded however accounting for organic matter within any made ground surrounding the site.</i>
Potential Pathway	P2 & P3: Vertical and horizontal migration
<i>Details</i>	<i>Direct gas sing off on -site soils or migration along natural low permeability horizons within superficial or bedrock deposits.</i>
Potential Receptor	R1: End Users
<i>Consequence (Potential Severity)</i>	Severe
Risk	High / Moderate
<i>Recommendation</i>	<i>Soil gas monitoring undertaken as part of ground investigation beneath any proposed buildings.</i>

Assessment of Risk to End Users from Radon	
Potential Source	S5: Geological deposits with potential to generate radon
<i>Likelihood of Occurrence</i>	<i>Unlikely as both the Radon Atlas for England and Wales, and the Envirocheck report confirm that part of the site is in a low probability radon area, with less than 1% of homes above the action level and new dwellings do not require radon protection measures.</i>
Potential Pathway	P2 & P3: Vertical and horizontal migration
<i>Details</i>	<i>Direct gas sing off on -site soils or migration along natural low permeability horizons within superficial or bedrock deposits.</i>
Potential Receptor	R1: End User
<i>Consequence (Potential Severity)</i>	Severe
Risk	Moderate/Low
<i>Recommendation</i>	<i>No action required.</i>

Assessment of Risk to End Users from Unexploded Ordnance (UXO)	
Potential Source	S6: Unexploded Ordnance
<i>Likelihood of Occurrence</i>	<i>Unlikely as the historical maps for the sites show no primary targets within close proximity of the site and no ruins within close proximity of the site. End users are unlikely to undertake deep intrusive work.</i>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>All groundwork activities.</i>
Potential Receptor	R1: End Users
<i>Consequence (Potential Severity)</i>	<i>Severe due to human health effects (explosive) for receptor.</i>
Risk	Moderate/Low
<i>Recommendation</i>	<i>No action required</i>

3.2.2 Ground water

Assessment of Risk to Groundwater from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood due to limited evidence of industrial activity and nature of previous site development.</i>
Potential Pathway	P2: Vertical migration
<i>Details</i>	<i>Leaching or percolation of potential contaminants.</i>
Potential Receptor	R2: Controlled waters (Groundwater)
<i>Consequence (Potential Severity)</i>	<i>Medium as the site is underlain by a Principal Aquifer. The site is situated within a Source Protection Zone (SPZ) II and III</i>
Risk	Moderate / Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils and groundwater to confirm quality.</i>

3.2.3 Surface Water

Assessment of Risk to Surface Water from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Unlikely due to no evidence of industrial activity and nature of previous site development and distance to nearest surface water receptor.</i>
Potential Pathway	P3: Horizontal migration
<i>Details</i>	<i>Leaching or percolation of potential contaminants.</i>
Potential Receptor	R3: Controlled waters (Surface Waters)
<i>Consequence (Potential Severity)</i>	<i>Medium</i>
Risk	Low
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>

3.2.4 Construction Workers

Assessment of Risk to Construction Workers from Made-Ground & Natural Soils On and Off	
Potential Source	S1 & S2 & S3: Made-ground & natural soils on and off site
<i>Likelihood of Occurrence</i>	<i>Made Ground On-site: Low as discussed previously. Off-site: Low as discussed previously. Natural On-site: Unlikely as discussed previously. Off-site: Unlikely as discussed previously.</i>
Potential Pathway	P1: Direct contact, ingestion and inhalation
<i>Details</i>	<i>Groundwork and landscaping activities.</i>
Potential Receptor	R4: Construction workers
<i>Consequence (Potential Severity)</i>	<i>Minor due to correct use of personal protective equipment (PPE).</i>
Risk	Negligible
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils and groundwater to confirm quality.</i>

Assessment of Risk to Construction Workers from Unexploded Ordnance (UXO)	
Potential Source	S6: Unexploded Ordnance
<i>Likelihood of Occurrence</i>	<i>Unlikely to be present, no evidence of bomb strike and bomb damage to the site. Site has been developed since WWII.</i>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>All groundwork activities.</i>
Potential Receptor	R4: End Users
<i>Consequence (Potential Severity)</i>	<i>Severe due to human health effects (explosive) for receptor.</i>
Risk	Moderate/Low
<i>Recommendation</i>	<i>No Detailed UXO Report required for this site.</i>

3.2.5 Construction Materials

Assessment of Risk to Construction Materials from Made-Ground Soils On Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low likelihood, due to historical evidence of development on-site.</i>
Potential Pathway	P1: Direct contact
<i>Details</i>	<i>Soil pore water chemistry inducing chemical degradation/fouling.</i>
Potential Receptor	R5: Construction materials
<i>Consequence (Potential Severity)</i>	<i>Mild due to reduced performance of construction materials and human health affects (water supply contamination).</i>
Risk	Negligible
<i>Recommendation</i>	<i>Environmental sampling of site shallow soils to confirm quality.</i>

3.2.6 Local Ecology

Assessment of Risk to Local Ecology from Made-Ground Soils On-Site	
Potential Source	S1: Made-ground soils on site
<i>Likelihood of Occurrence</i>	<i>Low Likelihood due to limited evidence of industrial activity and nature of previous site development.</i>
Potential Pathway	P1 & P3: Direct contact, ingestion and inhalation & horizontal migration
<i>Details</i>	<i>Protected species within on-site and local habitats; e.g. woodland, hedgerow, grassland and water.</i>
Potential Receptor	R6: Local ecology
<i>Consequence (Potential Severity)</i>	<i>Minor (no known sensitive ecology on site).</i>
Risk	Negligible
<i>Recommendation</i>	<i>Advice of an ecologist obtained with respect to any requirements.</i>

3.3 Recommendations

The qualitative risk assessment determined a generally **Low to Moderate** level of risk from potential contaminants with no recorded polluting site history. The electricity substation on site may present a risk of PCB's.

The risk to the end user from ground gases is determined to be **Moderate / High** due to the severity of the consequence to human health effects from ground gases. No specific gas generation sources are recorded within 750m of the site, however the potential for gases to arise from organic matter within any made-ground soils on and off site should be considered.

It is recommended that during the construction phase, when site investigations are planned for geotechnical purposes in support of foundation, column and hard standing design, environmental soil samples for chemical analysis can be obtained to determine if any contamination of the shallow soils and natural ground is present on site or in the event that any made ground is encountered to confirm the conceptual model or otherwise and to meet any environmental planning conditions.

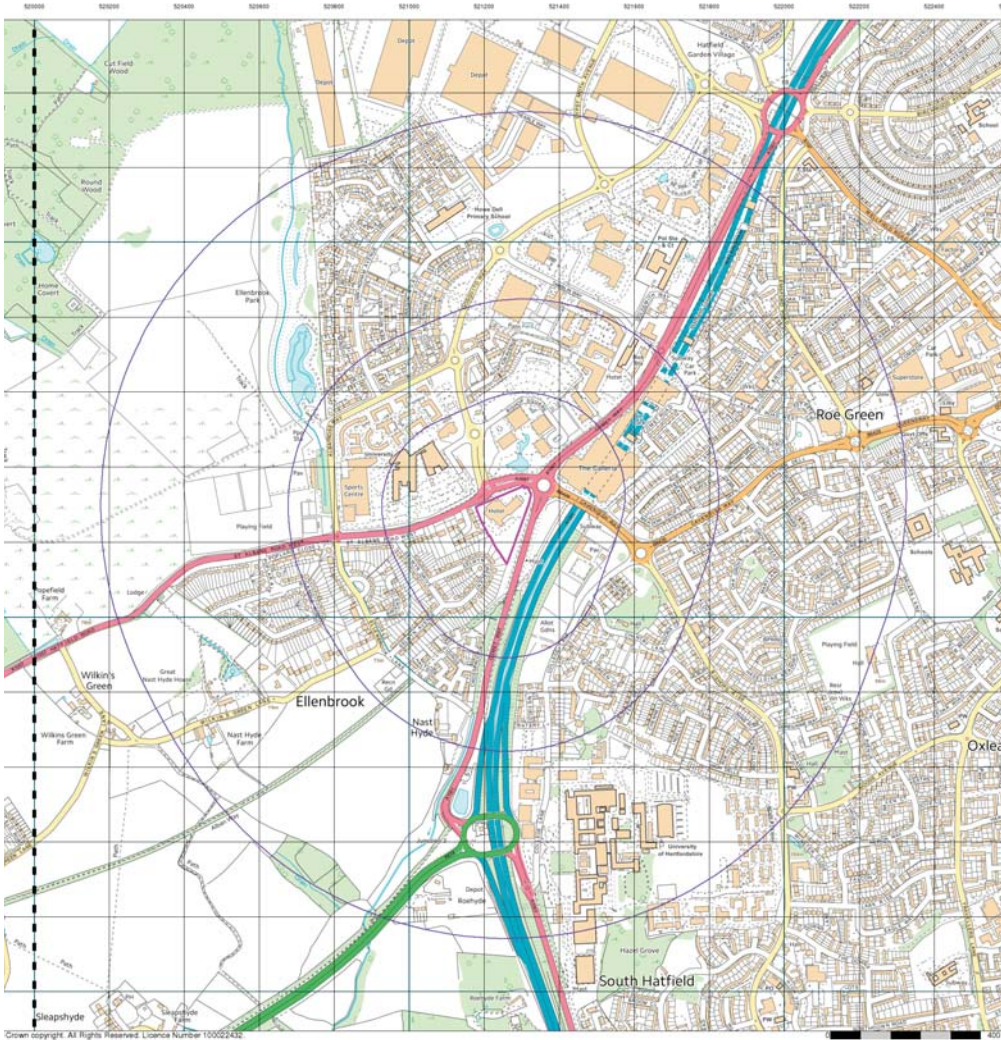
In addition, the intrusive investigation will allow for the monitoring and sampling of groundwater / gas at the borehole locations.

EB1843/GB/5007 Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study


Appendix A1 – Site Location Plan

Site Location Plan



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Key

 Approximate site boundary

Project
Comet Hotel, Hatfield

Drawing Title
Site Location Plan

Job Reference
EB1843

Date
2.09.2015

Author
GB

Checked
DM


 Quayside
 40-58 Hotwell Road,
 Bristol, BS8 4UQ
 Tel: 0117 302 7560

EB1843/GB/5007 Comet Hotel, Hatfield

Phase 1 Detailed Desk Top Study

Appendix A2 – Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

71966509_1_1

Customer Reference:

EB1843

National Grid Reference:

521260, 208250

Slice:

A

Site Area (Ha):

1.55

Search Buffer (m):

1000

Site Details:

Ramada Hotel
St. Albans Road West
HATFIELD
Hertfordshire
AL10 9RH

Client Details:

Mr G Behrens
Curtins Consulting Ltd
Quayside
40-58 Hotwell Road
Bristol
BS8 4UQ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	18
Industrial Land Use	31
Sensitive Land Use	39
Data Currency	40
Data Suppliers	45
Useful Contacts	46

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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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			2	4
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 2			1	1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 2		Yes		
Pollution Incidents to Controlled Waters	pg 2			5	1
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 3				6
River Quality	pg 4			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 5			2	
Water Abstractions	pg 5				10 (*24)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 13	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 13	Yes	n/a	n/a	n/a
Source Protection Zones	pg 13	2		1	1
Extreme Flooding from Rivers or Sea without Defences	pg 14		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 14			Yes	n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 16				1
Historical Landfill Sites	pg 16				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites	pg 16				2
Registered Landfill Sites	pg 17				2
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 17		1		
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 18	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 18	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 25			1	9
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 27			2	8
Natural Cavities	pg 28			2	2
Non Coal Mining Areas of Great Britain	pg 29	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 29	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 29		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29		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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 31		9	15	60
Fuel Station Entries	pg 38			1	
Sensitive Land Use					
Areas of Adopted Green Belt	pg 39			1	1
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	pg 39	1	1		1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: British Aerospace Hatfield Plc Property Type: Industrial Parks & Estates Location: British Aerospace Premises, Comet Way, Hatfield, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cntm.0982 Permit Version: 1 Effective Date: 22nd July 1993 Issued Date: 22nd July 1993 Revocation Date: 7th December 1994 Discharge Type: Unknown Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	266	2	520980 208470
2	<p>Discharge Consents</p> <p>Operator: Arlington Business Parks Property Type: Industrial Parks & Estates Location: Comet Park Development, St Albans Road East, Hatfield, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Cntm.0012 Permit Version: 1 Effective Date: 20th January 1992 Issued Date: 20th January 1992 Revocation Date: 1st October 1996 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A12SE (W)	344	2	520840 208230
3	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Stonehouse, Hatfieldstonehousehatfield Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2003 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	524	2	521700 208700
3	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Stonehouse, Hatfieldstonehousehatfield Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2003 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	524	2	521700 208700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Nast Hyde Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1559 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	662	2	521100 207500
4	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Nast Hyde Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1559 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ellen Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	662	2	521100 207500
5	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Charlies Cleaning Ltd Location: 8a Park House Court, Comet Square, Hatfield, AL10 9rq Authority: Welwyn Hatfield District Council, Environmental Health Department Permit Reference: DC42845 Dated: 1st February 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location</p>	A18SE (NE)	366	3	521471 208676
6	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Garden City Coachworks Location: Fiddle Bridge Lane, HATFIELD, Hertfordshire, AL10 0SP Authority: Welwyn Hatfield District Council, Environmental Health Department Permit Reference: LN920022 Dated: 1st September 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Permitted Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	693	3	521945 208635
	<p>Nearest Surface Water Feature</p>	A13NE (N)	41	-	521295 208389
7	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Ellenbrook Crescent, HATFIELD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 16th September 1997 Incident Reference: THN11997029598 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SW (N)	367	2	521200 208700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Haltside, HATFIELD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 18th July 1996 Incident Reference: N1960373 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A8NW (S)	378	2	521100 207800
9	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: HATFIELD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th April 1992 Incident Reference: N1920215 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	380	2	520900 208000
10	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: HATFIELD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 9th May 1990 Incident Reference: N1900216 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A8NW (SW)	430	2	521000 207800
11	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Ellenbrook Close Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 19th May 1989 Incident Reference: N1890275 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A12SE (SW)	466	2	520800 208000
12	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: St Albans Road West, HATFIELD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 23rd October 1998 Incident Reference: THNE1998040922 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A14SE (E)	744	2	522000 208000
13	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9AB Authority: Environment Agency, Thames Region Permit Reference: Bh0305 Dated: 31st August 2000 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Application has been authorised and any conditions apply to the operatorAuthorised Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	622	2	521462 207554

