



**Great Ashby
Stevenage
Hertfordshire
SG4 7EA**

Desk Study &
Ground Investigation
Report

Picture Estates Ltd

March 2023

J22372
Rev 1





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Executive summary

This executive summary contains an overview of the key findings and conclusions. No reliance should be placed on any part of the executive summary until the whole of the report has been read. Other sections of the report may contain information that puts into context the findings that are summarised in the executive summary.

Brief

This report describes the findings of a site investigation carried out by Geotechnical and Environmental Associates Limited (GEA) on the instructions of Picture Estates Ltd, with respect to the redevelopment of the site through the construction of a new residential estate including houses, communal and private soft landscaping and new hardstanding and surface water drainage. The purpose of the investigation has been to research the history of the site with respect to possible contaminative uses, to determine the ground conditions, to provide an indication of the presence of contamination and to provide information to assist with the design of new foundations and hardstanding.

Site history

The earliest map studied, dated 1884, shows the site to have been undeveloped, comprising an area of open fields with a similar configuration to that of the existing fields, with Dell Spring shown in its existing position in the northwest of the site. The existing roads to the northeast and northwest are also shown on the map and New Spring is also labelled in the south of the site. Tile Kiln Farm and Dane End Farm are detailed in their existing positions, to the west and east of the site respectively. A chalk pit is labelled close to the centre of the site on the next map studied, dated 1899. Additional small chalk pits, gravel pits and brick fields were present in the surrounding area, with the closest located about 120 m to the west of the site. On the map dated 1924, the area of woodland near the chalk pit is shown to have increased in size and is labelled as Nine Acre Spring. The site and surrounding area remained essentially unchanged until some time between 1976 and 1979. On the map dated 1979 many of the existing buildings and much of the road network of Stevenage is shown extending to about 200 m from the southern boundary of the site. A new housing estate was constructed to the south of the site between 1999 and 2006 and the site and surrounding area have since remained essentially unchanged.

Ground conditions

The investigation has generally confirmed the expected ground conditions in that, beneath a nominal thickness of made ground, Superficial Deposits were encountered over the Lewes Nodular Chalk Formation and Seaford Chalk Formation. The made ground comprised dark brown silty sandy clay with gravel and rootlets, and extended to depths of between 0.10 m and 0.50 m. The superficial deposits generally comprised firm to stiff brown to orange-brown and reddish brown slightly sandy clay with variable fine to coarse subangular to subrounded chalk and flint gravel. The proportion of chalk gravel generally increased with depth. These deposits extend to depths of between 0.80 m and 7.00 m. The thickness of this stratum appears to be more consistently thick in the west of the site, with the thickness reducing to the east. However, there is also significant variation in the depth

of the base of this stratum within investigation points in close proximity to each other, for example, Borehole No 1 found the base of the superficial deposits to be at a depth of 7.00 m, and Trial Pit No 2, located about 10.00 m to the south of Borehole No 1, found the base of the superficial deposits to be at a depth of 2.06 m below ground level. Additionally, this type of variation does not appear to simply be dependent on relative ground level. In Trial Pit No 3 a layer of pale brown very clayey silty sand with fine to coarse subangular to subrounded gravel was encountered from 0.80 m to the full depth of the trial pit of 1.95 m.

The top of the Lewes Nodular Chalk Formation and Seaford Chalk Formation was encountered at depths of between 0.80 m and 7.00 m. The chalk was generally recovered as structureless off-white silty clay with occasional fragments of low density and occasionally medium density chalk with occasional reddish-brown staining. On the basis of the inspection of recovered samples, the chalk has been classified in accordance with CIRIA Report C574 (2002), Engineering in Chalk, with the chalk generally comprising structureless chalk composed of angular fine to coarse sand and gravel sized clasts of chalk in a comminuted chalk matrix. The gravel was of low and occasionally medium density. The chalk was initially assessed as Grade Dm in the boreholes, although the sampling will have resulted in disturbance of the material and the recovered samples will not be indicative of the in-situ condition. Across the site, a weaker upper weathered zone of the chalk was initially encountered and the condition of the chalk appears to improve with depth.

Groundwater was not encountered during drilling and the standpipes have been found to be dry during a single monitoring visit carried out to date.

Contamination testing has indicated the samples tested to be free from elevated concentrations of contaminants.

Recommendations

Moderate width strip or pad foundations bearing on the firm clay of the Superficial Deposits should be placed at a minimum depth of 1.5 m, allowing for restricted new planting in accordance with Table 4 of NBHC Standards Chapter 4.2 (2023). If trees are excluded within the zone of influence shown in Table 4 of the NHBC guidance, the minimum depth can be reduced to 1.00 m subject also to the further advice on new tree and shrub planting as detailed in the NHBC guidelines. The foundations may be designed to apply a net allowable bearing pressure of 100 kN/m².

A requirement for remedial measures is not envisaged.



Part 1: Investigation Report

This section of the report details the objectives of the investigation, the work that has been carried out to meet these objectives and the results of the investigation. Interpretation of the findings is presented in Part 2.

1.0 Introduction

Geotechnical and Environmental Associates Limited (GEA) has been commissioned by Picture Estates Limited to carry out a desk study and ground investigation at Great Ashby, Stevenage, Hertfordshire SG4 7EA.

1.1 Proposed Development

It is understood that it is proposed to develop the site through the construction of a number of low rise residential buildings along with new areas of hardstanding and both communal and private areas of soft landscaping.

This report is specific to the proposed development and the advice herein should be reviewed once the development proposals are finalised.

The exact layout and specification of the proposed development are not known.

1.2 Purpose of Work

The principal technical objectives of the work carried out were as follows:

- to check the history of the site with respect to previous contaminative uses;
- to provide an assessment of the risk of encountering UXO;
- to determine the ground conditions and their engineering properties;
- to use the above information to provide recommendations for the design of new foundations;
- to provide an indication of the degree of soil contamination present; and
- to assess the risk that any such contamination may pose to the proposed development, its users or the wider environment.

1.3 Scope of Work

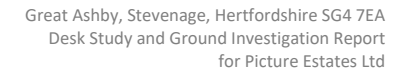
In order to meet the above objectives, a desk study was carried out, followed by a ground investigation. The desk study comprised:

- a review of historical Ordnance Survey (OS) maps and environmental searches sourced from the Envirocheck database;
- a review of readily available geology maps; and
- a walkover survey of the site carried out in conjunction with the fieldwork.

In the light of this desk study an intrusive ground investigation, carefully identified and specified by Wormald Burrows Partnership and later reviewed by Woods Hardwick Limited, was carried out which comprised, in summary, the following activities:

- three boreholes advanced to a depth of 15 m by a standard cable percussion rig;
- eight opendrive sampler boreholes advanced to depths of between 5.45 m and 6.45 m;
- nine machine excavated trial pits advanced to depths of between 1.80 m to 2.50 m;
- standard penetration tests (SPTs) carried out at regular intervals within the boreholes to provide quantitative data on the strength of the soils;
- the installation of three groundwater monitoring standpipes to 15.00 m, and two subsequent monitoring visits;
- testing of selected soil samples for contamination and geotechnical purposes; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

This report includes a contaminated land assessment which has been undertaken by a suitably qualified and competent professional in accordance with the methodology



The exploratory methods adopted in this investigation have been selected on the basis of the constraints of the site including but not limited to access and space limitations, together with any budgetary or timing constraints. Where it has not been possible to reasonably use an EC7 compliant investigation technique a practical alternative has been adopted to obtain indicative soil parameters and any interpretation is based upon engineering experience, local precedent where applicable and relevant published information.

The conclusions and recommendations made in this report are limited to those that can be made on the basis of the investigation. The results of the work should be viewed in the context of the range of data sources consulted, the number of locations where the ground was sampled and the number of soil, gas or ground water samples tested. No liability can be accepted for information in other data sources or conditions not revealed by the sampling or testing. Any comments made on the basis of information obtained from the client or third parties are given in good faith on the assumption that the information is accurate; no independent validation of such information has been made by GEA.

2.1 Site Description

1 <https://www.gov.uk/government/publications/land-contamination-risk-management-lcrm>
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northwest by 425 m northeast-southwest. At the time of the investigation it was completely undeveloped, comprising part of a farm with much of the land being given over to the growth of pasture over the winter, which comprised grasses and the remnants of former crops. Two areas of woodland are included within the site boundary, close to the centre of the site, which comprise mature deciduous trees of up to about 25 m in height. The site is largely roughly level although the east of the site slopes down to the south and east. Numerous public footpaths cross the site and overhead power lines also cross the site close to its centre, orientated approximately east-west.

2.2 Site History

The site history has been researched by reference to internet sources and historical Ordnance Survey (OS) maps obtained from the Envirocheck database.

The earliest map studied, dated 1884, shows the site to have been undeveloped, comprising an area of open fields with a similar configuration to that of the existing fields, with Dell Spring shown in its existing position in the northwest of the site. The existing roads to the northeast and northwest are also shown on the map and New Spring is also labelled in the south of the site. Tile Kiln Farm and Dane End Farm are detailed in their existing positions, to the west and east of the site respectively.

A chalk pit is labelled close to the centre of the site on the next map studied, dated 1899. Additional small chalk pits, gravel pits and brick fields were present in the surrounding area, with the closest located about 120 m to the west of the site. On the map dated 1924, the area of woodland near the chalk pit is shown to have increased in size and is labelled as Nine Acre Spring.

The site and surrounding area remained essentially unchanged until some time between 1976 and 1979. On the map dated 1979 many of the existing buildings and much of the road network of Stevenage is shown extending to about 200 m from the southern boundary of the site. A new housing estate was constructed to the south of the site between 1999 and 2006 and the site and surrounding area have since remained essentially unchanged.

2.3 Other Information

A search of public registers and databases has been made via the Envirocheck database and relevant extracts from the search are appended. Full results of the search can be provided if required.

The Envirocheck report does not record any landfill sites located within 1 km of the site and additionally, no waste management or waste transfer sites are located within 500 m of the site. A single area of potentially infilled land is listed within 250 m of the site, located 227 m northwest of the site. It is recorded as an area of unknown filled ground which was mapped in 1994.

No pollution incidents to controlled waters have been recorded within 1 km of the site.

Relatively small areas of the site are shown by the Environment Agency to be at low to high risk from flooding from surface water and the site is not considered to be at risk of flooding from rivers or the sea.

The site is located in close proximity to numerous areas of Ancient Woodland and lies within an area of adopted greenbelt. It also lies within a nitrate vulnerable zone for both groundwater and surface water.

Reference to records compiled by the Health Protection Agency (formerly the National Radiological Protection Board) indicates that the site falls within an area where less than 1% of homes are affected by radon emissions and therefore radon protective measures will not be necessary.

2.4 Geology

The British Geological Survey (BGS) map of the area indicates that the site is underlain by the Lewes Nodular Chalk Formation and Seaford Chalk Formation, which is overlain by superficial Head Deposits across the central and southeast of the site and the Lowestoft Formation in the southwest of the site, as well as along the north eastern site boundary.

A search of the BGS Geo Index Onshore archive has revealed the records of two boreholes carried out in the southeast of the site. The boreholes encountered superficial deposits, extending to depths of 0.91 m and 1.37 m, below which chalk was encountered and was found to extend to the full depth of the investigation of 9.14 m. The superficial deposits are described as “topsoil and subsoil with flintstone, sand and chalk content” and in one of the boreholes the chalk was described as “hard chalk” while in the other borehole it is described



as comprising three layers, an initial layer of “soft chalk”, extending to a depth of 3.05 m, below which “soft chalk with hard pieces” was described, extending to a depth of 5.79 m, which was underlain by “hard chalk”.

2.5 Hydrology and Hydrogeology

Envirocheck records the Head Deposits and Lowestoft Formation to be classified as a Secondary Aquifer (undifferentiated), which refers to 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 as defined by the Environment Agency (EA). The chalk is classified as a Principal Aquifer by the EA, which refers to layers of rock or drift deposits that have high intergranular and / or fracture permeability, which means that they usually provide a high level of water storage and may supply river base flow on a strategic scale. Principal Aquifers were formerly classified as Major Aquifers.

Groundwater observations are not recorded on the BGS archive borehole records referred to in section 2.4.

The nearest surface water feature to the site is a spring located in the northwest of the site. The closest off-site surface water feature appears to be a drainage ditch, part of which traces the eastern boundary of the site.

2.6 Preliminary Risk Assessment

Part IIA of the Environmental Protection Act 1990, which was inserted into that Act by Section 57 of the Environment Act 1995, provides the main regulatory regime for the identification and remediation of contaminated land. The determination of contaminated sites is based on a “suitable for use” approach which involves managing the risks posed by contaminated land by making risk-based decisions. This risk assessment is carried out on the basis of a source-pathway-receptor approach.

2.6.1 Source

The desk study findings indicate that the site does not have a potentially contaminative history as it has apparently remained undeveloped throughout its known history.

2.6.2 Receptor

The proposed redevelopment of the site for residential purposes will result in the end users representing relatively high sensitivity receptors. As the site is underlain by both Secondary and Principal Aquifer, adjacent sites and groundwater are considered to be a moderately

sensitive receptors. Buried services are likely to come into contact with any contaminants present within the soils through which they pass and site workers are potential receptors during construction or maintenance works.

2.6.3 Pathway

The variable nature of the superficial deposits and the high permeability of the Chalk would allow the migration of contaminated groundwater through the shallow soils to surrounding sites as well as the percolation of contaminated water into the principle aquifer at depth within the Chalk. Within the site, end users will be isolated from direct contact with any contaminants present within the made ground by the presence of the new buildings and areas of hardstanding. Therefore, only in areas of communal landscaping or private gardens, would end users come into direct contact with any contamination within the soil. Buried services may be exposed to any contaminants present within the soil through direct contact and site workers will come into contact with the soils during construction works. There is thus considered to be a low to moderate potential for a contaminant pathway to be present between any potential contaminant source and a target for the particular contaminant.

2.6.4 Preliminary Risk Appraisal

On the basis of the above it is considered that there is a VERY LOW risk of there being a significant contaminant linkage at this site which would result in a requirement for major remediation work.



3.0 Exploratory Work

In order to meet the objectives described in Section 1.2, three boreholes were advanced to a depth of 15.00 m using a standard cable percussion rig. Additionally, eight opendrive percussive sampler boreholes were advanced to depths of between 5.45 m and 6.45 m and nine machine dug trial pits were excavated to depths of between 1.80 m and 2.50 m to provide further coverage of the site.

Three groundwater monitoring standpipes have been installed to a depth of 15.00 m to facilitate groundwater monitoring, which has been carried out on a single occasion to date, approximately four weeks after installation.

During boring, disturbed and undisturbed samples were obtained from the boreholes for subsequent laboratory examination and testing. Standard Penetration Tests (SPTs) were carried out at regular intervals to provide additional quantitative data on the strength of soils encountered. A selection of the samples recovered from the boreholes was submitted to a soil mechanics laboratory for a programme of geotechnical testing and an analytical laboratory for a programme of contamination testing.

Soakage testing was carried out within each of the trial pits in general accordance with BRE 365 to provide information to inform the design of new soakaway drainage. It should be noted that where it was not possible to include a test during a single day, the soakage rate was considered to be low such that the use of shallow soakaways would not be feasible in that part of the site. No further testing was carried out in this case.

A total of 16 in-situ California Bearing Ratio (CBR) tests was carried out across the site, each at a depth of 0.40 m.

All of the above work was carried out under the supervision of a geotechnical engineer from GEA. The borehole and trial pit records are appended, together with a site plan indicating the exploratory positions.

3.1 Sampling Strategy

The scope and the trial pit and borehole locations were carefully identified and redacted by civil engineers at Wormald Burrows Partnership Ltd and were later reviewed by Woods Hardwick Ltd. The scope was reviewed by GEA and was assessed to be appropriate for purpose. The boreholes and trial pits were positioned as close to the specified positions as possible.

Twelve samples of the made ground have been tested for the presence of contamination. The analytical suite of testing was selected to identify hydrocarbon contamination resulting from the former use of the site and a range of typical industrial contaminants for the purposes of general coverage. The analytical suite for the soil included a range of metals, total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), total cyanide and monohydric phenols. The analyses were carried out at an MCERTs accredited laboratory with the majority of the testing suite accredited to MCERTs standards. A summary of the MCERTs accreditation and test methods are included with the attached results and further details are available upon request.



4.0 Ground Conditions

The investigation has generally confirmed the expected ground conditions in that, beneath a nominal thickness of made ground, Superficial Deposits were encountered, over the Lewes Nodular Chalk Formation and Seaford Chalk Formation.

4.1 Made Ground

The made ground comprised dark brown silty sandy clay with gravel and rootlets, and extended to depths of between 0.10 m and 0.50 m.

Apart from the presence of fragments of extraneous material noted above, no visual or olfactory evidence of contamination was observed during the fieldwork. Twelve samples of the made ground have however been analysed for a range of contaminants as a precautionary measure and the results are detailed within Section 4.5.

4.2 Superficial Deposits

The superficial deposits generally comprised firm to stiff brown to orange-brown and reddish brown slightly sandy clay with variable fine to coarse subangular to subrounded chalk and flint gravel. The proportion of chalk gravel generally increase with depth. These deposits extend to depths of between 0.80 m and 7.00 m. It should be noted that the thickness of this stratum appears to be more consistently thick in the west of the site, with the thickness reducing to the east. However, there is also significant variation in the depth of the base of this stratum within investigation points in close proximity to each other, for example, Borehole No 1 found the base of the superficial deposits to be at a depth of 7.00 m, and Trial Pit No 2, located about 10.00 m to the south of Borehole No 1, found the base of the superficial deposits to be at a depth of 2.06 m below ground level. Additionally, this type of variation does not appear to simply be dependent on relative ground level.

In Trial Pit No 3 a layer of pale brown very clayey silty sand with fine to coarse subangular to subrounded gravel was encountered from 0.80 m to the full depth of the trial pit of 1.95 m.

The results of the results of plasticity index tests indicate the clay to be of low to high volume change potential.

4.3 Lewes Nodular Chalk Formation and Seaford Chalk Formation

The top of the Lewes Nodular Chalk Formation and Seaford Chalk Formation was encountered at depths of between 0.80 m and 7.00 m. The chalk was generally recovered as structureless off-white silty clay with occasional fragments of low density and occasionally medium density chalk with occasional reddish-brown staining.

On the basis of the inspection of recovered samples, the chalk has been classified in accordance with CIRIA Report C574 (2002), Engineering in Chalk, with the chalk generally comprising structureless chalk composed of angular fine to coarse sand and gravel sized clasts of chalk in a comminuted chalk matrix. The gravel was of low and occasionally medium density. The chalk was initially assessed as Grade Dm in the boreholes, although the sampling will have resulted in disturbance of the material and the recovered samples will not be indicative of the in-situ condition.

Across the site, a weaker upper weathered zone of the chalk was initially encountered and the condition of the chalk appears to improve with depth.

4.4 Groundwater

Groundwater was not encountered during drilling and the standpipes have been found to be dry during a single monitoring visit carried out to date.

4.5 Soil Contamination

The table below sets out the values measured within the 12 samples analysed; all concentrations are in mg/kg unless otherwise stated.

Determinant	Maximum Concentration	Minimum Concentration	Screening Value	No of Samples Elevated above Screening Value
pH	7.9	7.1	NA	NA
Arsenic	27	11	37	None
Cadmium	0.5	<0.2	26	None
Chromium	40	18	910	None
Lead	38	13	200	None
Mercury	<0.3	<0.3	40	None



Determinant	Maximum Concentration	Minimum Concentration	Screening Value	No of Samples Elevated above Screening Value
Selenium	<1.0	<1.0	350	None
Copper	43	7.5	2400	None
Nickel	37	13	180	None
Zinc	78	40	3700	None
Total Cyanide	<1.0	<1.0	140	None
Total Phenols	<1.0	<1.0	184	None
Total PAH	9.18	<0.80	62.1	None
Sulphide	3.5	<1.0	50	None
Benzo(a)pyrene	0.57	<0.05	4.35	None
Naphthalene	0.07	<0.05	2.30	None
TPH	21	<10	500	None
Total Organic Carbon %	0.3	4.2	6	None

Note: The use of the normalised upper bound for 95th percentile confidence aims to remove some of the uncertainty associated with

All of the samples were screened for the presence of asbestos and none was detected.

4.5.1 Generic Quantitative Risk Assessment

The use of a risk-based approach has been adopted to provide an initial screening of the test results to assess the need for subsequent site-specific risk assessments. Contaminants of concern are those that have values in excess of generic human health risk-based guideline values, which are either the CLEA² Soil Guideline Values where available, the Suitable 4 Use Values³ (S4UL) produced by LQM/CIEH calculated using the CLEA UK Version 1.07⁴ software, or the DEFRA Category 4 Screening values⁵, assuming a residential end use with plant uptake. The key generic assumptions for this end use are as follows:

- that groundwater will not be a critical risk receptor;

- that the critical receptor for human health will be young female children aged less than six years old;
- that the exposure duration will be six years;
- that the critical exposure pathways will be indoor and outdoor dust ingestion, ingestion of soil adhering to homegrown produce, skin contact with indoor dust, and inhalation of indoor and outdoor dust and vapours; and
- that the building type equates to a two-storey small terraced house.

It is considered that these assumptions are acceptable for this generic assessment of this site. The tables of generic screening values derived by GEA and an explanation of how each value has been derived are included in the Appendix.

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of these generic screening values there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include;

- additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;
- site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or
- soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.

The results of the chemical analyses have indicated the samples tested to be free from elevated concentrations of contaminants. The significance of these results is considered further in Part 2 of the report.

² Updated Technical Background to the CLEA Model (Science Report SC050021/SR3) Jan 2009 and Soil Guideline Value reports for specific contaminants; all DEFRA and Environment Agency.

³ The LQM/CIEH S4ULs for Human Health Risk Assessment S4UL3065 November 2014

⁴ Contaminated Land Exposure Assessment (CL|EA) Software Version 1.071 Environment Agency 2015

⁵ CL:AIRE (2013) *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination* Final Project Report SP1010 and DEFRA (2014) *Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination* Policy Companion Document SP1010



Part 2: Design Basis Report

This section of the report provides an interpretation of the findings detailed in Part 1, in the form of a ground model, and then provides advice and recommendations with respect to the proposed development.

5.0 Introduction

It is understood that it is proposed to construct a new low-rise residential development which will include residential units, communal soft landscaping and private gardens as well as new hardstanding.

The details of the development and the loading are not known but the loads are anticipated to be light to moderate.

6.0 Ground Model

The desk study has revealed that the site has not had a potentially contaminative historical use as it has been undeveloped for its entire developed history, and on the basis of the fieldwork, the ground conditions at this site can be characterised as follows:

- below a nominal thickness of made ground, Superficial Deposits are present, below which the Lewes Nodular Chalk Formation and Seaford Chalk Formation which extends to the maximum depth of the investigation, of 15.00 m;
- the made ground comprises dark brown silty sandy clay with gravel and rootlets and extends to depths of between 0.10 m and 0.50 m;
- the Superficial Deposits generally comprise firm to stiff brown to orange-brown and reddish brown slightly sandy clay with variable fine to coarse subangular to subrounded chalk and flint gravel and extends to a depth of between 0.80 m and 7.00 m;
- the Superficial Deposits are generally consistently thicker in the north and west of the site but the depth to the chalk varies significantly in parts of the site;
- the Lewes Nodular Chalk and Seaford Chalk Formations were recovered as structureless off-white silty clay with occasional fragments of low density to medium density chalk gravel (Grade Dm);

- the condition of the chalk appears to improve with depth;
- groundwater is not present at shallow depths beneath the site; and
- contamination testing has revealed the made ground to be free from elevated concentrations of contaminants.



7.0 Advice & Recommendations

In view of the anticipated light to moderate load, the use of shallow spread foundations should be feasible.

7.1 Spread Foundations

Moderate width strip or pad foundations bearing on the firm clay of the Superficial Deposits should be placed at a minimum depth of 1.50 m, allowing for restricted new planting in accordance with Table 4 of NBHC Standards Chapter 4.2 (2023). If trees are excluded within the zone of influence shown in Table 4 of the NHBC guidance, the minimum depth can be reduced to 1.00 m subject also to the further advice on new tree and shrub planting as detailed in the NHBC guidelines. The foundations may be designed to apply a net allowable bearing pressure of 100 kN/m². This value incorporates an adequate factor of safety against bearing capacity failure and should ensure that settlement remains within normal tolerable limits. The recommended bearing pressure takes account of the variable nature of the soils and any foundations should be nominally reinforced where they span clay and granular material to protect against differential settlement.

Foundations will need to be deepened in the vicinity of existing and proposed trees and National House Building Council (NHBC) guidelines should be followed in this respect. High shrinkability clays should be assumed. Where trees are to be removed the required founding depth should be determined on the basis of the existing tree height if it is less than 50% of the mature height and on the basis of full mature height if the current height is more than 50% of the mature height. Where a tree is to be retained the final mature height should be adopted. Notwithstanding NHBC guidelines, all foundations should extend beyond the zone of desiccation. In this respect it would be prudent to have all foundation excavations inspected by a suitably experienced engineer. Due allowance should be made for future growth of the trees.

The requirement for compressible material alongside foundations should be determined by reference to the NHBC guidelines. If trees are to be planted in close proximity to the new buildings founding depths should be deepened in accordance with NHBC guidelines and using the mature height of the tree. High shrinkability clay should be assumed.

7.2 Piled Foundations

For the ground conditions at this site some form of bored pile could be considered. In view of the limited thickness of made ground and underlying clay soils, conventional rotary bored piles could be adopted with relatively short lengths of casing or consideration could be given to the use of bored piles installed using continuous flight auger (cfa) techniques, which would negate the requirement for temporary casing.

The following table of ultimate coefficients may be used for the preliminary design of bored piles, based on the SPT and cohesion / level graph in the appendix.

Stratum	Depths m [level m OD]	kN / m ²
Ultimate Skin Friction		
Made Ground	GL to 0.50	Ignore
Superficial Deposits (clay)	0.50 to 5.00	Increasing linearly from 10 to 32
Chalk	5.00 to 15.00	Increasing linearly from 40 to 120
Ultimate End Bearing		
Chalk	10.00 to 15.00	Increasing linearly from 6,000 to 10,000

A factor of safety of 3.0 should be applied to the above coefficients in the computation of safe theoretical working loads. On the basis of the above coefficients, the following pile capacity has been estimated.

Pile diameter (mm)	Toe Depth (m)	Effective Pile length (m)	Safe Working Load (kN)
450	10.00	9.50	600

The above example is not intended to constitute any form of recommendation with regard to pile size or type, but merely serve to illustrate the use of the above coefficients.

Specialist piling contractors should be consulted with regard to the design of a suitable piling scheme and their attention should be drawn to potential groundwater inflows and instability where granular layers are encountered and the presence of occasional cobbles



within the Superficial Deposits and Chalk. As with any situation where bored piles are constructed in chalk, consideration will need to be given to the possibility of variations in the level and quality of the chalk and the possibility of undetected significant variations between borehole positions.

7.3 Shallow Excavations

On the basis of the borehole findings it is considered that it will be generally feasible to form relatively shallow excavations terminating within the Superficial Deposits or the Chalk without the requirement for lateral support, although localised instabilities may occur where more granular material or groundwater is encountered.

Significant inflows of groundwater into shallow excavations are not generally anticipated, although seepages may be encountered from perched water tables within the made ground, although such inflows should be suitably controlled by sump pumping.

If deeper excavations are considered or if excavations are to remain open for prolonged periods it is recommended that provision be made for battered side slopes or lateral support. Where personnel are required to enter excavations, a risk assessment should be carried out and temporary lateral support or battering of the excavation sides considered in order to comply with normal safety requirements.

7.4 Ground Floor Slab

Where buildings are proposed within the zone of influence of existing trees to be retained or removed, due to the presence of cohesive soil at formation level with potentially high volume change potential, it is recommended that the floor slabs for the new buildings are constructed over a suitable void, void former or layer of compressible material. Outside of the zone of influence of trees, it should be possible to adopt a lightly loaded ground bearing floor slab.

7.5 Effect of Sulphates

Chemical analyses have revealed relatively low concentrations of soluble sulphate and near-neutral pH in accordance with Class DS-1 conditions of Table C2 of BRE Special Digest 1:SD Third Edition (2005). The measured pH values of the samples show that an ACEC class of AC-1 would be appropriate for the site. This assumes a mobile water condition at the site. The guidelines contained in the digest should be followed in the design of foundation concrete.

7.6 Soakaway Design

The results of the BRE365 soakage testing have indicated that the use of shallow soakaways within the Superficial Deposits or the upper chalk will not be generally feasible due to low soakage rates, which are detailed in the table below.

Trial Pit No	Test No	Soakage Rate (m/s)
1	1	1.1x10 ⁻⁶
2	1	3.9x10 ⁻⁷
3	1	1.7x10 ⁻⁶
4	1	4.9x10 ⁻⁵
	2	2.3x10 ⁻⁵
	3	3.1x10 ⁻⁵
5	1	1.5x10 ⁻⁶
6	1	1.1x10 ⁻⁶
7	1	5.1x10 ⁻⁶
8	1	-2.2x10 ⁻⁶
9	1	0.0

Borehole soakaway tests were carried out in each of the cable percussion boreholes at a depth of 15.00 m and the results have indicated that the use of deep soakaways should be



feasible, but should be constructed no closer than 10 m from any buildings, road or structure foundations in accordance with CIRIA C574⁶.

The full results given in the appendix should be used for design, which should follow BRE365.

The use of soakaways will need to be agreed with the Environment Agency.

7.7 Design of New Hardstanding

The results of the 16 in-situ CBR tests carried out at a depth of 0.40 have indicated that a CBR value of around 3.5% should apply with respect to new areas of hardstanding constructed within the Superficial Deposits. It should be noted that if new hardstanding is proposed within the existing made ground, a maximum CBR value of 2% would be suitable.

7.8 Contamination Risk Assessment

The desk study findings indicate that the site does not have a potentially contaminative history as it has apparently remained undeveloped throughout its known history and as a result, no sources of contamination are considered to be present within the boundaries of the site. The results of the chemical analyses have indicated the samples tested to be free from elevated concentrations of contaminants. As a result, a requirement for remedial measures is not generally envisaged. However, in view of the relatively few samples tested over an area of this size, a watching brief should be maintained throughout the groundworks and if potentially contaminated soil is encountered, work should stop and the contamination should be assessed by a suitably qualified engineer.

7.9 Waste Disposal

Under the European Waste Directive, waste is classified as being either Hazardous or Non-Hazardous and landfills receiving waste are classified as accepting hazardous or non-hazardous wastes or the non-hazardous sub-category of inert waste in accordance with the Waste Directive. Waste classification is a staged process and this investigation represents the preliminary sampling exercise of that process. Once the extent and location of the waste that is to be removed has been defined, further sampling and testing may be necessary. The results from this ground investigation should be used to help define the

sampling plan for such further testing, which could include WAC leaching tests where the totals analysis indicates the soil to be a hazardous waste or inert waste from a contaminated site. It should however be noted that the Environment Agency guidance WM3⁷ states that landfill WAC analysis, specifically leaching test results, must not be used for waste classification purposes.

Any spoil arising from excavations or landscaping works, which is not to be re-used in accordance with the CL:AIRE⁸ guidance, will need to be disposed of to a licensed tip. Waste going to landfill is subject to landfill tax at either the standard rate of £98.60 per tonne (about £185 per m³) or at the lower rate of £3.15 per tonne (roughly £5.85 per m³). However, the classifications for tax purposes and disposal purposes differ and currently all made ground and topsoil is taxable at the 'standard' rate and only naturally occurring soil and stones, which are accurately described as such in terms of the 2011 Order, would qualify for the 'lower rate' of landfill tax.

Based on the technical guidance provided by the EA it is considered likely that the soils encountered during this ground investigation, as represented by the chemical analyses carried out, would be generally classified as follows.

Soil Type	Waste Classification (Waste Code)	WAC Testing Required Prior to Landfill Disposal?	Current applicable rate of Landfill Tax
Made ground	Non-hazardous (17 05 04)	No	£98.60/tonne (Standard rate)
Natural Soil	Inert non-hazardous (17 05 04)	Should not be required but confirm with receiving landfill	£3.15 / tonne (Reduced rate for uncontaminated naturally occurring rocks and soils)

Under the requirements of the European Waste Directive all waste needs to be pre-treated prior to disposal. The pre-treatment process must be physical, thermal, chemical or biological, including sorting. It must change the characteristics of the waste in order to reduce its volume, hazardous nature, facilitate handling or enhance recovery. The waste producer can carry out the treatment but they will need to provide documentation to prove that this has been carried out. Alternatively, the treatment can be carried out by an approved contractor. The Environment Agency has issued a position paper⁹ which states that in certain circumstances, segregation at source may be considered as pre-treatment and thus excavated material may not have to be treated prior to landfilling if the soils can

⁶ CIRIA C574 *Engineering in Chalk*, 2002.

⁷ Environment Agency 2015. *Guidance on the classification and assessment of waste*. Technical Guidance WM3 First Edition

⁸ CL:AIRE March 2011. *The Definition of Waste: Development Industry Code of Practice Version 2*

⁹ Environment Agency 23 Oct 2007 *Regulatory Position Statement Treating non-hazardous waste for landfill - Enforcing the new requirement*



be segregated onsite prior to excavation by sufficiently characterising the soils insitu prior to excavation.

The above opinion with regard to the classification of the excavated soils is provided for guidance only and should be confirmed by the receiving landfill once the soils to be discarded have been identified. The local waste regulation department of the Environment Agency (EA) should be contacted to obtain details of tips that are licensed to accept the soil represented by the test results. The tips will be able to provide costs for disposing of this material but may require further testing.

8.0 Outstanding Risks & Issues

This section of the report aims to highlight areas where further work is required as a result of limitations on the scope of this investigation, or where issues have been identified by this investigation that warrant further consideration. The scope of risks and issues discussed in this section is by no means exhaustive, but covers the main areas where additional work may be required.

The ground is a heterogeneous natural material and variations will inevitably arise between the locations at which it is investigated. This report provides an assessment of the ground conditions based on the discrete points at which the ground was sampled, but the ground conditions should be subject to review as the work proceeds to ensure that any variations from the Ground Model are properly assessed by a suitably qualified person.

If during ground works any visual or olfactory evidence of contamination is identified it is recommended that further investigation be carried out and that the risk assessment is reviewed.

These areas of doubt should be drawn to the attention of prospective contractors and further investigation will be required or sufficient contingency should be provided to cover the outstanding risk.



Appendix

a. Field Work

Site Plan
Borehole Records
Trial Pit Records
CBR Test Results
Trial Pit Soakage Test Results
Borehole Soakage Test Results

b. Lab Testing

Geotechnical Test Results
SPT & Cohesion/Depth Graph
Chemical Test Results
Generic Risk Based Screening Values

c. Desk Study

Risk Assessment Tables
Envirocheck Extracts
Historical Maps



appendix a

Field Work

Site Plan
Borehole Records
Trial Pit Records
CBR Test Results
Trial Pit Soakage Test Results
Borehole Soakage Test Results

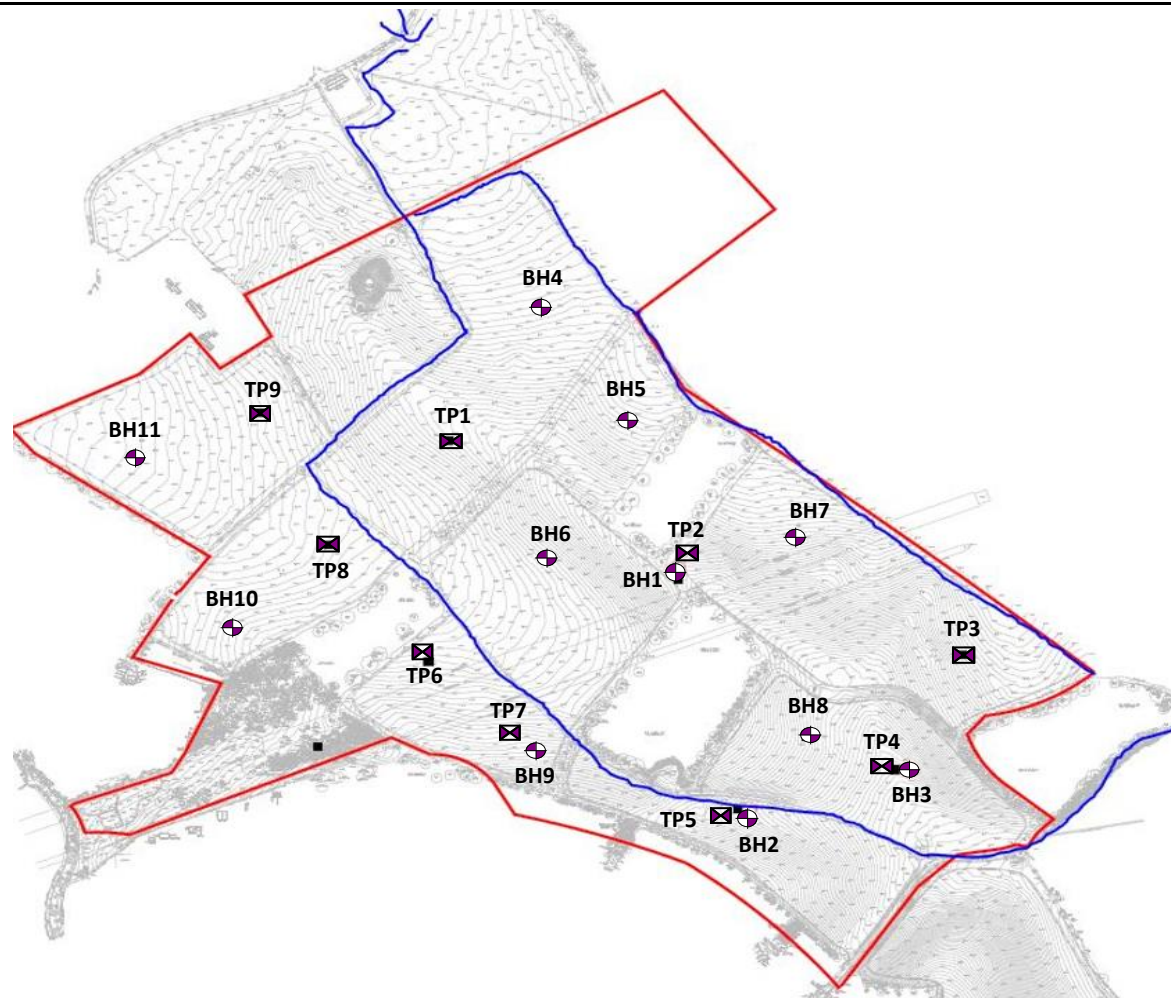
Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Agent

Job Number
J22372

Sheet
1 / 1



Approximate scale in metres
0 100 200 300



 Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE						Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH1	
Boring Method Cable Percussion		Casing Diameter 200 mm to 8.00 m 150 mm to 14.00 m		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 08/12/2022- 09/12/2022		Engineer		Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D1					(0.30) 0.30	TOPSOIL (dark brown silty sandy clay with gravel and rootlets)		
0.50	D2						Firm brown silty sandy CLAY		
1.00	D3					(1.70)			
1.20-1.65	D4								
1.75	D5					2.00			
2.00-2.45 2.00-2.45	SPT N60=23 D6	2.00	DRY	2,3/5,6,6,8			Stiff brown silty sandy CLAY with occasional fine to coarse subangular to subrounded gravel		
2.75	D7								
3.00-3.45	D8								
3.75	D9					(4.00)			
4.00-4.45 4.00-4.45	SPT N60=36 D10	4.00	DRY	5,7/9,8,10,12					
4.75	D11								
5.00-5.45 5.00-5.45	SPT N60=39 D12	5.00	DRY	4,6/8,10,11,13					
6.00	D13					6.00	Stiff greyish-brown CLAY with fine to coarse subangular to subrounded flint and chalk gravel		
6.50-6.95 6.50-6.95	SPT N60=26 D14	6.00	DRY	3,4/6,6,8,8		(1.00)			
7.50	D15					7.00	CHALK recovered as stiff silty clay with fine to coarse flint and chalk gravel and occasional flint cobbles		
8.00-8.45 8.00-8.45	SPT N60=21 D16	8.00	DRY	4,5/5,6,6,6					
9.00	D17								
9.50-9.95 9.50-9.95	SPT N60=23 D18	9.50	DRY	5,6/6,7,6,6					
Remarks Groundwater not encountered Soakaway test carried out at 15.00 m. Standpipe installed to a depth of 15.00 m.								Scale (approx) 1:50	Logged By Prelim
								Figure No. J22372.BH2	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE							Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH1
Boring Method Cable Percussion		Casing Diameter 200 mm to 8.00 m 150 mm to 14.00 m		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 08/12/2022- 09/12/2022		Engineer		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D19								
11.00-11.45 11.00-11.45	SPT N60=27 D20	11.00	DRY	4,6/6,8,8,7		(8.00)			
12.00	D21								
12.50-12.95 12.50-12.95	SPT N60=30 D22	12.00	DRY	5,7/8,8,9,8					
13.50	D23								
14.00-14.45 14.00-14.45	SPT N60=45 D24	14.00	DRY	6,8/9,11,13,16					
14.50	D25								
15.00-15.30 15.00-15.45	SPT 75/150 D26	14.00	DRY	8,10/25,50		15.00	Complete at 15.30m		
Remarks								Scale (approx) 1:50	Logged By Prelim
								Figure No. J22372.BH2	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE							Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH2
Boring Method Cable Percussion		Casing Diameter 200 mm to 9.50 m 150 mm to 10.00 m		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 12/12/2022- 13/12/2022		Engineer		Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D1					(0.50)	TOPSOIL (dark brown silty sandy clay with gravel and rootlets)		
0.50	B2					0.50	Firm silty sandy CLAY with fine to coarse subangular to subrounded flint and chalk gravel		
1.00	D3								
1.20-1.65 1.20-1.65	SPT(C) N60=7 D4	1.00	DRY	1,2/2,2,2,2		(2.00)			
1.75	D5								
2.00-2.45 2.00-2.45	SPT(C) N60=8 D6	2.00	DRY	2,2/2,3,2,2			CHALK recovered as soft to firm off-white silty clay with occasional fine to coarse flint gravel and occasional cobbles		
2.75	D7					2.50			
3.00-3.45 3.00-3.45	SPT N60=9 D8	3.00	DRY	2,3/2,3,2,3					
3.75	D9								
4.00-4.45 4.00-4.45	SPT N60=13 D10	4.00	DRY	3,3/3,4,3,4					
4.75	D11								
5.00-5.45 5.00-5.45	SPT N60=14 D12	5.00	DRY	2,3/3,4,4,4					
6.00	D13					(7.50)			
6.50-6.95 6.50-6.95	SPT N60=11 D14	6.00	DRY	2,3/3,3,3,3					
7.50	D15								
8.00-8.45 8.00-8.45	SPT N60=18 D16	8.00	DRY	3,4/4,5,5,6					
9.00	D17								
9.50-9.95 9.50-9.95	SPT N60=30 D18	9.50	DRY	4,6/6,8,8,11					
Remarks Groundwater not encountered Soakaway test carried out at 2.50 m and 15.00 m. Standpipe installed to a depth of 15.00 m.							Scale (approx) 1:50		Logged By Preim
							Figure No. J22372.BH2		

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE						Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH2		
Boring Method Cable Percussion		Casing Diameter 200 mm to 9.50 m 150 mm to 10.00 m			Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location			Dates 12/12/2022- 13/12/2022		Engineer		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
10.50	D19	10.00	DRY	5,7/9,11,13,16		10.00	CHALK recovered as stiff silty clay with fine to coarse flint and chalk gravel and occasional flint cobbles			
11.00-11.45 11.00-11.45	SPT N60=45 D20									
12.00	D21	10.00	DRY	6,8/10,11,14,18	(5.00)					
12.50-12.95 12.50-12.95	SPT N60=49 D22									
13.50	D23	10.00	DRY	9,11/14,19,21,25						
14.00-14.45 14.00-14.45	SPT N60=72 D24									
15.00-15.15 15.00-15.45	SPT 23*/75 50/75 D25	10.00	DRY	23/50		15.00	Complete at 15.15m			
Remarks								Scale (approx) 1:50	Logged By Preim	
								Figure No. J22372.BH2		

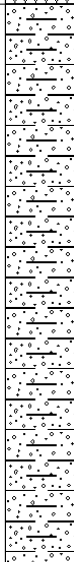
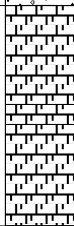
 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE							Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH3
Boring Method Cable Percussion		Casing Diameter 150 mm to 10.00 m		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 13/12/2022-14/12/2022		Engineer		Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.30	D1					(0.50)	TOPSOIL (dark brown silty sandy clay with gravel and rootlets)		
1.00	D2					0.50	Firm silty sandy CLAY with fine to coarse subangular to subrounded flint and chalk gravel		
1.20-1.65	SPT(C) N60=10 D3	1.00	DRY	2,2/3,2,3,3		(1.80)			
1.75	D4								
2.00-2.45	SPT(C) N60=13 D5	2.00	DRY	2,3/3,4,4,3		2.30			
2.75	D6						CHALK recovered as soft to firm off-white silty clay with occasional fine to coarse flint gravel and occasional cobbles		
3.00-3.45	SPT N60=8 D7	3.00	DRY	2,2/2,2,2,3					
3.75	D8								
4.00-4.45	SPT N60=14 D9	4.00	DRY	2,3/3,4,4,4					
4.75	D10								
5.00-5.45	SPT N60=11 D11	5.00	DRY	2,3/3,3,3,3		(5.70)			
6.00	D12								
6.50-6.95	SPT N60=14 D13	6.00	DRY	3,3/4,4,3,4					
7.50	D14								
8.00-8.45	SPT N60=31 D15	8.00	DRY	4,4/6,8,8,12		8.00	CHALK recovered as stiff silty clay with fine to coarse flint and chalk gravel and occasional flint cobbles		
9.00	D16								
9.50-9.95	SPT N60=41 D17	9.50	DRY	5,6/8,10,12,15					
Remarks Groundwater not encountered Soakaway test carried out at 3.00 m and 15.00 m. Standpipe installed to a depth of 15.00 m.							Scale (approx) 1:50	Logged By Prelim	
							Figure No. J22372.BH2		

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE							Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Borehole Number BH3
Boring Method Cable Percussion		Casing Diameter 150 mm to 10.00 m		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 13/12/2022-14/12/2022		Engineer		Sheet 2/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D18								
11.00-11.45 11.00-11.45	SPT N60=49 D19	10.00	DRY	6,7/10,12,14,17		(7.00)			
12.00	D20								
12.50-12.95 12.50-12.95	SPT N60=42 D21	10.00	DRY	5,7/9,12,11,14					
13.50	D22								
14.00-14.15 14.00-14.45	SPT 25*/75 50/75 D23	10.00	DRY	25/50					
15.00-15.15 15.00-15.45	SPT 25*/75 50/75 D24	10.00	DRY	25/50		15.00	Complete at 15.15m		
Remarks								Scale (approx) 1:50	Logged By Prelim
								Figure No. J22372.BH2	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE						Site Great Ashby, Stevenage, Hertfordshire SG4 7EA	Number BH4	
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited	Job Number J22372	
		Location		Dates 20/12/2022		Engineer	Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D1				(0.25) 0.25	TOPSOIL (brown silty sandy clay with gravel and rootlets)		
					(0.75) 1.00	Firm becoming stiff brown slightly silty sandy CLAY with occasional fine to coarse subangular to subrounded flint gravel		
						Stiff orange-brown and reddish brown slightly sandy CLAY with fine to coarse subangular to subrounded flint gravel		
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE					Site Great Ashby, Stevenage, Hertfordshire SG4 7EA			Number BH5	
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 20/12/2022		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.10	D1				(0.40) 0.40	TOPSOIL (brown silty sandy clay with gravel and rootlets)			
					(0.80) 1.20	Firm becoming stiff orange-brown sandy CLAY with fine to coarse subangular to subrounded chalk and flint gravel			
					(1.80) 3.00	Stiff orange-brown and reddish brown slightly sandy CLAY with fine to coarse subangular to subrounded chalk and flint gravel			
2.00	D2				(0.70) 3.70 (0.20) 3.90	Pale brown silty sandy CLAY with fine to medium chalk gravel			
					(2.55) 6.45	Stiff orange-brown and reddish brown slightly sandy CLAY with fine to coarse subangular to subrounded chalk and flint gravel			
4.00	D3					CHALK (Grade Dm) recovered as structureless off-white occasionally mottled reddish-brown silty clay			
						Complete at 6.45m			
Remarks Groundwater not encountered.								Scale (approx) 1:50	Logged By AT
								Figure No. J22372.BH5	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE						Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Number BH7
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372
		Location		Dates 20/12/2022		Engineer		Sheet 1/1
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D1				(0.30) 0.30	TOPSOIL (brown silty sandy clay with gravel and rootlets)		
						Firm becoming stiff orange-brown and reddish-brown sandy CLAY with fine to coarse subangular to subrounded flint gravel		
1.00	D2				(1.70)			
								
					2.00	CHALK (Grade Dm) recovered as structureless off-white occasionally mottled reddish-brown silty clay		
								
								
								
								
					(3.45)			
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
								
					5.45	Complete at 5.45m		
Remarks Groundwater not encountered.							Scale (approx) 1:50	Logged By AT
							Figure No. J22372.BH5	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE					Site Great Ashby, Stevenage, Hertfordshire SG4 7EA			Number BH8	
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 20/12/2022		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.10	D1				(0.30) 0.30	TOPSOIL (brown silty sandy clay with gravel and rootlets)			
1.00	D2					Firm becoming stiff brown sandy CLAY with fine to coarse subangular to subrounded flint gravel			
3.00	D3				(3.70)				
5.00	D4				4.00	CHALK (Grade Dm) recovered as structureless off-white occasionally mottled reddish-brown silty clay with rare pockets of brown clay			
					(1.45)				
					5.45	Complete at 5.45m			
Remarks Groundwater not encountered.								Scale (approx)	Logged By
								1:50	AT
								Figure No. J22372.BH5	

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE					Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Number BH9		
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372	
		Location		Dates 20/12/2022		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.10	D1				(0.30)	TOPSOIL (brown silty sandy clay with gravel and rootlets)			
					0.30	Firm becoming stiff brown and orange-brown sandy CLAY with fine to coarse subangular to subrounded flint gravel			
					(0.50)				
					0.80	CHALK (Grade Dm) recovered as structureless off-white occasionally mottled reddish-brown silty clay			
2.00	D3								
3.00	D2				(4.65)				
4.00	D4								
					5.45	Complete at 5.45m			
Remarks Groundwater not encountered.						Scale (approx)		Logged By	
						1:50		AT	
						Figure No. J22372.BH5			

 GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE				Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Number BH10				
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372		
		Location		Dates 20/12/2022		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description			Legend	Water
0.10	D1				(0.20) 0.20	TOPSOIL (brown silty sandy clay with gravel and rootlets)				
0.80	D2					Firm becoming stiff light brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel				
1.80	D3				(4.30)					
3.50	D4									
					4.50	Stiff dark brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel				
					(0.95)					
					5.45	Complete at 5.45m				
Remarks Groundwater not encountered.						Scale (approx) 1:50		Logged By AT		
						Figure No. J22372.BH5				

GEA Geotechnical & Environmental Associates Widbury Barn Widbury Hill Ware SG12 7QE				Site Great Ashby, Stevenage, Hertfordshire SG4 7EA		Number BH11				
Excavation Method Opendrive Percussive Sampler (Terrier Rig)		Dimensions		Ground Level (mOD)		Client Picture Estates Limited		Job Number J22372		
		Location		Dates 20/12/2022		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description			Legend	Water
2.50	D1				(0.20) 0.20	TOPSOIL (brown silty sandy clay with gravel and rootlets)				
						Firm becoming stiff brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel				
					(3.60)					
3.50	D2									
										
										
										
										
										
										
										
										
4.50	D3									
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										
Remarks Groundwater not encountered.							Scale (approx) 1:50		Logged By AT	
							Figure No. J22372.BH5			



Great Ashby, Stevenage, Hertfordshire SG4 7EA

**Trial Pit
Number**
TP1

Dimensions
0.90 m x 2.80 m x 2.50 m

Ground Level (mOD)

Client	Picture Estates Limited
---------------	-------------------------

**Job
Number**
J22372

Location

Dates
20/12/2022

Engineer

Sheet
1/1

Sample / Tests

Field Records

Level
(mOD)Depth
(m)
(Thickness)

Description

Legend

Water

0.10

D1

(0.25)
0.25

TOPSOIL (dark brown clayey sand with gravel and rootlets)

0.50

D2

0.25

Stiff brown sandy CLAY with fine to coarse subangular to subrounded gravel

1.50

D3

$$(2.25)$$

Complete at 2.50m

Plan

Remarks

Sides of trial pit remained stable.
Groundwater not encountered.
Soakaway test carried out within trial pit.

Scale (approx)

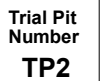
1:50

Logged By

AT

Figure No.

J22372.TP7



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Great Ashby, Stevenage, Hertfordshire SG4 7EA

**Trial Pit
Number**
TP3

Dimensions
0.70 m x 2.30 m x 1.95 m

Ground Level (mOD)

Client	Picture Estates Limited
---------------	-------------------------

**Job
Number**
J22372

Location

Dates	20/12/2022
--------------	------------

Engineer

Sheet
1/1

Sample / Tests

Field Records

Level
(mOD)Depth
(m)
(Thickness)

Description

Legend

Water

0.10

D1

(0.20)
0.20

TOPSOIL (dark brown clayey sand with gravel and rootlets)

Firm to stiff brown very sandy CLAY with abundant fine to coarse subangular to subrounded gravel

1.00

D2

0.80

Pale brown very clayey silty SAND with fine to coarse subangular to subrounded gravel

$$(1.15)$$

1.95

Complete at 1.95m

Plan

Remarks

Sides of trial pit remained stable.
Groundwater not encountered.
Soakaway test carried out within trial pit.

Scale (approx)

1:50

Logged By

AT

Figure No.

J22372.TP7



Great Ashby, Stevenage, Hertfordshire SG4 7EA

**Job
Number**
J22372

**Job
Number**
J22372

Sheet

Water

J22372.TP7



Widbury Barn | Widbury Hill | Ware | SG12 7QE

Great Ashby, Stevenage, Hertfordshire SG4 7EA

**Trial Pit
Number**
TP5

Tracked 8 Tonne Excavator

0.60 m x 2.10 m x 1.90 m

10. *Journal of the American Medical Association*, 2000; 283: 2689-2694.

Picture Estates Limited

Job
Number
J22372

Location

Dates

20/12/2022

Engineer

Sheet

1/1

Depth
(m)

Sample / Tests

Water
Depth
(m)

Field Records

Level
(mOD)Depth
(m)
(Thickness)

Description

Legend

Water	
-------	--

(0.25)

$$\frac{(0.25)}{0.25}$$

TOPSOIL (dark brown clayey sand with gravel and rootlets)

Firm to stiff orange-brown silty sandy CLAY with occasional fine to coarse subangular to subrounded gravel

(0.85)

(0.00)

CHALK recovered as off-white silty clay with occasional weak low density chalk gravel

(0 80)

(0.80)

1.90

Complete at 1.90m

Plan

Remarks

Sides of trial pit remained stable.
Groundwater not encountered.
Soakaway test carried out within trial pit.

Scale (approx)

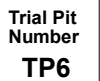
1:50

Logged By

AT

Figure No.

J22372.TP7



Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D1				(0.25) 0.25	TOPSOIL (dark brown clayey sand with gravel and rootlets)		
						Firm becoming stiff light brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel		
								
								
1.20	D2				(1.65)			
								
1.60	D3							
					1.90	Complete at 1.90m		

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Great Ashby, Stevenage, Hertfordshire SG4 7EA

**Trial Pit
Number**
TP8

Dimensions
0.90 m x 3.00 m x 1.80 m

Ground Level (mOD)

Client	Picture Estates Limited
---------------	-------------------------

**Job
Number**
J22372

Location

Dates
20/12/2022

Engineer

Sheet
1/1

Sample / Tests

Field Records

Level
(mOD)Depth
(m)
(Thickness)

Description

Legend

Water

0.10

D1

(0.25)
0.25

TOPSOIL (dark brown clayey sand with gravel and rootlets)

Firm becoming stiff light brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel

0.90

D2

$$\begin{array}{c} \text{---} \\ \text{---} \\ \text{---} \end{array} \quad (1.55)$$

1.80

D3

1.80

Complete at 1.80m

Plan

Remarks

Sides of trial pit remained stable.
Groundwater not encountered.
Soakaway test carried out within trial pit.

Scale (approx)

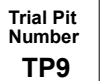
1:50

Logged By

AT

Figure No.

J22372.TP7



Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	D1				0.10	TOPSOIL (dark brown clayey sand with gravel and rootlets)		
0.90	D2				(1.80)	Stiff light brown mottled dark brown slightly sandy CLAY with occasional fine to coarse subangular to subrounded gravel	                                                 	

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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR1

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 08/12/2022

Soil Description

Brown gravelly silty CLAY (gravel is fmc and sub-angular to sub-rounded)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 1

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

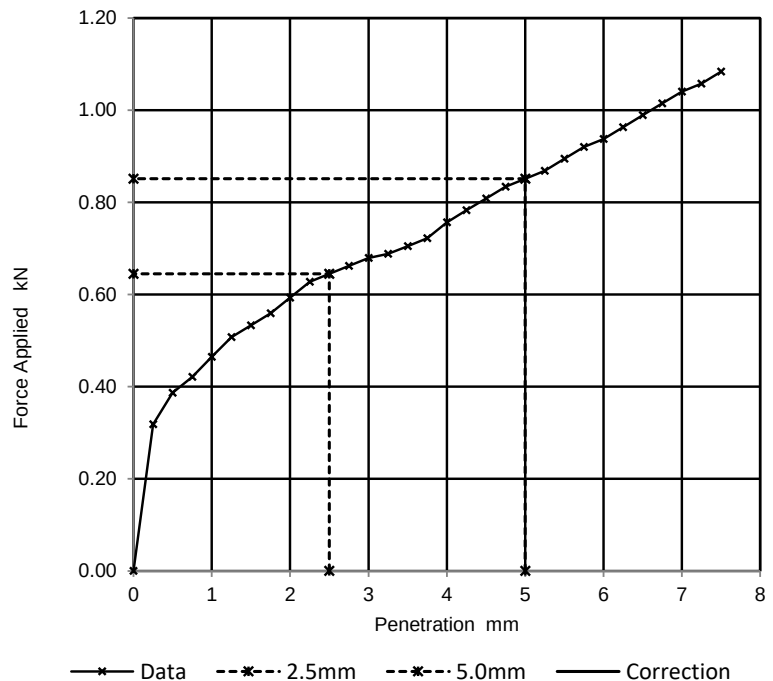
-3 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	37	0.32
0.50	45	0.39
0.75	49	0.42
1.00	54	0.46
1.25	59	0.51
1.50	62	0.53
1.75	65	0.56
2.00	69	0.59
2.25	73	0.63
2.50	75	0.65
2.75	77	0.66
3.00	79	0.68
3.25	80	0.69
3.50	82	0.71
3.75	84	0.72
4.00	88	0.76
4.25	91	0.78
4.50	94	0.81
4.75	97	0.83
5.00	99	0.85
5.25	101	0.87
5.50	104	0.89
5.75	107	0.92
6.00	109	0.94
6.25	112	0.96
6.50	115	0.99
6.75	118	1.01
7.00	121	1.04
7.25	123	1.06
7.50	126	1.08

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content %
	Penetration		CBR Value	
	2.5mm	5mm		
No	4.9	4.3	4.9	24



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Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 04/01/2023

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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR2

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client GEA

Date of Test 08/12/2022

Soil Description Dark brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 2

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature -3 0C

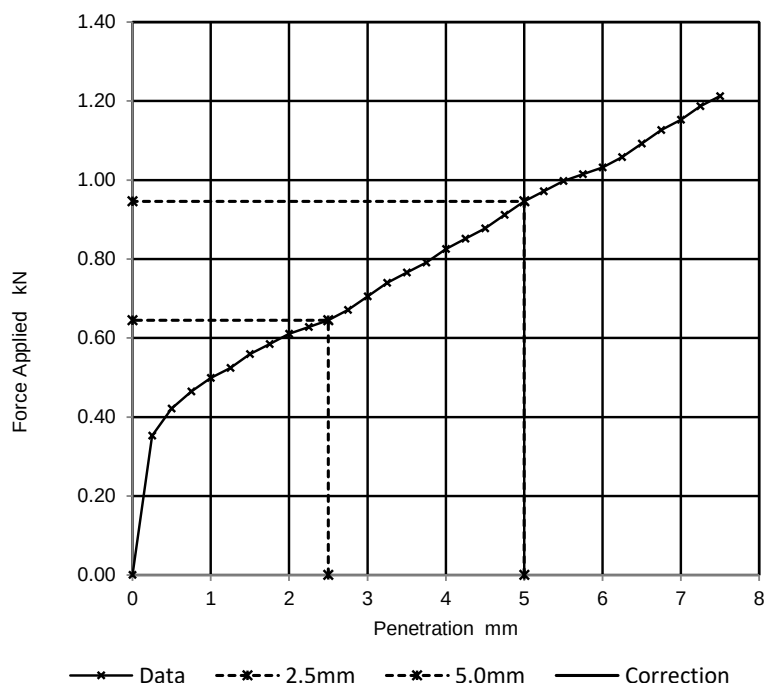
Environmental

Conditions Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	41	0.35
0.50	49	0.42
0.75	54	0.46
1.00	58	0.50
1.25	61	0.52
1.50	65	0.56
1.75	68	0.58
2.00	71	0.61
2.25	73	0.63
2.50	75	0.65
2.75	78	0.67
3.00	82	0.71
3.25	86	0.74
3.50	89	0.77
3.75	92	0.79
4.00	96	0.83
4.25	99	0.85
4.50	102	0.88
4.75	106	0.91
5.00	110	0.95
5.25	113	0.97
5.50	116	1.00
5.75	118	1.01
6.00	120	1.03
6.25	123	1.06
6.50	127	1.09
6.75	131	1.13
7.00	134	1.15
7.25	138	1.19
7.50	141	1.21

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content %	
	Penetration			CBR Value
	2.5mm	5mm		
No	4.9	4.7	4.9	20



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR3

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 08/12/2022

Soil Description

Dark brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 3

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

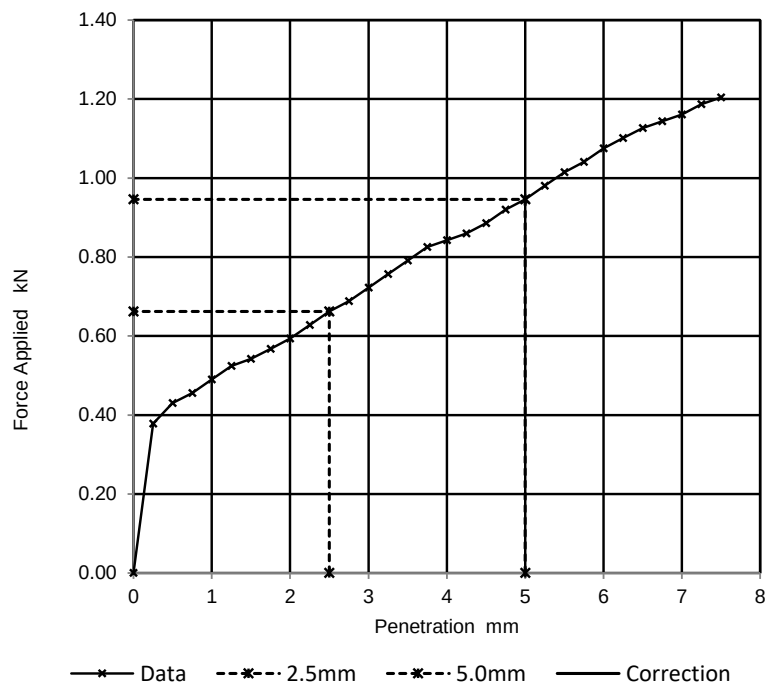
-3 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	44	0.38
0.50	50	0.43
0.75	53	0.46
1.00	57	0.49
1.25	61	0.52
1.50	63	0.54
1.75	66	0.57
2.00	69	0.59
2.25	73	0.63
2.50	77	0.66
2.75	80	0.69
3.00	84	0.72
3.25	88	0.76
3.50	92	0.79
3.75	96	0.83
4.00	98	0.84
4.25	100	0.86
4.50	103	0.89
4.75	107	0.92
5.00	110	0.95
5.25	114	0.98
5.50	118	1.01
5.75	121	1.04
6.00	125	1.08
6.25	128	1.10
6.50	131	1.13
6.75	133	1.14
7.00	135	1.16
7.25	138	1.19
7.50	140	1.20

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	5.0	4.7	5.0	17



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR4

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 09/12/2022

Soil Description Dark brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 4

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

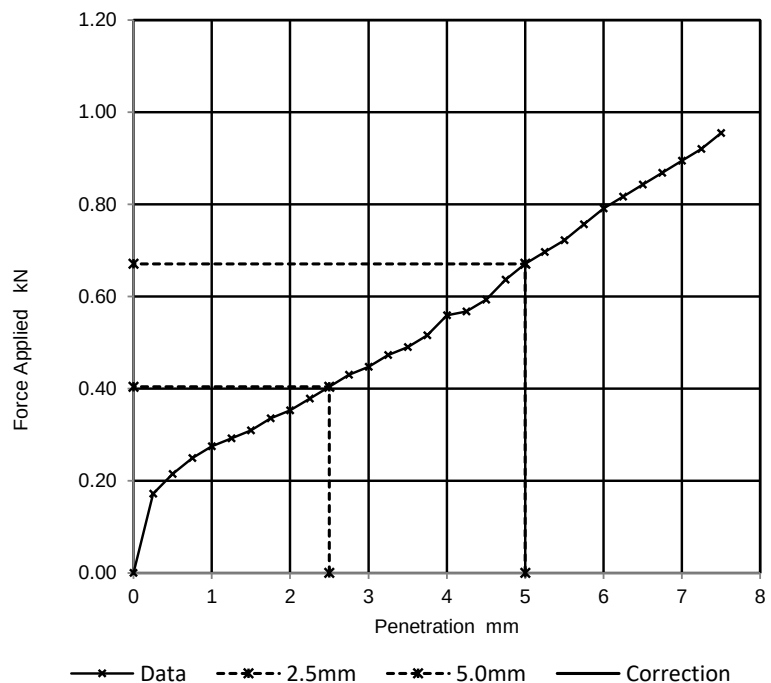
-3 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	20	0.17
0.50	25	0.22
0.75	29	0.25
1.00	32	0.28
1.25	34	0.29
1.50	36	0.31
1.75	39	0.34
2.00	41	0.35
2.25	44	0.38
2.50	47	0.40
2.75	50	0.43
3.00	52	0.45
3.25	55	0.47
3.50	57	0.49
3.75	60	0.52
4.00	65	0.56
4.25	66	0.57
4.50	69	0.59
4.75	74	0.64
5.00	78	0.67
5.25	81	0.70
5.50	84	0.72
5.75	88	0.76
6.00	92	0.79
6.25	95	0.82
6.50	98	0.84
6.75	101	0.87
7.00	104	0.89
7.25	107	0.92
7.50	111	0.95