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9PN Authority: Environment Agency, Thames Region Permit Reference: AB6799 Dated: 18th November 1992 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Authorisation under RSA dated pre April 1991 Status: Application has been authorised and any conditions apply to the operatorAuthorised</p> <p>Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	648	2	521455 207524
13	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9PN Authority: Environment Agency, Thames Region Permit Reference: AC3795 Dated: 31st March 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1)</p> <p>Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variationSuperseded</p> <p>Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	652	2	521450 207519
13	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9AB Authority: Environment Agency, Thames Region Permit Reference: Bz9146 Dated: 9th December 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Minor variation to authorisation under RSA Status: Application has been authorised and any conditions apply to the operatorAuthorised</p> <p>Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	682	2	521435 207482
13	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9AB Authority: Environment Agency, Thames Region Permit Reference: Bw6868 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded</p> <p>Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	682	2	521435 207482
14	<p>Registered Radioactive Substances</p> <p>Name: University Of Hertfordshire Location: College Lane, HATFIELD, Hertfordshire, AL10 9AB Authority: Environment Agency, Thames Region Permit Reference: Bh0321 Dated: 31st August 2000 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7)</p> <p>Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded</p> <p>Positional Accuracy: Manually positioned to the address or location</p>	A9SW (SE)	665	2	521596 207568
	<p>River Quality</p> <p>Name: Ellen Bk GQA Grade: River Quality D Reach: Hatfield - Colne Estimated Distance (km): 3.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000</p>	A12SE (SW)	384	2	520904 207975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 24th August 2011 Incident Reference: 916702 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Other Atmospheric Pollutant Or Effect	A18SE (N)	271	2	521390 208605
15	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, North East Area Incident Date: 3rd August 2011 Incident Reference: 909800 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Other Atmospheric Pollutant Or Effect	A18SE (N)	303	2	521408 208633
16	Water Abstractions Operator: Affinity Water Limited Licence Number: Th/038/0001/001 Permit Version: 2 Location: Roe Green, Bishop'S Rise - Borehole A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	858	2	522012 207729
16	Water Abstractions Operator: Affinity Water Limited Licence Number: 29/38/01/0061 Permit Version: 102 Location: Roe Green, Bishop'S Rise - Borehole A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st May 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	858	2	522012 207729
16	Water Abstractions Operator: Veolia Water Central Limited Licence Number: Th/038/0001/001 Permit Version: 1 Location: Roe Green, Bishop'S Rise - Borehole A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	858	2	522012 207729

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: 29/38/01/0061 Permit Version: 101 Location: Roe Green, Bishop'S Rise - Borehole A Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	858	2	522012 207729
16	<p>Water Abstractions</p> <p>Operator: Affinity Water Limited Licence Number: Th/038/0001/001 Permit Version: 2 Location: Roe Green, Bishops Rise - Borehole B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st May 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	859	2	522015 207731
16	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: Th/038/0001/001 Permit Version: 1 Location: Roe Green, Bishops Rise - Borehole B Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	859	2	522015 207731
16	<p>Water Abstractions</p> <p>Operator: Veolia Water Central Limited Licence Number: 29/38/01/0061 Permit Version: 101 Location: Roe Green - Bishop'S Rise Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A9NE (SE)	862	2	522000 207700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Water Abstractions Operator: Veolia Water Central Limited Licence Number: 29/38/01/0105 Permit Version: 2 Location: Roe Green - Bishop'S Rise Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th July 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	862	2	522000 207700
16	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 29/38/01/0105 Permit Version: 1 Location: Roe Green - Bishop'S Rise Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th February 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	862	2	522000 207700
16	Water Abstractions Operator: Three Valleys Water Plc Licence Number: 29/38/01/0061 Permit Version: 100 Location: Roe Green - Bishop'S Rise Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9092 Yearly Rate (m3): 3318580 Details: Chalk (Undifferentiated) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th September 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	862	2	522000 207700
	Water Abstractions Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole B At Comet Way, Hatfield Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 3364 Yearly Rate (m3): 654624 Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1358	2	521100 209690

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole B At Comet Way, Hatfield Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1358	2	521100 209690
	Water Abstractions Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole B At Comet Way, Hatfield Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1358	2	521100 209690
	Water Abstractions Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole B At Comet Way, Hatfield Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NW (N)	1358	2	521100 209690
	Water Abstractions Operator: Arlington Business Parks Gp Ltd Licence Number: 28/39/28/0015 Permit Version: 102 Location: Hatfield Business Park, Hatfield, Herts -Borehole Authority: Environment Agency, Thames Region Abstraction: Business Parks: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hatfield Business Park, Hatfield Hertfordshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st March 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23NE (N)	1443	2	521350 209790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Arlington Business Parks Gp Ltd Licence Number: 28/39/28/0015 Permit Version: 102 Location: Hatfield Business Park, Hatfield, Herts -Borehole Authority: Environment Agency, Thames Region Abstraction: Business Parks: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hatfield Business Park, Hatfield, Hertfordshire Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 31st March 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790
	<p>Water Abstractions</p> <p>Operator: Arlington Business Parks Gp Ltd Licence Number: 28/39/28/0015 Permit Version: 101 Location: Hatfield Business Park, Hatfield, Herts -Borehole Authority: Environment Agency, Thames Region Abstraction: Business Parks: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hatfield Business Park, Hatfield, Herts Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 20th January 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790
	<p>Water Abstractions</p> <p>Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole 'C' At Hatfield, Herts Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790
	<p>Water Abstractions</p> <p>Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole 'C' At Hatfield, Herts Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole 'C' At Hatfield, Herts Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790
	<p>Water Abstractions</p> <p>Operator: British Aerospace Prop'S Ltd Licence Number: 28/39/28/0015 Permit Version: 100 Location: Borehole 'C' At Hatfield, Herts Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Comet Way, Hatfield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th March 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A23NE (N)	1443	2	521350 209790
	<p>Water Abstractions</p> <p>Operator: Rmc Aggregates (Greater London) Ltd Licence Number: 28/39/28/0556 Permit Version: 1 Location: Wet Pit At Cut Field Wood Lake, Hatfield Quarry Authority: Environment Agency, Thames Region Abstraction: Private Water Undertaking: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cut Field Wood Lake, Hatfield Quarry Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th February 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A16NE (NW)	1460	2	520020 209180
	<p>Water Abstractions</p> <p>Operator: Entrepose Uk Licence Number: 28/39/28/0548 Permit Version: Not Supplied Location: St Albans Sand And Gravel, Hatfield Quarry, Oaklands Lane, ST ALBANS Authority: Environment Agency, Thames Region Abstraction: Hydrostatic Testing Of Gas Pipeline Abstraction Type: Not Supplied Source: River/Stream Intake Daily Rate (m3): 10998 Yearly Rate (m3): 21996 Details: Not Supplied Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A21SW (NW)	1759	2	519900 209500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Rmc Aggregates (Greater London) Ltd Licence Number: 28/39/28/0553 Permit Version: 1 Location: Tributary Of River Colne At Hatfield Qaurry, St. Albans Authority: Environment Agency, Thames Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hatfield Quarry, Oaklands Road, St. Albans Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 21st December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A21SW (NW)	1808	2	519890 209560
	<p>Water Abstractions</p> <p>Operator: Ae Barba Licence Number: 28/39/28/0477 Permit Version: 102 Location: Radio Nursery, Smallford, St Albans - Borehole Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Radio Nursery, Smallford Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th July 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1821	2	519400 207900
	<p>Water Abstractions</p> <p>Operator: Mr G Barba Licence Number: 28/39/28/0477 Permit Version: 101 Location: Borehole At Radio Nursery, Smallford Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 73 Yearly Rate (m3): 6364 Details: Radio Nursery, Smallford Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1821	2	519400 207900
	<p>Water Abstractions</p> <p>Operator: Mr G Barba Licence Number: 28/39/28/0477 Permit Version: 101 Location: Borehole At Radio Nursery, Smallford Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Radio Nursery, Smallford Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 17th August 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(W)	1821	2	519400 207900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Mr C J Barker Licence Number: 28/39/28/0206 Permit Version: 100 Location: Borehole At The Nurseries, Colney Heath Authority: Environment Agency, Thames Region Abstraction: Horticulture and Nurseries: Spray Irrigation Definition Order Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 45 Yearly Rate (m3): 6819 Details: The Nurseries, Colney Heath Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(W)	1845	2	519400 207800
	<p>Water Abstractions</p> <p>Operator: Glinwell Plc Licence Number: 28/39/28/0023 Permit Version: 101 Location: Point 'A' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Smallford Nurseries, St. Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	A6SW (SW)	1898	2	519580 207250
	<p>Water Abstractions</p> <p>Operator: Glinwell Plc Licence Number: 28/39/28/0023 Permit Version: 101 Location: Point 'B' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Smallford Nurseries, St Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th July 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SW)	1924	2	519460 207420
	<p>Water Abstractions</p> <p>Operator: Glinwell Limited Licence Number: 28/39/28/0023 Permit Version: 100 Location: Borehole 'B' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Smallford Nurseries, St. Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SW)	1987	2	519400 207400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Glinwell Limited Licence Number: 28/39/28/0023 Permit Version: 100 Location: Borehole 'B' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Horticulture and Nurseries: Spray Irrigation - Spray Irrigation Definition Order Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Smallford Nurseries, St. Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SW)	1987	2	519400 207400
	<p>Water Abstractions</p> <p>Operator: Glinwell Limited Licence Number: 28/39/28/0023 Permit Version: 100 Location: Borehole 'A' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Agriculture: Horticultural Watering Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 527 Yearly Rate (m3): 61371 Details: Smallford Nurseries, St. Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(SW)	1992	2	519500 207200
	<p>Water Abstractions</p> <p>Operator: Glinwell Limited Licence Number: 28/39/28/0023 Permit Version: 100 Location: Borehole 'A' At Smallford Nurseries, St. Albans Authority: Environment Agency, Thames Region Abstraction: Horticulture and Nurseries: Spray Irrigation - Spray Irrigation Definition Order Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Smallford Nurseries, St. Albans Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m</p>	(SW)	1992	2	519500 207200
	<p>Groundwater Vulnerability</p> <p>Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000</p>	A13NE (SE)	0	2	521259 208255
	<p>Drift Deposits</p> <p>None</p>				
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Principal Aquifer</p>	A13NE (SE)	0	4	521259 208255
	<p>Superficial Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - A</p>	A13NE (SE)	0	4	521259 208255
17	<p>Source Protection Zones</p> <p>Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.</p>	A13NE (SE)	0	2	521259 208255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Source Protection Zones Name: Various Source: Environment Agency, Head Office Reference: Not Supplied Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13NE (SE)	0	2	521259 208255
19	Source Protection Zones Name: Bishops Rise Source: Environment Agency, Head Office Reference: Th018 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A13SE (SE)	280	2	521544 208060
20	Source Protection Zones Name: Bishops Rise Source: Environment Agency, Head Office Reference: Th018 Type: Groundwater Source	A9NE (SE)	828	2	522000 207770
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (SW)	250	2	521085 207965
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
21	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	357	2	520828 208224
22	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Ellen Brook Name: Water Course: 28EL Reference:	A12SE (W)	357	2	520828 208224
23	Detailed River Network Lines River Type: Primary River River Name: Ellen Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Ellen Brook Name: Water Course: 28EL Reference:	A12SE (SW)	373	2	520872 208065

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Detailed River Network Lines River Type: Primary River River Name: Cut Field Wood Ditch Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Ellen Brook Name: Water Course: 28EL Reference:	A12SE (W)	380	2	520833 208110
25	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Ellen Brook Name: Water Course: 28EL Reference:	A8NW (S)	384	2	521094 207795
26	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Currently Undefined Management Status: Water Course: Nast Name: Water Course: 28NA Reference:	A12SE (W)	388	2	520833 208110
27	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12NE (W)	402	2	520776 208296
28	Detailed River Network Lines River Type: Primary River River Name: Ellen Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Ellen Brook Name: Water Course: 28EL Reference:	A8NW (S)	415	2	521172 207736
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	BGS Recorded Landfill Sites Site Name: Roehyde Barnet by Pass Location: HATFIELD, Herts Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Derived	A8SW (S)	853	-	521133 207299
30	Historical Landfill Sites Licence Holder: St Albans Sand and Gravel Company Limited Location: Roehyde, Hatfield, Hertfordshire Name: Roehyde Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD12925 First Input Date: 16th June 1977 Last Input Date: 15th October 1984 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1900/0115 BGS Ref: 2438 Other Ref: HCC/185, 207, 77/28	A8SW (S)	795	2	521187 207350
31	Historical Landfill Sites Licence Holder: Mr S E Gilbert Location: Roehyde, Hatfield, Hertfordshire Name: Roehyde Pit Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD12627 First Input Date: 6th April 1972 Last Input Date: 16th April 1984 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1900/0116 BGS Ref: Not Supplied Other Ref: 80/86, HCC/107	A8SW (S)	814	2	521162 207335
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	5	521259 208255
	Local Authority Landfill Coverage Name: Welwyn Hatfield Council - Has no landfill data to supply		0	3	521259 208255
	Local Authority Landfill Coverage Name: St Albans District Council - Has supplied landfill data		790	6	521206 207354
32	Local Authority Recorded Landfill Sites Location: Ryders Corner, North Orbital Road Reference: 104 Authority: Hertfordshire County Council, Spatial Planning and Economy Unit Last Reported Status: Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A8SW (S)	784	5	521170 207364
33	Local Authority Recorded Landfill Sites Location: Roehyde Pit, Junction Of North Orbital Road And Barnet By-Pass, Colney Heath Reference: Not Supplied Authority: St Albans City & District Council, Environmental Health Department Last Reported Status: Types of Waste: Domestic, Other Putrescible Solid, Non-Putrescible And Non-Hazardous Solid, Rubble And Excavated Spoil, Other Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A3NW (S)	983	6	521035 207185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Registered Landfill Sites Licence Holder: S E Gilbert Licence Reference: 80/086 Site Location: Tudor House, Roe Hyde, HATFIELD, Hertfordshire, AL10 9AH Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 11th April 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Excavated Natural Materials \$ Foundry Sand Ex. Greensand Process	A8SW (S)	774	2	521199 207371
35	Registered Landfill Sites Licence Holder: St Albans Sand & Gravel Licence Reference: 77/028 Site Location: Roehyde Pit, Colney Heath, St Albans, Hertfordshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Delamere Road, Cheshunt, WALTHAM CROSS, Hertfordshire, EN8 9SJ Authority: Environment Agency - Thames Region, North East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 14th June 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Non-Biodegradable And Non-Toxic Waste Prohibited Waste: Poisonous, Noxious, Polluting Wastes	A3NW (S)	982	2	521037 207186
36	Registered Waste Treatment or Disposal Sites Licence Holder: British Aerospace Plc Licence Reference: 81/124 Site Location: Aircraft Group Civil Division, Barnet By-Pass, HATFIELD, Hertfordshire, AL10 9TL Operator Location: As Site Address Authority: Environment Agency - Thames Region, North East Area Site Category: Storage Max Input Rate: Undefined Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 30th September 1981 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Boundary Quality: Not Supplied Authorised Waste: Acids Chorinated Solvents Miscell. Drummed Waste - May Include Oil Paint Sludges & Plating Solutions Thinners Prohibited Waste: Waste N.O.S.	A13NW (NW)	195	2	521000 208370

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A13NE (SE)	0	4	521259 208255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	0	4	521225 208217
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (SE)	0	4	521259 208255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	72	4	521207 208392
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: 150 - 300 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	80	4	521106 208326
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	142	4	521259 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (W)	178	4	521000 208255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	221	4	521000 208423
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	225	4	521000 208140
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	247	4	521462 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NW (S)	259	4	521242 207883
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	272	4	521362 207890
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	296	4	521000 208000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	302	4	520992 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (SE)	321	4	521517 207949
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NE (W)	325	4	520851 208255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	384	4	521617 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8NW (S)	402	4	521242 207741
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12SE (SW)	406	4	520870 208000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SE (SW)	435	4	520836 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	445	4	521598 207845
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	454	4	521616 207859
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	567	4	521699 207783
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	614	4	521345 207534
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	623	4	521871 208000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	629	4	521928 208506
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NE (N)	652	4	521259 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	675	4	522000 208318
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	675	4	522000 208255
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	675	4	522000 208328
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	685	4	522000 208445

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18NW (N)	719	4	521000 209000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	722	4	522000 208066
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	732	4	521034 207446
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	744	4	522000 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	752	4	522000 207975
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	763	4	521000 207426