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	3.1	3.4	3.4	19



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR5

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 09/12/2022

Soil Description

Dark brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 5

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature -3 0C

Environmental

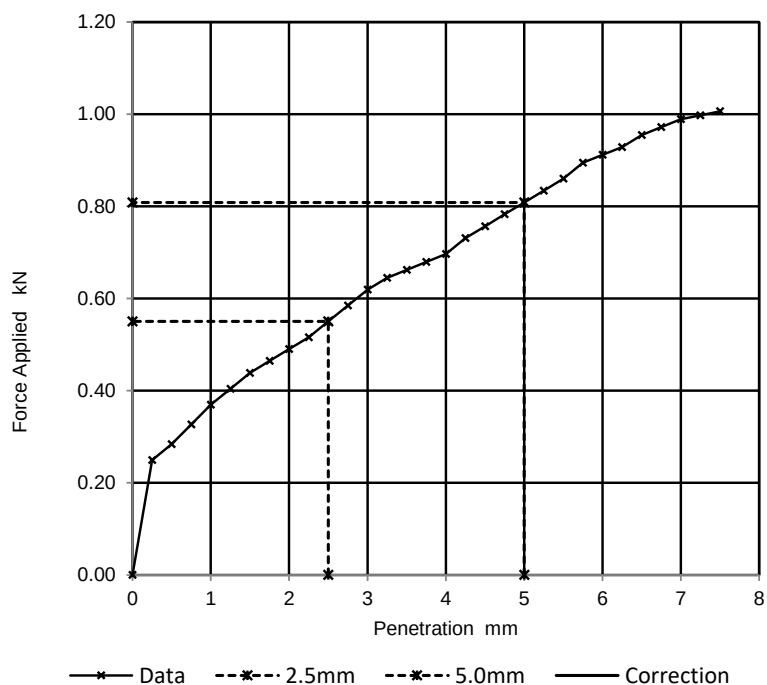
Conditions

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	29	0.25
0.50	33	0.28
0.75	38	0.33
1.00	43	0.37
1.25	47	0.40
1.50	51	0.44
1.75	54	0.46
2.00	57	0.49
2.25	60	0.52
2.50	64	0.55
2.75	68	0.58
3.00	72	0.62
3.25	75	0.65
3.50	77	0.66
3.75	79	0.68
4.00	81	0.70
4.25	85	0.73
4.50	88	0.76
4.75	91	0.78
5.00	94	0.81
5.25	97	0.83
5.50	100	0.86
5.75	104	0.89
6.00	106	0.91
6.25	108	0.93
6.50	111	0.95
6.75	113	0.97
7.00	115	0.99
7.25	116	1.00
7.50	117	1.01

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	4.2	4.0	4.2	18



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR6

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 09/12/2022

Soil Description

Dark brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 6

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

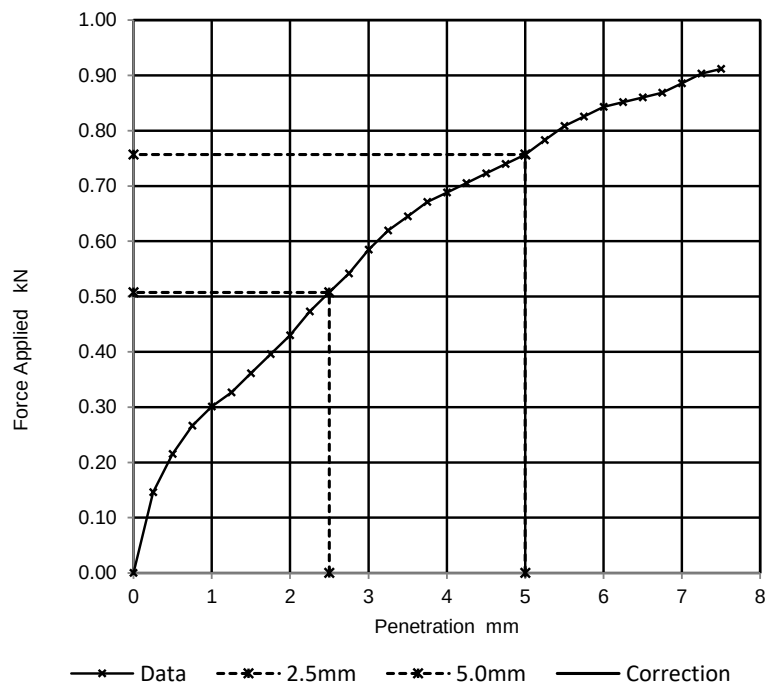
-3 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	17	0.15
0.50	25	0.22
0.75	31	0.27
1.00	35	0.30
1.25	38	0.33
1.50	42	0.36
1.75	46	0.40
2.00	50	0.43
2.25	55	0.47
2.50	59	0.51
2.75	63	0.54
3.00	68	0.58
3.25	72	0.62
3.50	75	0.65
3.75	78	0.67
4.00	80	0.69
4.25	82	0.71
4.50	84	0.72
4.75	86	0.74
5.00	88	0.76
5.25	91	0.78
5.50	94	0.81
5.75	96	0.83
6.00	98	0.84
6.25	99	0.85
6.50	100	0.86
6.75	101	0.87
7.00	103	0.89
7.25	105	0.90
7.50	106	0.91

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	3.8	3.8	3.8	21



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Initials: J.P

Date: 04/01/2023

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MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR7

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 09/12/2022

Soil Description

Dark brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-rounded)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 7

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

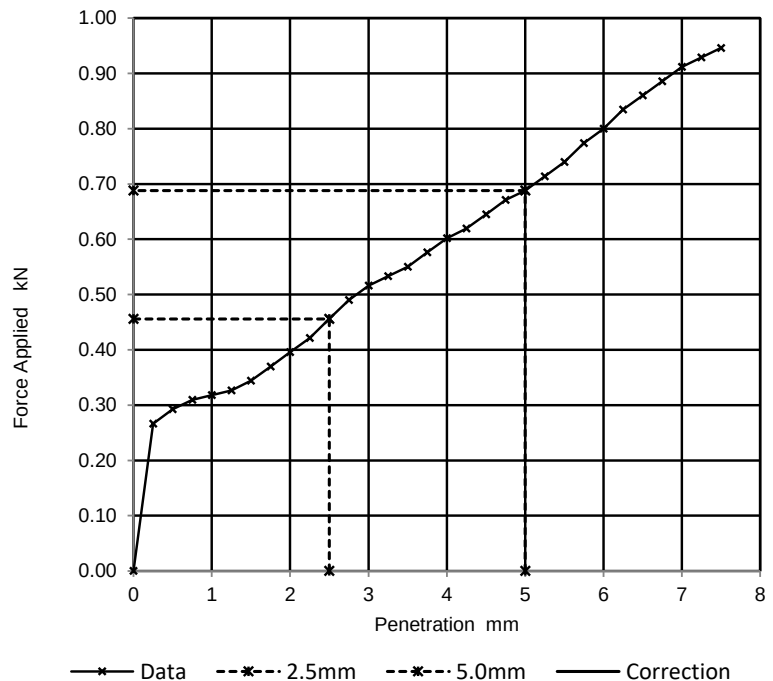
-3 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	31	0.27
0.50	34	0.29
0.75	36	0.31
1.00	37	0.32
1.25	38	0.33
1.50	40	0.34
1.75	43	0.37
2.00	46	0.40
2.25	49	0.42
2.50	53	0.46
2.75	57	0.49
3.00	60	0.52
3.25	62	0.53
3.50	64	0.55
3.75	67	0.58
4.00	70	0.60
4.25	72	0.62
4.50	75	0.65
4.75	78	0.67
5.00	80	0.69
5.25	83	0.71
5.50	86	0.74
5.75	90	0.77
6.00	93	0.80
6.25	97	0.83
6.50	100	0.86
6.75	103	0.89
7.00	106	0.91
7.25	108	0.93
7.50	110	0.95

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content %
	Penetration		CBR Value	
	2.5mm	5mm		
No	3.5	3.4	3.5	20



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 04/01/2023

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Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR8

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 14/12/2022

Soil Description Orangish brown slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 8

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

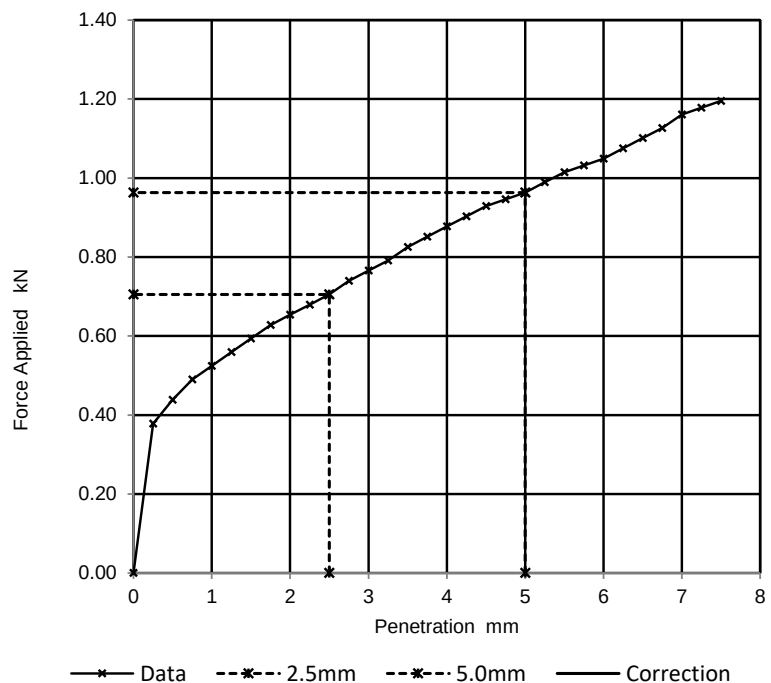
-5 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	44	0.38
0.50	51	0.44
0.75	57	0.49
1.00	61	0.52
1.25	65	0.56
1.50	69	0.59
1.75	73	0.63
2.00	76	0.65
2.25	79	0.68
2.50	82	0.71
2.75	86	0.74
3.00	89	0.77
3.25	92	0.79
3.50	96	0.83
3.75	99	0.85
4.00	102	0.88
4.25	105	0.90
4.50	108	0.93
4.75	110	0.95
5.00	112	0.96
5.25	115	0.99
5.50	118	1.01
5.75	120	1.03
6.00	122	1.05
6.25	125	1.08
6.50	128	1.10
6.75	131	1.13
7.00	135	1.16
7.25	137	1.18
7.50	139	1.20

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	5.3	4.8	5.3	19



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Date: 04/01/2023

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MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR9

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 14/12/2022

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 9

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

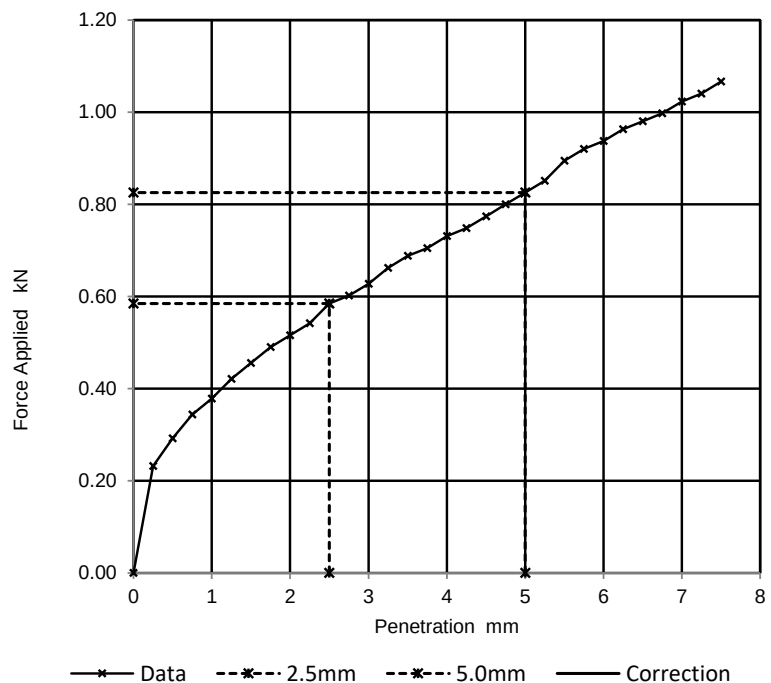
-5 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	27	0.23
0.50	34	0.29
0.75	40	0.34
1.00	44	0.38
1.25	49	0.42
1.50	53	0.46
1.75	57	0.49
2.00	60	0.52
2.25	63	0.54
2.50	68	0.58
2.75	70	0.60
3.00	73	0.63
3.25	77	0.66
3.50	80	0.69
3.75	82	0.71
4.00	85	0.73
4.25	87	0.75
4.50	90	0.77
4.75	93	0.80
5.00	96	0.83
5.25	99	0.85
5.50	104	0.89
5.75	107	0.92
6.00	109	0.94
6.25	112	0.96
6.50	114	0.98
6.75	116	1.00
7.00	119	1.02
7.25	121	1.04
7.50	124	1.07

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	4.4	4.1	4.4	19



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Initials: J.P

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MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR10

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 14/12/2022

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 10

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

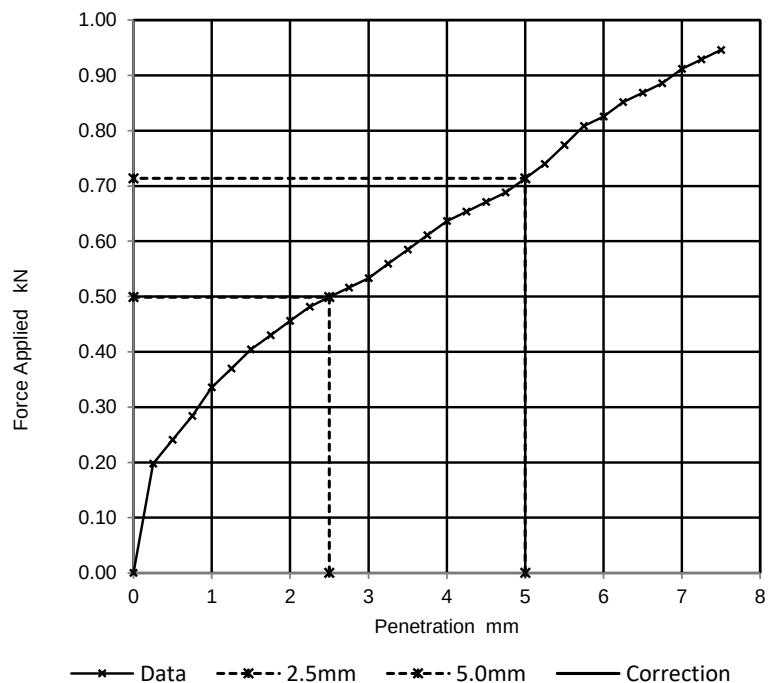
-5 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	23	0.20
0.50	28	0.24
0.75	33	0.28
1.00	39	0.34
1.25	43	0.37
1.50	47	0.40
1.75	50	0.43
2.00	53	0.46
2.25	56	0.48
2.50	58	0.50
2.75	60	0.52
3.00	62	0.53
3.25	65	0.56
3.50	68	0.58
3.75	71	0.61
4.00	74	0.64
4.25	76	0.65
4.50	78	0.67
4.75	80	0.69
5.00	83	0.71
5.25	86	0.74
5.50	90	0.77
5.75	94	0.81
6.00	96	0.83
6.25	99	0.85
6.50	101	0.87
6.75	103	0.89
7.00	106	0.91
7.25	108	0.93
7.50	110	0.95

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	3.8	3.6	3.8	19



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR11

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 15/12/2022

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 11

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

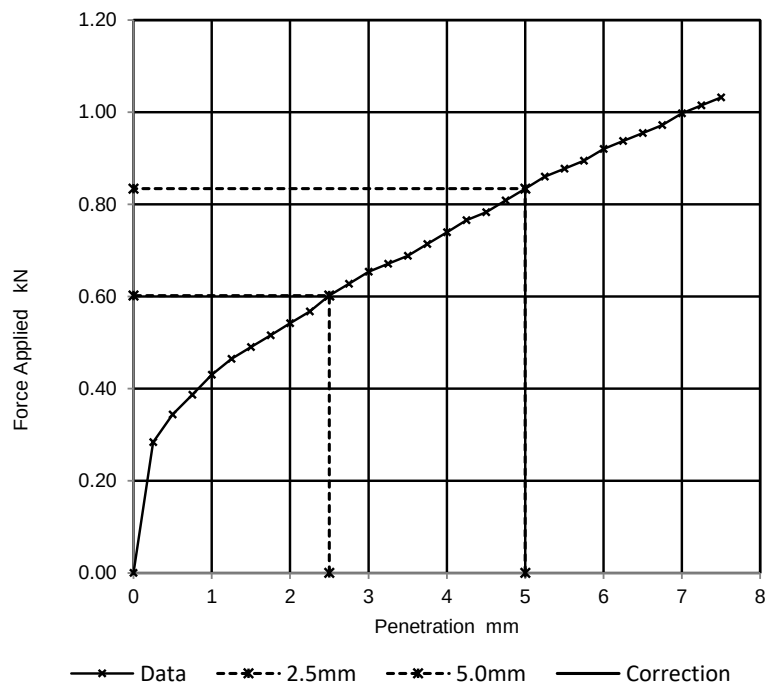
-8 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	33	0.28
0.50	40	0.34
0.75	45	0.39
1.00	50	0.43
1.25	54	0.46
1.50	57	0.49
1.75	60	0.52
2.00	63	0.54
2.25	66	0.57
2.50	70	0.60
2.75	73	0.63
3.00	76	0.65
3.25	78	0.67
3.50	80	0.69
3.75	83	0.71
4.00	86	0.74
4.25	89	0.77
4.50	91	0.78
4.75	94	0.81
5.00	97	0.83
5.25	100	0.86
5.50	102	0.88
5.75	104	0.89
6.00	107	0.92
6.25	109	0.94
6.50	111	0.95
6.75	113	0.97
7.00	116	1.00
7.25	118	1.01
7.50	120	1.03

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	4.6	4.2	4.6	16



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Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
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Checked and Approved

Initials: J.P

Date: 04/01/2023

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MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR12

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 15/12/2022

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 12

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge kg

Proving Ring Factor 8.6 N/div

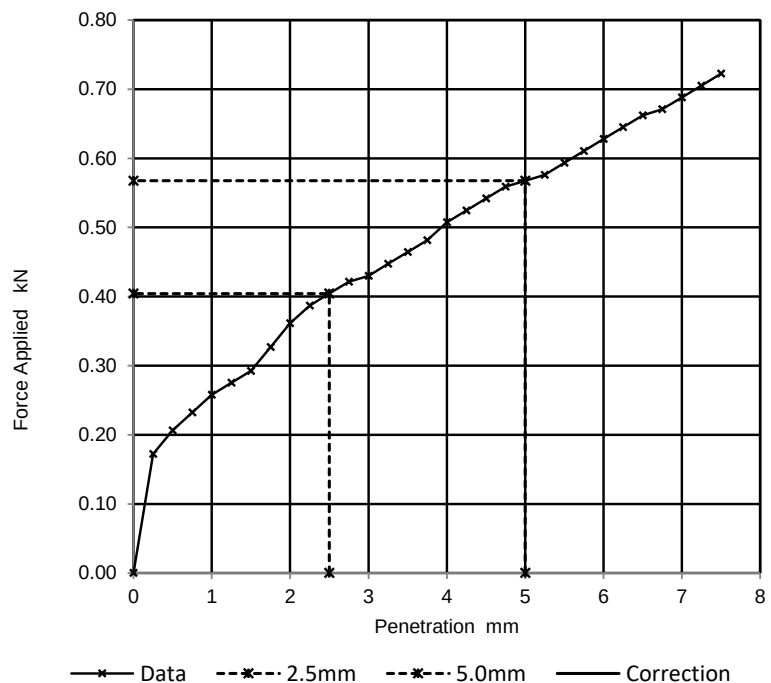
Temperature
Environmental
Conditions

0C

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	20	0.17
0.50	24	0.21
0.75	27	0.23
1.00	30	0.26
1.25	32	0.28
1.50	34	0.29
1.75	38	0.33
2.00	42	0.36
2.25	45	0.39
2.50	47	0.40
2.75	49	0.42
3.00	50	0.43
3.25	52	0.45
3.50	54	0.46
3.75	56	0.48
4.00	59	0.51
4.25	61	0.52
4.50	63	0.54
4.75	65	0.56
5.00	66	0.57
5.25	67	0.58
5.50	69	0.59
5.75	71	0.61
6.00	73	0.63
6.25	75	0.65
6.50	77	0.66
6.75	78	0.67
7.00	80	0.69
7.25	82	0.71
7.50	84	0.72

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %		Moisture Content	
	Penetration			CBR Value
	2.5mm	5mm	%	
No	3.1	2.8	3.1	18



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Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
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Checked and Approved

Initials: J.P

Date: 04/01/2023

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MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR13

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 15/12/2022

Soil Description

Brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 13

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

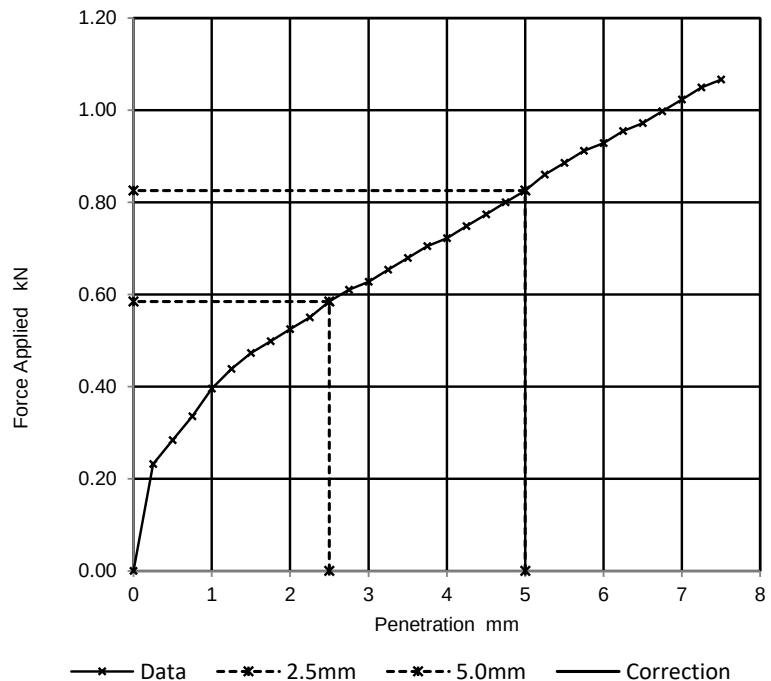
-5 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	27	0.23
0.50	33	0.28
0.75	39	0.34
1.00	46	0.40
1.25	51	0.44
1.50	55	0.47
1.75	58	0.50
2.00	61	0.52
2.25	64	0.55
2.50	68	0.58
2.75	71	0.61
3.00	73	0.63
3.25	76	0.65
3.50	79	0.68
3.75	82	0.71
4.00	84	0.72
4.25	87	0.75
4.50	90	0.77
4.75	93	0.80
5.00	96	0.83
5.25	100	0.86
5.50	103	0.89
5.75	106	0.91
6.00	108	0.93
6.25	111	0.95
6.50	113	0.97
6.75	116	1.00
7.00	119	1.02
7.25	122	1.05
7.50	124	1.07

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content %
	Penetration		CBR Value	
	2.5mm	5mm		
No	4.4	4.1	4.4	19



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR14

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 16/12/2022

Soil Description

Orangish brown slightly sandy slightly gravelly silty CLAY (gravel is fmc and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 14

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

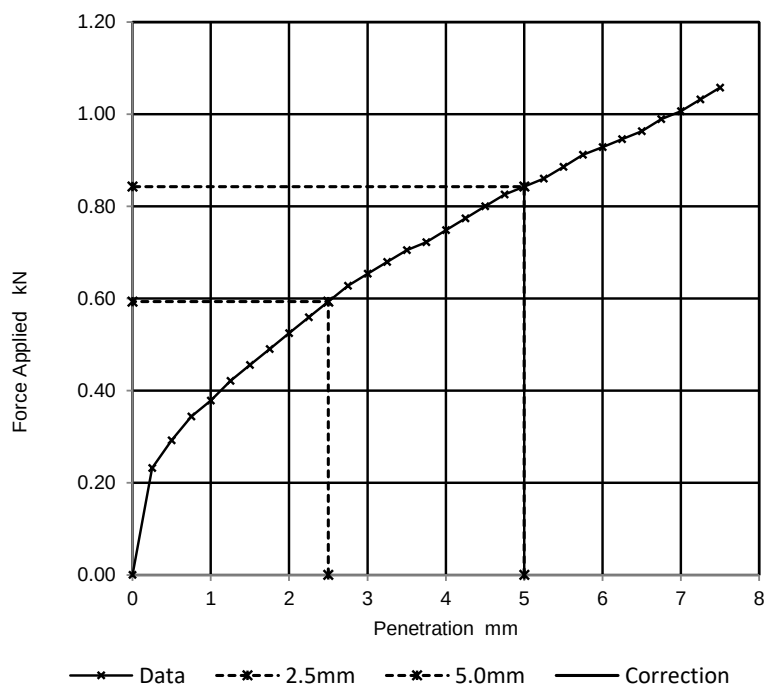
-6 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	27	0.23
0.50	34	0.29
0.75	40	0.34
1.00	44	0.38
1.25	49	0.42
1.50	53	0.46
1.75	57	0.49
2.00	61	0.52
2.25	65	0.56
2.50	69	0.59
2.75	73	0.63
3.00	76	0.65
3.25	79	0.68
3.50	82	0.71
3.75	84	0.72
4.00	87	0.75
4.25	90	0.77
4.50	93	0.80
4.75	96	0.83
5.00	98	0.84
5.25	100	0.86
5.50	103	0.89
5.75	106	0.91
6.00	108	0.93
6.25	110	0.95
6.50	112	0.96
6.75	115	0.99
7.00	117	1.01
7.25	120	1.03
7.50	123	1.06

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	4.5	4.2	4.5	21



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In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR15

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 16/12/2022

Soil Description

Light brown slightly sandy gravelly silty CLAY (gravel is fmc and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 15

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

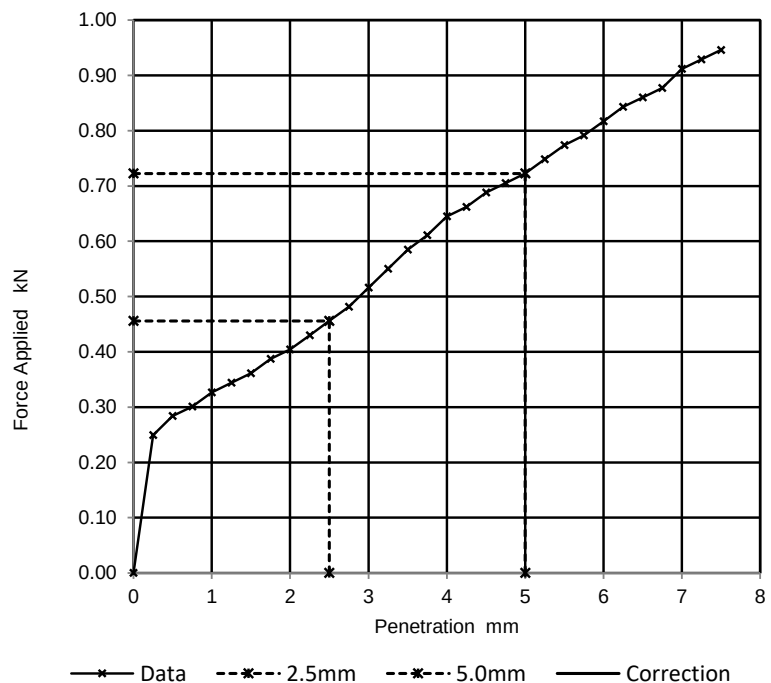
-6 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	29	0.25
0.50	33	0.28
0.75	35	0.30
1.00	38	0.33
1.25	40	0.34
1.50	42	0.36
1.75	45	0.39
2.00	47	0.40
2.25	50	0.43
2.50	53	0.46
2.75	56	0.48
3.00	60	0.52
3.25	64	0.55
3.50	68	0.58
3.75	71	0.61
4.00	75	0.65
4.25	77	0.66
4.50	80	0.69
4.75	82	0.71
5.00	84	0.72
5.25	87	0.75
5.50	90	0.77
5.75	92	0.79
6.00	95	0.82
6.25	98	0.84
6.50	100	0.86
6.75	102	0.88
7.00	106	0.91
7.25	108	0.93
7.50	110	0.95

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content
	Penetration		CBR Value	
	2.5mm	5mm		%
No	3.5	3.6	3.6	25



2519

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Initials: J.P

Date: 04/01/2023

MSF-5-R16



In Situ California Bearing Ratio (CBR)

Job Ref 32755

CBR No. CBR16

Site Name Great Ashby, Stevenage, Hertfordshire SG4 7EA

Depth m 0.40

Project No. J22372

Client

GEA

Date of Test 16/12/2022

Soil Description

Light brown slightly sandy gravelly silty CLAY (gravel is fm and sub-angular)

Test Method BS1377 : Part 9 : 1990, clause 4.3

CBR Test Number 16

Note: Test only applicable when maximum particle size beneath the plunger does not exceed 20mm

Rate of Strain 1.00 mm/min

Mass of Surcharge 4.5 kg

Proving Ring Factor 8.6 N/div

Temperature
Environmental
Conditions

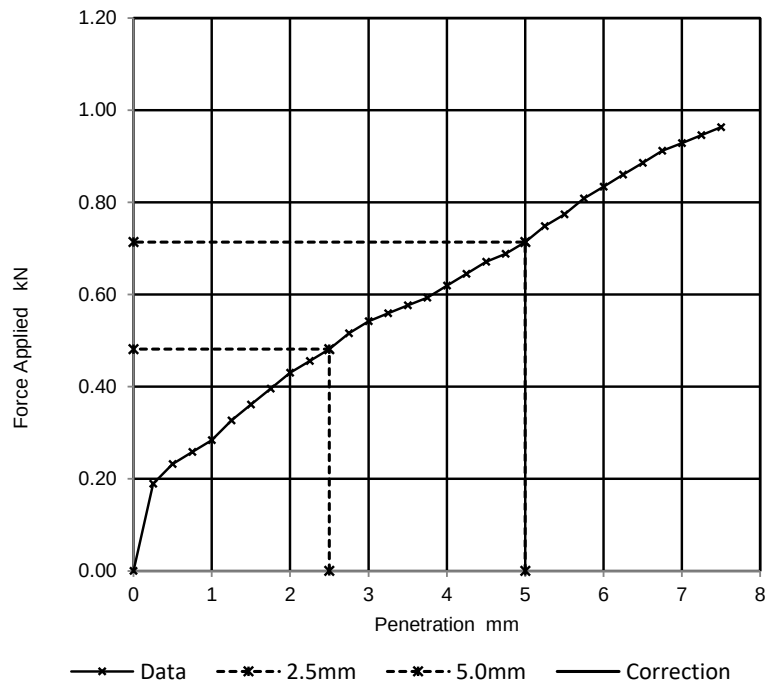
-6 0C

Dry

Readings

Penetration of Plunger mm	Force on Plunger	
	Dial Reading	Load kN
0.00	0	0.00
0.25	22	0.19
0.50	27	0.23
0.75	30	0.26
1.00	33	0.28
1.25	38	0.33
1.50	42	0.36
1.75	46	0.40
2.00	50	0.43
2.25	53	0.46
2.50	56	0.48
2.75	60	0.52
3.00	63	0.54
3.25	65	0.56
3.50	67	0.58
3.75	69	0.59
4.00	72	0.62
4.25	75	0.65
4.50	78	0.67
4.75	80	0.69
5.00	83	0.71
5.25	87	0.75
5.50	90	0.77
5.75	94	0.81
6.00	97	0.83
6.25	100	0.86
6.50	103	0.89
6.75	106	0.91
7.00	108	0.93
7.25	110	0.95
7.50	112	0.96

Force versus Penetration Plot



Remarks

Results

Curve correction applied	CBR Values, %			Moisture Content %
	Penetration		CBR Value	
	2.5mm	5mm		
No	3.6	3.6	3.6	26



Test Report by K4 SOILS LABORATORY
Unit 8 Olds Close Olds Approach
Watford Herts WD18 9RU
Tel: 01923 711 288
Email: James@k4soils.com

Checked and Approved

Initials: J.P

Date: 04/01/2023

2519

NOTE: The report shall not be reproduced except in full without authority of the laboratory. These results only apply to the locations tested.

Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

MSF-5-R16



Soakage Test Results

Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372Sheet
1 / 4

Trial Pit No: TP1

Dimensions (m): 0.90 x 2.80 x 2.50

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	2.00
1	2.00
2	2.00
3	2.00
4	2.00
5	2.00
10	2.00
15	2.00
20	2.00
25	2.00
30	2.00
45	1.99
60	1.99
120	1.98
150	1.98

Trial Pit No: TP2

Dimensions (m): 0.90 x 3.00 x 1.80

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	0.56
2	0.57
4	0.57
10	0.57
19	0.58
28	0.58
80	0.58
190	0.58

Trial Pit No: TP3

Dimensions (m): 0.70 x 2.30 x 1.95

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	0.76
1	0.76
9	0.76
18	0.78
28	0.79
39	0.80
61	0.83
141	0.87
216	0.92
303	0.95



Soakage Test Results

Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372Sheet
2 / 4

Trial Pit No: TP4

Dimensions (m): 0.90 x 3.00 x 1.80

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	0.96
6	1.02
17	1.03
102	1.75
111	1.76
131	1.77
145	1.82

Trial Pit No: TP4

Dimensions (m): 0.70 x 1.70 x 1.82

Soakage Test No: 2

Time (mins)	Depth to water (m)
0	0.38
1	0.40
2	0.44
7	0.51
17	0.57
27	0.70
68	0.95
120	1.23
150	1.40

Trial Pit No: TP4

Dimensions (m): 0.70 x 1.70 x 1.82

Soakage Test No: 3

Time (mins)	Depth to water (m)
0	0.50
1	0.53
3	0.55
7	0.59
17	0.67
32	0.81
47	0.91
62	1.02
77	1.14
92	1.25
107	1.37
122	1.48



Soakage Test Results

Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372Sheet
3 / 4

Trial Pit No: 5

Dimensions (m): 0.60 x 2.10 x 1.90

Soakage Test No: 1

Time (mins)

Depth to water (m)

0	1.00
10	1.00
20	1.02
30	1.02
60	1.03
1260	1.41
1346	1.46
1350	1.46
1391	1.46
1425	1.47

Trial Pit No: 6

Dimensions (m): 0.80 x 2.10 x 1.90

Soakage Test No: 1

Time (mins)

Depth to water (m)

0	0.65
2	0.62
4	0.64
7	0.64
12	0.64
22	0.64
42	0.64
60	0.63
90	0.63
120	0.62
180	0.61

Trial Pit No: 7

Dimensions (m): 0.80 x 2.00 x 1.80

Soakage Test No: 1

Time (mins)

Depth to water (m)

0	1.00
10	0.98
25	1.00
33	1.02
36	1.04
84	1.08
177	1.15
213	1.18



Soakage Test Results

Site Great Ashby, Stevenage, Hertfordshire SG4 7EA**Client** Picture Estates Limited**Engineer****Job Number**
J22372**Sheet**
4 / 4**Trial Pit No: 8**

Dimensions (m): 0.90 x 3.00 x 1.80

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	1.30
1	1.30
2	1.30
3	1.30
4	1.30
5	1.30
6	1.30
7	1.30
8	1.30
9	1.30
10	1.30
15	1.30
30	1.30
45	1.30
60	1.29
120	1.27

Trial Pit No: 9

Dimensions (m): 0.60 x 2.00 x 1.90

Soakage Test No: 1

Time (mins)	Depth to water (m)
0	1.00
10	1.00
20	1.00
30	1.00
60	1.00
120	1.00

Pit was left overnight and there was no change in level by 9am the following morning



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number

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Trial Pit No. TP1

Soakage Test No.

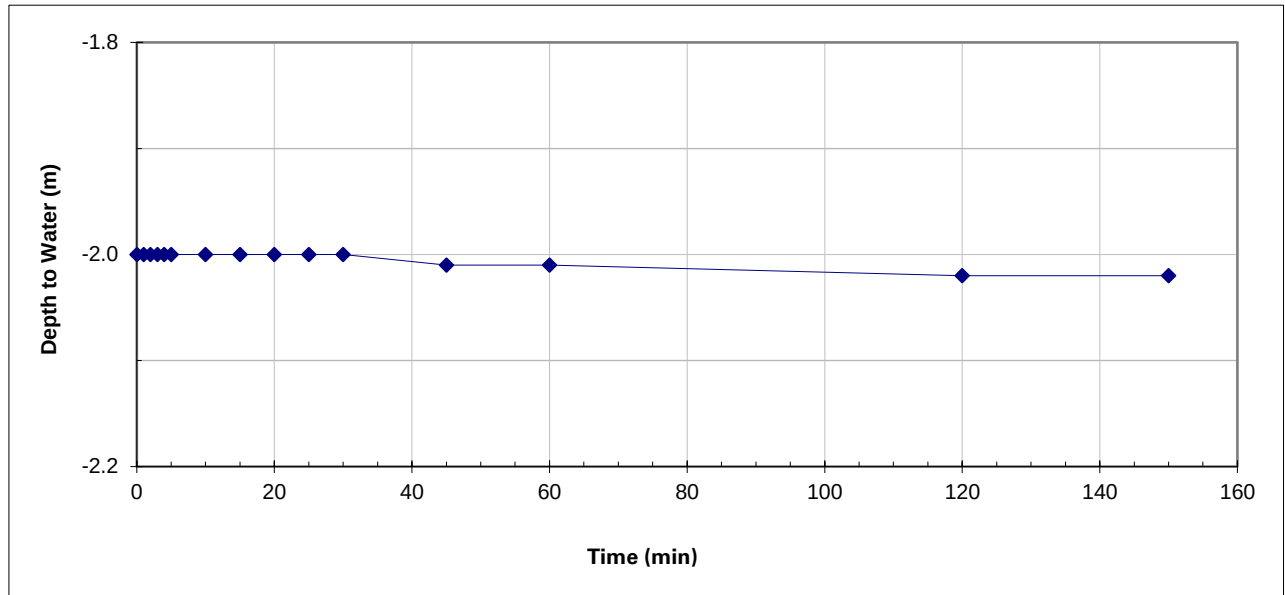
1

Pit Length (m) 2.8

Pit Width (m) 0.9

Pit Depth (m)

2.5



Design Soakage Rate

1.1E-06

m/s

(based on linear portion of graph as shown)

0.10

m/day

Trial Pit No. TP2

Soakage Test No.

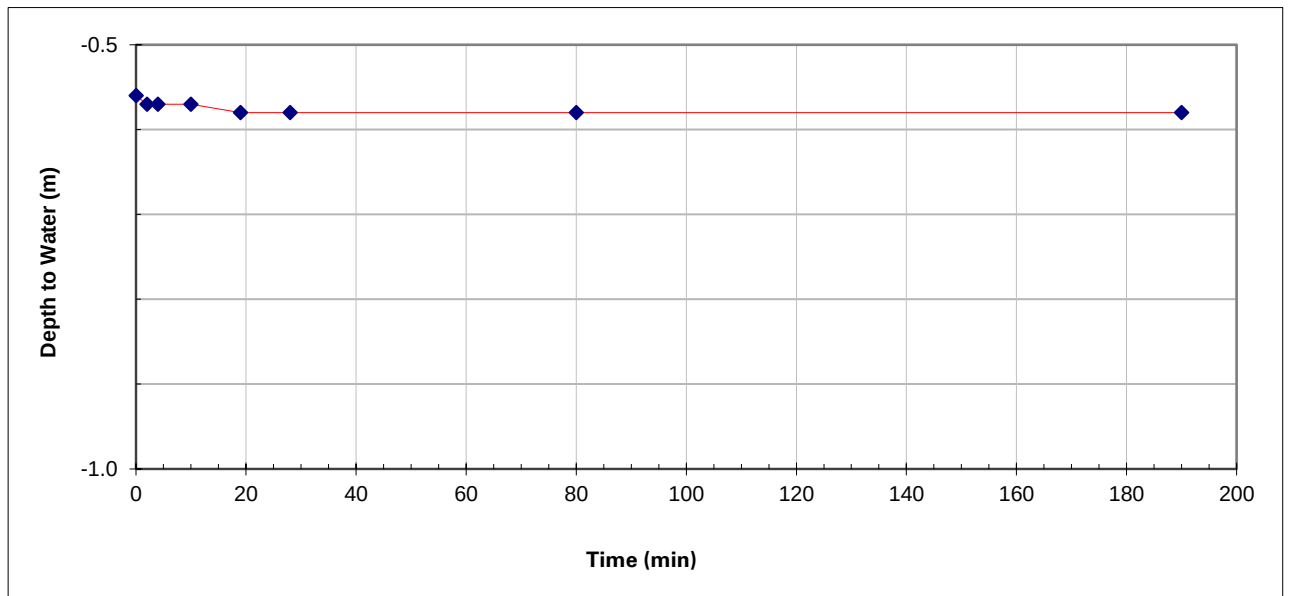
1

Pit Length (m) 3

Pit Width (m) 0.9

Pit Depth (m)

1.8



Design Soakage Rate

3.9E-07

m/s

(based on linear portion of graph as shown)

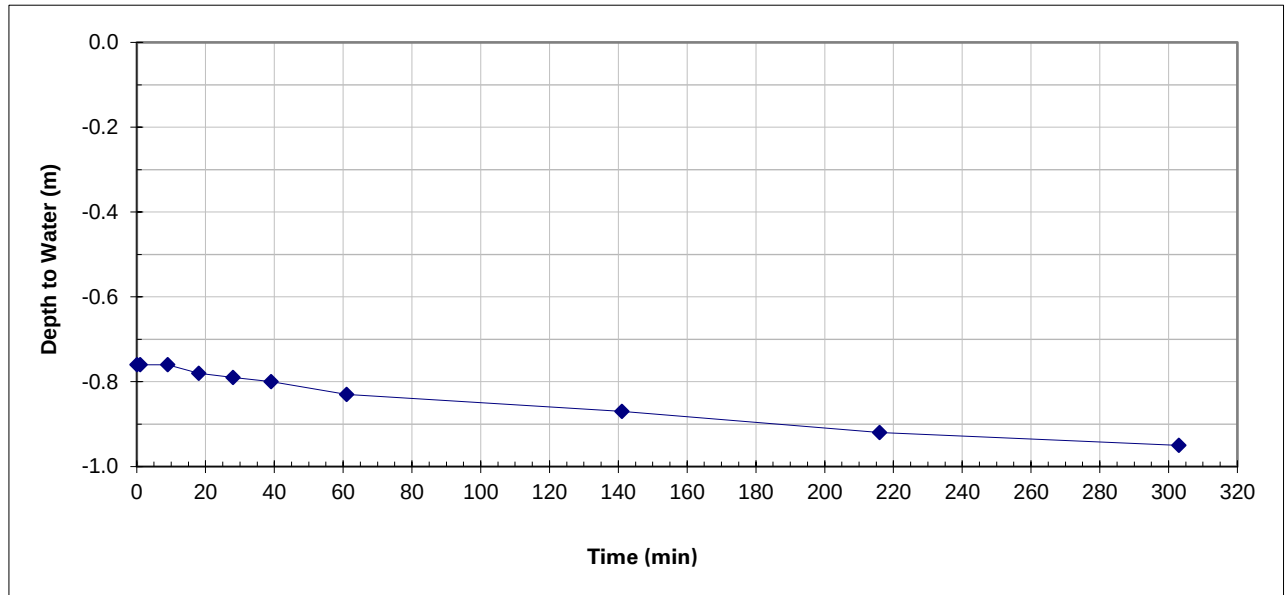
0.03

m/day



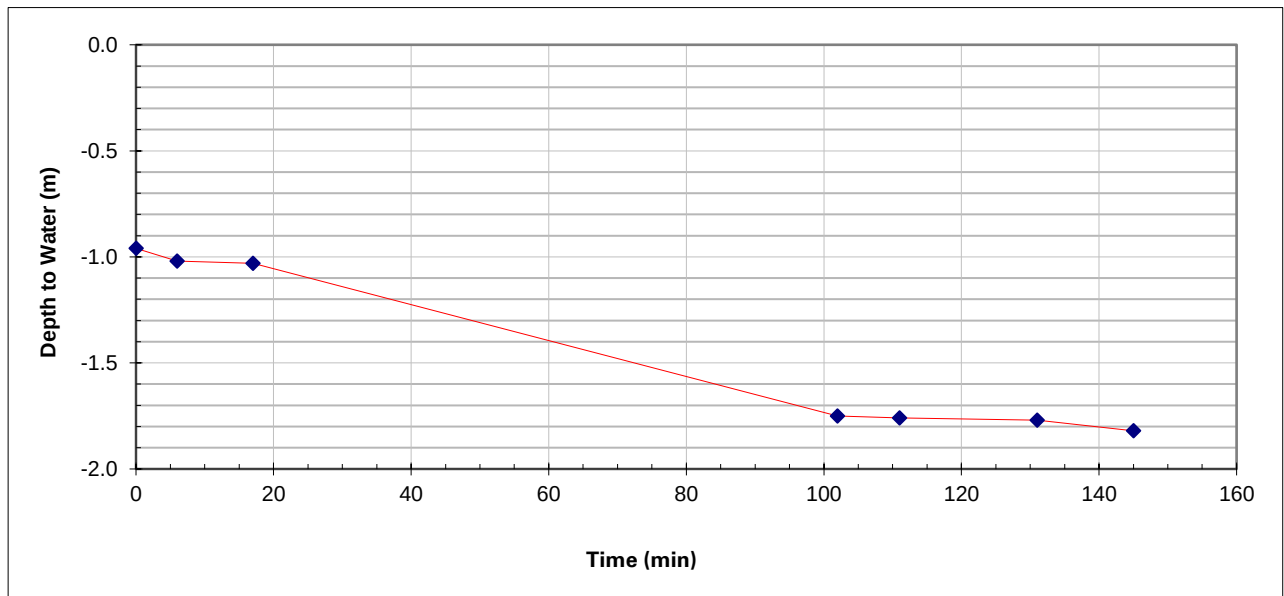
Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number	J22372
Client	Picture Estates Limited	Sheet	2 / 6
Engineer			

Trial Pit No.	TP3	Soakage Test No.	1
Pit Length (m)	2.3	Pit Width (m)	0.7
		Pit Depth (m)	1.95



Design Soakage Rate	1.7E-06	m/s	(based on linear portion of graph as shown)
	0.14	m/day	

Trial Pit No.	TP4	Soakage Test No.	1
Pit Length (m)	3	Pit Width (m)	0.9
		Pit Depth (m)	1.8



Design Soakage Rate	4.9E-05	m/s	(based on linear portion of graph as shown)
	4.27	m/day	

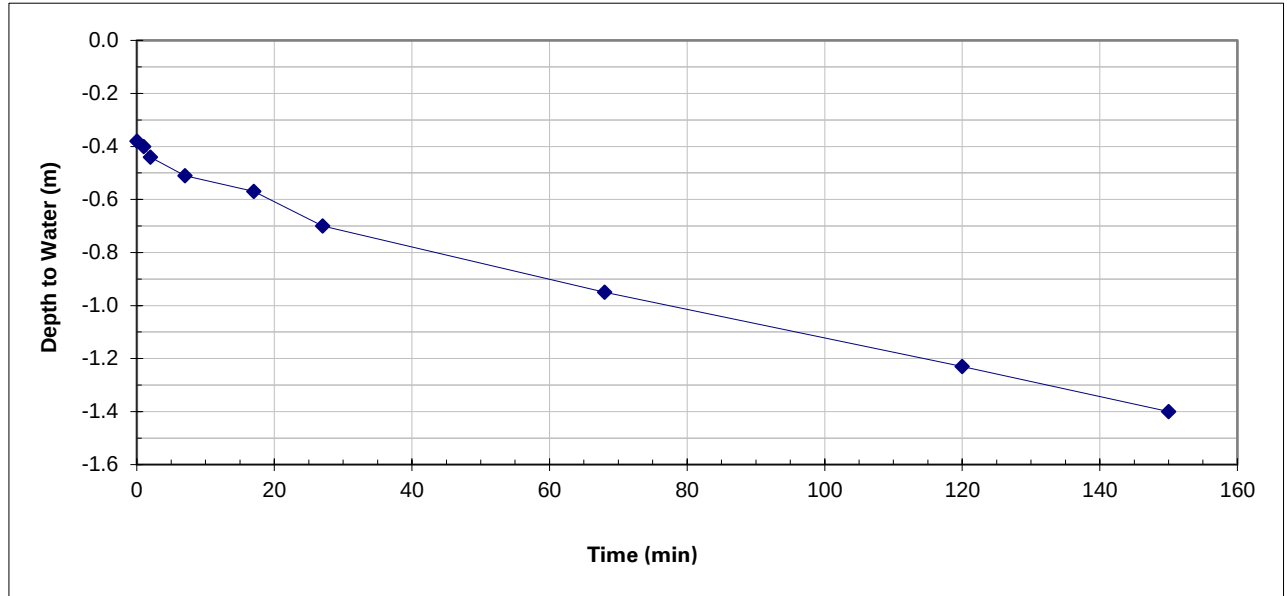


Soakage Test Results

Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number	J22372
Client	Picture Estates Limited	Sheet	3 / 6
Engineer			

Trial Pit No. TP4 Soakage Test No. 2

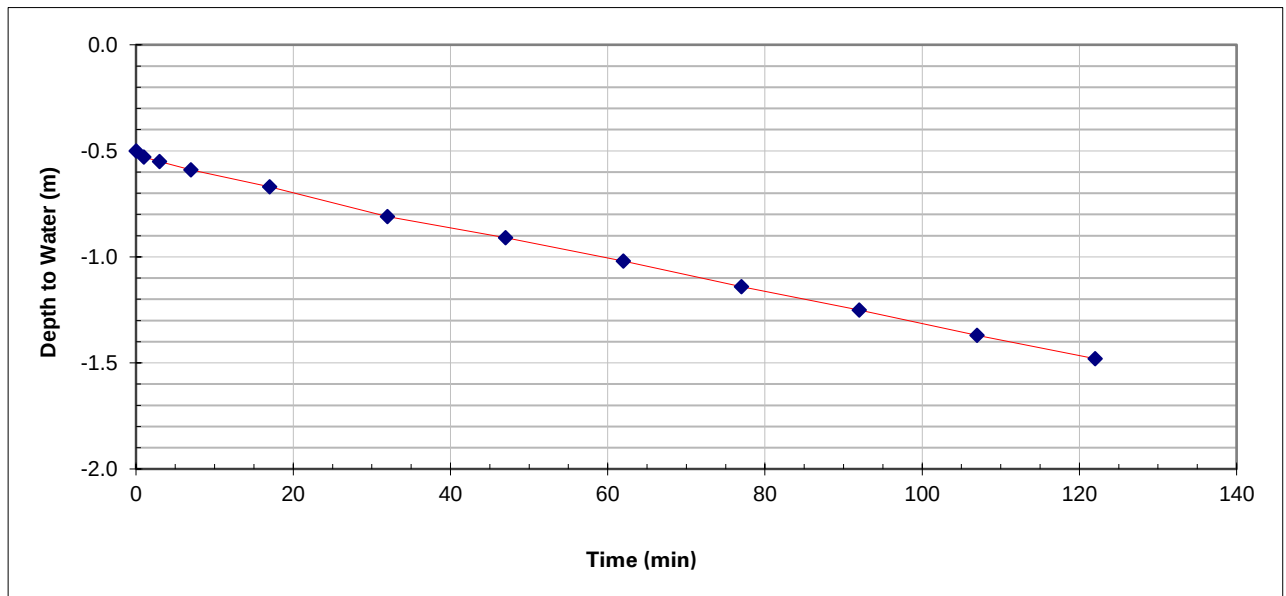
Pit Length (m) 1.7 Pit Width (m) 0.7 Pit Depth (m) 1.82



Design Soakage Rate 2.3E-05 m/s (based on linear portion of graph as shown)
2.00 m/day

Trial Pit No. TP4 Soakage Test No. 3

Pit Length (m) 1.7 Pit Width (m) 0.7 Pit Depth (m) 1.82



Design Soakage Rate 3.1E-05 m/s (based on linear portion of graph as shown)
2.67 m/day



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number

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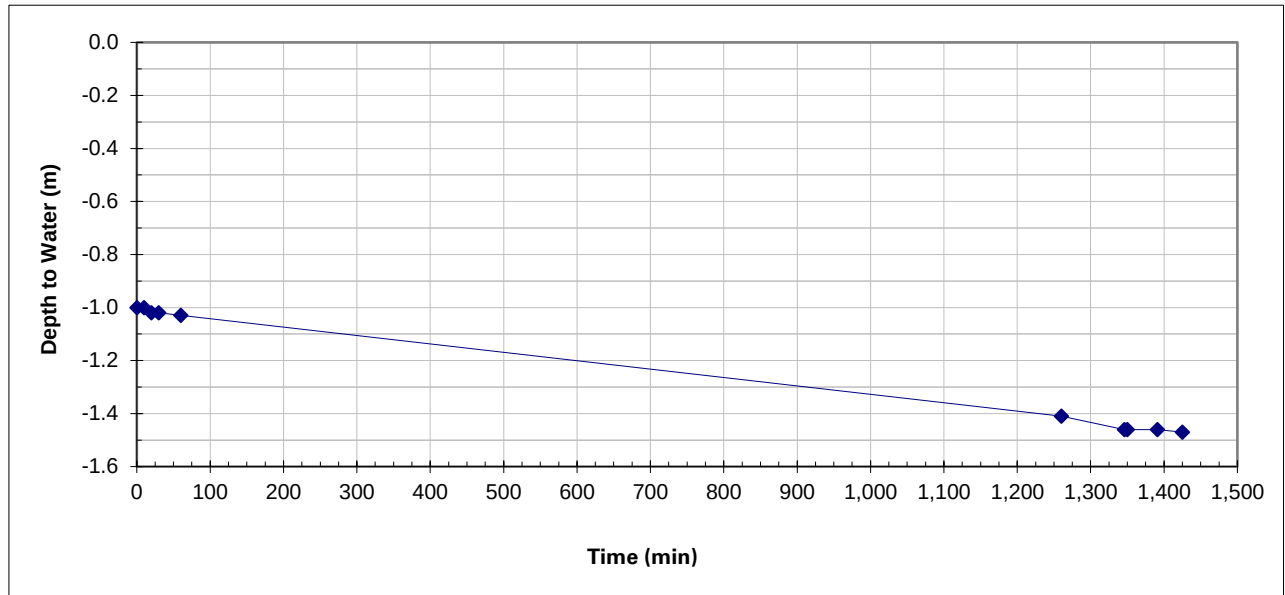
Trial Pit No. TP5

Soakage Test No. 1

Pit Length (m) 2.1

Pit Width (m) 0.6

Pit Depth (m) 1.9



Design Soakage Rate

1.5E-06
0.13

m/s
m/day

(based on linear portion of graph as shown)

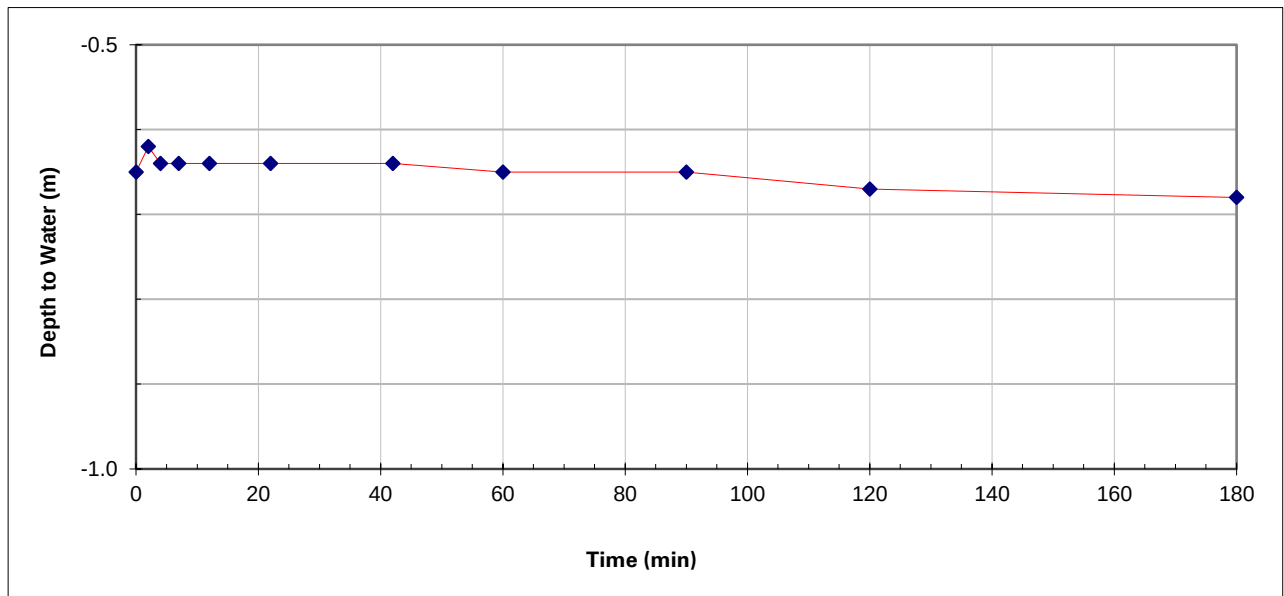
Trial Pit No. TP6

Soakage Test No. 1

Pit Length (m) 2.1

Pit Width (m) 0.8

Pit Depth (m) 1.9



Design Soakage Rate

1.1E-06
0.09

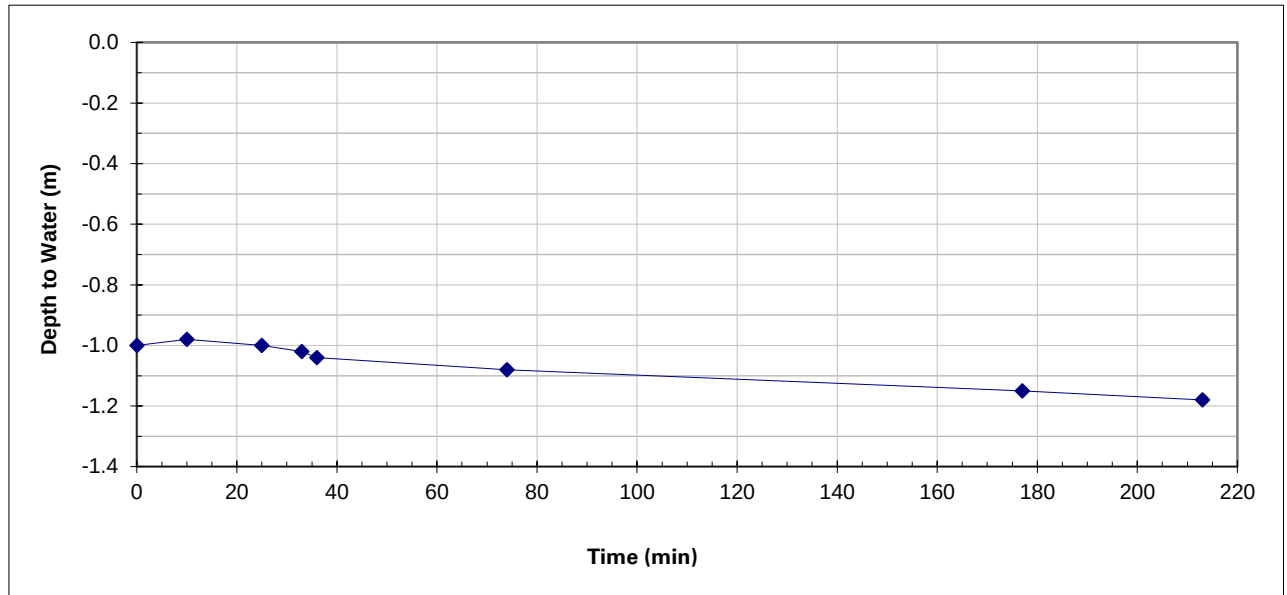
m/s
m/day

(based on linear portion of graph as shown)



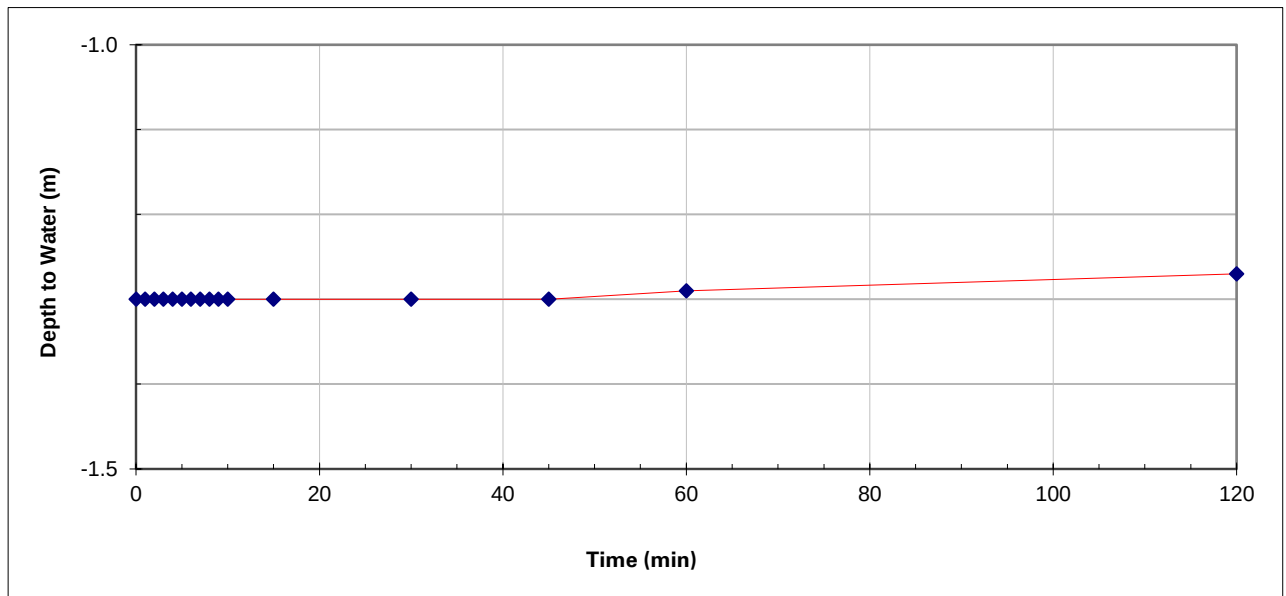
Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number	J22372
Client	Picture Estates Limited	Sheet	5 / 6
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Trial Pit No. TP7 Soakage Test No. 1
Pit Length (m) 2 Pit Width (m) 0.8 Pit Depth (m) 1.8



Design Soakage Rate 5.1E-06 m/s (based on linear portion of graph as shown)
0.44 m/day

Trial Pit No. TP8 Soakage Test No. 1
Pit Length (m) 3 Pit Width (m) 0.9 Pit Depth (m) 1.8



Design Soakage Rate -2.2E-06 m/s (based on linear portion of graph as shown)
-0.19 m/day

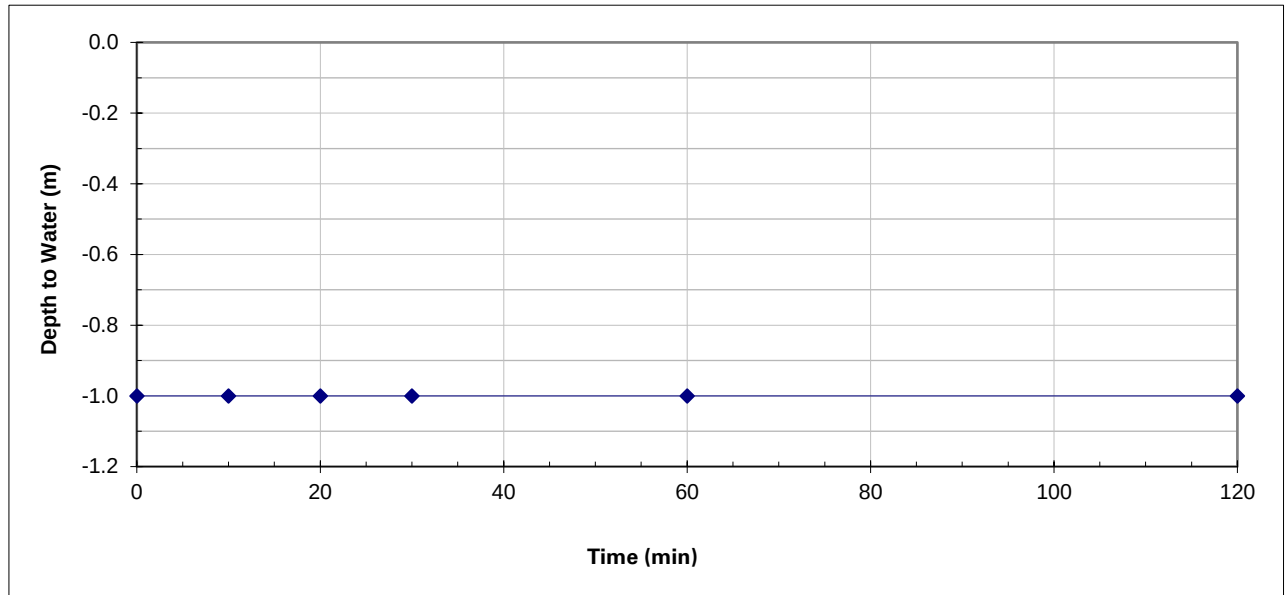


Soakage Test Results

Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number	J22372
Client	Picture Estates Limited	Sheet	6 / 6
Engineer			

Trial Pit No. TP9 Soakage Test No. 1

Pit Length (m) 2 Pit Width (m) 0.6 Pit Depth (m) 1.9



Design Soakage Rate 0.0E+00 m/s (based on linear portion of graph as shown)
0.00 m/day



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372Sheet
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Borehole No: 1

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 3.5
D2 (m) 2.62
T1 (min) 5
T2 (min) 30

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	5	10.00
5	11.5	3.50
10	12	3.00
15	12.15	2.85
30	12.38	2.62

Soakage Volume (m³) 0.016Soakage Area (m²) 1.46

Time (min) 25

Soakage rate (m/sec) 7.1025E-06

Soakage rate (m/day) 0.613656174

After completion of test

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Remarks:

Test carried out in the standpipe installed in the opendrive sampler borehole



GEA

Geotechnical & Environmental Associates
www.gea-ltd.co.uk

Borehole Soakage Test

Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Job Number
J22372

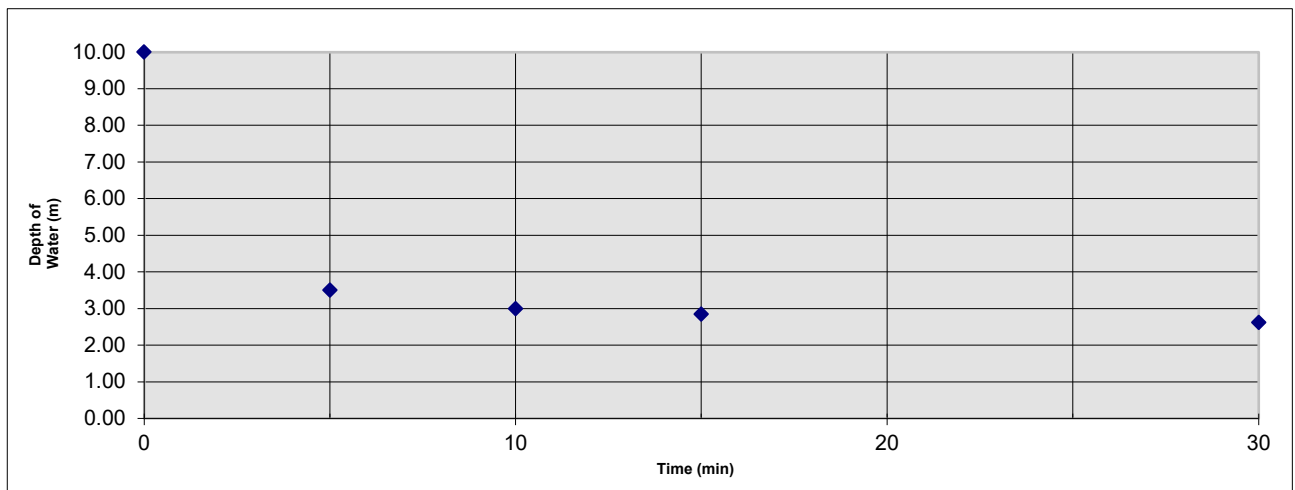
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Engineer

Soakage Graph

Test No: 1



Remarks:

Test carried out in the standpipe installed in the opendrive sampler borehole



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372Sheet
1/2

Borehole No: 2

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 7.5

D2 (m) 4.8

T1 (min) 1

T2 (min) 5

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	3.00	12.00
1	7.50	7.50
2	9.00	6.00
3	9.30	5.70
4	9.70	5.30
5	10.2	4.80
30	DRY	NA

Soakage Volume (m³) 0.048Soakage Area (m²) 2.92

Time (min) 4

Soakage rate (m/sec) 6.81818E-05

Soakage rate (m/day) 5.890909091

After completion of test

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Remarks:

Test carried out in the standpipe installed in the opendrive sampler borehole



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

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Engineer

Job Number
J22372Sheet
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Borehole No: 3

Test No: 1

Test Data

Soakage Calculation

Before start of test:

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Time (mins)	Depth to Water (m)	Depth of Water (m)
0	3.00	12.00
0.5	6.88	8.12
1	7.30	7.70
2	7.70	7.30
3	8.50	6.50
4	9.30	5.70
5	9.90	5.10
10	10.50	4.50

Borehole Diameter (m) 0.1500

Borehole Area (m) 0.0177

Borehole Perimeter (m) 0.471

From Plot: D1 (m) 8.12

D2 (m) 4.5

T1 (min) 0.5

T2 (min) 10

Soakage Volume (m³) 0.064Soakage Area (m²) 2.99

Time (min) 10

Soakage rate (m/sec) 3.752E-05**Soakage rate (m/day)** 3.241723845

After completion of test

Borehole depth (m): 15.00

Standpipe depth (m): 15.00

Water level (m): DRY

Remarks:

Test carried out in the standpipe installed in the opendrive sampler borehole



Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Job Number
J22372

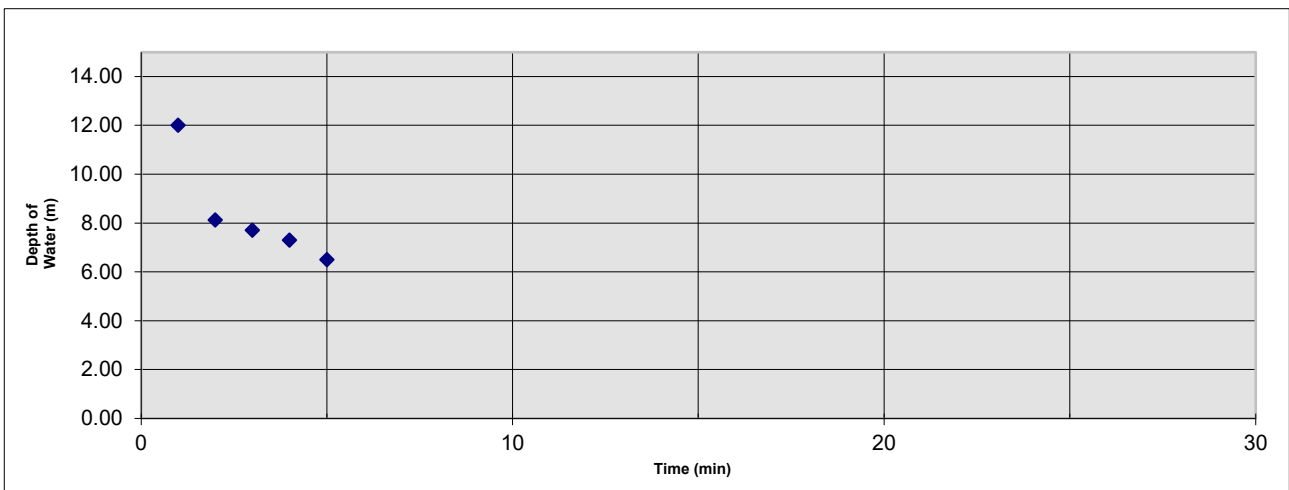
Client Picture Estates Limited

Sheet
2/2

Engineer

Soakage Graph

Test No: 1



Remarks:

Test carried out in the standpipe installed in the opendrive sampler borehole



appendix b

Lab Testing

Geotechnical Test Results
SPT & Cohesion/Depth Graph
Chemical Test Results
Generic Risk Based Screening Values

SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression				Chemical Tests			Other tests and comments
Location	Depth (m)	Sample Ref	Type	Description	WC	LL	PL	PI	<425 µm	Bulk	Dry	Condition	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	W/S Mg	
					%	%	%	%	%	Mg/m³	Mg/m³		kPa	kPa	kPa		g/L	mg/L	
BH1	2.75		D	Orangish brown mottled black slightly sandy silty CLAY with rare fine gravel.	22.7	54	22	32	99							7.6	< 0.010		
BH1	7.50		D	Greenish white and brown gravelly CHALK with some clay.	24.6														
BH2	1.00		D	Light brown and dark brown mottled sandy CLAY with chalk gravel and rare flint.	14.8	39	18	21	57							8.5	< 0.010		
BH3	9.00		D	Cream structurless CHALK.	27.6														
BH3	13.50		D	White structurless CHALK.	28.6														
BH4	2.50		D	Orangish brown silty CLAY with gravel.	36.3	77	35	42	87							8.3	< 0.010		
BH5	2.00		D	Brown mottled grey gravelly CLAY.	22.6	51	24	27	86										
BH5	4.00		D	Cream and mottled orangish brown structurless CHALK.	33.4														
BH6	2.00		D	Orangish brown and brownish grey mottled CLAY with fine to medium gravel.	42.3	86	38	48	93							8.1	< 0.010		
BH6	5.00		D	White structurless CHALK.	24.9														

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by  S Burke - Senior Technician 30/01/2023	Project Number: GEO / 37185 Project Name: GREAT ASHBY, STEVENAGE J22372	
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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression				Chemical Tests			Other tests and comments
Location	Depth (m)	Sample Ref	Type	Description	WC	LL	PL	PI	<425 µm	Bulk	Dry	Condition	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	W/S Mg	
					%	%	%	%	%	Mg/m³	Mg/m³		kPa	kPa	kPa		g/L	mg/L	
BH7	1.00		D	Brown mottled black sandy silty CLAY with fine gravel and rootlets.	26.4	64	28	36	77							8.4	< 0.010		
BH7	4.00		D	White structurless CHALK.	26.5														
BH8	1.00		D	Brown mottled black sandy silty CLAY with gravel.	41.1	78	39	39	91										
BH8	3.00		D	Brown mottled brown and grey CLAY with gravel.	18.4	62	23	39	49										
BH8	5.00		D	Cream and mottled orangish brown structurless CHALK.	30.3														
BH9	0.30		D	Brown sandy silty CLAY with fine to medium gravel and rootlets.	39.4	74	35	39	89										
BH10	0.80		D	Greyish brown CLAY with gravel.	16.7	33	16	17	76										
BH10	1.80		D	Brownish grey and dark brown mottled slightly sandy silty CLAY with rare fine to medium gravel.	20.6	41	18	23	99										
BH10	3.50		D	Brown CLAY with rare chalk gravel.	26.1	61	21	40	97										
BH11	3.50		D	Brown CLAY with fine to medium chalk gravel.	18.7	46	20	26	94										

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by  S Burke - Senior Technician 30/01/2023	Project Number: GEO / 37185 Project Name: GREAT ASHBY, STEVENAGE J22372	
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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression				Chemical Tests			Other tests and comments
Location	Depth (m)	Sample Ref	Type	Description	WC	LL	PL	PI	<425 µm	Bulk	Dry	Condition	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	W/S Mg	
					%	%	%	%	%	Mg/m³	Mg/m³		kPa	kPa	kPa		g/L	mg/L	
BH11	4.50		D	Brownish grey and grey mottled CLAY with fine to medium chalk gravel.	19.7	48	21	27	94										
BH3	2.75		D	.												8.4	< 0.010		
BH9	2.00		D	Brown CLAY with rare chalk gravel.	23.2														
BH9	4.00		D	White mottled brown structurless CHALK.	28.5														
TP3	1.00		D	Yellowish brown sandy silty CLAY with fine to medium chalk gravel and rootlets.	15.3	40	18	22	76										
TP6	0.70		D	Brown sandy silty CLAY with gravel.	20.8	59	27	32	62										
TP6	1.20		D	Brown silty sandy CLAY with gravel.	31.5	77	39	38	80										
TP6	1.60		D	Brown slightly sandy silty CLAY with rare fine gravel.	32.4	75	37	38	98										
TP7	0.70		D	Brown sandy silty CLAY with gravel and rootlets.	34.9	79	38	41	76										
TP7	1.60		D	White and brown structurless CHALK.	33.6														

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by  S Burke - Senior Technician 30/01/2023	Project Number: Project Name: GEO / 37185 GREAT ASHBY, STEVENAGE J22372	
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SUMMARY OF GEOTECHNICAL TESTING

Sample details					Classification Tests					Density Tests		Undrained Triaxial Compression				Chemical Tests			Other tests and comments
Location	Depth (m)	Sample Ref	Type	Description	WC	LL	PL	PI	<425 µm	Bulk	Dry	Condition	Cell Pressure	Deviator Stress	Shear Stress	pH	2:1 W/S SO4	W/S Mg	
					%	%	%	%	%	Mg/m³	Mg/m³		kPa	kPa	kPa		g/L	mg/L	
TP8	0.90		D	Brownish grey and grey mottled CLAY with fine to medium chalk gravel.	15.7	52	19	33	93							8.5	< 0.010		
TP9	1.80		D	Brown and grey mottled CLAY with gravel.	18.5	49	20	29	86										
TP9 (or 4)	0.90		D	Greyish brown sandy silty CLAY with chalk gravel.	17.0	44	20	24	88										

Sample type: B (Bulk disturb.) BLK (Block) C (Core) D (Disturbed) LB (Large Bulk dist.) U (Undisturbed)

Checked and Approved by



S Burke - Senior Technician
30/01/2023

Project Number:

GEO / 37185

Project Name:

GREAT ASHBY, STEVENAGE
J22372





GEA

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Herts | 01727 824666 Notts | 01509 674888

SPT & Cohesion / Depth Graph

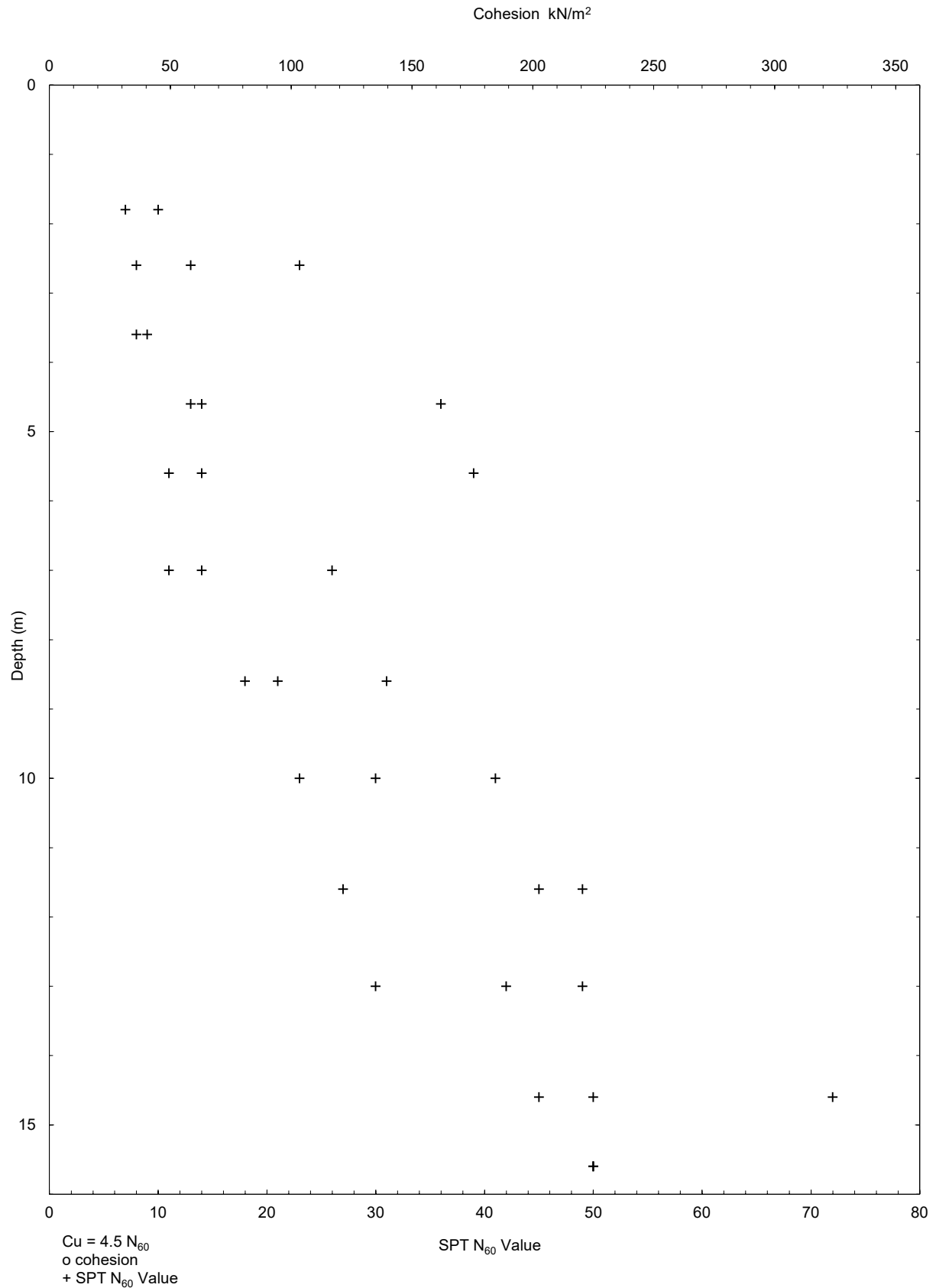
Site Great Ashby, Stevenage, Hertfordshire SG4 7EA

Client Picture Estates Limited

Engineer

Job Number
J22372

Sheet
1 / 1



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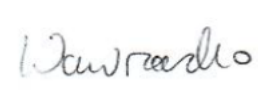
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Analytical Report Number : 22-14443

Project / Site name:	Great Ashby, Stevenage	Samples received on:	21/12/2022
Your job number:	J22372	Samples instructed on/ Analysis started on:	21/12/2022
Your order number:		Analysis completed by:	03/01/2023
Report Issue Number:	1	Report issued on:	03/01/2023
Samples Analysed:	10 soil samples		


Signed:

Joanna Wawrzeczko
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-14443
Project / Site name: Great Ashby, Stevenage

Lab Sample Number				2540955	2540956	2540957	2540958	2540959
Sample Reference				BH4	BH5	BH6	BH7	BH8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				20/12/2022	20/12/2022	20/12/2022	20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	20	12	16	17	20
Total mass of sample received	kg	0.001	NONE	0.5	0.5	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PDO	PDO	PDO	PDO	PDO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.7	7.7	7.4	7.4	7.2
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	420	320	340	360	560
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.18	0.0093	0.01	0.015	0.0094
Sulphide	mg/kg	1	MCERTS	1.3	< 1.0	< 1.0	< 1.0	2
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	5.1	1.9	4.2	4.3	1.9
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.3	1.2	1.4	1.7	1.6

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	0.07	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.05	0.06	< 0.05	< 0.05	0.24
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.06	0.08	< 0.05	< 0.05	0.28
Pyrene	mg/kg	0.05	MCERTS	0.06	0.07	< 0.05	< 0.05	0.26
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.14
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	0.13
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	< 0.80	< 0.80	1.05
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	27	13	14	19	21
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	20	26	30	38
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	11	16	19	21
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	26	30	29	36
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	32	16	17	29	37
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	78	44	47	64	68



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Lab Sample Number				2540955	2540956	2540957	2540958	2540959
Sample Reference				BH4	BH5	BH6	BH7	BH8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				20/12/2022	20/12/2022	20/12/2022	20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH (C8 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) EH_CU_1D_TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) EH_CU_1D_TOTAL	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) EH_CU_1D_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH (C21 - C35) EH_CU_1D_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH Total C8 - C35 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number: 22-14443
Project / Site name: Great Ashby, Stevenage

Lab Sample Number				2540960	2540961	2540963	2540964	2540966
Sample Reference				BH9	BH10	TP6	TP7	TP9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				20/12/2022	20/12/2022	20/12/2022	20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	14	16	28	18	35
Total mass of sample received	kg	0.001	NONE	0.5	0.8	0.5	0.5	0.5

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PDO	PDO	PDO	PDO	PDO

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.5	7.4	7.5	7.1	7.3
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	500	380	430	500	990
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.01	0.011	0.011	0.014	0.011
Sulphide	mg/kg	1	MCERTS	< 1.0	1.2	3.5	< 1.0	1.4
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	2.3	1.7	12	1.4	9.1
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.2	1.5	3	1.5	4.2

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.27	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.24	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.27	1.4	0.07
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.3	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.3	1.7	0.18
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	1.5	0.17
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.18	0.69	0.09
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.17	0.55	0.06
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.16	0.61	0.13
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.11	0.33	0.06
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.14	0.57	0.12
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.43	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.56	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	1.61	9.18	0.88
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	14	11	22	14
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	0.5
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	26	23	18	40	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	21	43	15	24	18
Lead (aqua regia extractable)	mg/kg	1	MCERTS	30	30	37	38	31
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	26	17	16	37	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	78	51	45	70	70

Analytical Report Number: 22-14443
 Project / Site name: Great Ashby, Stevenage

Lab Sample Number				2540960	2540961	2540963	2540964	2540966
Sample Reference				BH9	BH10	TP6	TP7	TP9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.10	0.10	0.10	0.10	0.10
Date Sampled				20/12/2022	20/12/2022	20/12/2022	20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Petroleum Hydrocarbons								
TPH C10 - C40 EH_CU_1D_TOTAL	mg/kg	10	MCERTS	< 10	< 10	< 10	21	< 10
TPH (C8 - C10) HS_1D_TOTAL	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH (C10 - C12) EH_CU_1D_TOTAL	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH (C12 - C16) EH_CU_1D_TOTAL	mg/kg	4	MCERTS	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TPH (C16 - C21) EH_CU_1D_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	7.3	< 1.0
TPH (C21 - C35) EH_CU_1D_TOTAL	mg/kg	1	MCERTS	< 1.0	< 1.0	1.8	11	1.7
TPH Total C8 - C35 EH_CU+HS_1D_TOTAL	mg/kg	10	NONE	< 10	< 10	< 10	18	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



Analytical Report Number : 22-14443
Project / Site name: Great Ashby, Stevenage

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2540955	BH4	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2540956	BH5	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2540957	BH6	None Supplied	0.1	Brown clay and loam with gravel and vegetation.
2540958	BH7	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540959	BH8	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540960	BH9	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540961	BH10	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540963	TP6	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540964	TP7	None Supplied	0.1	Brown clay and sand with gravel and vegetation.
2540966	TP9	None Supplied	0.1	Brown clay and sand with gravel and vegetation.

Analytical Report Number : 22-14443
Project / Site name: Great Ashby, Stevenage

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazine followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 22-14443
Project / Site name: Great Ashby, Stevenage

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

**Alex Taylor**

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Analytical Report Number : 23-10018

Project / Site name:	Great Ashby, Stevenage	Samples received on:	22/12/2022
Your job number:	J22372	Samples instructed on/ Analysis started on:	03/01/2023
Your order number:		Analysis completed by:	10/01/2023
Report Issue Number:	1	Report issued on:	10/01/2023
Samples Analysed:	2 soil samples		

Signed:

Joanna Wawrzeczko
Reporting Specialist
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 23-10018
Project / Site name: Great Ashby, Stevenage

Lab Sample Number				2544369	2544370
Sample Reference				TP1	TP8
Sample Number				None Supplied	None Supplied
Depth (m)				0.10	0.10
Date Sampled				20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	15
Moisture Content	%	0.01	NONE	16	13
Total mass of sample received	kg	0.001	NONE	1	1

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	DSA	DSA

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	7.9	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0
Total Sulphate as SO ₄	mg/kg	50	MCERTS	170	410
Water Soluble SO ₄ 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0042	0.006
Sulphide	mg/kg	1	MCERTS	< 1.0	< 1.0
Water Soluble Chloride (2:1)	mg/kg	1	MCERTS	< 1.0	2.5
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	0.3	1.7

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0
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Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80
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Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	12
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	7.5	12
Lead (aqua regia extractable)	mg/kg	1	MCERTS	13	25
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	18	13
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	44	40

Analytical Report Number: 23-10018
Project / Site name: Great Ashby, Stevenage

Lab Sample Number				2544369	2544370
Sample Reference				TP1	TP8
Sample Number				None Supplied	None Supplied
Depth (m)				0.10	0.10
Date Sampled				20/12/2022	20/12/2022
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status		

Petroleum Hydrocarbons

TPH C10 - C40 _{EH,CU,1D_TOTAL}	mg/kg	10	MCERTS	< 10	< 10
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TPH (C8 - C10) _{HS,1D_TOTAL}	mg/kg	0.1	NONE	< 0.1	< 0.1
TPH (C10 - C12) _{EH,CU,1D_TOTAL}	mg/kg	2	MCERTS	< 2.0	< 2.0
TPH (C12 - C16) _{EH,CU,1D_TOTAL}	mg/kg	4	MCERTS	< 4.0	< 4.0
TPH (C16 - C21) _{EH,CU,1D_TOTAL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH (C21 - C35) _{EH,CU,1D_TOTAL}	mg/kg	1	MCERTS	< 1.0	< 1.0
TPH Total C8 - C35 _{EH,CU+HS,1D_TOTAL}	mg/kg	10	NONE	< 10	< 10

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected

Analytical Report Number : 23-10018

Project / Site name: Great Ashby, Stevenage

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2544369	TP1	None Supplied	0.1	Brown clay and sand.
2544370	TP8	None Supplied	0.1	Brown loam and clay with gravel and stones.

Analytical Report Number : 23-10018

Project / Site name: Great Ashby, Stevenage

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Chloride, water soluble, in soil	Determination of Chloride colorimetrically by discrete analyser.	In house method.	L082-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Sulphide in soil	Determination of sulphide in soil by acidification and heating to liberate hydrogen sulphide, trapped in an alkaline solution then assayed by ion selective electrode.	In-house method	L010-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In house method.	L038-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Total cyanide in soil	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L009-PL	D	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
TPH Banding in Soil by FID	Determination of hexane extractable hydrocarbons in soil by GC-FID.	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	MCERTS

Analytical Report Number : 23-10018

Project / Site name: Great Ashby, Stevenage

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
D.O. for Gravimetric Quant if Screen/ID positive	Dependent option for Gravimetric Quant if Screen/ID positive scheduled.	In house asbestos methods A001 & A006.	A006-PL	D	NONE

For method numbers ending in 'UK or A' analysis have been carried out in our laboratory in the United Kingdom (WATFORD).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL or B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total

Sample Deviation Report



Analytical Report Number : 23-10018

Project / Site name: Great Ashby, Stevenage

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP1	None Supplied	S	2544369	c	Sulphide in soil	L010-PL	c
TP1	None Supplied	S	2544369	c	Total cyanide in soil	L080-PL	c
TP8	None Supplied	S	2544370	c	Sulphide in soil	L010-PL	c
TP8	None Supplied	S	2544370	c	Total cyanide in soil	L080-PL	c



Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number J22372
Client	Picture Estates Limited	Sheet 1 / 2
Engineer		

Proposed End Use **Residential with plant uptake**Soil Organic Matter content % **1.0**

Contaminant	Screening Value mg/kg	Data Source	Contaminant	Screening Value mg/kg	Data Source
Metals			Hydrocarbons		
Arsenic	37	C4SL	Banded TPH (8-10)	52	Calc1
Cadmium	26	C4SL	Banded TPH (10-12)	114	Calc1
Chromium (III)	910	S4UL	Banded TPH (12-16)	215	Calc1
Chromium (VI)	21	C4SL	Banded TPH (16-21)	400	Calc1
Copper	2,400	S4UL	Banded TPH (21-35)	1692	Calc1
Lead	200	C4SL	Benzene	0.2	C4SL
Elemental Mercury	1.2	S4UL	Toluene	120	SGV
Inorganic Mercury	40	S4UL	Ethyl Benzene	65	SGV
Nickel	180	S4UL	Xylene	42	SGV
Selenium	350	SGV	Aliphatic C5-C6	42	S4UL
Zinc	3,700	S4UL	Aliphatic C6-C8	100	S4UL
Anions			Aliphatic C8-C10	27	S4UL
Soluble Sulphate	500 mg/l	Structures	Aliphatic C10-C12	130	S4UL
Sulphide	50	Structures	Aliphatic C12-C16	1100	S4UL
Chloride	400	Structures	Aliphatic C16-C35	65,000	S4UL
Others			Aromatic C6-C7	See Benzene	S4UL
Organic Carbon (%)	6	Methanogenic potential	Aromatic C7-C8	See Toluene	S4UL
Total Cyanide	140	WRAS	Aromatic C8-C10	34	S4UL
Total Mono Phenols	184	SGV	Aromatic C10-C12	74	S4UL
PAH			Aromatic C12-C16	140	S4UL
Naphthalene	2.30	S4UL	Aromatic C16-C21	260	S4UL
Acenaphthylene	170	S4UL	Aromatic C21-C35	1100	S4UL
Acenaphthene	210	S4UL	PRO (C ₅ -C ₁₀)	323	Calc2
Fluorene	170	S4UL	DRO (C ₁₂ -C ₂₈)	66,500	Calc2
Phenanthrene	95	S4UL	Lube Oil (C ₂₈ -C ₄₄)	66,100	Calc2
Anthracene	2,400	S4UL	TPH	500	Trigger to consider speciated testing
Fluoranthene	280	S4UL	Chlorinated Solvents		
Pyrene	620	S4UL	1,1,1 trichloroethane (TCA)	8.8	S4UL
Benzo(a)anthracene	7.2	S4UL	tetrachloroethane (PCA)	1.2	S4UL
Chrysene	15	S4UL	tetrachloroethene (PCE)	0.31	C4SL
Benzo(b)fluoranthene	2.6	S4UL	trichloroethene (TCE)	0.0093	C4SL
Benzo(k)fluoranthene	77.0	S4UL	1,2-dichloroethane (DCA)	0.11	C4SL
Benzo(a)pyrene	4.35	C4SL	vinyl chloride (Chloroethene)	0.0064	C4SL
Indeno(1 2 3 cd)pyrene	27.0	S4UL	tetrachloromethane (Carbon tetra	0.026	S4UL
Dibenz(a h)anthracene	0.24	S4UL	trichloromethane (Chloroform)	0.91	S4UL
Benzo (g h i)perylene	320	S4UL			
Total PAH Screen	62.1	B(a)P / 0.15			

Notes

Concentrations measured below these screening values may be considered to represent 'uncontaminated conditions' which pose a 'LOW' risk to human health. Concentrations measured in excess of these values indicate a potential risk which require further, site specific risk assessment.

C4SL - Defra Category 4 Screening value based on Low Level of Toxicological Risk

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009 - where not superseded by C4SL

S4UL - LQM/CIEH Suitable for use Level (2015) based on 'minimal' level of risk

Calc1 - sum of thresholds for Ali & Aro fractions - assuming a 35% Aro:65% Ali ratio as is commonly encountered in the soil

Calc2 - sum of nearest available carbon range specified including BTEX for PRO fraction

Total PAH based on B(a)P / 0.15 - GEA experience indicates that Benzo(a) pyrene rarely exceeds 15% of the total PAH concentration



Site	Great Ashby, Stevenage, Hertfordshire SG4 7EA	Job Number J22372
Client	Picture Estates Limited	Sheet 2 / 2
Engineer		

Proposed End Use **Residential with plant uptake**

The key generic assumptions for this end use are as follows;

- ☐ that groundwater will not be a critical risk receptor;
- ☐ that the critical receptor for human health will be a young female aged 0 to 6 years old;
- ☐ that the exposure duration will be six years;
- ☐ that the building type equates to a terraced house.
- ☐ that the critical exposure pathways will be direct soil and indoor dust ingestion, consumption of home grown produce, consumption of soil adhering to home grown produce, skin contact with soils and dust, and inhalation of dust and vapours

Where contaminant concentrations are measured at concentrations below the generic screening value it is considered that they pose an acceptable level of risk and thus further consideration of these contaminant concentrations is not required. However, where concentrations are measured in excess of the generic screening value there is considered to be a potential that they could pose an unacceptable risk and thus further action will be required which could include:

- ☐ additional testing to zone the extent of the contaminated material and thus reduce the uncertainty with regard to its potential risk;
- ☐ site specific risk assessment to refine the assessment criteria and allow an assessment to be made as to whether the concentration present would pose an unacceptable risk at this site; or
- ☐ soil remediation or risk management to mitigate the risk posed by the contaminant to a degree that it poses an acceptable risk.



appendix c

Desk Study

Risk Assessment Tables
Envirocheck Extracts
Historical Maps

Classification of Consequence		
Classification	Definition	Examples
Severe	Short term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Catastrophic damage to buildings / property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within the Draft Circular on Contaminated Land, DETR, 2000).	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources (note: Water Resources Act contains no scope for considering significance of pollution). A significant change in a particular ecosystem, or organism forming part of such ecosystem (note: the definitions of ecological systems within Draft Circular on Contaminated Land, DETR, 2000).	Concentrations of a contaminant from site exceed the generic, or site-specific assessment criteria. Leaching of contaminants from a site to a major or minor aquifer Death of a species within a designated nature reserve.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ("significant harm" as defined in the Draft Circular of Contaminated Land, DETR, 2000). Damage to sensitive buildings / structures / services or the environment.	Pollution of non-classified groundwater Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discolouration of concrete.

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

**Risk Assessment Matrix**

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High likelihood	Very high risk	High risk	Moderate risk	Moderate / low risk
	Likely	High risk	Moderate risk	Moderate / low risk	Low risk
	Low likelihood	Moderate risk	Moderate / low risk	Low risk	Very low risk
	Unlikely	Moderate / low risk	Low risk	Very low risk	Very low risk

Description of the assessed risks and likely action required

Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

306456091_1_1

Customer Reference:

J22372

National Grid Reference:

526070, 227510

Slice:

A

Site Area (Ha):

53.13

Search Buffer (m):

1000

Site Details:

Dane End Farm, Weston

HITCHIN

SG4 7EA

Client Details:

Mr S Branch

GEA Ltd

Widbury Barn

Widbury Hill

Ware

Herts

SG12 7QE



Report Section	Page Number
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Waste	13
Hazardous Substances	-
Geological	15
Industrial Land Use	24
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Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes			n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		8		4
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 4				4
Integrated Pollution Prevention And Control	pg 4				6
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 6			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 6	Yes			
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 6		1		1
Water Industry Act Referrals	pg 6				3
Groundwater Vulnerability Map	pg 7	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 10	4	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Source Protection Zones	pg 10	1		1	
Extreme Flooding from Rivers or Sea without Defences				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
OS Water Network Lines	pg 11		3	2	7

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 13				1
Local Authority Landfill Coverage	pg 13	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 13		1	1	3
Potentially Infilled Land (Water)	pg 13		2		4
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 14				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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 15	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 15	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 18	1		2	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities	pg 19	1	1	2	4
Natural Cavities	pg 21			1	1
Non Coal Mining Areas of Great Britain	pg 21	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 22	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 22	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 22	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 24		9	17	103
Fuel Station Entries					
Points of Interest - Commercial Services	pg 35		2	3	38
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 39				25
Points of Interest - Public Infrastructure	pg 41				2
Points of Interest - Recreational and Environmental	pg 41	1	5	8	10
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 44	3	2	1	7
Areas of Adopted Green Belt	pg 44	1		1	
Areas of Unadopted Green Belt	pg 45	1			
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 45	3	1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NW (NE)	0	1	526072 227511
1	Discharge Consents Operator: Miss Julie Wood Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 3 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
1	Discharge Consents Operator: Mr Stephen Robert Price Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 3 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
1	Discharge Consents Operator: Mr Paul Travis Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 3 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
1	Discharge Consents Operator: Mr Paul Travis Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 2 Effective Date: 2nd February 2006 Issued Date: 2nd February 2006 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Land/Soakaway Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Miss Julie Wood Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 2 Effective Date: 2nd February 2006 Issued Date: 2nd February 2006 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
1	Discharge Consents Operator: Mr Stephen Robert Price Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 2 Effective Date: 2nd February 2006 Issued Date: 2nd February 2006 Revocation Date: 20th December 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
1	Discharge Consents Operator: Arthur Simms Homes Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Farm Weston Herts Sg4 7bs Authority: Environment Agency, Thames Region Catchment Area: Beane Reference: Canm.0620 Permit Version: 1 Effective Date: 9th October 2003 Issued Date: 14th October 2003 Revocation Date: 1st February 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (N)	78	2	525860 228170
2	Discharge Consents Operator: Trustees Of The Weston Settlement Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Tile Kiln Cottages, Weston, Hitchin, Hertfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CNTM.1957 Permit Version: 1 Effective Date: 9th August 1995 Issued Date: 9th August 1995 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Freshwater Stream/River Environment: Receiving Water: Tributary Of the River Beane Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A14NE (NW)	190	2	525700 228200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Botany Bay, Stevenagebotany Baystevenage Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0496 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Beane Status: Surrendered under EPR 2010 Positional Accuracy: Approximate location provided by supplier	A7NW (S)	539	2	526000 227000
3	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Botany Bay, Stevenagebotany Baystevenage Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0496 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: Beane Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Approximate location provided by supplier	A7NW (S)	539	2	526000 227000
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Martins Wood, Stevenagemartins Woodstevenage Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1479 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 13th October 2015 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Beane Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A3NE (S)	975	2	526300 226400
4	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Martins Wood, Stevenagemartins Woodstevenage Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1479 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: Beane Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m	A3NE (S)	975	2	526300 226400
5	Prosecutions Relating to Controlled Waters Location: River Beane, Cartwright Road, Stevenage, SG1 Prosecution Text: Failure to correct a drainage system fault led to the pollution of a watercourse Prosecution Act: Wra91 S85(1) Hearing Date: 12th October 2005 Verdict: Guilty Fine: 10000 Cost: 1656 Positional Accuracy: Manually positioned to the address or location	A7SW (S)	724	2	526261 226681

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Integrated Pollution Controls Name: Resolution Chemicals Ltd Location: Wedgwood Way, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency, Thames Region Permit Reference: BL4206 Dated: 11th January 2002 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the road within the address or location	A7NW (S)	602	2	525984 226928
6	Integrated Pollution Controls Name: Resolution Chemicals Ltd Location: Wedgwood Way, Stevenage, Hertfordshire, Sg1 4qt Authority: Environment Agency, Thames Region Permit Reference: Bu2268 Dated: 5th May 2003 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Revoked - Now IPPC Positional Accuracy: Manually positioned to the road within the address or location	A7NW (S)	637	2	525980 226890
7	Integrated Pollution Controls Name: Resolution Chemicals Ltd Location: Wedgwood Way, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency, Thames Region Permit Reference: AK5474 Dated: 1st March 1994 Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned within the geographical locality	A7NW (S)	710	2	525968 226812
7	Integrated Pollution Controls Name: Resolution Chemicals Ltd Location: Wedgwood Way, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency, Thames Region Permit Reference: BC6730 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.2 A (D) Manufacture and use of Organic Chemicals within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned within the geographical locality	A7NW (S)	715	2	525968 226807
8	Integrated Pollution Prevention And Control Name: Resolution Chemicals Limited Location: Pharmaceutical Activities Stevenage, Resolution Chemicals Ltd, Wedgwood Way,,, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: JP3133AB Original Permit Ref: Wp3939lu Effective Date: 9th March 2015 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A7NW (S)	519	2	525954 227006

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Integrated Pollution Prevention And Control Name: Resolutions Chemicals Ltd Location: Resolutions Chemicals Ltd, Resolution Chemicals Ltd, Wedgewood Way,,, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: HP3336NJ Original Permit Ref: Wp3939lu Effective Date: 1st October 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y	A7NW (S)	519	2	525954 227006
8	Integrated Pollution Prevention And Control Name: Resolutions Chemicals Ltd Location: Resolutions Chemicals Ltd, Resolution Chemicals Ltd, Wedgewood Way,,, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: RP3737XM Original Permit Ref: Wp3939lu Effective Date: 1st January 2009 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A7NW (S)	519	2	525954 227006
8	Integrated Pollution Prevention And Control Name: Resolutions Chemicals Ltd Location: Pharmaceutical Activities Stevenage, Resolution Chemicals Ltd, Wedgewood Way,,, stevenage, Herts, sg1 4qt Authority: Environment Agency - South East Region, North East Thames Area Permit Reference: WP3939LU Original Permit Ref: Wp3939lu Effective Date: 2nd October 2006 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y	A7NW (S)	519	2	525954 227006
9	Integrated Pollution Prevention And Control Name: Resolutions Chemicals Ltd Location: Resolutions Chemicals Ltd, Resolution Chemicals Ltd, Wedgewood Way,,, STEVENAGE, Hertfordshire, SG1 4QT Authority: Environment Agency, Thames Region Permit Reference: RP3737XM Original Permit Ref: Wp3939lu Effective Date: 1st January 2009 Status: Effective Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A6NE (S)	602	2	525899 226909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Integrated Pollution Prevention And Control Name: Resolutions Chemicals Ltd Location: Resolutions Chemicals Ltd, Resolution Chemicals Ltd, Wedgewood Way, Stevenage, SG1 4QT Authority: Environment Agency, Thames Region Permit Reference: WP3939LU Original Permit Ref: Wp3939lu Effective Date: 2nd October 2006 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 4.5 A(1) (A) Activity Description: Pharmaceuticals; Producing Pharmaceuticals Using Chemical/Biological Processes Primary Activity: Y	A7NW (S)	637	2	525978 226890
11	Local Authority Pollution Prevention and Controls Name: Great Ashby Dry Cleaners Location: Unit 5 The Neighbourhood Centre, Whitehorse Lane, Great Ashby, SG1 6NH Authority: North Hertfordshire District Council, Environmental Health Department Permit Reference: EPA/13187/08/P3 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning Status: Permitted Positional Accuracy: Manually positioned to the address or location	A10SE (SW)	256	3	525875 227257
	Nearest Surface Water Feature	A15SW (N)	0	-	526071 228146
12	Water Abstractions Operator: Mr J P Cherry Licence Number: 29/38/03/0045 Permit Version: 100 Location: Dane End Farm Well Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 2 Yearly Rate (m3): 830 Details: Dane End Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th June 1990 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12NE (E)	176	2	527000 227600
13	Water Abstractions Operator: F & D Allen Licence Number: 6/33/13/*G/0094 Permit Version: 100 Location: Well/Borehole At Manor Farm Authority: Environment Agency, Anglian Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: C Chalk 2; Status: Perpetuity Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st February 1995 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (W)	993	2	524700 227960
14	Water Industry Act Referrals Name: Md Plating Ltd Location: MD PLATING LTD, 21 WEDGWOOD GATE, 21 WEDGWOOD GATE, STEVENAGE, HERTFORDSHIRE, SG1 4SU Authority: Environment Agency, Thames Region Permit Reference: Bx9862 Dated: 27th May 2004 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Manually positioned to the address or location	A6SE (S)	726	2	525857 226780

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Water Industry Act Referrals Name: Propak Sheet Metal Ltd Location: PROPAK SHEET METAL LTD, 27 WEDGEWOOD WAY, 27 WEDGEWOOD WAY, STEVENAGE, HERTFORDSHIRE, SG1 4QF Authority: Environment Agency, Thames Region Permit Reference: AP5102 Dated: 22nd December 1994 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorised Positional Accuracy: Automatically positioned to the address	A6SE (S)	731	2	525925 226783
16	Water Industry Act Referrals Name: Propak Sheet Metal Ltd Location: PROPAK SHEET METAL LTD, UNIT 9 WEDGEWOOD WAY, PIN GREEN IND EST, STEVENAGE, HERTFORDSHIRE, SG1 4QF Authority: Environment Agency, Thames Region Permit Reference: AB4559 Dated: 29th October 1991 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application cancelled Positional Accuracy: Manually positioned to the address or location	A6SE (S)	817	2	525876 226690
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A11NW (NW)	0	4	526000 227676
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A11NW (NW)	0	4	526000 227620
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A11SW (SW)	0	4	526000 227471

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Principle Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: No Data Superficial Recharge:	A11NW (NE)	0	4	526072 227511
	Groundwater Vulnerability Map Combined Principle Bedrock Aquifer - High Vulnerability Classification: High Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: <3m Superficial Thickness: Low Superficial Recharge:	A15SW (N)	0	4	526000 228000
	Groundwater Vulnerability Map Combined Secondary Superficial Aquifer - Medium Vulnerability Classification: Medium Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial >90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A15SW (N)	0	4	526041 228000
	Groundwater Vulnerability Map Combined Principle Bedrock Aquifer - Medium Vulnerability Classification: Medium Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial <90% Patchiness: 3-10m Superficial Thickness: Low Superficial Recharge:	A11NW (NW)	0	4	526000 227646

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: Low	A11NW (W)	0	4	526000 227501
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A15SE (NE)	0	4	526397 227847
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (N)	0	4	526067 227547
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A11NW (S)	0	4	526072 227499

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A15SW (N)	0	4	526072 228000
	Groundwater Vulnerability Map Combined Classification: Principle Bedrock Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A15SW (N)	0	4	526256 228000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - Moderate Possibility	A11NW (W)	0	4	526000 227511
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A11NW (NE)	0	4	526072 227511
	Groundwater Vulnerability - Soluble Rock Risk Classification: Very Significant Risk - Moderate Possibility	A15SW (N)	0	4	526000 228000
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A15SW (N)	0	4	526072 228000
	Bedrock Aquifer Designations Aquifer Designation: Principal Aquifer	A11NW (NE)	0	4	526072 227511
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A11NW (NE)	0	4	526072 227511
17	Source Protection Zones Name: Not Supplied 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.	A11NW (NE)	0	2	526072 227511
18	Source Protection Zones Name: Not Supplied 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.	A8NE (SE)	462	2	527152 227006
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Defences None				
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 669.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A11SE (SE)	9	5	526463 227248
20	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 397.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7NW (S)	140	5	526159 227109
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A10NE (NW)	148	5	525684 227804
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (E)	265	5	526919 227282
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 423.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SW (E)	268	5	526925 227282
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	678	5	527142 226934
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 306.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	684	5	527145 226929
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SE (W)	826	5	524989 227229
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SE (W)	827	5	524987 227230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SE (W)	827	5	524987 227230
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (SE)	899	5	527134 226645
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8SE (SE)	978	5	527248 226642

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Licensed Waste Management Facilities (Locations) Licence Number: 401423 Location: Unit 1, Eastman Way, Stevenage, Hertfordshire, SG1 4SZ Operator Name: Ultratec Limited Operator Location: Not Supplied Authority: Environment Agency - Thames Region, North East Area Site Category: WEEE treatment facility Licence Status: Issued Issued: 29th May 2014 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (S)	629	2	526121 226891
	Local Authority Landfill Coverage Name: Hertfordshire County Council - Has supplied landfill data		0	6	526072 227511
	Local Authority Landfill Coverage Name: North Hertfordshire District Council - Has supplied landfill data		0	3	526072 227511
	Local Authority Landfill Coverage Name: Stevenage Borough Council - Has supplied landfill data		278	7	526025 227089
	Local Authority Landfill Coverage Name: East Hertfordshire District Council - Has supplied landfill data		295	8	526968 227282
32	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A14NE (NW)	227	-	525712 228256
33	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A14SW (NW)	269	-	525428 227932
34	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A6NW (SW)	685	-	525421 226914
35	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A5NE (SW)	821	-	525110 227013
36	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1994	A8SW (SE)	849	-	526713 226503
37	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A10SE (W)	78	-	525922 227466
38	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A14NE (NW)	199	-	525742 228234
39	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A7NW (S)	611	-	526010 226926
40	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A7NW (S)	732	-	526043 226810
41	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A5NE (SW)	952	-	524990 226955
42	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1960	A13SW (W)	954	-	524746 227869

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
43	Registered Waste Treatment or Disposal Sites Licence Holder: C Hemmings Licence Reference: 92/281 Site Location: Unit 3 Parsons Green, Boulton Road, Stevenage, Hertfordshire Operator Location: 63 Westell Close, BALDOCK, Hertfordshire, SG7 6RY Authority: Environment Agency - Thames Region, North East Area Site Category: Scrapyard Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Non-Ferrous Metal Scrap Prohibited Waste: Waste N.O.S.	A7NE (S)	589	2	526311 226806

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: White Chalk Subgroup	A11NW (NE)	0	1	526072 227511
	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: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A11NW (NE)	0	1	526072 227511
	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: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NW (W)	0	1	526000 227501
	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: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A11NW (NW)	0	1	526000 227646
	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: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SW (N)	0	1	526256 228000
	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: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SW (N)	0	1	526072 228000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A15SE (NE)	0	1	526397 227847

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 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A15SW (N)	0	1	526000 228000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11NW (S)	0	1	526072 227499
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11SE (SE)	17	1	526383 227189
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NE (E)	136	1	526962 227571
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A11SW (S)	215	1	526000 227267
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A10SW (W)	239	1	525552 227400

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: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15NE (NE)	260	1	526576 228266
	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: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A16NW (NE)	279	1	526754 228235
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13SE (NW)	537	1	525151 227943
	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: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (NW)	555	1	525138 228000
	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 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (SE)	565	1	526772 226708
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	(NW)	763	1	525213 228579

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 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A5NE (SW)	767	1	525189 227000
	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: 40 - 60 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (W)	882	1	524824 227832
44	BGS Recorded Mineral Sites Site Name: Brooches Wood Chalk Pit Location: Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166637 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A11NE (E)	0	1	526394 227579
45	BGS Recorded Mineral Sites Site Name: Tilekiln Wood Chalk Pit Location: Graveley, Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166635 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A14SW (NW)	271	1	525425 227939
46	BGS Recorded Mineral Sites Site Name: Tilekiln Farm Brick Field Location: Weston, Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166636 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Anglian Geology: Lowestoft Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14NE (NW)	321	1	525668 228331
47	BGS Recorded Mineral Sites Site Name: Wellfield Chalk Pit Location: Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166603 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A6NW (SW)	690	1	525409 228915

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	BGS Recorded Mineral Sites Site Name: Duckdell Plantation Chalk Pit Location: Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166638 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A5NE (SW)	822	1	525107 227015
49	BGS Recorded Mineral Sites Site Name: Box Wood Chalk Pit Location: Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166644 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	846	1	526714 226507
50	BGS Recorded Mineral Sites Site Name: Chesfield Manor Chalk Pit Location: Graveley, Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 166634 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A13SW (W)	912	1	524787 227878
51	BGS Recorded Mineral Sites Site Name: St Nicholas Chalk Mine Location: St Nicholas, Stevenage, Hertfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 220967 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Cretaceous Geology: White Chalk Subgroup Commodity: Chalk Positional Accuracy: Located by supplier to within 10m	A6SW (SW)	990	1	525571 226535
	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: 526080 Northing: 228160 Distance: 0 Quadrant Reference: A15 Quadrant Reference: NW Bearing Ref: N Cavity Type: Possible Chalk Mining Location For Old Bricks Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Head Detail:	A15NW (N)	0	9	526080 228160

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 525700 Northing: 227900 Distance: 59 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Possible Chalk Mining Location For Old Bricks Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Lowestoft Formation Detail:	A14SE (NW)	59	9	525700 227900
	Man-Made Mining Cavities Easting: 526300 Northing: 227000 Distance: 429 Quadrant Reference: A7 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Possible Chalkwells/Bell Pits Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Glacial Till Detail:	A7NE (SE)	429	9	526300 227000
	Man-Made Mining Cavities Easting: 525490 Northing: 228430 Distance: 489 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: NW Cavity Type: Possible Chalk Mining Location For Old Bricks Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Lowestoft Formation Detail:	A14NW (NW)	489	9	525490 228430
	Man-Made Mining Cavities Easting: 526000 Northing: 227000 Distance: 539 Quadrant Reference: A7 Quadrant Reference: NW Bearing Ref: S Cavity Type: Chalkwell or Bell Pit Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A7NW (S)	539	9	526000 227000
	Man-Made Mining Cavities Easting: 525700 Northing: 226900 Distance: 609 Quadrant Reference: A6 Quadrant Reference: NE Bearing Ref: SW Cavity Type: Shaft Entry Chalk Mine/Possible multiple Chalkwells-Exact Details Unknown Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Glacial Till Detail:	A6NE (SW)	609	9	525700 226900
	Man-Made Mining Cavities Easting: 526700 Northing: 226600 Distance: 752 Quadrant Reference: A8 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Possible Chalkwells/Bell Pits Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A8SW (SE)	752	9	526700 226600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 526200 Northing: 226600 Distance: 823 Quadrant Reference: A7 Quadrant Reference: SW Bearing Ref: S Cavity Type: Chalkwell or Bell Pit Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology: Glacial Till Detail:	A7SW (S)	823	9	526200 226600
	Natural Cavities Easting: 525900 Northing: 227150 Distance: 365 Quadrant Reference: A10 Quadrant Reference: SE Bearing Ref: SW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group Superficial Geology: Head Detail:	A10SE (SW)	365	9	525900 227150
	Natural Cavities Easting: 525700 Northing: 226600 Distance: 907 Quadrant Reference: A6 Quadrant Reference: SE Bearing Ref: S Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology: Glacial sand, Glacial Till and morainic drift Detail:	A6SE (S)	907	9	525700 226600
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SW)	0	1	526021 227468
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	526373 227954
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	27	1	526795 227795
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	97	1	526334 227060
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NE (E)	182	1	527033 227641
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	207	1	526404 227062
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	212	1	526346 228473

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	239	1	525552 227400
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	526397 227847
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (S)	0	1	526072 227499
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NW (E)	22	1	526816 227512
	Potential for Landslide Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	40	1	526827 227478
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	103	1	526327 228335
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	104	1	526778 227396
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	224	1	526086 227353
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	526397 227847
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (S)	0	1	526072 227499
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	40	1	526827 227478
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	97	1	526334 227060
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SW (S)	0	1	526068 227462
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	526397 227847
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11NW (S)	0	1	526072 227499
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	40	1	526827 227478
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A11NW (NE)	0	1	526072 227511

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	Contemporary Trade Directory Entries Name: Feelclean Location: 32, Grampian Place, Stevenage, Hertfordshire, SG1 6DR Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A11NW (NW)	13	-	525974 227557
53	Contemporary Trade Directory Entries Name: Shiron Domestic Appliances Location: Grampian Pl, Stevenage, Hertfordshire, SG1 6DR Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A10NE (W)	46	-	525930 227504
54	Contemporary Trade Directory Entries Name: Jobs U Hate Uk Location: 15, Mendip Way, Stevenage, Hertfordshire, SG1 6GG Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A10NE (W)	113	-	525664 227621
55	Contemporary Trade Directory Entries Name: The Good Cleaning Company Location: 35, Blackdown Close, STEVENAGE, Hertfordshire, SG1 6AY Classification: Commercial Cleaning Services Status: Active Positional Accuracy: Automatically positioned to the address	A11SW (SW)	149	-	525949 227401
56	Contemporary Trade Directory Entries Name: Buying Bug Ltd Location: 82, MENDIP WAY, GREAT ASHBY, STEVENAGE, SG1 6GQ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A10NW (W)	198	-	525573 227634
57	Contemporary Trade Directory Entries Name: Herts & Beds Caravan Services Location: 2, Tilekiln Cottage, Weston, HITCHIN, Hertfordshire, SG4 7BS Classification: Caravans - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NE (N)	199	-	525765 228254
58	Contemporary Trade Directory Entries Name: Maid 2 Clean Stevenage Location: 93, Cleveland Way, Stevenage, Hertfordshire, SG1 6BH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SW (S)	234	-	526126 227322
58	Contemporary Trade Directory Entries Name: Maid 2 Clean Location: 93, Cleveland Way, Stevenage, Hertfordshire, SG1 6BH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A11SW (S)	234	-	526126 227322
59	Contemporary Trade Directory Entries Name: S Krezolek Services Ltd Location: 24, Great Gables, Stevenage, SG1 6GL Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A10NW (W)	248	-	525504 227553
60	Contemporary Trade Directory Entries Name: Bright & Beautiful Location: 35, The Beacons, Stevenage, SG1 6EB Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A10SW (W)	251	-	525574 227344
61	Contemporary Trade Directory Entries Name: Great Ashby Dry Cleaners Location: Unit 5a, The Neighbourhood Centre, Whitehorse Lane, Stevenage, SG1 6NH Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A10SE (SW)	255	-	525872 227257
62	Contemporary Trade Directory Entries Name: Holmes Cleaning & Ironing Location: 20, Lomond Way, Stevenage, Hertfordshire, SG1 6AJ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SE)	362	-	526421 227006

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Contemporary Trade Directory Entries Name: T C Materials Location: 35, Serpentine Close, Stevenage, Hertfordshire, SG1 6AP Classification: Recycling Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SE)	432	-	526469 226917
64	Contemporary Trade Directory Entries Name: Clean Of Herts Location: 51, Whitehorse Lane, Stevenage, Hertfordshire, SG1 6NJ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	436	-	526011 227117
65	Contemporary Trade Directory Entries Name: Design Print Location: 4, Whitworth Road, Stevenage, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	451	-	525915 227066
65	Contemporary Trade Directory Entries Name: Design Print Location: 4, Whitworth Road, Stevenage, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	451	-	525915 227066
65	Contemporary Trade Directory Entries Name: Design Print Colour Profile Location: 4, Whitworth Road, Stevenage, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	451	-	525915 227066
65	Contemporary Trade Directory Entries Name: Grovewood Location: 4, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	451	-	525915 227066
65	Contemporary Trade Directory Entries Name: L P L Solutions Location: 3, Whitworth Road, STEVENAGE, Hertfordshire, SG1 4QS Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	457	-	525935 227064
66	Contemporary Trade Directory Entries Name: Laniwyn Kitchens Location: 7, Finbracks, STEVENAGE, Hertfordshire, SG1 6HB Classification: Catering Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A10NW (W)	452	-	525326 227701
67	Contemporary Trade Directory Entries Name: Printhut.Co.Uk Location: Pin Green Industrial Estate, Stevenage, Hertfordshire, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A6NE (SW)	473	-	525831 227032
67	Contemporary Trade Directory Entries Name: Printhut.Co.Uk Location: Pin Green Industrial Estate, Stevenage, Hertfordshire, SG1 4QS Classification: Printers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A6NE (SW)	473	-	525831 227032
67	Contemporary Trade Directory Entries Name: J P D Ltd Location: Unit 1, Senate Place, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Plastic Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (SW)	473	-	525831 227032
67	Contemporary Trade Directory Entries Name: Printhut.Co.Uk Location: Pin Green Industrial Estate, Stevenage, Hertfordshire, SG1 4QS Classification: Printers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A6NE (SW)	473	-	525831 227032

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	Contemporary Trade Directory Entries Name: Oxy Dry (Uk) Inc Location: Unit 2, Senate Place, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Printing Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (SW)	489	-	525822 227016
68	Contemporary Trade Directory Entries Name: Personalised Cardboard Cutouts Location: 137, Mendip Way, STEVENAGE, Hertfordshire, SG1 6GD Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A10NW (W)	481	-	525274 227502
69	Contemporary Trade Directory Entries Name: C P Parts Ltd Location: Whitworth Rd, Stevenage, Hertfordshire, SG1 4QS Classification: Filter Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (S)	502	-	525955 227024
70	Contemporary Trade Directory Entries Name: Premier Tape Converters Ltd Location: Niall House, 24-26, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	506	-	526260 226934
71	Contemporary Trade Directory Entries Name: Fire Fighting Enterprises Ltd Location: 5, Wedgwood Court, Wedgwood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	507	-	526048 227055
71	Contemporary Trade Directory Entries Name: L B P Optics Ltd Location: Unit 5, Wedgwood Court, Wedgwood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Optical Goods - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	507	-	526048 227055
71	Contemporary Trade Directory Entries Name: Contour Fine Tooling Location: Unit 4, Wedgwood Court, Wedgwood Way, Stevenage, SG1 4QR Classification: Machine Tools - Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	521	-	526027 227030
71	Contemporary Trade Directory Entries Name: British Parts Uk Location: Unit 3, Wedgwood Court, Wedgwood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	524	-	526018 227023
72	Contemporary Trade Directory Entries Name: Cygnet Sous Vide Ltd Location: Senate Place, Whitworth Rd, Stevenage, Hertfordshire, SG1 4QS Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (SW)	518	-	525850 226988
72	Contemporary Trade Directory Entries Name: Chic Childrens Wear Location: Unit 4, Senate Place, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Children & Babywear - Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (SW)	549	-	525825 226955
72	Contemporary Trade Directory Entries Name: Rock & Co Location: Unit 5, Senate Place, Whitworth Road, Stevenage, SG1 4QS Classification: Kitchen Furniture Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	550	-	525847 226956

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Contemporary Trade Directory Entries Name: Switchgear International Location: Unit 5, Senate Place, Whitworth Road, Stevenage, SG1 4QS Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	558	-	525842 226947
72	Contemporary Trade Directory Entries Name: Suntek Computers Ltd Location: Unit 5, Senate Place, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	558	-	525842 226947
72	Contemporary Trade Directory Entries Name: Pi Medica Location: Unit 6, Senate Place, Whitworth Road, Stevenage, Hertfordshire, SG1 4QS Classification: Chemists' & Pharmacists' Suppliers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	569	-	525861 226938
73	Contemporary Trade Directory Entries Name: Advanced Technical Services Ltd Location: Unit 9, Wedgewood Court, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	527	-	526080 227029
73	Contemporary Trade Directory Entries Name: Hydrophil Ltd Location: Unit 7, Wedgewood Court, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Plastics - Coating Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	527	-	526080 227029
73	Contemporary Trade Directory Entries Name: Veritas Digital Services Ltd Location: Unit 10, Wedgewood Court, Wedgewood Way, Stevenage, SG1 4QR Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	537	-	526091 227015
73	Contemporary Trade Directory Entries Name: E-Quality Components Ltd Location: Unit 10, Wedgewood Court, Wedgewood Way, Stevenage, SG1 4QR Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	537	-	526091 227015
74	Contemporary Trade Directory Entries Name: J M J Sheet Metals Location: 11, Boulton Road, Stevenage, SG1 4QX Classification: Sheet Metal Work Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (S)	532	-	526284 226886
74	Contemporary Trade Directory Entries Name: J M J Precision Sheet Metal Ltd Location: 11, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Sheet Metal Work Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (S)	533	-	526290 226881
75	Contemporary Trade Directory Entries Name: Hertfordshire Metal Finishing Ltd Location: Unit 40, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	544	-	525890 226967
75	Contemporary Trade Directory Entries Name: Reeces Motor Body Repair Location: Unit 40, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	544	-	525890 226967

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	Contemporary Trade Directory Entries Name: Timmins Engineering Ltd Location: 41-42, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	551	-	525915 226963
75	Contemporary Trade Directory Entries Name: Stevenage Auto Repair Centres Ltd Location: Unit 38, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	560	-	525889 226950
76	Contemporary Trade Directory Entries Name: N A S A Marine Ltd Location: 20, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Marine Electrical & Electronic Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	574	-	526221 226877
76	Contemporary Trade Directory Entries Name: Rosebourne A P L E Ltd Location: Unit 2, 20, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	574	-	526221 226877
76	Contemporary Trade Directory Entries Name: Rosebourne Aple Location: 20, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	574	-	526221 226877
76	Contemporary Trade Directory Entries Name: Alroy Microwave & Electronics Ltd Location: Unit 1 Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	577	-	526193 226895
76	Contemporary Trade Directory Entries Name: Lavender Medical Ltd Location: Unit 4 Niall House, 24 Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NW (S)	581	-	526228 226864
76	Contemporary Trade Directory Entries Name: Cks Global Solutions Ltd Location: 24-26, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	585	-	526224 226862
76	Contemporary Trade Directory Entries Name: C K S Global Solutions Location: 24-26, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Computer Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	585	-	526224 226862
76	Contemporary Trade Directory Entries Name: Phase 2 Microwave Location: 1a, Boulton Road, Stevenage, SG1 4QX Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	589	-	526200 226875
76	Contemporary Trade Directory Entries Name: O-Vee Spring Gauges Ltd Location: Unit 3, 24-26, Boulton Road, Stevenage, SG1 4QX Classification: Gauge Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	614	-	526202 226842
77	Contemporary Trade Directory Entries Name: Hi Point Autos Location: 30, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (S)	574	-	526303 226827

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
77	Contemporary Trade Directory Entries Name: Ashby Motors Location: 30 Boulton Rd, Stevenage, Hertfordshire, SG1 4QX Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7NE (S)	575	-	526302 226826
77	Contemporary Trade Directory Entries Name: Orion Safety Belts Location: 3, Parsons Green Estate, Boulton Road, Stevenage, SG1 4QG Classification: Belting Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (S)	582	-	526310 226814
77	Contemporary Trade Directory Entries Name: Akd Location: 5, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Radio Communication Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (S)	594	-	526313 226800
77	Contemporary Trade Directory Entries Name: Fuel-Drain Contaminated Fuel Evacuation Services Location: Unit 7 Parsons Green Industrial Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Manually positioned to the address or location	A7SE (S)	620	-	526290 226782
77	Contemporary Trade Directory Entries Name: Fuel Drain Location: 7, Parsons Green Estate, Boulton Road, STEVENAGE, Hertfordshire, SG1 4QG Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (S)	623	-	526291 226778
78	Contemporary Trade Directory Entries Name: Rosebourne A P L E Ltd Location: Unit 2, 20, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address	A7NW (S)	578	-	526149 226934
78	Contemporary Trade Directory Entries Name: Clear Sell Ltd Location: Boulton Rd, Stevenage, Hertfordshire, SG1 4QX Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7NW (S)	581	-	526152 226928
79	Contemporary Trade Directory Entries Name: Gold Star Vehicle Maintenance Location: Unit 35, Wedgewood Way, Stevenage, SG1 4QT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	597	-	525900 226914
79	Contemporary Trade Directory Entries Name: Barry Jones Auto Centre Ltd Location: Unit 34, Wedgewood Way, Stevenage, SG1 4QT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	599	-	525908 226913
79	Contemporary Trade Directory Entries Name: A J S Tyres Ltd Location: Unit 36, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	599	-	525888 226910
79	Contemporary Trade Directory Entries Name: Resolution Chemicals Ltd Location: Unit 35, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	602	-	525899 226909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	Contemporary Trade Directory Entries Name: Chemical Solution Supplies Ltd Location: Unit 39 Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Cleaning Materials & Equipment Status: Active Positional Accuracy: Manually positioned within the geographical locality	A6NE (S)	607	-	525933 226910
79	Contemporary Trade Directory Entries Name: Presidence Carpet Care Location: Stevenage, Hertfordshire, Sg1 4qt Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A6NE (S)	607	-	525933 226910
79	Contemporary Trade Directory Entries Name: A B H Automotive Ltd Location: Unit 33, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	608	-	525917 226906
79	Contemporary Trade Directory Entries Name: Keene Location: Unit 31, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6NE (S)	608	-	525916 226906
79	Contemporary Trade Directory Entries Name: S Keene Auto'S Location: Unit 31-32, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (S)	612	-	525933 226904
79	Contemporary Trade Directory Entries Name: S Keene Autos Ltd Location: Unit 31, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	612	-	525933 226904
79	Contemporary Trade Directory Entries Name: Stevenage Air Conditioning Location: Unit 31, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QT Classification: Air Conditioning Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (S)	612	-	525933 226904
80	Contemporary Trade Directory Entries Name: Formula One Autocentres Stevenage (Boulton Road) Location: Aston House, 18, Boulton Road, Stevenage, SG1 4QX Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (S)	613	-	526038 226935
80	Contemporary Trade Directory Entries Name: Formula One Autocentres Location: Aston House, 18, Boulton Road, Stevenage, Hertfordshire, SG1 4QX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	613	-	526038 226935
81	Contemporary Trade Directory Entries Name: Turnmill E D M Ltd Location: 19, Parsons Green Estate, Boulton Road, STEVENAGE, Hertfordshire, SG1 4QG Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	627	-	526237 226803
81	Contemporary Trade Directory Entries Name: Diamond Print Ltd Location: 21, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	627	-	526237 226803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Contemporary Trade Directory Entries Name: Diamond Print Ltd Location: 20-21, Parsons Green Estate, Boulton Road, STEVENAGE, Hertfordshire, SG1 4QG Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A7SW (S)	627	-	526237 226803
81	Contemporary Trade Directory Entries Name: Colin Hemmings Location: 15, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Scrap Metal Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	664	-	526206 226778
81	Contemporary Trade Directory Entries Name: Stevenage Scrap Metal Ltd Location: Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Scrap Metal Merchants Status: Active Positional Accuracy: Manually positioned to the address or location	A7SW (S)	673	-	526207 226767
81	Contemporary Trade Directory Entries Name: Technical Concepts Location: The Neutrall Centre, 4, Eastman Way, Stevenage, Hertfordshire, SG1 4UH Classification: Hygiene & Cleansing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	688	-	526166 226776
82	Contemporary Trade Directory Entries Name: T L A & G R P Specialists Ltd Location: 10, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Glass Fibre Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A7SW (S)	636	-	526266 226776
82	Contemporary Trade Directory Entries Name: Propack Films Location: 12, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Packaging & Wrapping Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	636	-	526266 226776
82	Contemporary Trade Directory Entries Name: Herts Cleaning Equipment Location: 7, Parsons Green Estate, Boulton Road, Stevenage, Hertfordshire, SG1 4QG Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Manually positioned to the address or location	A7SW (S)	636	-	526266 226776
82	Contemporary Trade Directory Entries Name: S G Webb & Son Engineering Ltd Location: 11, Parsons Green Estate, Boulton Road, STEVENAGE, Hertfordshire, SG1 4QG Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A7SW (S)	642	-	526261 226772
83	Contemporary Trade Directory Entries Name: Arrow Generics Location: 2, Stevenage Business Park, Eastman Way, Stevenage, Hertfordshire, SG1 4SZ Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	648	-	526127 226859
83	Contemporary Trade Directory Entries Name: Harlequin Location: Unit 2, Stevenage Business Park, Eastman Way, Stevenage, SG1 4SZ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	648	-	526127 226859
84	Contemporary Trade Directory Entries Name: Regal Sterling Location: 16, Thirlmere, Stevenage, Hertfordshire, SG1 6AH Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SE)	689	-	526475 226656