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 40 - 60 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	783	4	522042 208000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 150 - 300 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (S)	803	4	521000 207383
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	821	4	522000 208798
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	903	4	521133 207248
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	903	4	521000 207278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SE (SE)	933	4	521993 207565

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SE (SE)	935	4	522000 207570
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NE (NE)	948	4	522000 209000
37	BGS Recorded Mineral Sites Site Name: Roe Green Gravel Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165988 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Pleistocene Geology: Kesgrave Catchment Subgroup Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	448	4	521555 207805
38	BGS Recorded Mineral Sites Site Name: Roe Green Chalk Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165990 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	524	4	521501 207677
39	BGS Recorded Mineral Sites Site Name: Roe Green Gravel Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165989 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Pleistocene Geology: Kesgrave Catchment Subgroup Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	533	4	521597 207729
40	BGS Recorded Mineral Sites Site Name: Roe Green Gravel Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165991 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Head Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NE (S)	567	4	521480 207619

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	BGS Recorded Mineral Sites Site Name: Roe Green Farm North Chalk Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165992 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SW (E)	614	4	521912 208144
42	BGS Recorded Mineral Sites Site Name: Roe Green Chalk Mines Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165986 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	633	4	521470 207545
42	BGS Recorded Mineral Sites Site Name: Roe Green Chalk Mines Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165987 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	638	4	521462 207537
43	BGS Recorded Mineral Sites Site Name: Roe Green Farm North Chalk Pit Location: , Roe Green, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 165993 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SE (E)	711	4	522025 208201
44	BGS Recorded Mineral Sites Site Name: Hazel Grove Chalk Pit Location: , Hazel Grove, South Hatfield, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166003 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SE (S)	908	4	521499 207266
44	BGS Recorded Mineral Sites Site Name: Hazel Grove Chalk Pit Location: , Hazel Grove, South Hatfield, Hatfield, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166005 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A3NE (S)	953	4	521507 207222

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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				
	Man-Made Mining Cavities Easting: 521620 Northing: 207980 Distance: 395 Quadrant Reference: A14 Quadrant Reference: SW Bearing Ref: SE Cavity Type: 4x Chalkwells Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Gravel Detail:	A14SW (SE)	395	7	521620 207980
	Man-Made Mining Cavities Easting: 521490 Northing: 207710 Distance: 489 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Historical Chalk Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: No Details Detail:	A8NE (SE)	489	7	521490 207710
	Man-Made Mining Cavities Easting: 521540 Northing: 207650 Distance: 566 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Possible Crown Hole Collapses Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Gravel Detail:	A8NE (SE)	566	7	521540 207650
	Man-Made Mining Cavities Easting: 521550 Northing: 207610 Distance: 606 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: SE Cavity Type: 2x Possible Crown Hole Collapses Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: No Details Detail:	A8NE (SE)	606	7	521550 207610
	Man-Made Mining Cavities Easting: 521470 Northing: 207530 Distance: 647 Quadrant Reference: A8 Quadrant Reference: SE Bearing Ref: S Cavity Type: 3x Chalkwells Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: No Details Detail:	A8SE (S)	647	7	521470 207530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 522000 Northing: 208000 Distance: 744 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Chalk Mining-Details Unknown Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Gravel Detail:	A14SE (E)	744	7	522000 208000
	Man-Made Mining Cavities Easting: 521470 Northing: 207200 Distance: 965 Quadrant Reference: A3 Quadrant Reference: NE Bearing Ref: S Cavity Type: Chalkwell Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: River Terrace Deposits Detail:	A3NE (S)	965	7	521470 207200
	Man-Made Mining Cavities Easting: 521500 Northing: 207200 Distance: 972 Quadrant Reference: A3 Quadrant Reference: NE Bearing Ref: S Cavity Type: Historical Lime Kiln-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: River Terrace Deposits Detail:	A3NE (S)	972	7	521500 207200
	Man-Made Mining Cavities Easting: 522300 Northing: 208300 Distance: 975 Quadrant Reference: A15 Quadrant Reference: NW Bearing Ref: E Cavity Type: Shaft Entry Pillar and Stall Chalk Mine-Known Mined Ground Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till Detail:	A15NW (E)	975	7	522300 208300
	Man-Made Mining Cavities Easting: 522300 Northing: 208300 Distance: 975 Quadrant Reference: A15 Quadrant Reference: NW Bearing Ref: E Cavity Type: Multiple Crown Hole Collapses/Structural damage Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till Detail:	A15NW (E)	975	7	522300 208300
	Natural Cavities Easting: 521750 Northing: 208200 Distance: 443 Quadrant Reference: A14 Quadrant Reference: SW Bearing Ref: E Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology: Glacial Sand & Gravel Detail:	A14SW (E)	443	7	521750 208200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 521780 Northing: 208420 Distance: 464 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: E Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till and morainic drift Detail:	A14NW (E)	464	7	521780 208420
	Natural Cavities Easting: 521850 Northing: 208580 Distance: 583 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: NE Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till and morainic drift Detail:	A14NW (NE)	583	7	521850 208580
	Natural Cavities Easting: 522040 Northing: 208490 Distance: 733 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Swallow Hole Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till and morainic drift Detail:	A14NE (E)	733	7	522040 208490
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	203	4	521375 207975
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	226	4	521325 207925
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	72	4	521207 208392
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	202	4	521479 208123
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	72	4	521207 208392
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SE)	0	4	521259 208255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Potential for Shrinking or Swelling Clay Ground Stability Hazards</p> <p>Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service</p>	A13NW (N)	72	4	521207 208392
	<p>Radon Potential - Radon Protection Measures</p> <p>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (SE)	0	4	521259 208255
	<p>Radon Potential - Radon Affected Areas</p> <p>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (SE)	0	4	521259 208255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	<p>Contemporary Trade Directory Entries</p> <p>Name: Call Connect Telecoms Location: 20, Selwyn Crescent, Hatfield, Hertfordshire, AL10 9NN Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	68	-	521190 208126
46	<p>Contemporary Trade Directory Entries</p> <p>Name: Sd Duplication Location: Maclaurin Building, 4, Bishops Square, Hatfield, Hertfordshire, AL10 9NE Classification: Digital Printing Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	134	-	521259 208474
47	<p>Contemporary Trade Directory Entries</p> <p>Name: Henkel Ltd Location: 2, Apollo Court, Bishops Square Business Park, Hatfield, Hertfordshire, AL10 9EY Classification: Adhesives, Glues & Sealants Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	155	-	521347 208497
48	<p>Contemporary Trade Directory Entries</p> <p>Name: Barnet Pool Maintenance Ltd Location: 2nd Floor, Titan Court, Bishops Square, Hatfield, Hertfordshire, AL10 9NA Classification: Swimming Pool Contractors, Repairers & Service Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A13NE (N)	183	-	521291 208530
49	<p>Contemporary Trade Directory Entries</p> <p>Name: Thorntons Plc Location: The Galleria, Comet Way, Hatfield, Hertfordshire, AL10 0XR Classification: Confectionery Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13NE (NE)	233	-	521536 208426
49	<p>Contemporary Trade Directory Entries</p> <p>Name: Cotton Traders Ltd Location: 6, The Galleria, Comet Way, Hatfield, Hertfordshire, AL10 0XR Classification: Leisure & Sportswear Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	234	-	521536 208427
49	<p>Contemporary Trade Directory Entries</p> <p>Name: Erdos Cashmere Group Location: 88, The Galleria, Comet Way, Hatfield, Hertfordshire, AL10 0YA Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	234	-	521536 208427
49	<p>Contemporary Trade Directory Entries</p> <p>Name: Tog 24 Location: 52, The Galleria, Comet Way, Hatfield, Hertfordshire, AL10 0XX Classification: Waterproof Clothing & Rainwear Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	234	-	521536 208427
49	<p>Contemporary Trade Directory Entries</p> <p>Name: Whittard Location: 75-77, The Galleria, Comet Way, Hatfield, Hertfordshire, AL10 0YA Classification: Ceramic Manufacturers, Supplies & Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	234	-	521536 208427
50	<p>Contemporary Trade Directory Entries</p> <p>Name: Clean Complete Location: 9a, Brookside, Hatfield, Hertfordshire, AL10 9RR Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	313	-	520942 208060
51	<p>Contemporary Trade Directory Entries</p> <p>Name: Thecakeboxes Location: 27, Haltside, Hatfield, Hertfordshire, AL10 9SW Classification: Packaging Materials Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	372	-	521058 207830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	<p>Contemporary Trade Directory Entries</p> <p>Name: L G C Promochem Location: King George Ho, Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Chemicals - Distributors & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A19SW (NE)	402	-	521613 208614
53	<p>Contemporary Trade Directory Entries</p> <p>Name: The Paint & Timber Workshop Location: The Oak Tree, Ellenbrook Lane, Hatfield, Hertfordshire, AL10 9NT Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	415	-	521085 207766
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Waters Retail Ltd Location: Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	432	-	521609 208660
54	<p>Contemporary Trade Directory Entries</p> <p>Name: W Waters & Sons Ltd Location: Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	432	-	521609 208660
54	<p>Contemporary Trade Directory Entries</p> <p>Name: W Waters & Sons Ltd Location: Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	432	-	521609 208660
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Waters Location: Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	432	-	521609 208660
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Herts Signs Location: 7, Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	448	-	521617 208675
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Herts T-Shirt Printers Location: 7, Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: T-Shirts Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	448	-	521617 208675
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Spire Automotive Ltd Location: Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Car Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A19SW (NE)	448	-	521617 208675
54	<p>Contemporary Trade Directory Entries</p> <p>Name: Seymore Electrical Location: King Georges House, Unit 3 Harpsfield Broadway, Comet Way, Hatfield, Hertfordshire, AL10 9TF Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A19SW (NE)	455	-	521628 208675
55	<p>Contemporary Trade Directory Entries</p> <p>Name: Sevic Systems (Uk) Ltd Location: The Hangar, Mosquito Way, Hatfield, Hertfordshire, AL10 9AX Classification: Electronic Equipment - Manufacturers & Assemblers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A18SW (N)	438	-	521126 208748

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	<p>Contemporary Trade Directory Entries</p> <p>Name: P Squire Location: 1, Wilkins Green Lane, Hatfield, Hertfordshire, AL10 9RT Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	452	-	520863 207923
57	<p>Contemporary Trade Directory Entries</p> <p>Name: Charlie'S Cleaning Location: Parkhouse Ct, Hatfield, Hertfordshire, AL10 9RQ Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A18SE (NE)	452	-	521530 208742
58	<p>Contemporary Trade Directory Entries</p> <p>Name: Sparkles Cleaning Services Location: 44, Clarkson Court, Hatfield, Hertfordshire, AL10 9GU Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	511	-	521476 208830
59	<p>Contemporary Trade Directory Entries</p> <p>Name: Scamatoru Location: Aldykes, Hatfield, Hertfordshire, AL10 8EB Classification: Tile Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (E)	522	-	521787 208062
60	<p>Contemporary Trade Directory Entries</p> <p>Name: L Harper Scaffolding Ltd Location: 24, Bramble Road, Hatfield, Hertfordshire, AL10 9SA Classification: Scaffolding & Work Platforms Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12SE (SW)	538	-	520720 207999
61	<p>Contemporary Trade Directory Entries</p> <p>Name: Oaker Restoration Location: 1, Poplars Avenue, Hatfield, Hertfordshire, AL10 9RY Classification: French Polishing Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SE (W)	555	-	520651 208118
62	<p>Contemporary Trade Directory Entries</p> <p>Name: Giffen Group Plc Location: Unit 1-2, 184, St. Albans Road West, Hatfield, Hertfordshire, AL10 0TF Classification: Control Panels Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (NE)	607	-	521881 208570
62	<p>Contemporary Trade Directory Entries</p> <p>Name: Intrad Ltd Location: Unit 4, 184, St. Albans Road West, Hatfield, Hertfordshire, AL10 0TF Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	625	-	521886 208603
62	<p>Contemporary Trade Directory Entries</p> <p>Name: Switchgear International Location: Unit 1-2, 184, St. Albans Road West, Hatfield, Hertfordshire, AL10 0TF Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	639	-	521909 208587
63	<p>Contemporary Trade Directory Entries</p> <p>Name: Tracy'S Ltd Location: 142, Dragon Road, Hatfield, Hertfordshire, AL10 9NZ Classification: French Polishing Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	614	-	521048 208906
64	<p>Contemporary Trade Directory Entries</p> <p>Name: A Feek Location: 369, St. Albans Road West, Hatfield, Hertfordshire, AL10 9RU Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12SW (W)	668	-	520531 208126

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Devices Ltd Location: 28, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Medical Equipment Maintenance & Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	681	-	521928 208644
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Graficom Location: 27, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	685	-	521931 208646
65	<p>Contemporary Trade Directory Entries</p> <p>Name: A & D Cleaners Location: 26, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	689	-	521934 208650
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Garden City Coachworks Location: Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	693	-	521945 208635
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Glenrose Engineering Location: 22, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	693	-	521934 208658
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Garden City Coachworks Location: Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	693	-	521945 208635
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Herts Print & Design Location: 23, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	694	-	521935 208656
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Maskell Textiles Location: 24, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	696	-	521939 208654
65	<p>Contemporary Trade Directory Entries</p> <p>Name: A M Sign Services Location: 25, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	698	-	521943 208650
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Value Van & Car Hire Location: 5, Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	711	-	521962 208642

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Charge Electrical Location: 19, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	726	-	521959 208682
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Fiddlebridge Motors Location: 20-21, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	729	-	521965 208676
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Fiddlebridge Motors Location: 21, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Car & Commercial Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	729	-	521965 208676
65	<p>Contemporary Trade Directory Entries</p> <p>Name: O'Neill Joinery Location: 17-18, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Joinery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	735	-	521971 208678
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Graficom Ltd Location: 6, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Screen Process Printers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A19SE (NE)	741	-	521972 208688
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Kitkat Autos Ltd Location: 21, Fiddle Bridge Lane, Hatfield, AL10 0SP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	747	-	521986 208673
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Golder Motors Location: 21, Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	747	-	521986 208673
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Hertfordshire Car Centre Location: Fiddle Bridge La, Hatfield, Hertfordshire, AL10 0SP Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A19SE (NE)	753	-	521991 208678
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Hertfordshire Car Centre Location: Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Car Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A19SE (NE)	753	-	521991 208678
65	<p>Contemporary Trade Directory Entries</p> <p>Name: Graficom Location: Unit 6, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	772	-	521992 208717
66	<p>Contemporary Trade Directory Entries</p> <p>Name: The Hertfordshire Car Centre Location: Fiddle Bridge La, Hatfield, Hertfordshire, AL10 0SP Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A19SE (NE)	703	-	521964 208619