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Contemporary Trade Directory Entries Name: E T S - Lindgren Location: Stevenage Business Park, 4, Eastman Way, Stevenage, Hertfordshire, SG1 4SZ Classification: Filter Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	703	-	526148 226772
86	Contemporary Trade Directory Entries Name: Ironing Maidens Location: 42, Tamar Close, Stevenage, Hertfordshire, SG1 6AS Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A5NE (SW)	708	-	525175 227117
87	Contemporary Trade Directory Entries Name: R H Logistics Location: Stevenage Business Pk, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SX Classification: Transport Equipment - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (S)	715	-	525986 226811
88	Contemporary Trade Directory Entries Name: Prestec Supplies Ltd Location: 5 Stevenage Business Pk, Eastman Way, Stevenage, Hertfordshire, SG1 4SZ Classification: Distribution Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (S)	724	-	526064 226814
89	Contemporary Trade Directory Entries Name: M D Plating Ltd Location: Unit 21, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Metal Finishing Services Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	726	-	525857 226780
89	Contemporary Trade Directory Entries Name: Voltronic Ltd Location: Unit 18, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QF Classification: Transformer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	730	-	525878 226778
89	Contemporary Trade Directory Entries Name: P & E Skinner Location: Unit 17, Wedgewood Gate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QF Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6SE (S)	731	-	525885 226777
89	Contemporary Trade Directory Entries Name: P & E Skinner Location: Unit 17, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Printed Circuit Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	732	-	525885 226777
89	Contemporary Trade Directory Entries Name: Discount Tiles Direct Location: Unit 13, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Tile Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6SE (S)	764	-	525882 226744
89	Contemporary Trade Directory Entries Name: Speedcut-Diamond Drilling & Chasing Services Location: Unit 14, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Drilling & Boring Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	766	-	525889 226743
89	Contemporary Trade Directory Entries Name: Arkle Electronic Systems Location: Unit 15, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Electronic Equipment - Manufacturers & Assemblers Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	766	-	525893 226743

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
89	Contemporary Trade Directory Entries Name: M D Plating Ltd Location: Unit 15, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Metal Finishing Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	768	-	525895 226741
90	Contemporary Trade Directory Entries Name: Allied Bakeries Location: Cartwright Road, Stevenage, SG1 4QA Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	728	-	526265 226675
91	Contemporary Trade Directory Entries Name: Hpc Industrial Products Location: Unit 5 Eastman Way, Pin Green Indust Est, Stevenage, Hertfordshire, SG1 4SZ Classification: Adhesives, Glues & Sealants Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7SW (S)	746	-	526064 226784
91	Contemporary Trade Directory Entries Name: Nemco Ltd Location: Stevenage Business Park, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SX Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	769	-	526030 226767
92	Contemporary Trade Directory Entries Name: Autolock Electrical Services Location: 69, Tamar Close, Stevenage, Hertfordshire, SG1 6AS Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SE (W)	765	-	525068 227196
93	Contemporary Trade Directory Entries Name: Ryan & Gray Location: Unit 2, Wedgwood Court, Wedgwood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Ceramic Manufacturers, Supplies & Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	776	-	525928 226737
93	Contemporary Trade Directory Entries Name: Advanced Windows (Uk) Location: Unit 3-4, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	789	-	525926 226724
93	Contemporary Trade Directory Entries Name: R C Automotive Herts Ltd Location: UNIT 5, WEDGWOOD GATE, STEVENAGE, SG1 4QB Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	813	-	525930 226700
93	Contemporary Trade Directory Entries Name: Printed Systems Ltd Location: Unit 6, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, SG1 4SU Classification: Printed Circuit Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	825	-	525928 226688
93	Contemporary Trade Directory Entries Name: European Memory Ltd Location: Wedgewood Gate Ind Est, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A7SW (S)	828	-	525952 226689
94	Contemporary Trade Directory Entries Name: Pitstop Motorist Centre Location: 7, Cartwright Road, Stevenage, Hertfordshire, SG1 4QJ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	783	-	526105 226704

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Contemporary Trade Directory Entries Name: Town & Country Pest Control Location: 8, Exeter Close, Stevenage, Hertfordshire, SG1 4PN Classification: Pest & Vermin Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SW (SW)	801	-	525570 226728
96	Contemporary Trade Directory Entries Name: Pi Medica Location: Unit 5, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	812	-	525923 226701
96	Contemporary Trade Directory Entries Name: Danglo Ltd Location: Unit 9/10, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Manually positioned to the address or location	A6SE (S)	817	-	525877 226690
96	Contemporary Trade Directory Entries Name: Integrated Business Technology Ltd Location: Unit 9, Wedgwood Court, Wedgwood Way, Stevenage, Hertfordshire, SG1 4QR Classification: Photocopiers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	817	-	525877 226690
96	Contemporary Trade Directory Entries Name: Printed Systems Location: Unit 6, Wedgewood Gate Industrial Estate, Wedgewood Way, Stevenage, Hertfordshire, SG1 4SU Classification: Printed Circuit Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SE (S)	823	-	525922 226689
96	Contemporary Trade Directory Entries Name: Beattie Transport Location: Unit 6, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	823	-	525922 226689
96	Contemporary Trade Directory Entries Name: Q S Ingredients Location: Unit 6, Wedgewood Way, Stevenage, Hertfordshire, SG1 4QB Classification: Confectionery Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	855	-	525897 226654
97	Contemporary Trade Directory Entries Name: Greenwood Motor Sport Location: 1, Cartwright Road, Stevenage, Hertfordshire, SG1 4QJ Classification: Classic Car Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	834	-	526118 226634
97	Contemporary Trade Directory Entries Name: A C S L Precision Engineers Location: 3, Cartwright Road, Stevenage, SG1 4QJ Classification: Precision Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A7SW (S)	836	-	526124 226628
98	Contemporary Trade Directory Entries Name: A G Cleaning Location: 17, Southwark Close, Stevenage, Hertfordshire, SG1 4PG Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SW (SW)	916	-	525573 226610
99	Contemporary Trade Directory Entries Name: Angel Maids Location: 351, Canterbury Way, Stevenage, Hertfordshire, SG1 4EH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A6SW (SW)	924	-	525356 226677

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
100	Contemporary Trade Directory Entries Name: Goldie Pets Party Bakery & Supply Ltd Location: Moxham House, Giles Crescent, Stevenage, SG1 4GU Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Automatically positioned to the address	A6SE (S)	954	-	525905 226555
101	Contemporary Trade Directory Entries Name: Mastercare Service Location: Wedgewood Way, Stevenage, Hertfordshire, SG1 4UU Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	984	-	526086 226479
101	Contemporary Trade Directory Entries Name: Dixons Distribution Location: Wedgewood Way, Stevenage, Hertfordshire, SG1 4UU Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SW (S)	984	-	526086 226479
102	Contemporary Trade Directory Entries Name: Chesfield Restoration Location: Manor Farm, Church Lane, Graveley, Hitchin, Hertfordshire, SG4 7BN Classification: Antiques - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	992	-	524701 227954
102	Contemporary Trade Directory Entries Name: Chesfield Restoration Location: Manor Farm, Church Lane, Graveley, Hitchin, Hertfordshire, SG4 7BN Classification: Furniture - Repairing & Restoring Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	992	-	524701 227954
103	Points of Interest - Commercial Services Name: Buying Bug Ltd Location: 82 Mendip Way, Great Ashby, Stevenage, SG1 6GQ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A10NW (W)	198	10	525573 227634
104	Points of Interest - Commercial Services Name: Valet 4 U Location: 55 Lomond Way, Stevenage, SG1 6BT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A7NE (SE)	222	10	526535 227118
105	Points of Interest - Commercial Services Name: T C Materials Location: 35 Serpentine Close, Stevenage, SG1 6AP Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A7NE (SE)	432	10	526468 226917
106	Points of Interest - Commercial Services Name: L P L Solutions Location: 3 Whitworth Road, Stevenage, SG1 4QS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (S)	457	10	525935 227064
107	Points of Interest - Commercial Services Name: News & Food Distributors Ltd Location: Unit 1 Senate Place, Whitworth Road, Stevenage, SG1 4QS Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6NE (SW)	475	10	525836 227030
108	Points of Interest - Commercial Services Name: J M J Sheet Metals Location: 11 Boulton Road, Stevenage, SG1 4QX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A7NE (S)	533	10	526290 226881
108	Points of Interest - Commercial Services Name: J M J Precision Sheet Metal Ltd Location: 11 Boulton Road, Stevenage, SG1 4QX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A7NE (S)	533	10	526290 226881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Points of Interest - Commercial Services Name: J M J Precision Sheet Metal Ltd Location: 11 Boulton Road, Stevenage, SG1 4QX Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A7NE (S)	533	10	526290 226881
108	Points of Interest - Commercial Services Name: Hi Point Autos Ltd Location: 30 Boulton Road, Stevenage, SG1 4QX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (S)	574	10	526303 226827
108	Points of Interest - Commercial Services Name: Hi Point Autos Location: 30 Boulton Road, Stevenage, SG1 4QX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (S)	581	10	526291 226825
109	Points of Interest - Commercial Services Name: Barry Jones Location: Unit 43, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (S)	559	10	525939 226960
109	Points of Interest - Commercial Services Name: Stevenage Auto Repair Centres Location: Unit 38, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	560	10	525889 226950
109	Points of Interest - Commercial Services Name: Stevenage Auto Repair Centres Ltd Location: Unit 38, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	562	10	525894 226949
109	Points of Interest - Commercial Services Name: Gold Star Vehicle Maintenance Location: Unit 35, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	597	10	525900 226914
109	Points of Interest - Commercial Services Name: Barry Jones Auto Centre Ltd Location: Unit 34, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	599	10	525908 226913
109	Points of Interest - Commercial Services Name: A B H Automotive Ltd Location: Unit 33, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	601	10	525917 226913
109	Points of Interest - Commercial Services Name: Gold Star Vehicle Maintenance Location: Unit 35, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	602	10	525899 226909
109	Points of Interest - Commercial Services Name: S Keene Autos Ltd Location: Unit 31, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	612	10	525933 226904
109	Points of Interest - Commercial Services Name: S Keene Autos Location: Unit 31-32, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	612	10	525933 226904

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Points of Interest - Commercial Services Name: S Keene Autos Ltd Location: Unit 31-32, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	612	10	525933 226904
109	Points of Interest - Commercial Services Name: S Keene Auto's Location: Unit 31-32, Wedgewood Way, Stevenage, SG1 4QT Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	613	10	525933 226904
110	Points of Interest - Commercial Services Name: Rosebourne A P L E Ltd Location: Unit 2 20, Boulton Road, Stevenage, SG1 4QX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (S)	574	10	526221 226877
110	Points of Interest - Commercial Services Name: A & G Transport Services Ltd Location: 20 Boulton Road, Stevenage, SG1 4QX Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (S)	574	10	526221 226877
111	Points of Interest - Commercial Services Name: Formula One Autocentres Location: Aston House 18, Boulton Road, Stevenage, SG1 4QX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (S)	613	10	526038 226935
111	Points of Interest - Commercial Services Name: Formula One Autocentres Location: Aston House 18, Boulton Road, Stevenage, SG1 4QX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (S)	613	10	526038 226935
111	Points of Interest - Commercial Services Name: Formula One Autocentres Ltd Location: Aston House 18, Boulton Road, Stevenage, SG1 4QX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NW (S)	613	10	526038 226935
112	Points of Interest - Commercial Services Name: Autolex Location: 17 Parsons Green Estate, Boulton Road, Stevenage, SG1 4QG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SW (S)	661	10	526202 226784
112	Points of Interest - Commercial Services Name: Autolex Location: 17 Parsons Green Estate, Boulton Road, Stevenage, SG1 4QG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SW (S)	664	10	526206 226778
112	Points of Interest - Commercial Services Name: Colin Hemmings Location: 15 Parsons Green Estate, Boulton Road, Stevenage, SG1 4QG Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A7SW (S)	664	10	526206 226778
112	Points of Interest - Commercial Services Name: R H Logistics Location: 3 Stevenage Business Park, Eastman Way, Stevenage, SG1 4SZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SW (S)	672	10	526188 226781
112	Points of Interest - Commercial Services Name: R.H. Logistics Ltd Location: 3 Stevenage Business Park, Eastman Way, Stevenage, SG1 4SZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7SW (S)	672	10	526188 226781

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
112	Points of Interest - Commercial Services Name: Stevenage Scrap Metal Ltd Location: Boulton Road, Stevenage, SG1 4QG Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A7SW (S)	673	10	526207 226767
112	Points of Interest - Commercial Services Name: Stevenage Scrap Metal Location: 15 Parsons Green Estate, Boulton Road, Stevenage, SG1 4QG Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A7SW (S)	675	10	526205 226766
113	Points of Interest - Commercial Services Name: A G S Windscreens Location: Unit 22, Wedgwood Gate, Stevenage, SG1 4SU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6NE (S)	695	10	525862 226812
114	Points of Interest - Commercial Services Name: Autolock Electrical Services Location: 69 Tamar Close, Stevenage, SG1 6AS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9SE (W)	765	10	525068 227196
115	Points of Interest - Commercial Services Name: Pitstop Motorist Centre Location: 7 Cartwright Road, Stevenage, SG1 4QJ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SW (S)	784	10	526104 226703
116	Points of Interest - Commercial Services Name: Town & Country Pest Control Location: 8 Exeter Close, Stevenage, SG1 4PN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A6SW (SW)	801	10	525570 226728
116	Points of Interest - Commercial Services Name: Town & Country Pest Control Services Location: 8 Exeter Close, Stevenage, SG1 4PN Category: Contract Services Class Code: Pest and Vermin Control Positional Accuracy: Positioned to address or location	A6SW (SW)	801	10	525570 226728
117	Points of Interest - Commercial Services Name: R.C. Motors Location: Unit 5, Wedgwood Way, Stevenage, SG1 4QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6SE (S)	812	10	525923 226701
117	Points of Interest - Commercial Services Name: R C Motors Location: Unit 5, Wedgwood Gate, Stevenage, SG1 4QB Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6SE (S)	813	10	525930 226700
117	Points of Interest - Commercial Services Name: Beattie Bros (Transport) Ltd Location: Unit 6, Wedgwood Way, Stevenage, SG1 4QB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6SE (S)	823	10	525922 226689
117	Points of Interest - Commercial Services Name: Beattie Transport Location: Unit 6, Wedgwood Way, Stevenage, SG1 4QB Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A6SE (S)	858	10	525907 226652
118	Points of Interest - Commercial Services Name: R F C Towbar Services Location: 56 Ely Close, Stevenage, SG1 4NW Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A6SE (S)	946	10	525778 226559

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	Points of Interest - Manufacturing and Production Name: Works Location: SG1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (S)	513	10	526285 226908
119	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NE (S)	514	10	526283 226907
120	Points of Interest - Manufacturing and Production Name: Rock & Co Granite Ltd Location: Unit 5 Senate Place, Whitworth Road, Stevenage, SG1 4QS Category: Extractive Industries Class Code: Stone Quarrying and Preparation Positional Accuracy: Positioned to address or location	A6NE (S)	550	10	525847 226956
120	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	574	10	525920 226941
120	Points of Interest - Manufacturing and Production Name: Works Location: SG1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6NE (S)	574	10	525920 226941
121	Points of Interest - Manufacturing and Production Name: Works Location: SG1 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	577	10	526201 226889
121	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	578	10	526195 226893
122	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	616	10	526040 226932
123	Points of Interest - Manufacturing and Production Name: Stevenage Business and Industrial Park Location: SG1 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	674	10	526122 226829
123	Points of Interest - Manufacturing and Production Name: Industrial Park Location: SG1 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	707	10	526066 226835
124	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	716	10	525893 226793
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	767	10	525937 226748

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	779	10	525935 226736
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	782	10	525888 226726
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	790	10	525933 226724
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	805	10	525845 226700
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	807	10	525856 226699
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	813	10	525930 226700
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	813	10	525886 226695
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	816	10	525896 226693
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	824	10	525927 226689
125	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	858	10	525908 226652
126	Points of Interest - Manufacturing and Production Name: Pin Green Industrial Estate Location: SG1 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	809	10	526110 226668
126	Points of Interest - Manufacturing and Production Name: Pin Green Industrial Estate Location: SG1 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7SW (S)	812	10	526110 226665

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Points of Interest - Manufacturing and Production Name: Tank Location: SG1 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	965	10	525865 226541
128	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: SG1 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8SW (SE)	698	10	526696 226654
129	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: SG1 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A3NE (S)	937	10	526394 226417
130	Points of Interest - Recreational and Environmental Name: Playground Location: Cromdale Walk, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A10NE (W)	0	10	525801 227532
130	Points of Interest - Recreational and Environmental Name: Playground Location: The Chilterns, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10SE (W)	53	10	525770 227452
131	Points of Interest - Recreational and Environmental Name: Playground Location: Merrick Close, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10NE (NW)	68	10	525791 227653
132	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A11SE (SE)	73	10	526536 227271
133	Points of Interest - Recreational and Environmental Name: Playground Location: Fairfield Crescent, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10NW (W)	169	10	525584 227554
134	Points of Interest - Recreational and Environmental Name: Playground Location: Cleveland Way, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A11SW (SE)	248	10	526270 227265
135	Points of Interest - Recreational and Environmental Name: Playground Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A10NW (W)	297	10	525490 227689
136	Points of Interest - Recreational and Environmental Name: Playground Location: Back Lane, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A10NW (W)	392	10	525367 227766
137	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6NE (SW)	423	10	525622 227108

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
137	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6NE (SW)	425	10	525665 227092
137	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6NE (SW)	467	10	525602 227068
137	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Pilgrims Way, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6NE (SW)	470	10	525602 227065
138	Points of Interest - Recreational and Environmental Name: Playground Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8NW (SE)	453	10	526655 226896
138	Points of Interest - Recreational and Environmental Name: Playground Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (SE)	507	10	526665 226842
139	Points of Interest - Recreational and Environmental Name: Playground Location: Great Ashby Way, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NW (S)	482	10	526129 227062
140	Points of Interest - Recreational and Environmental Name: Playground Location: Bray Drive, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9SE (W)	560	10	525221 227374
141	Points of Interest - Recreational and Environmental Name: Playground Location: Calder Way, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9SE (W)	690	10	525072 227437
142	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	874	10	525350 226737
142	Points of Interest - Recreational and Environmental Name: Playground Location: Ripon Road, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A6SW (SW)	880	10	525285 226769
142	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6SW (SW)	890	10	525269 226767
143	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A6SE (S)	905	10	525921 226606

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	Points of Interest - Recreational and Environmental Name: Playground Location: Canterbury Way, SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A5SE (SW)	972	10	525178 226732
144	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A5SE (SW)	983	10	525165 226728
145	Points of Interest - Recreational and Environmental Name: Play Area Location: SG1 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	980	10	526188 226433

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
146	Ancient Woodland Name: Tilekiln Wood Reference: 1116108 Area(m ²): 62832.12 Type: Ancient and Semi-Natural Woodland	A10NE (NW)	0	11	525823 227717
147	Ancient Woodland Name: Tilekiln Wood Reference: 1116108 Area(m ²): 16707.57 Type: Plantation on Ancient Woodland	A10NE (NW)	0	11	525863 227782
148	Ancient Woodland Name: Brooches Wood Reference: 1116111 Area(m ²): 20670.79 Type: Ancient and Semi-Natural Woodland	A11NW (NE)	0	11	526072 227511
149	Ancient Woodland Name: Claypithills Spring Reference: 1116115 Area(m ²): 37234.83 Type: Ancient and Semi-Natural Woodland	A11SE (SE)	75	11	526556 227225
150	Ancient Woodland Name: Claypithills Spring Reference: 1116115 Area(m ²): 8595.99 Type: Plantation on Ancient Woodland	A11SE (SE)	178	11	526604 227161
151	Ancient Woodland Name: Claypits Wood Reference: 1116107 Area(m ²): 27385.75 Type: Ancient and Semi-Natural Woodland	A14NW (NW)	409	11	525563 228382
152	Ancient Woodland Name: Wellfield Wood Reference: 1116110 Area(m ²): 48477.77 Type: Ancient and Semi-Natural Woodland	A6NE (SW)	533	11	525785 226972
153	Ancient Woodland Name: Park Wood Reference: 1116112 Area(m ²): 54163.47 Type: Plantation on Ancient Woodland	(N)	590	11	526297 228883
154	Ancient Woodland Name: Stonesley Woods Reference: 1116106 Area(m ²): 27766.18 Type: Ancient and Semi-Natural Woodland	A13NE (NW)	670	11	525046 228163
155	Ancient Woodland Name: Not Supplied Reference: 1414262 Area(m ²): 15043.73 Type: Ancient and Semi-Natural Woodland	A7SE (S)	688	11	526390 226648
156	Ancient Woodland Name: Box Wood Reference: 1116116 Area(m ²): 111093.49 Type: Ancient and Semi-Natural Woodland	A7SE (S)	773	11	526402 226477
157	Ancient Woodland Name: Box Wood Reference: 1116116 Area(m ²): 262575.76 Type: Plantation on Ancient Woodland	A8SW (SE)	839	11	526886 226565
158	Ancient Woodland Name: Stonesley Woods Reference: 1116106 Area(m ²): 20861.29 Type: Plantation on Ancient Woodland	A13NE (NW)	851	11	524958 228416
159	Areas of Adopted Green Belt Authority: North Hertfordshire District Council Plan Name: North Hertfordshire District Local Plan Status: Adopted Plan Date: 30th April 1996	A11NW (NE)	0	12	526072 227511

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	Areas of Adopted Green Belt Authority: East Hertfordshire District Council Plan Name: East Hertfordshire District Plan Status: Adopted Plan Date: 23rd October 2018	A12SE (E)	295	13	526967 227280
161	Areas of Unadopted Green Belt Authority: North Hertfordshire District Council Plan Name: North Hertfordshire Local Plan Status: Submission Draft Plan Date: 11th April 2017	A10NE (NW)	0	12	525918 227682
162	Nitrate Vulnerable Zones Name: Anglian Chalk Description: Groundwater Source: Environment Agency, Head Office	A11NW (NE)	0	4	526072 227511
163	Nitrate Vulnerable Zones Name: Lee Nvz Description: Surface Water Source: Environment Agency, Head Office	A11NW (NE)	0	4	526072 227511
164	Nitrate Vulnerable Zones Name: Buntingford Chalk Description: Groundwater Source: Environment Agency, Head Office	A11SE (E)	0	4	526591 227358
165	Nitrate Vulnerable Zones Name: Great Ouse Nvz Description: Surface Water Source: Environment Agency, Head Office	A14SE (NW)	78	4	525650 228050

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices East Hertfordshire District Council - Environmental Health Department Environment Agency - Head Office North Hertfordshire District Council - Environmental Health Department Stevenage Borough Council - Environmental Health Department	January 2013 June 2020 October 2017 October 2017	Annual Rolling Update Annually Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Anglian Region Environment Agency - Thames Region	October 2022 October 2022	Quarterly Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	
Integrated Pollution Controls Environment Agency - Thames Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region	October 2022 October 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Stevenage Borough Council - Environmental Health Department East Hertfordshire District Council - Environmental Health Department North Hertfordshire District Council - Environmental Health Department	April 2015 January 2014 September 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Stevenage Borough Council - Environmental Health Department East Hertfordshire District Council - Environmental Health Department North Hertfordshire District Council - Environmental Health Department	April 2015 January 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Stevenage Borough Council - Environmental Health Department East Hertfordshire District Council - Environmental Health Department North Hertfordshire District Council - Environmental Health Department	April 2015 January 2014 September 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	December 2022	
Pollution Incidents to Controlled Waters Environment Agency - Anglian Region Environment Agency - Thames Region	September 1999 September 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	October 2022 October 2022	Quarterly Quarterly
Water Abstractions Environment Agency - Anglian Region Environment Agency - Thames Region	October 2022 October 2022	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2022	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	January 2023	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	October 2022 October 2022	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - North East Thames Area Environment Agency - Thames Region - North East Area	July 2022 July 2022	Quarterly Quarterly
Local Authority Landfill Coverage East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit North Hertfordshire District Council - Environmental Health Department Stevenage Borough Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites East Hertfordshire District Council - Environmental Health Department Hertfordshire County Council - Spatial Planning and Economy Unit North Hertfordshire District Council - Environmental Health Department Stevenage Borough Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Thames Region - North East Area	March 2006	Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - North East Area	April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - North East Area	June 2015	
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements East Hertfordshire District Council Hertfordshire County Council - Spatial Planning and Economy Unit North Hertfordshire District Council Stevenage Borough Council	April 2015 February 2016 February 2016 February 2016	Variable Variable Variable Variable
Planning Hazardous Substance Consents East Hertfordshire District Council Hertfordshire County Council - Spatial Planning and Economy Unit North Hertfordshire District Council Stevenage Borough Council	April 2015 February 2016 February 2016 February 2016	Variable Variable Variable Variable

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	January 2023	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2022	Quarterly
Points of Interest - Education and Health PointX	December 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2022	Quarterly
Points of Interest - Public Infrastructure PointX	December 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually

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

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 NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	North Hertfordshire District Council - Environmental Health Department Council Offices, Gernon Road, Letchworth, Hertfordshire, SG6 3JF	Telephone: 01462 474000 Fax: 01462 474559 Website: www.north-herts.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	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
7	Stevenage Borough Council - Environmental Health Department Daneshill House, Danestrete, Stevenage, Hertfordshire, SG1 1HN	Telephone: 01438 242242 Fax: 01438 740296 Website: www.stevenage.gov.uk
8	East Hertfordshire District Council - Environmental Health Department Wallfields, Pegs Lane, Hertford, Hertfordshire, SG13 8EQ	Telephone: 01992 531491 Website: www.eastherts.gov.uk
9	Stantec UK Ltd Caversham Bridge House, Waterman Place, Reading, RG1 8DN	Telephone: 0118 950 0761 Email: pba.reading@stantec.com Website: www.stantec.com
10	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
11	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
12	North Hertfordshire District Council Council Offices, Gernon Road, Letchworth, Hertfordshire, SG6 3JF	Telephone: 01462 474000 Fax: 01462 474558 Website: www.north-herts.gov.uk
13	East Hertfordshire District Council Wallfields, Pegs Lane, Hertford, Hertfordshire, SG13 8EQ	Telephone: 01279 655261 Fax: 01992 552280 Website: www.eastherts.gov.uk
14	Stevenage Borough Council Daneshill House, Danestrete, Stevenage, Hertfordshire, SG1 1HN	Telephone: 01438 242242 Fax: 01438 740296 Website: www.stevenage.gov.uk
-	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

Contact	Name and Address	Contact Details
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

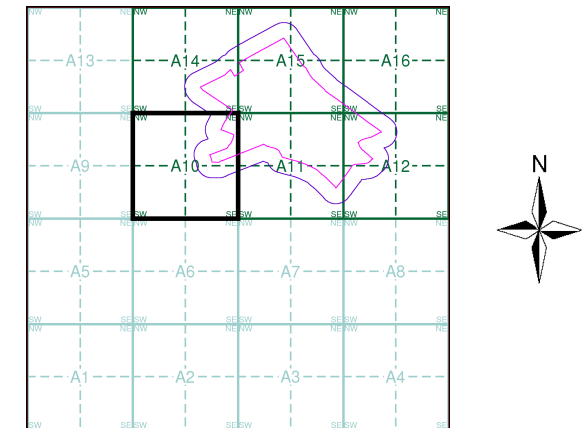
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
- ### Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ### Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- ### Geological
- BGS Recorded Mineral Site
- ### Waste
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A10



Order Details

Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Plot Buffer (m): 100

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA

Landmark
INFORMATION GROUP

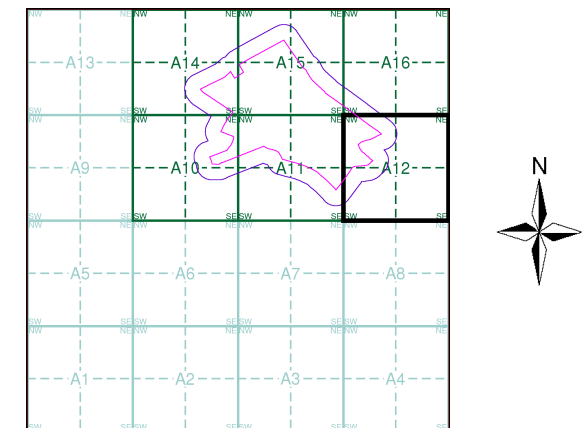
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



General

- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
 - Pylon
 - Overhead Transmission Line
- ### Agency and Hydrological
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- ### Hazardous Substances
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- ### Waste
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site

Site Sensitivity Map - Segment A12



Order Details

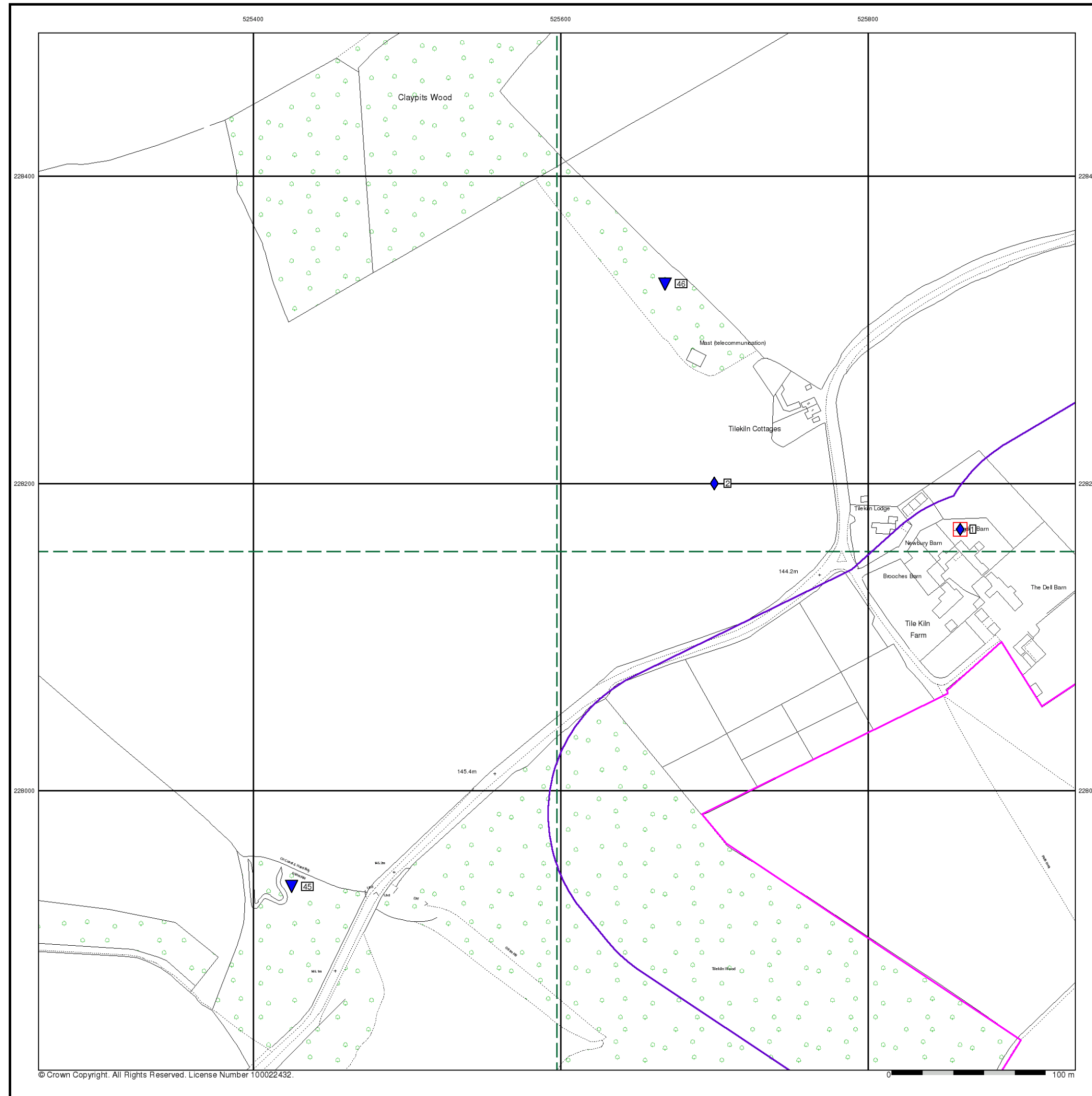
Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Plot Buffer (m): 100

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA

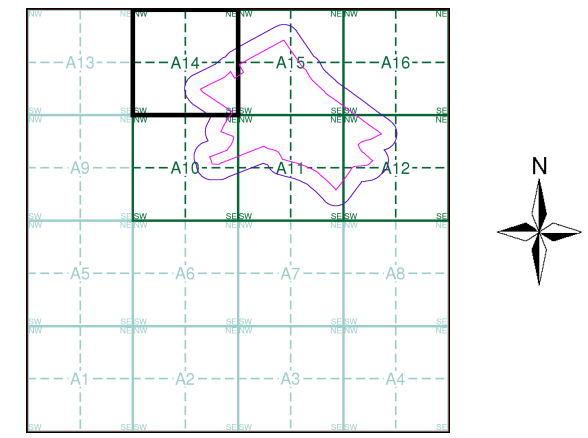
Landmark
INFORMATION GROUP

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



- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- Agency and Hydrological**
 - Several of Type at Location
 - Pylon
 - Overhead Transmission Line
 - 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
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
 - COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
 - BGS Recorded Mineral Site

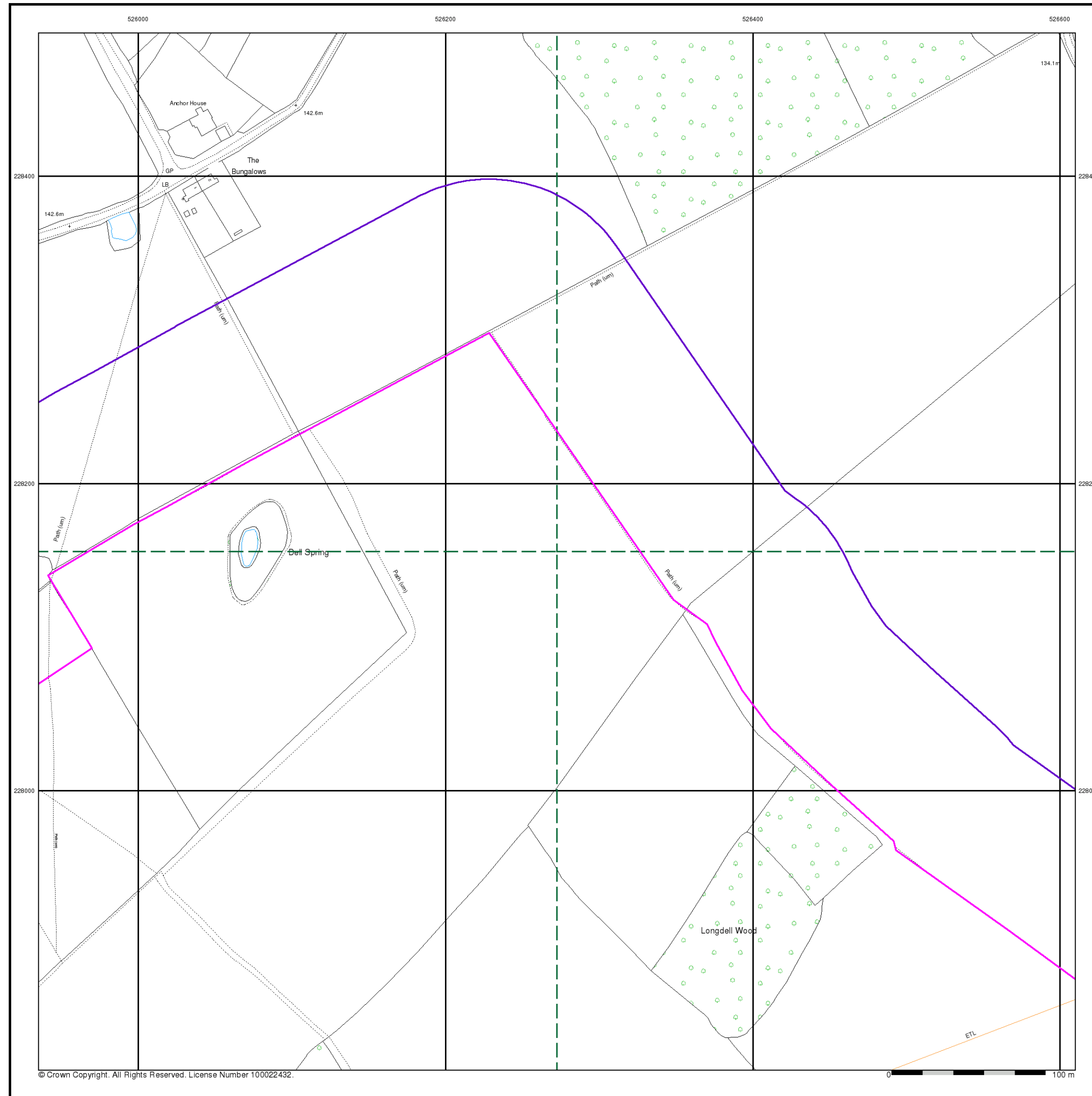
Site Sensitivity Map - Segment A14



Order Details
Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Plot Buffer (m): 100

Site Details
Dane End Farm, Weston, HITCHIN, SG4 7EA

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



General

- Specified Site

Specified Buffer(s)

Bearing Reference Point

Map ID
- Several of Type at Location

Pylon

Overhead Transmission Line
- 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
- BGS Recorded Landfill Site (Location)

BGS Recorded Landfill Site

EA Historic Landfill (Buffered Point)

EA Historic Landfill (Polygon)

Integrated Pollution Control Registered Waste Site

Licensed Waste Management Facility (Landfill Boundary)

Licensed Waste Management Facility (Location)

Local Authority Recorded Landfill Site (Location)

Local Authority Recorded Landfill Site

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Non-water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Potentially Infilled Land (Water)

Registered Landfill Site

Registered Landfill Site (Location)

Registered Landfill Site (Point Buffered to 100m)

Registered Landfill Site (Point Buffered to 250m)

Registered Waste Transfer Site (Location)

Registered Waste Transfer Site

Registered Waste Treatment or Disposal Site (Location)

Registered Waste Treatment or Disposal Site
- COMAH Site

Explosive Site

NIHHS Site

Planning Hazardous Substance Consent

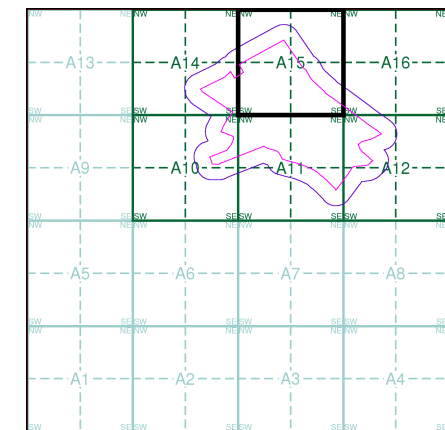
Planning Hazardous Substance Enforcement

BGS Recorded Mineral Site

Hazardous Substances

Geological

Site Sensitivity Map - Segment A15



Order Details

Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Plot Buffer (m): 100

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA



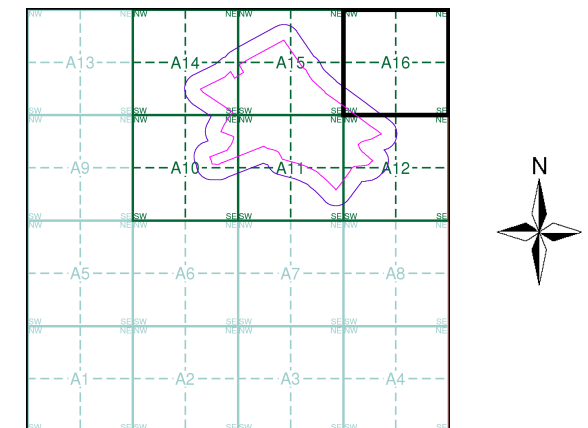
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



General

- | | | | | | | | |
|---|--|---|--|---|--|---|--------|
|  | Specified Site |  | Specified Buffer(s) |  | Bearing Reference Point |  | Map ID |
|  | Several of Type at Location |  | Pylon |  | Overhead Transmission Line | | |
| Agency and Hydrological | | | | Waste | | | |
|  | Contaminated Land Register Entry or Notice (Location) |  | BGS Recorded Landfill Site (Location) |  | BGS Recorded Landfill Site | | |
|  | Contaminated Land Register Entry or Notice |  | EA Historic Landfill (Buffered Point) |  | EA Historic Landfill (Polygon) | | |
|  | Discharge Consent |  | Integrated Pollution Control Registered Waste Site |  | Licensed Waste Management Facility (Landfill Boundary) | | |
|  | Enforcement or Prohibition Notice |  | Integrated Pollution Control Registered Waste Site |  | Licensed Waste Management Facility (Location) | | |
|  | Integrated Pollution Prevention Control |  | Local Authority Recorded Landfill Site (Location) |  | Local Authority Recorded Landfill Site | | |
|  | Local Authority Integrated Pollution Prevention and Control |  | Potentially Infilled Land (Non-water) |  | Potentially Infilled Land (Non-water) | | |
|  | Local Authority Pollution Prevention and Control |  | Potentially Infilled Land (Non-water) |  | Potentially Infilled Land (Non-water) | | |
|  | Local Authority Pollution Prevention and Control Enforcement |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Pollution Incident to Controlled Waters |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Prosecution Relating to Authorised Processes |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Prosecution Relating to Controlled Waters |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Registered Radioactive Substance |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | River Network or Water Feature |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | River Quality Sampling Point |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Substantiated Pollution Incident Register |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Water Abstraction |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
|  | Water Industry Act Referral |  | Potentially Infilled Land (Water) |  | Potentially Infilled Land (Water) | | |
| Hazardous Substances | | | | Waste | | | |
|  | COMAH Site |  | Explosive Site |  | Registered Landfill Site | | |
|  | NIHHS Site |  | Explosive Site |  | Registered Landfill Site (Location) | | |
|  | Planning Hazardous Substance Consent |  | Explosive Site |  | Registered Landfill Site (Point Buffered to 100m) | | |
|  | Planning Hazardous Substance Enforcement |  | Explosive Site |  | Registered Landfill Site (Point Buffered to 250m) | | |
| Geological | | | |  | Registered Waste Transfer Site (Location) | | |
|  | BGS Recorded Mineral Site |  | Explosive Site |  | Registered Waste Transfer Site | | |
| | |  | Explosive Site |  | Registered Waste Treatment or Disposal Site (Location) | | |
| | |  | Explosive Site |  | Registered Waste Treatment or Disposal Site | | |

Site Sensitivity Map - Segment A16



Order Details

Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Plot Buffer (m): 100

Site Details

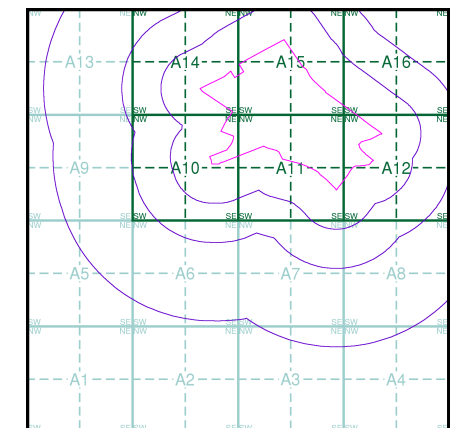
Dane End Farm, Weston, HITCHIN, SG4 7EA

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INFORMATION GROUP

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Web: www.envirocheck.co.uk

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- 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
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 - Registered Radioactive Substance
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- Waste**
- BGS Recorded Landfill Site (Location)
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 - Registered Landfill Site (Location)
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 - Registered Waste Transfer Site (Location)
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 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A

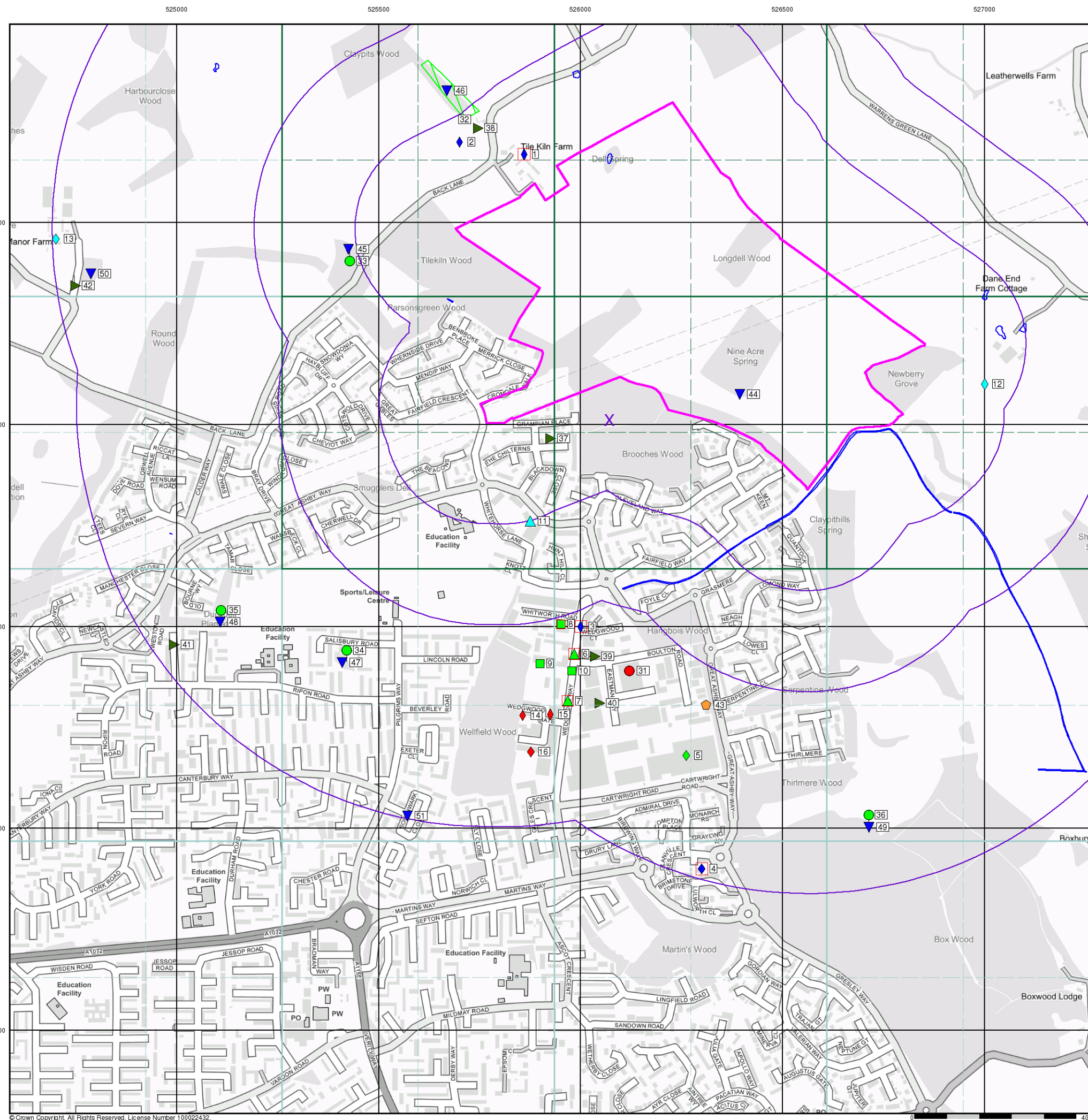


Order Details

Order Number: 306456091_1_1
 Customer Ref: J22372
 National Grid Reference: 526070, 227510
 Slice: A
 Site Area (Ha): 53.13
 Search Buffer (m): 1000

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA





Industrial Land Use Map

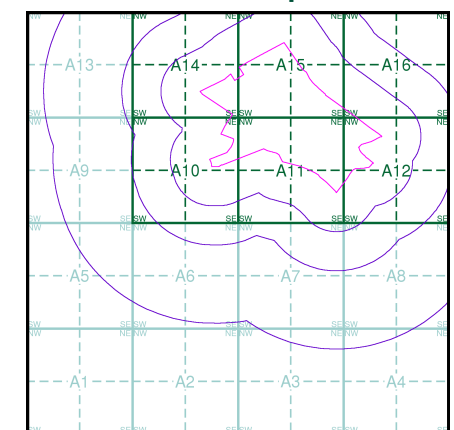
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A



Order Details

Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Search Buffer (m): 1000

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA

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INFORMATION GROUP

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Web: www.envirocheck.co.uk

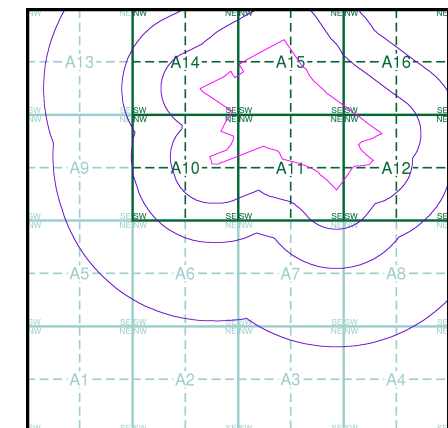
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

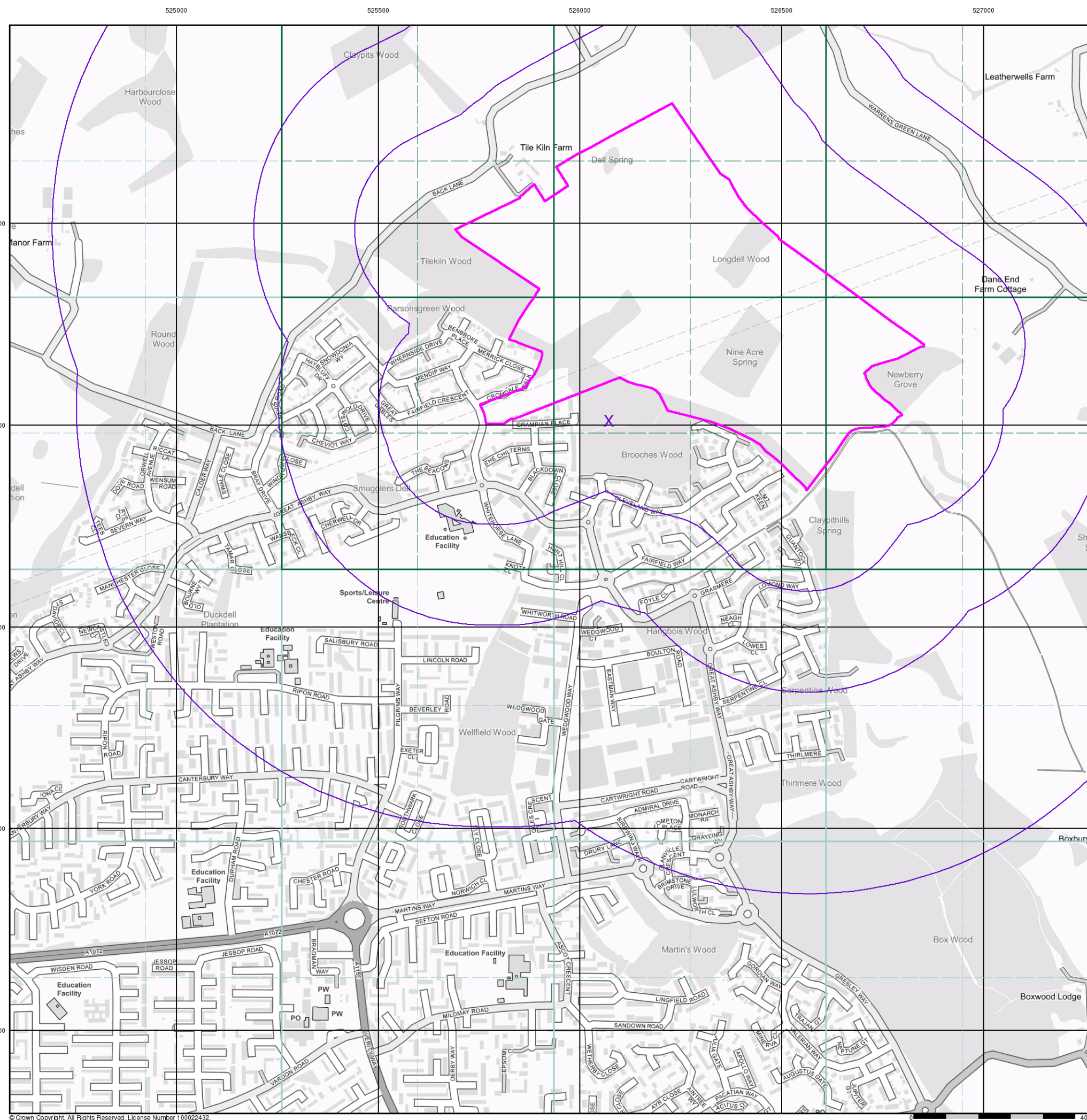


Order Details

Order Number: 306456091_1_1
 Customer Ref: J22372
 National Grid Reference: 526070, 227510
 Slice: A
 Site Area (Ha): 53.13
 Search Buffer (m): 1000

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA



General

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

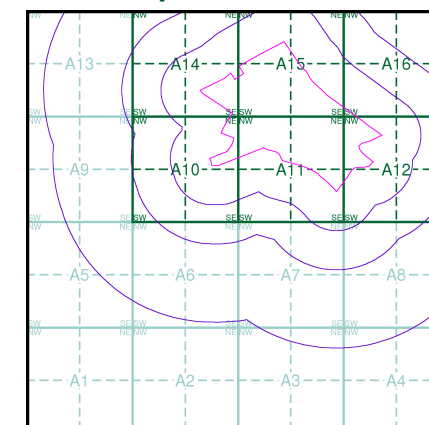
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

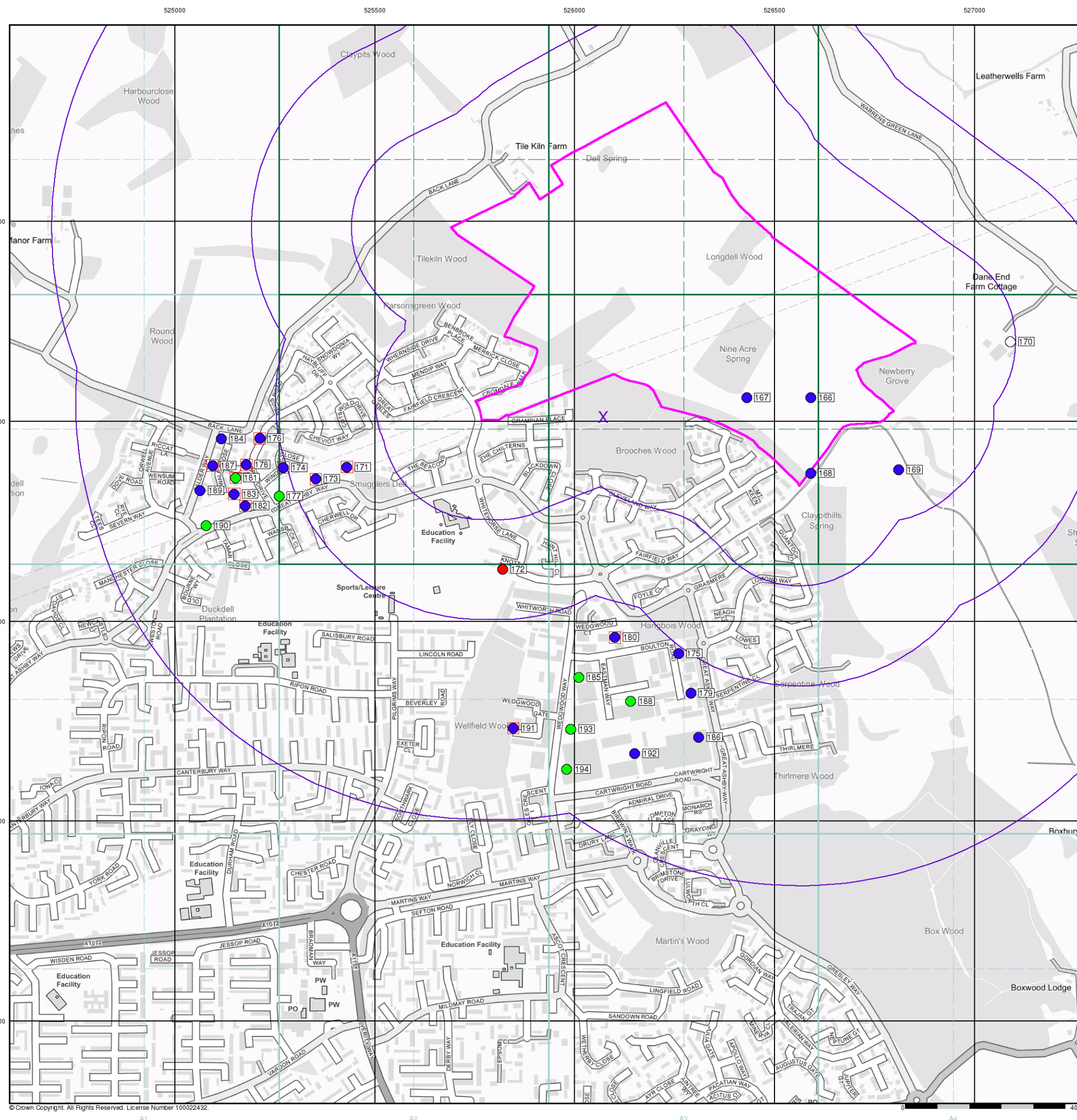


Order Details

Order Number: 306456091_1_1
 Customer Ref: J22372
 National Grid Reference: 526070, 227510
 Slice: A
 Site Area (Ha): 53.13
 Search Buffer (m): 1000

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA



General

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

Risk of Flooding from Surface Water

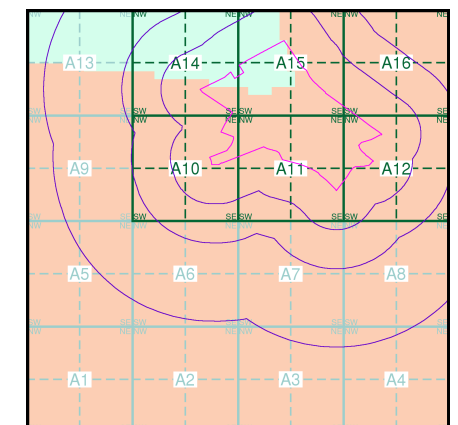
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

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

EA/NRW Suitability Map - Slice A

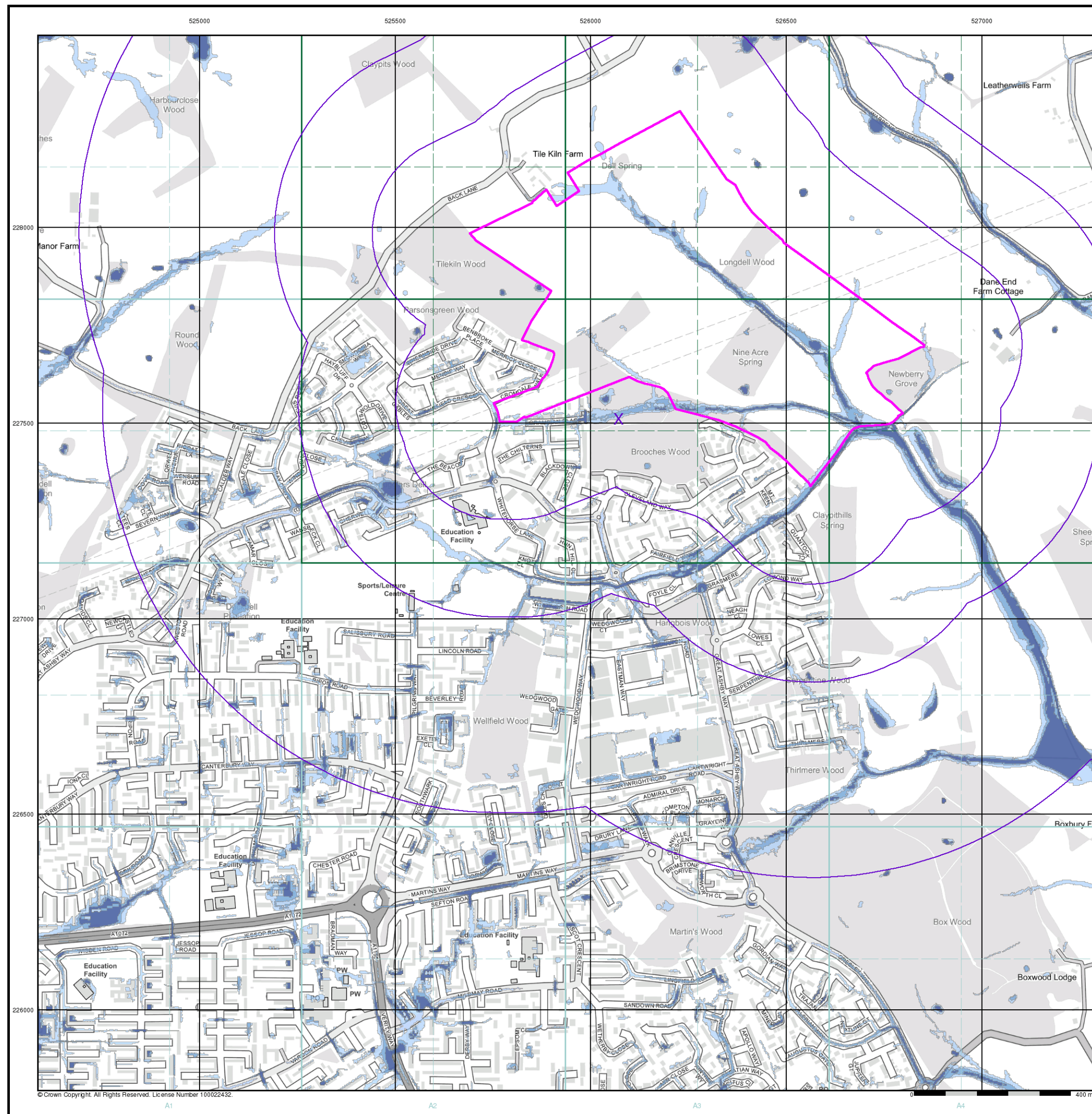


Order Details

Order Number: 306456091_1_1
 Customer Ref: J22372
 National Grid Reference: 526070, 227510
 Slice: A
 Site Area (Ha): 53.13
 Search Buffer (m): 1000

Site Details

Dane End Farm, Weston, HITCHIN, SG4 7EA



Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		Administrative County, County Borough or County of City
	Municipal Borough, Urban or Rural District, Burgh or District Council		Borough, Burgh or County Constituency
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

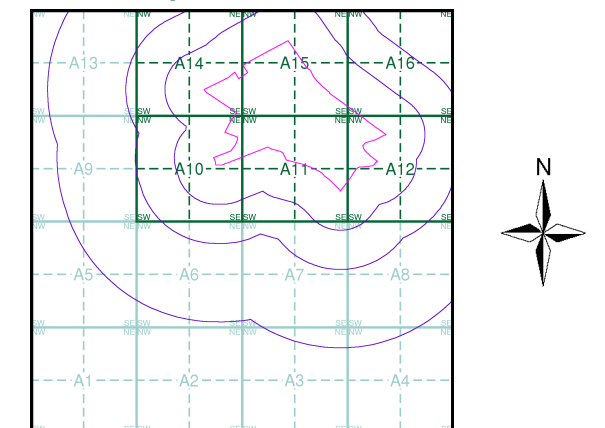
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hertfordshire	1:10,560	1884	2
Hertfordshire	1:10,560	1899	3
Hertfordshire	1:10,560	1924 - 1925	4
Hertfordshire	1:10,560	1924 - 1925	5
Hertfordshire	1:10,560	1946	6
Hertfordshire	1:10,560	1947 - 1950	7
Ordnance Survey Plan	1:10,000	1960	8
Ordnance Survey Plan	1:10,000	1964	9
Ordnance Survey Plan	1:10,000	1970 - 1976	10
Ordnance Survey Plan	1:10,000	1979	11
Ordnance Survey Plan	1:10,000	1981	12
Ordnance Survey Plan	1:10,000	1994	13
10K Raster Mapping	1:10,000	1999	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2022	16

Historical Map - Slice A



Order Details

Order Number: 306456091_1_1
 Customer Ref: J22372
 National Grid Reference: 526070, 227510
 Slice: A
 Site Area (Ha): 53.13
 Search Buffer (m): 1000

Site Details

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Landmark
 INFORMATION GROUP

Tel: 0844 844 9952
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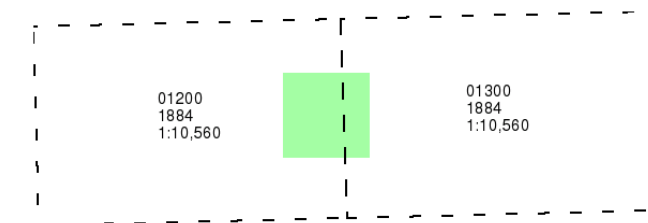
Hertfordshire

Published 1884

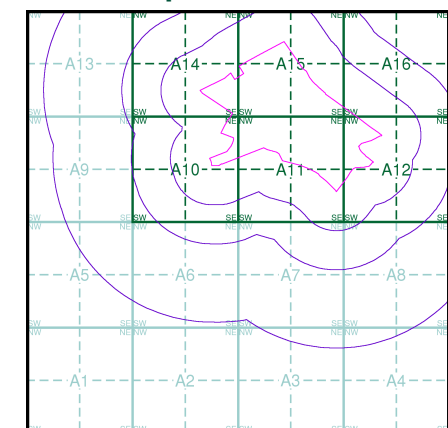
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 306456091_1_1
Customer Ref: J22372
National Grid Reference: 526070, 227510
Slice: A
Site Area (Ha): 53.13
Search Buffer (m): 1000

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