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	Contemporary Trade Directory Entries Name: Office Linx Location: 25, Fiddle Bridge Lane, Hatfield, Hertfordshire, AL10 0SP Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	779	-	522012 208695
67	Contemporary Trade Directory Entries Name: Hatfield Auto Centre Location: 9, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	779	-	522004 208708
67	Contemporary Trade Directory Entries Name: Hatfield Tyre & Exhaust Centre Location: 9, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	779	-	522004 208708
67	Contemporary Trade Directory Entries Name: Easyclean Uk Location: Fiddlebridge Ind Centre, Lemsford Rd, Hatfield, Hertfordshire, AL10 0DE Classification: Dry Cleaners Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	791	-	522011 208721
67	Contemporary Trade Directory Entries Name: Essex Tool & Cutter Service Location: 1, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Tool Sharpening, Repairing & Servicing Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	801	-	522013 208738
67	Contemporary Trade Directory Entries Name: Firs Calor Services Location: 5, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Gas Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	804	-	522024 208725
67	Contemporary Trade Directory Entries Name: Uk Services Location: 5, Fiddlebridge Industrial Centre, Lemsford Road, Hatfield, Hertfordshire, AL10 0DE Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	804	-	522024 208725
68	Contemporary Trade Directory Entries Name: Vural Ltd Location: Unit 33, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Clothing & Fabrics - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	811	-	521202 209152
69	Contemporary Trade Directory Entries Name: Ath Cleaning Services Limited Location: 16, Oak Tree Close, Hatfield, Hertfordshire, AL10 0EG Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A19SE (NE)	843	-	522031 208790
70	Contemporary Trade Directory Entries Name: B D Clearance Services Ltd Location: 1, Holly Close, Hatfield, Hertfordshire, AL10 9JB Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NW (SE)	846	-	521904 207593
71	Contemporary Trade Directory Entries Name: Nash Pharm Ltd Location: Unit 29, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Chemists' & Pharmacists' Suppliers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	847	-	521249 209193

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Contemporary Trade Directory Entries Name: A1 Service Carpet Cleaning Location: 51, Lemsford Road, Hatfield, Hertfordshire, AL10 0DZ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	866	-	521974 208907
72	Contemporary Trade Directory Entries Name: Www.Ites.Ltd.Uk Location: 59, Lemsford Road, Hatfield, Hertfordshire, AL10 0DZ Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	886	-	521974 208936
73	Contemporary Trade Directory Entries Name: Pb Mailing Supplies Location: Unit 5, Trident Place, Mosquito Way, Hatfield, Hertfordshire, AL10 9UJ Classification: Mailing Machines & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	869	-	521739 209103
74	Contemporary Trade Directory Entries Name: Anisa Location: Unit 21, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	894	-	521296 209242
74	Contemporary Trade Directory Entries Name: Alpha Pneumatic Supplies Location: Unit 7, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Pneumatic Systems & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A23SE (N)	923	-	521319 209270
75	Contemporary Trade Directory Entries Name: Allied Pest Control Location: 3 Oaklands Wood, Hatfield, Hertfordshire, AL10 8LU Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14SE (E)	898	-	522138 207926
76	Contemporary Trade Directory Entries Name: D M S Direct Ltd Location: Unit 28, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	901	-	521200 209243
76	Contemporary Trade Directory Entries Name: Xenith Location: Unit 24, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Office Furniture & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A23SW (N)	916	-	521226 209261
76	Contemporary Trade Directory Entries Name: Flamefield Location: Unit 22, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Tableware Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SW (N)	928	-	521232 209273
76	Contemporary Trade Directory Entries Name: Flamefield Location: Unit 22, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Tableware Status: Active Positional Accuracy: Automatically positioned to the address	A23SW (N)	928	-	521232 209273
77	Contemporary Trade Directory Entries Name: Lafarge Aggregates Ltd Location: Ryders Av, Colney Heath, St. Albans, Hertfordshire, AL4 0RZ Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SW (S)	910	-	521055 207256
78	Contemporary Trade Directory Entries Name: New Enterprise Pest Control Herts Ltd Location: 8, Hillcrest, Hatfield, Hertfordshire, AL10 8HW Classification: Pest & Vermin Control Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	931	-	522228 208097

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Contemporary Trade Directory Entries Name: New Enterprise Pest Control Location: 8, Hillcrest, Hatfield, Hertfordshire, AL10 8HW Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	931	-	522228 208097
79	Contemporary Trade Directory Entries Name: Flamefield Ltd Location: Unit 22, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Tableware Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A23SE (N)	971	-	521340 209318
79	Contemporary Trade Directory Entries Name: M G Stickland Location: Unit 25, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A23SE (N)	979	-	521322 209326
80	Contemporary Trade Directory Entries Name: K Williamson Veneers Ltd Location: Unit 14, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Veneer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	975	-	521261 209322
80	Contemporary Trade Directory Entries Name: Biggerstaff Windows Ltd Location: Unit 12, The I O Centre, Hearle Way, HATFIELD, Hertfordshire, AL10 9EW Classification: Window Frames - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A23SE (N)	988	-	521267 209335
81	Contemporary Trade Directory Entries Name: Sidel Location: Unit 2, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	990	-	521397 209333
81	Contemporary Trade Directory Entries Name: Simonazzi (Uk) Ltd Location: Unit 2, The I O Centre, Hearle Way, Hatfield, Hertfordshire, AL10 9EW Classification: Bottling Machinery & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	990	-	521397 209333
82	Fuel Station Entries Name: Waters Filling Station Location: Harpsfield Broadway, HATFIELD, Hertfordshire, AL10 9TF Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A19SW (NE)	448	-	521617 208675

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Areas of Adopted Green Belt Authority: Welwyn Hatfield District Council Plan Name: Welwyn Hatfield Local Plan Status: Adopted Plan Date: 15th April 2005	A12SE (W)	376	8	520807 208230
84	Areas of Adopted Green Belt Authority: St Albans City & District Council Plan Name: St Albans District Local Plan Review Status: Adopted Plan Date: 30th November 1994	A8SW (S)	789	9	521201 207355
85	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NE (SE)	0	11	521259 208255
86	Nitrate Vulnerable Zones Name: Not Supplied Description: Groundwater Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13NE (N)	90	11	521328 208437
87	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A9NE (SE)	772	11	522000 207900

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Welwyn Hatfield District Council - Environmental Health Department St Albans City & District Council - Environmental Health Department Hertsmere Borough Council - Environmental Health Department	August 2013 February 2015 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	July 2015	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - Thames Region	July 2015	Quarterly
Local Authority Integrated Pollution Prevention And Control Hertsmere Borough Council - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department St Albans City & District Council - Environmental Health Department	January 2015 May 2012 May 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Hertsmere Borough Council - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department St Albans City & District Council - Environmental Health Department	January 2015 May 2012 May 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Hertsmere Borough Council - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department St Albans City & District Council - Environmental Health Department	January 2015 May 2012 May 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - Thames Region - North East Area	July 2015	Quarterly
Water Abstractions Environment Agency - Thames Region	April 2015	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	July 2015	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	October 2012	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	July 2015	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2015	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2015	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2015	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2015	Quarterly
Flood Defences Environment Agency - Head Office	May 2015	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Thames Region - North East Area	May 2015	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - Thames Region - North East Area	August 2014	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - Thames Region - North East Area	April 2015	Quarterly
Local Authority Landfill Coverage Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department St Albans City & District Council - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Hertfordshire County Council - Spatial Planning and Economy Unit Hertsmere Borough Council - Environmental Health Department St Albans City & District Council - Environmental Health Department Welwyn Hatfield District Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - North East Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - North East Area	June 2015	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2015	Bi-Annually
Explosive Sites Health and Safety Executive	June 2015	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Welwyn Hatfield District Council Hertsmere Borough Council - Planning Department Hertfordshire County Council - Spatial Planning and Economy Unit St Albans City & District Council	April 2014 February 2015 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Welwyn Hatfield District Council Hertsmere Borough Council - Planning Department Hertfordshire County Council - Spatial Planning and Economy Unit St Albans City & District Council	April 2014 February 2015 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	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	July 2014	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
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	May 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Hertsmere Borough Council - Planning Department St Albans City & District Council Welwyn Hatfield District Council	May 2015 May 2015 May 2015	As notified As notified As notified
Areas of Unadopted Green Belt Hertsmere Borough Council - Planning Department St Albans City & District Council Welwyn Hatfield District Council	May 2015 May 2015 May 2015	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	February 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2014	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2015	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	March 2015	Bi-Annually
National Parks Natural England	August 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2015	Bi-Annually
Special Areas of Conservation Natural England	March 2014	Bi-Annually
Special Protection Areas Natural England	April 2015	Bi-Annually

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	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	Welwyn Hatfield District Council - Environmental Health Department Council Offices, Campus East, Welwyn Garden City, Hertfordshire, AL8 6AE	Telephone: 01707 357000 Fax: 01707 375490 Website: www.welhat.gov.uk
4	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
5	Hertfordshire County Council - Spatial Planning and Economy Unit County Hall, Hertford, Hertfordshire, SG13 8DN	Telephone: 01992 556266 Fax: 01992 556015 Email: spatialplanning@hertfordshire.gov.uk Website: www.hertsdirect.org
6	St Albans City & District Council - Environmental Health Department Civic Centre, St Peters Street, St Albans, Hertfordshire, AL1 3JE	Telephone: 01727 866100 Fax: 01727 845658 Website: www.stalbans.gov.uk
7	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
8	Welwyn Hatfield District Council Council Offices, Campus East, Welwyn Garden City, Hertfordshire, AL8 6AE	Telephone: 01707 357000 Fax: 01707 375490 Website: www.welhat.gov.uk
9	St Albans City & District Council Civic Centre, St Peters Street, St Albans, Hertfordshire, AL1 3JE	Telephone: 01727 866100 Fax: 01727 845658 Website: www.stalbans.gov.uk
10	Natural England Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
11	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
12	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.

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	LOFT	Lowestoft Formation	Diamicton	Anglian - Anglian
	KGCA	Kesgrave Catchment Subgroup	Sand and Gravel	Pleistocene - Pleistocene
	SGAO	Sand and Gravel of uncertain age and Origin	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Eocene - Eocene
	LMBE	Lambeth Group	Clay, Silt and Sand	Paleocene - Paleocene
	LESE	Lewes Nodular Chalk Formation and Seaford Chalk Formation (Undifferentiated)	Chalk	Santonian - Turonian



Geology 1:50,000 Maps

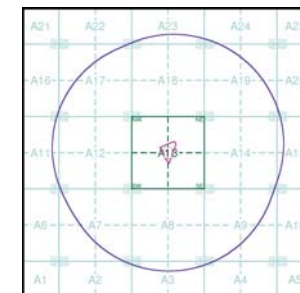
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	239
Map Name:	Hertford
Map Date:	1978
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



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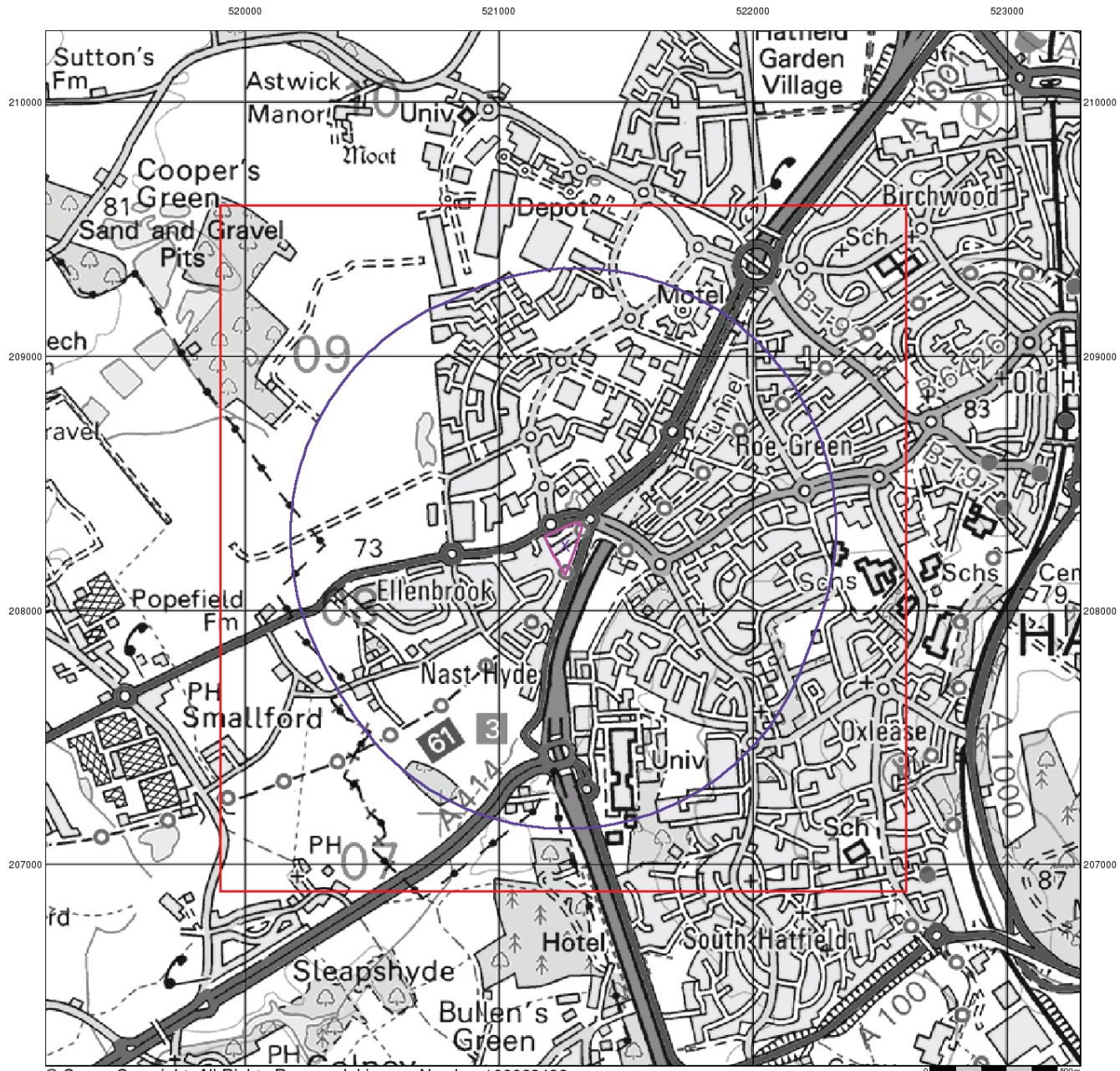
Order Number:	71966509_1_1
Customer Reference:	EB1843
National Grid Reference:	521260, 208250
Slice:	A
Site Area (Ha):	1.55
Search Buffer (m):	1000

Site Details:

Ramada Hotel, St. Albans Road West, HATFIELD, Hertfordshire, AL10 9RH



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



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Artificial Ground and Landslip

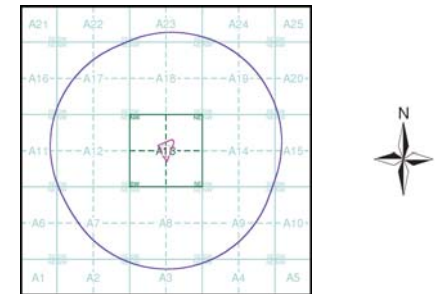
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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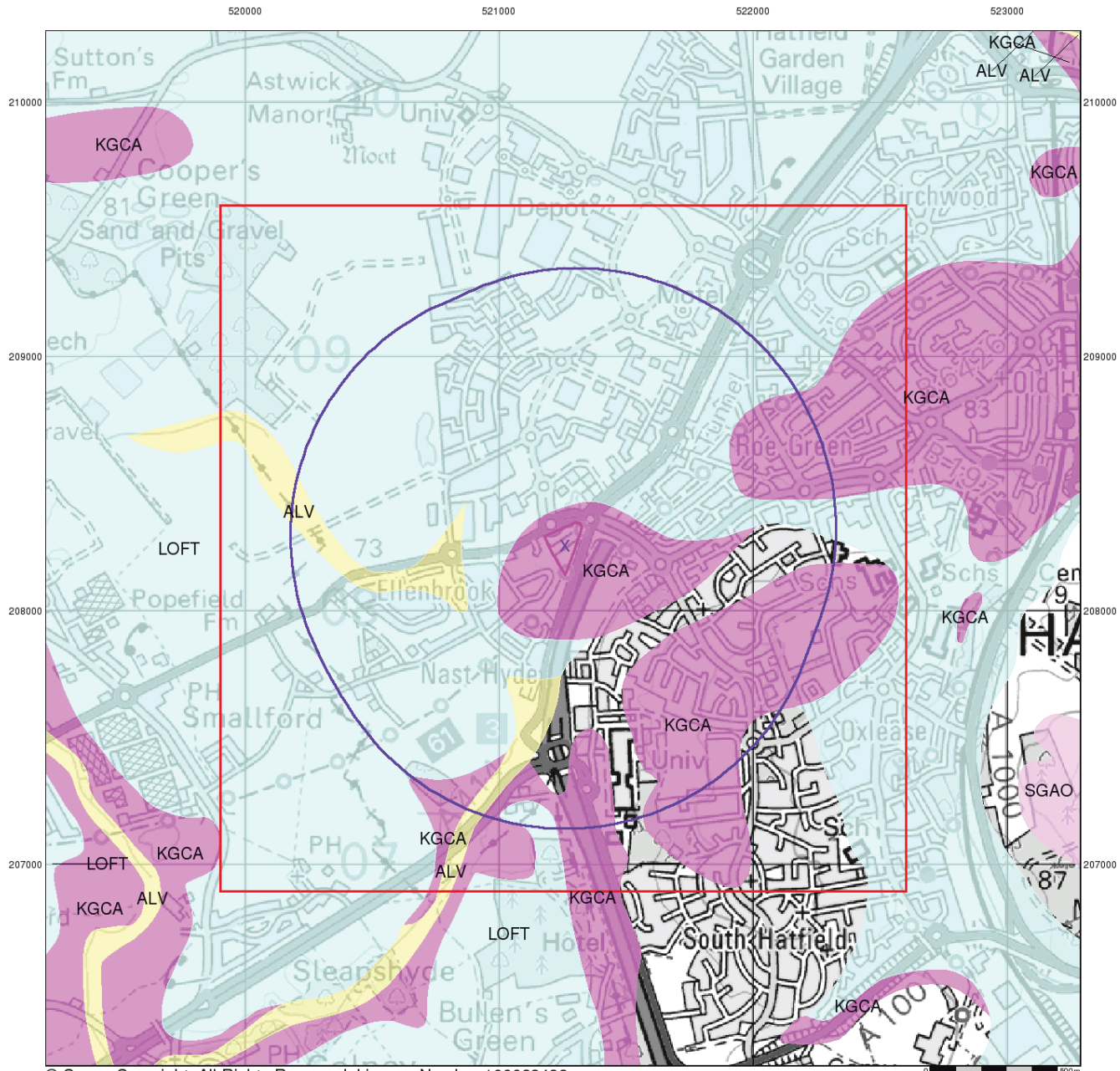
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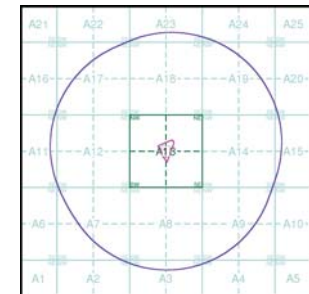
Superficial Geology

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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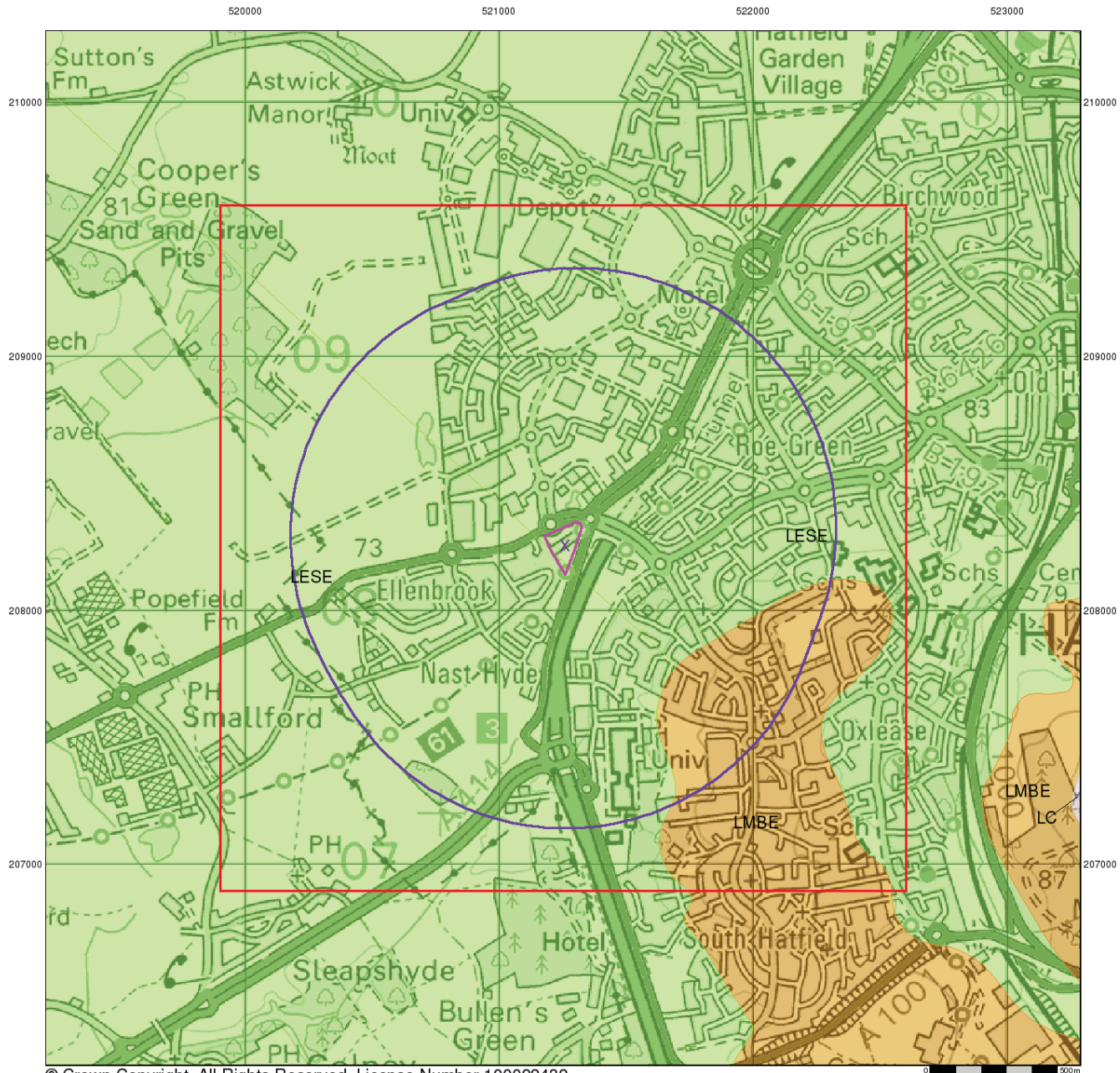
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Bedrock and Faults

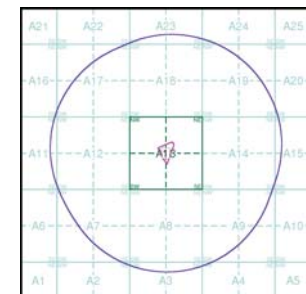
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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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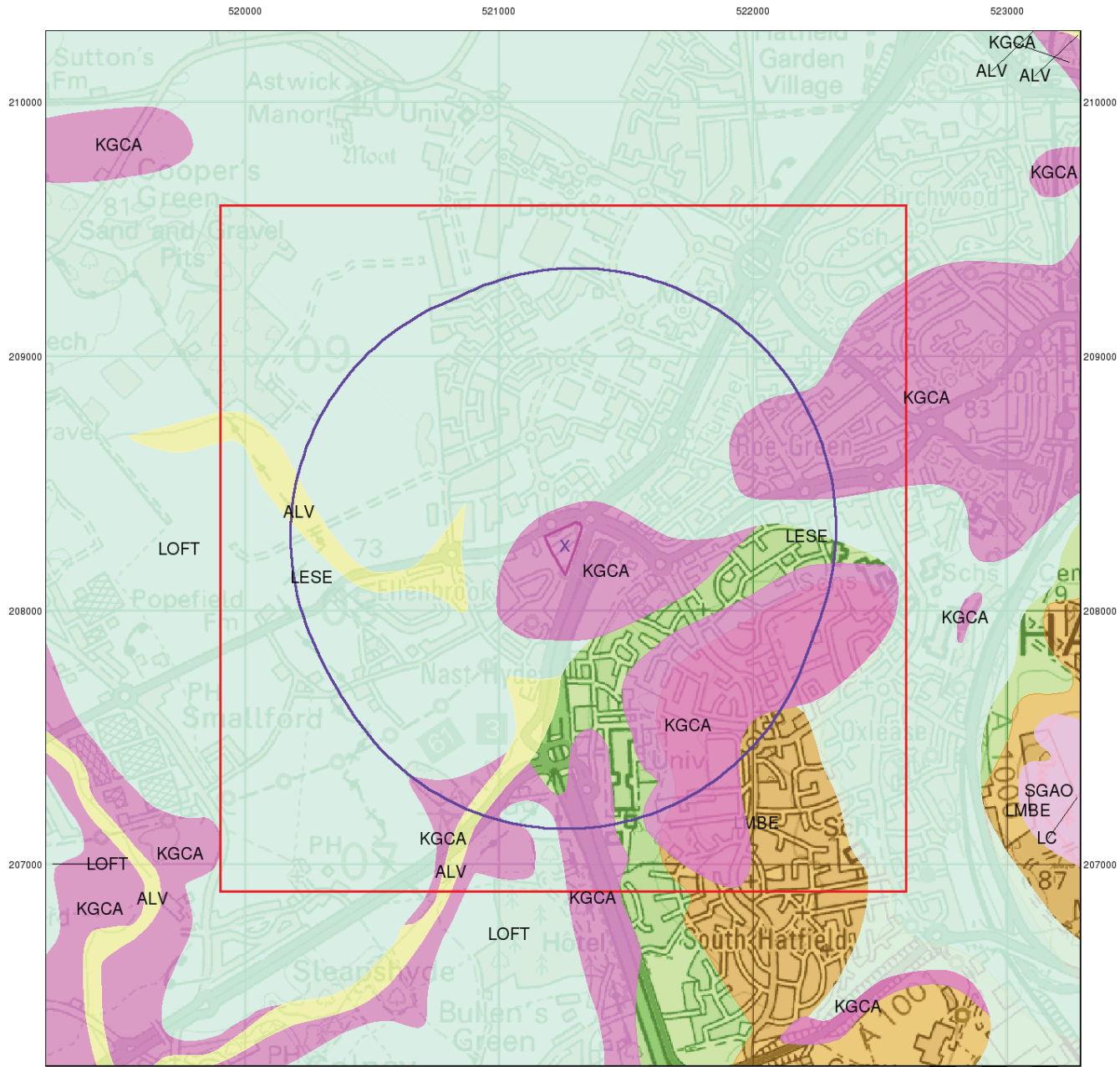
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Combined Surface Geology

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

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

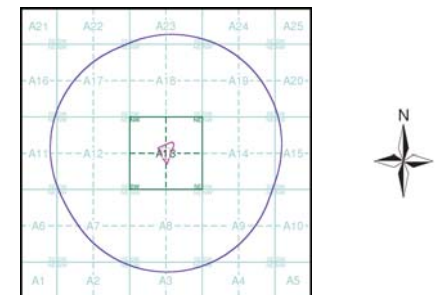
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

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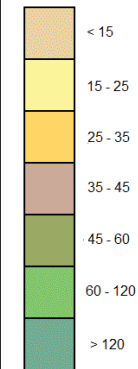
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General

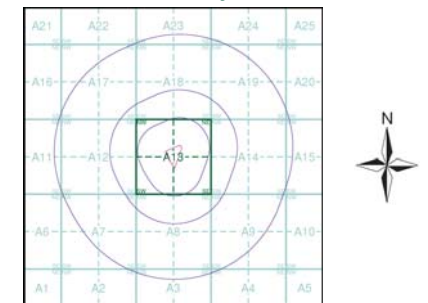
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 ○ Specified Buffer(s)
 X Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

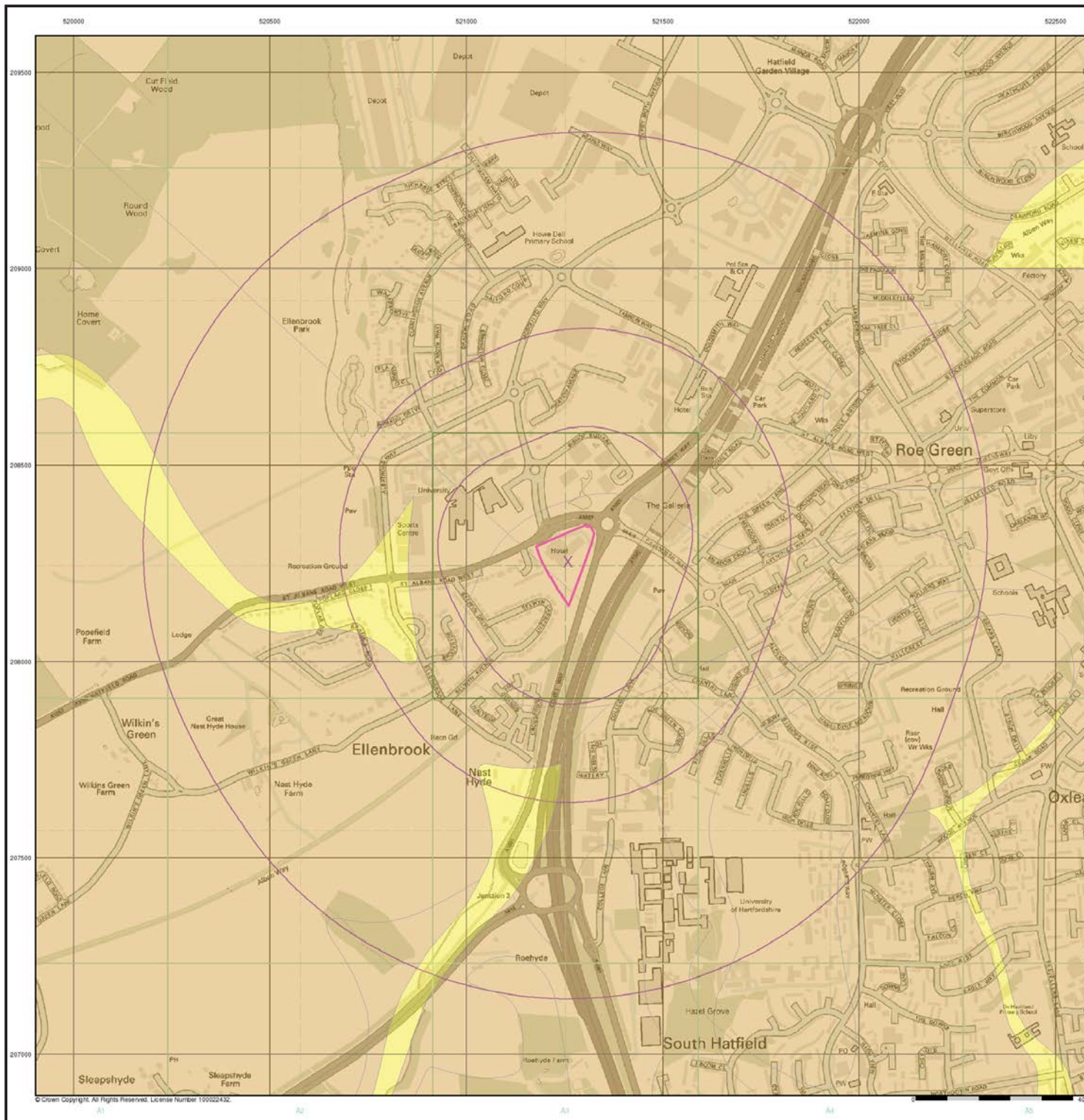


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 Hertfordshire, AL10 9RH

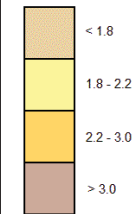


General

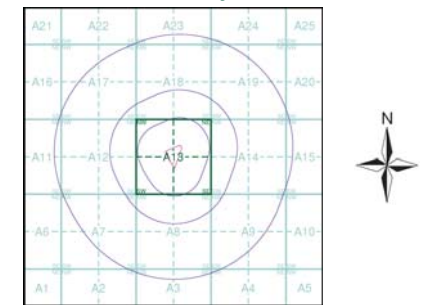
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Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

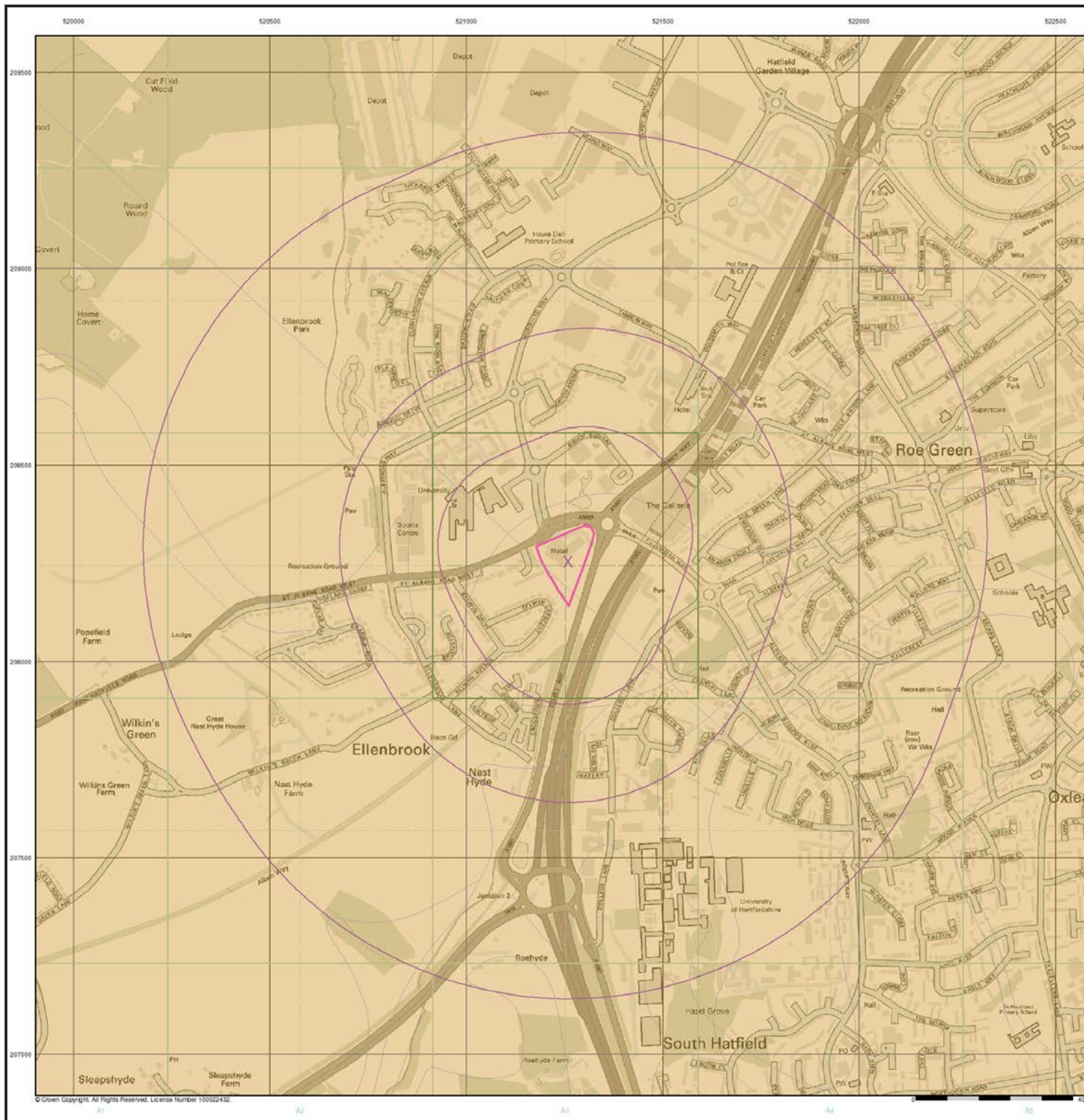


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 Hertfordshire, AL10 9RH

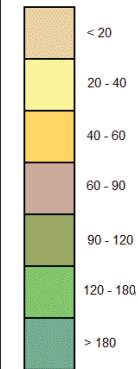


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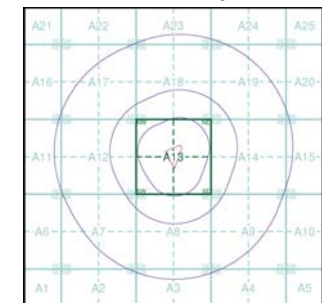
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Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

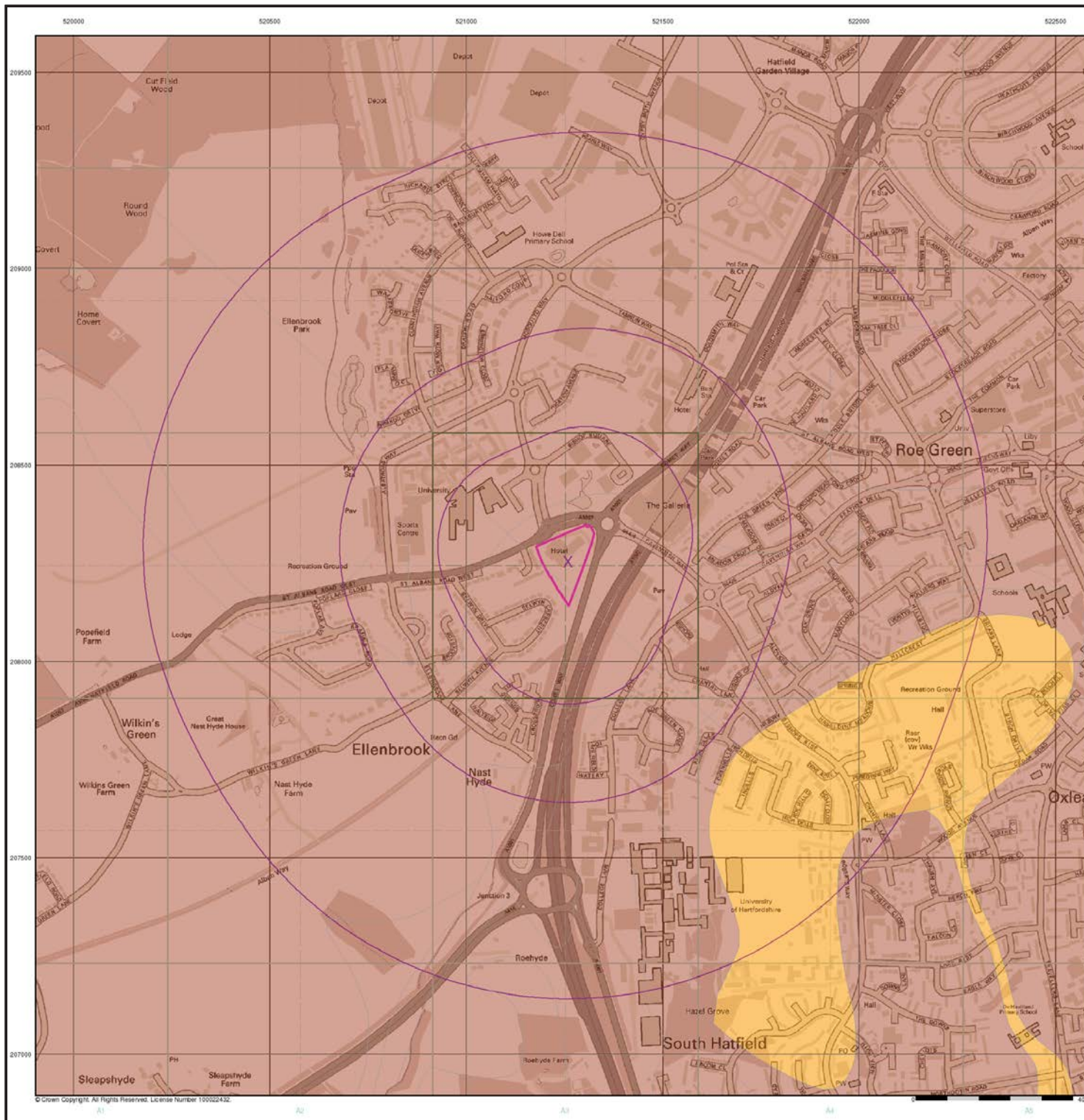


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Site Details

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 Hertfordshire, AL10 9RH

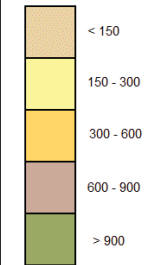


General

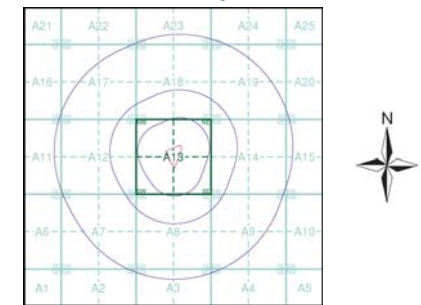
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 X Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A

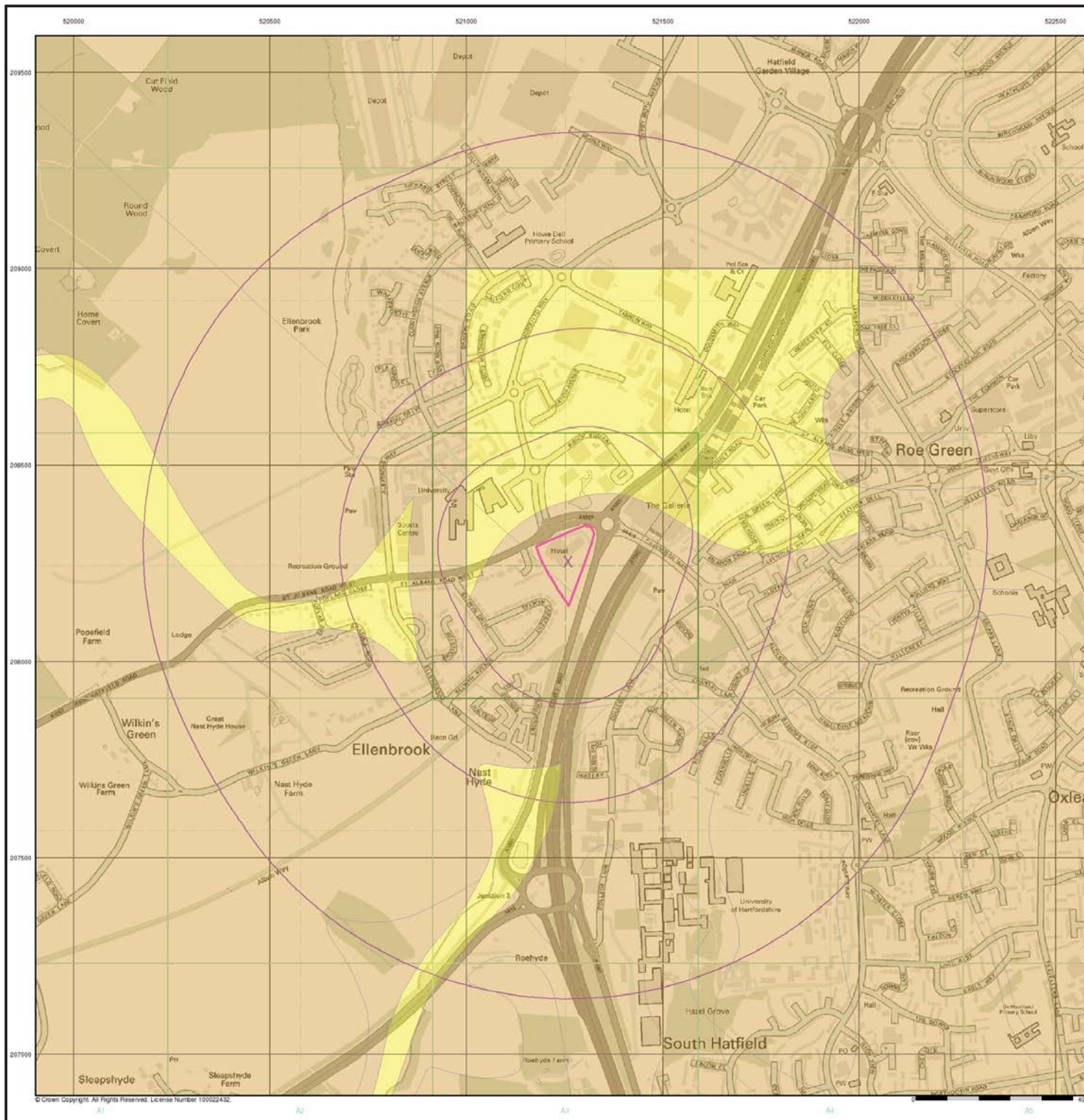


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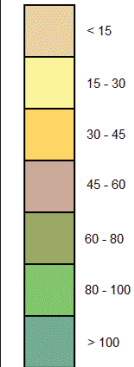


General

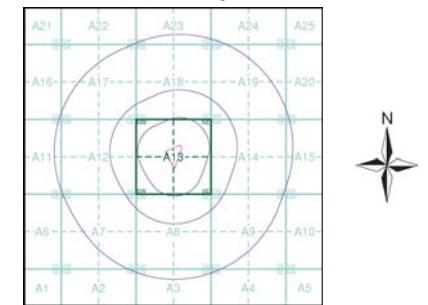
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- X Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

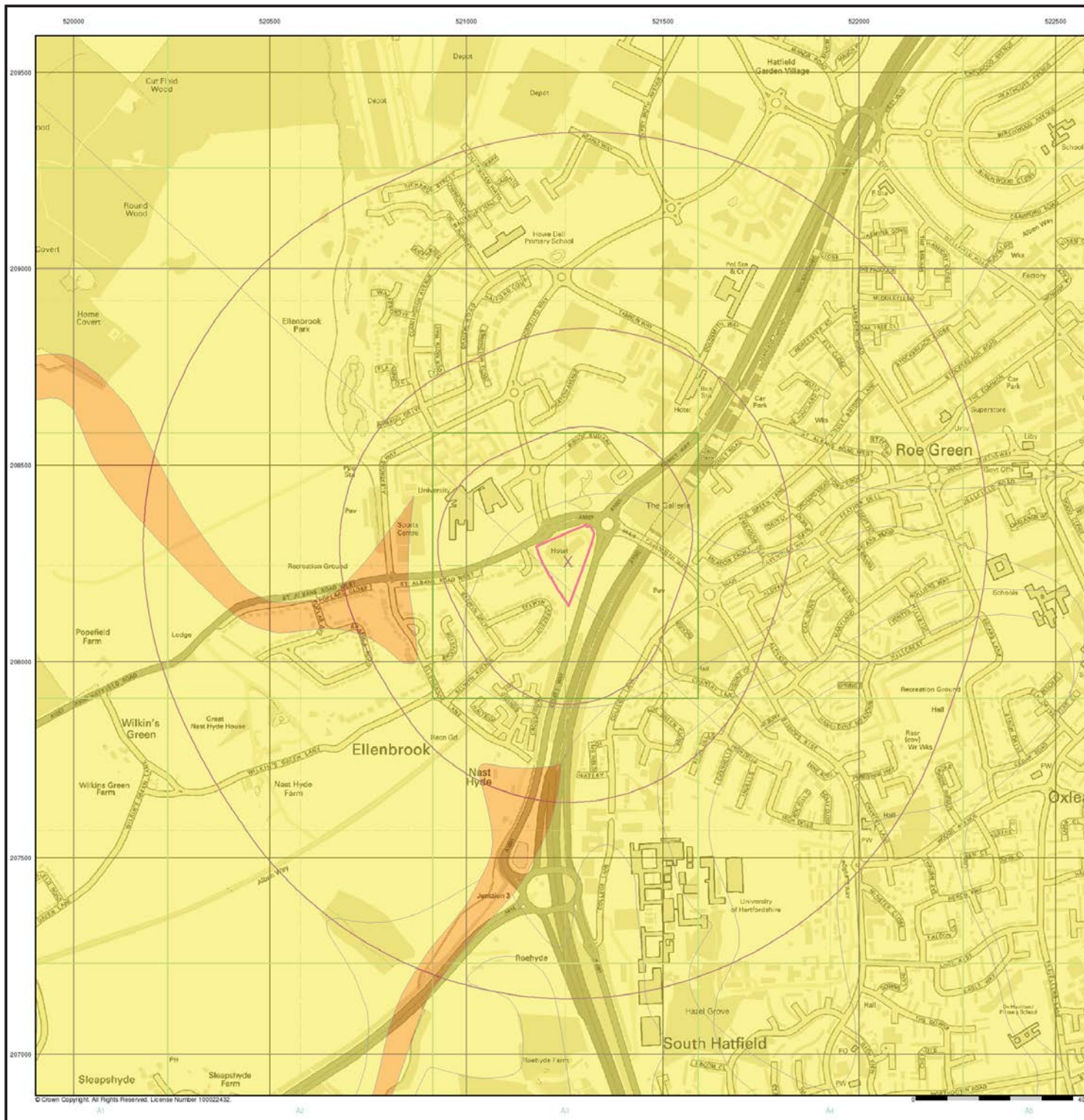


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 Slice: A
 Site Area (Ha): 1.55
 Search Buffer (m): 1000

Site Details

Ramada Hotel, St. Albans Road West, HATFIELD,
 Hertfordshire, AL10 9RH



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 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

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
- 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

Geological

- COMAH Site
- BGS Recorded Mineral Site

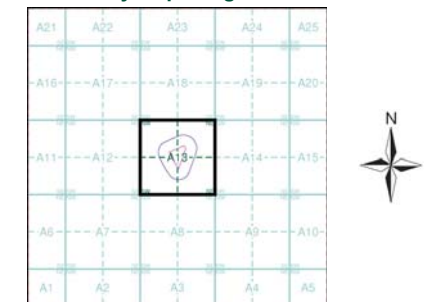
Hazardous Substances

- Explosive Site
- NIHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A13

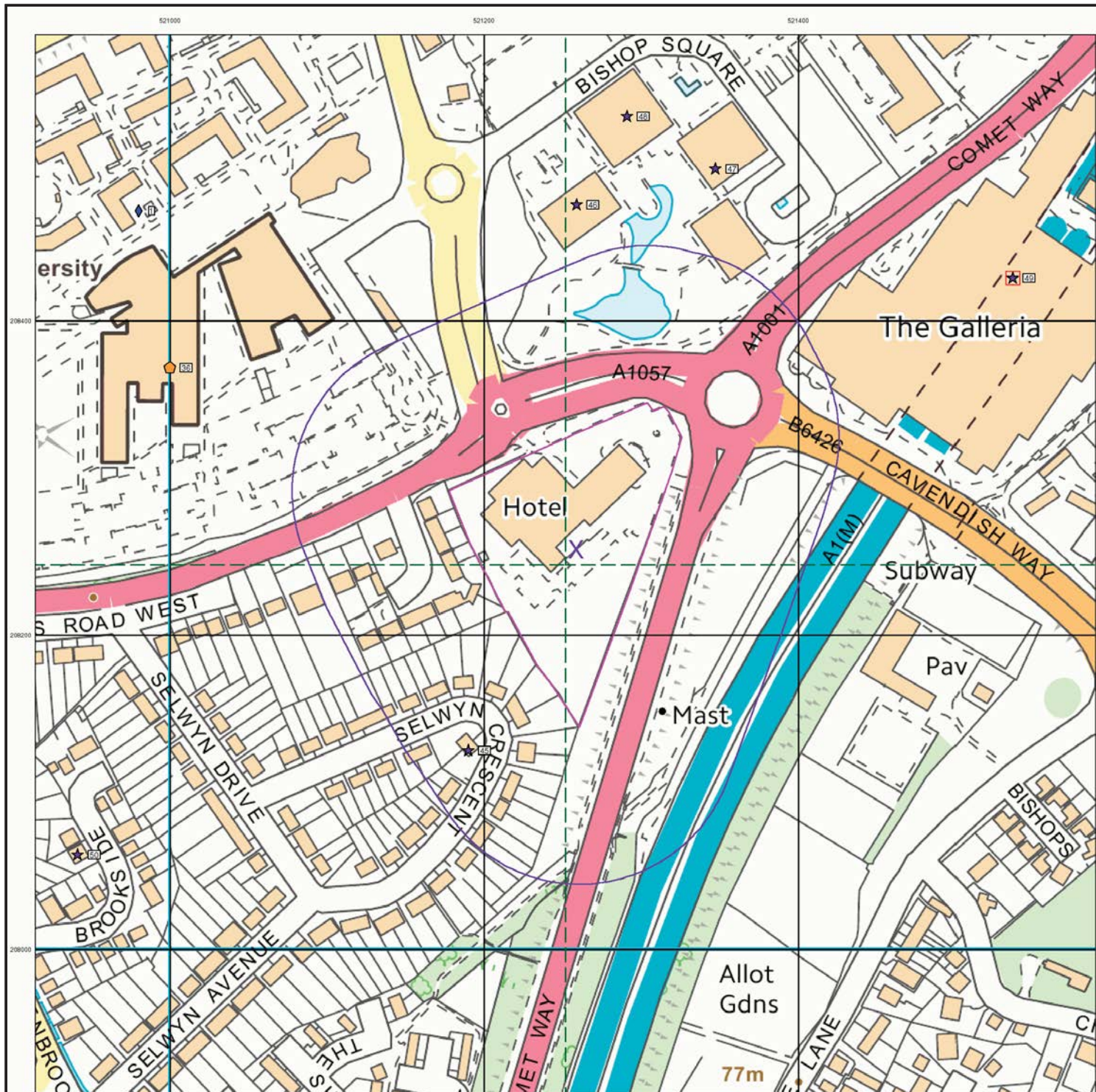


Order Details

Order Number: 71966509_1_1
 Customer Ref: EB1843
 National Grid Reference: 521260, 208250
 Slice: A
 Site Area (Ha): 1.55

Site Details

Ramada Hotel, St. Albans Road West, HATFIELD, Hertfordshire, AL10 9RH



General

- Specified Site
- Specified Buffer(s)
- X 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 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

Waste

- ▽ BGS Recorded Landfill Site (Location)
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- EA Historic Landfill (Polygon)
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- Registered Waste Transfer Site
- △ Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

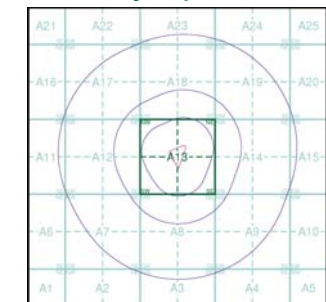
Geological

- ▽ BGS Recorded Mineral Site
- X COMAH Site
- X Explosive Site
- X NIHS Site
- X Planning Hazardous Substance Consent
- X Planning Hazardous Substance Enforcement

Industrial Land Use

- X Contemporary Trade Directory Entry
- X Fuel Station Entry

Site Sensitivity Map - Slice A

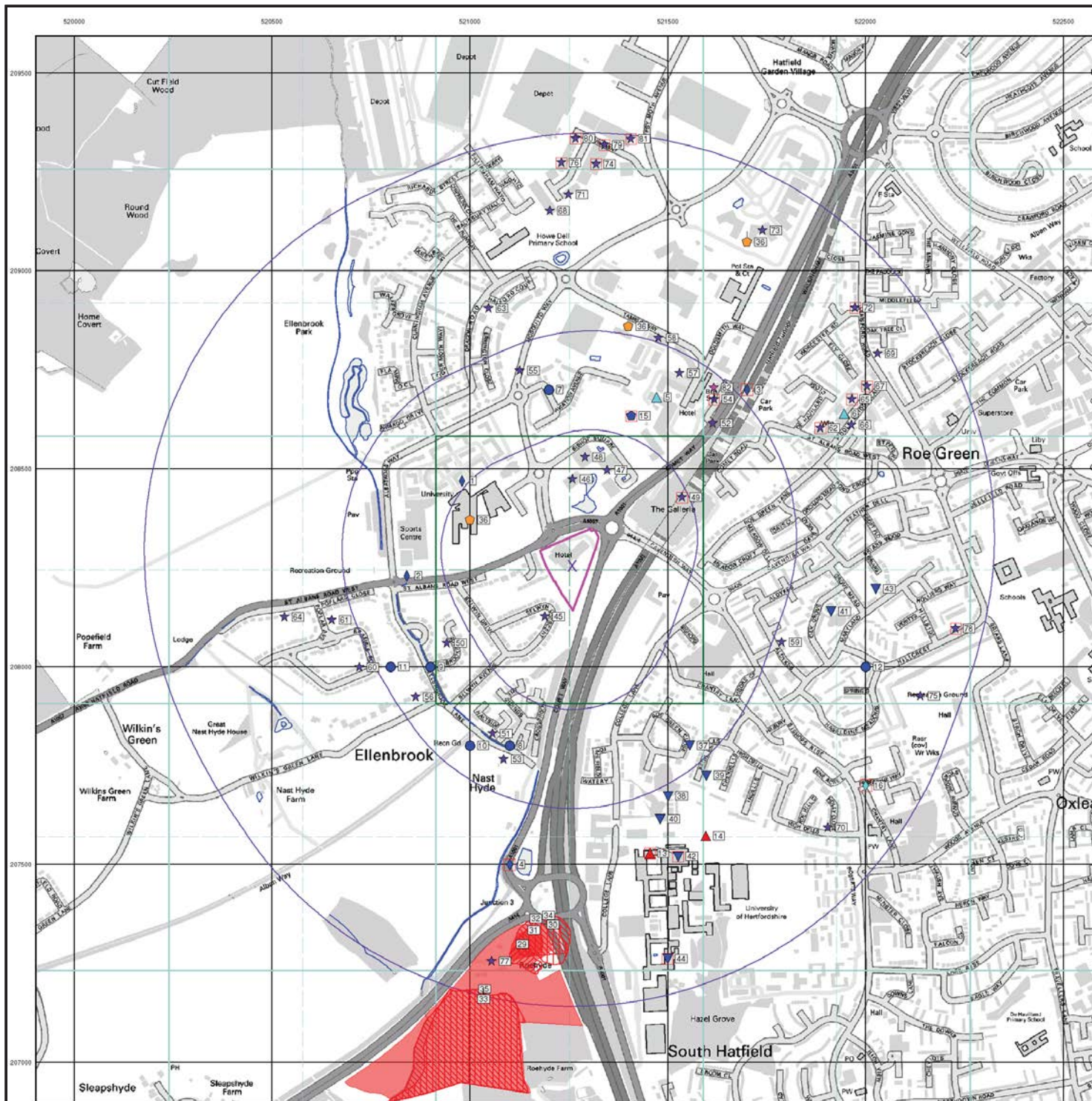


Order Details

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Site Details

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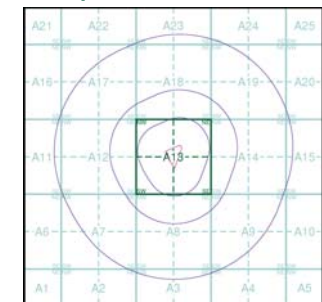
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A



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Site Details

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General

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

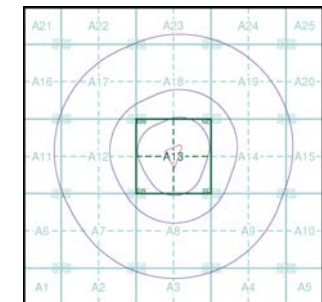
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

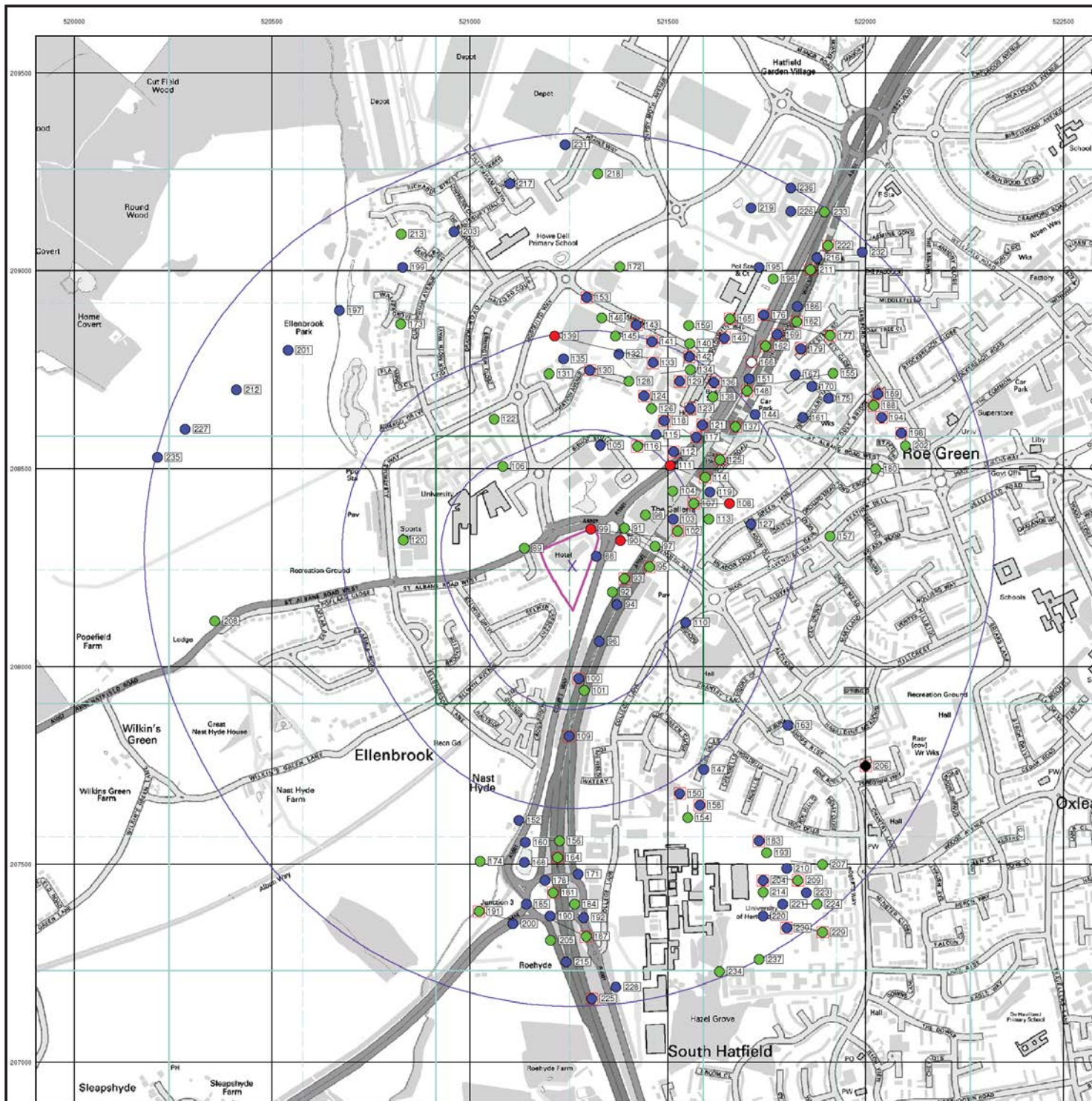


Order Details

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Site Details

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General

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- Bearing Reference Point
- Map ID

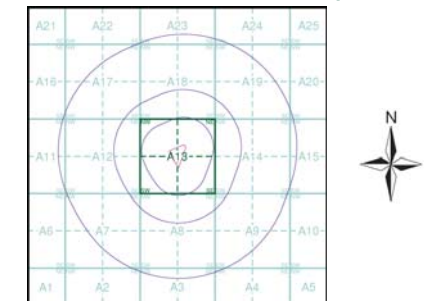
Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

- Standard Contour 105
- Master Contour 100
- Spot Height *167.3
- MJW = Mean Low Water
- MHW = Mean High Water

EA/NRW Detailed River Network Map - Slice A



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Site Details

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General

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

Risk of Flooding from Surface Water

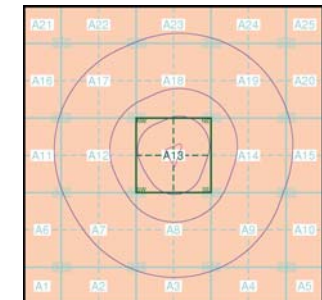
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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

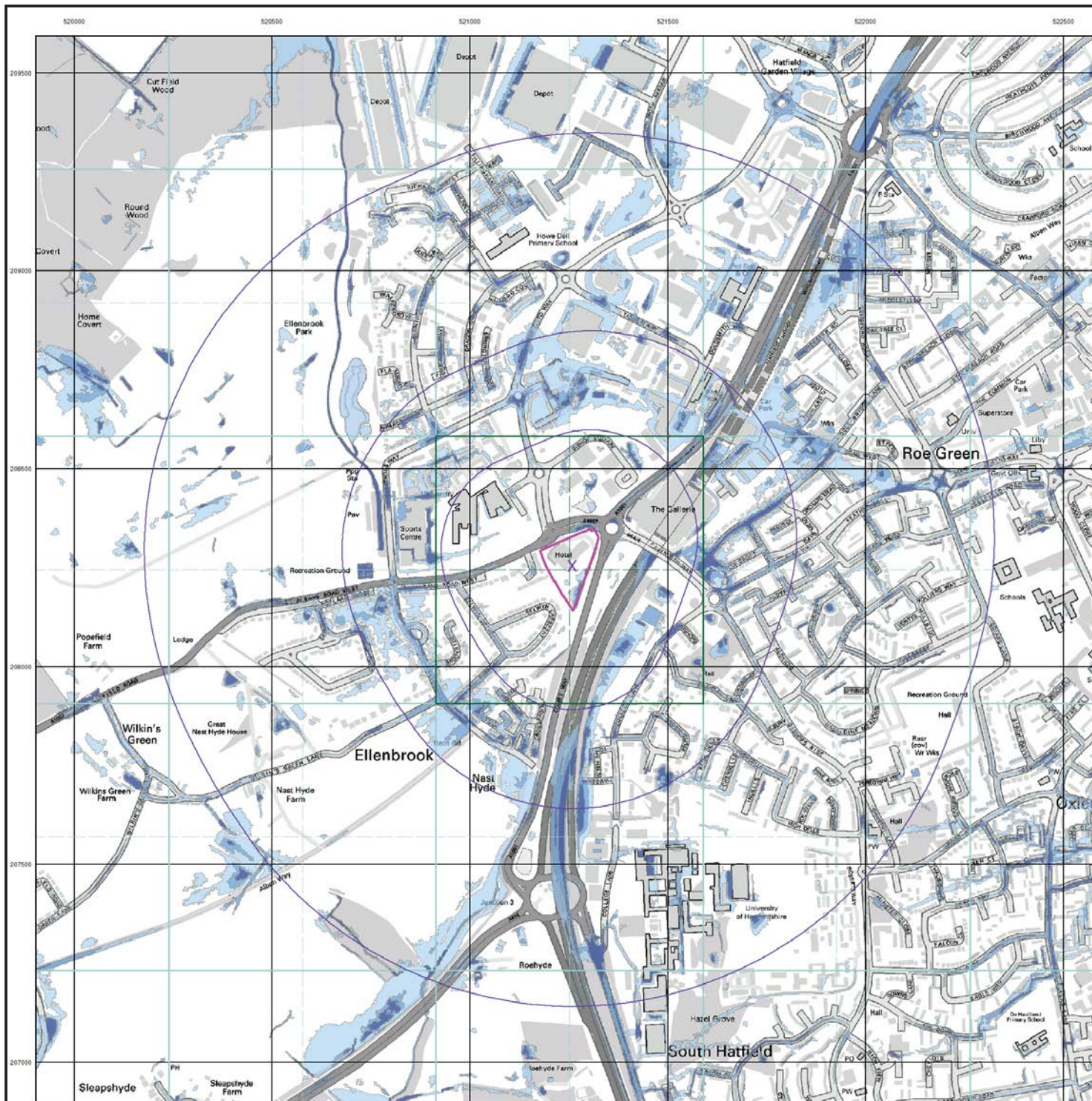


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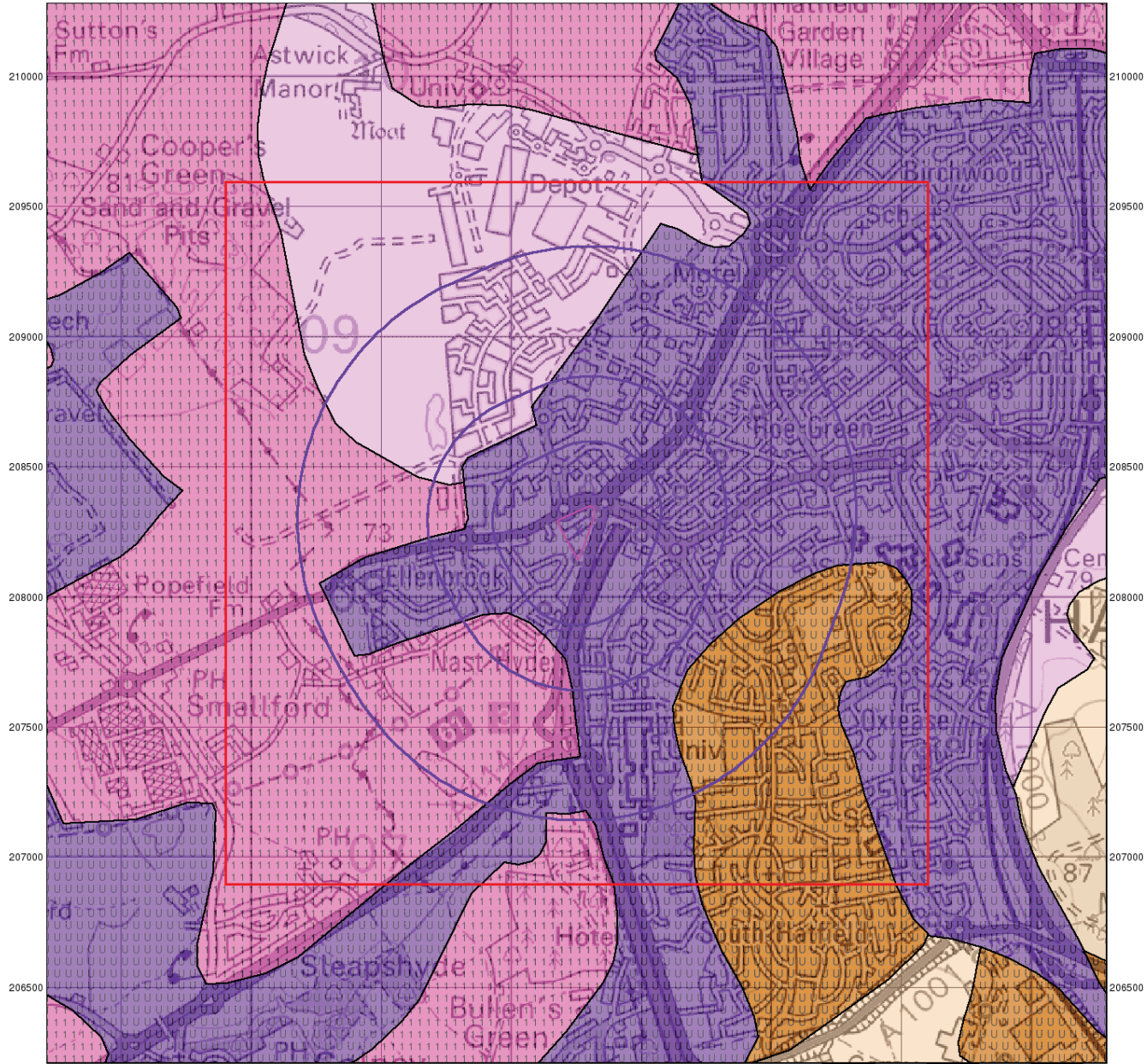
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519500 520000 520500 521000 521500 522000 522500 523000



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0 1 km



Groundwater Vulnerability

General

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

Agency and Hydrological

Geological 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)

- Non Aquifer (Negligibly Permeable)

Water or Sea

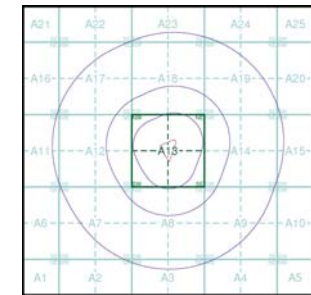
- Water or Sea

Drift Deposit

- Drift Deposit

Soil Classes

Site Sensitivity Context Map - Slice A



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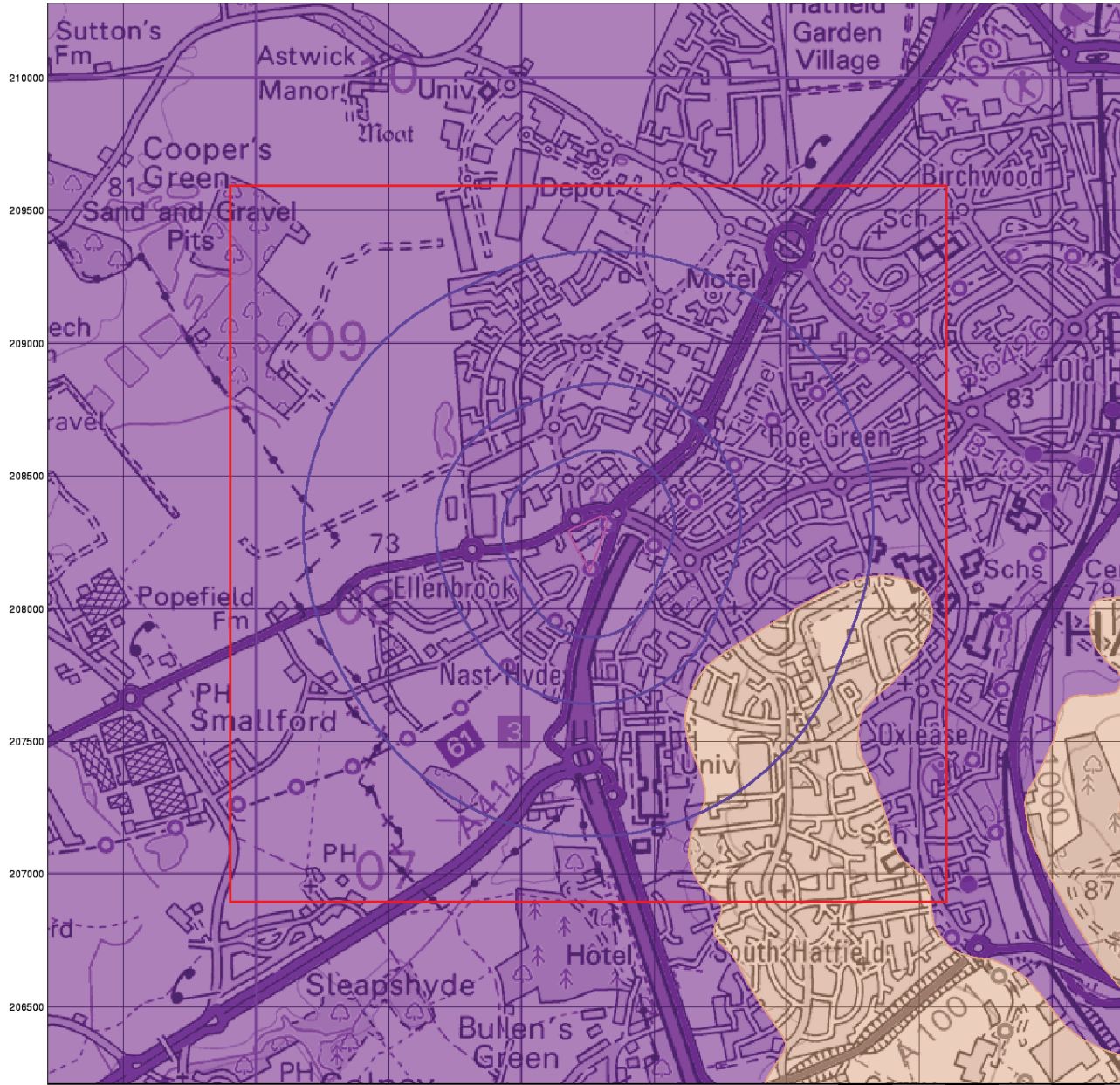
Site Details

Ramada Hotel, St. Albans Road West, HATFIELD, Hertfordshire, AL10 9RH



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Bedrock Aquifer Designation

General

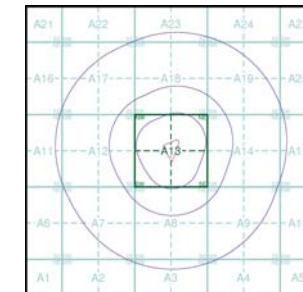
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



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