APPENDIX A – SITE INVESTIGATION REPORT

SITE INVESTIGATION & BASEMENT IMPACT ASSESSMENT REPORT

55 Lancaster Grove
London
NW3 4HD

Client: Mr and Mrs Etingen

Engineer: Sinclair Johnston

J14387

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GEA Geotechnical & Environmental Associates

Document Control

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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 Sinclair Johnston, on behalf Mr and Mrs Etingen, with respect to the proposed construction of a single level basement beneath the existing house. 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 and hydrogeology, to assess the extent of any contamination and to provide information to assist with the design of suitable foundations and retaining walls. The report also includes information required to comply with the London Borough of Camden (LBC) Planning Guidance CPG4, relating to the requirement for a Basement Impact Assessment (BIA) including a ground movement assessment.

SITE HISTORY

The first map studied, dated 1871, shows the site to be undeveloped and fronting onto an unnamed road, which is first shown as Lancaster Road on the 1896 map. Construction of what appear to be houses occurred in the surrounding area between 1871 and 1896 with a saw mill located 25 m to the south of the site. Between 1896 and 1915 the site was developed with what appears to be the existing house and the neighbouring properties to the east and west appeared to be constructed at the same time. By the time of the 1915 map, the saw mill is no longer shown. From 1954 an outbuilding is shown to the northwest of the house in the rear garden. The site and surrounding area have remained essentially unchanged to the present time.

GROUND CONDITIONS

Below a moderate thickness of made ground, the London Clay was encountered to the full depth investigated. The made ground generally comprised brown clay with rootlets and occasional fragments of brick, coal and concrete and extended to depths of between 0.50 m and 0.95 m below ground level and to a depth of 0.49 m below existing cellar level. In the rear garden the made ground was overlain by a layer of topsoil comprised of brown clayey sand with rootlets and gravel with rare brick fragments. The London Clay initially comprised an upper weathered horizon of generally firm becoming stiff fissured high strength becoming very high strength brown mottled grey brown silty clay with occasional to abundant partings of fine sand and silt, selenite crystals and mica, which extended to a depth of 7.80 m in Borehole No 1, but was not proved at other locations. Below this depth stiff fissured very high strength grey silty clay with abundant grey partings of fine sand and silt was encountered and proved to the maximum depth investigated of 15.00 m.

Groundwater was not encountered in the boreholes during drilling. Subsequent monitoring of standpipe has measured water at depths of between 0.72 m and 5.18 m. Perched water was encountered during excavation of foundation pits.

Contamination testing has revealed elevated concentrations of lead.

RECOMMENDATIONS

The excavation of the 4.0 m deep basement will result in a formation level in the stiff London Clay. Significant groundwater inflows are not anticipated, and it should be possible to form the retaining walls through traditional underpinning of existing foundations, although some form of groundwater control may be required. New spread foundations or underpins may be designed to apply a net allowable bearing pressure of 150 kN/m² below the level of the proposed basement floor. The depth of the basement excavation should be such that foundations will be placed below the depth of potential desiccation but this should be checked once the proposals have been finalised. Care should be taken at all times to ensure the stability of neighbouring properties and the existing foundations will need to be underpinned prior to basement excavation or supported by new retaining walls.

Only in proposed garden areas could end users conceivably come into direct contact with the contaminated soils. It is recommended that additional sampling and testing is carried out in the proposed garden areas to determine the precautions required, once the redevelopment proposals are finalised. The identified contaminants remaining within the made ground are considered to be of low solubility and a risk to groundwater has not been identified.

BASEMENT IMPACT ASSESSMENT

The BIA has not indicated any concerns with regard to the effects of the proposed basement on the site and surrounding area. A flood risk assessment may however need to be carried out. It has been concluded that the impacts identified can be mitigated by appropriate design and standard construction practice.

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 (GEA) has been commissioned by Sinclair Johnston, on behalf of Mr and Mrs Etingen, to carry out a desk study and ground investigation at 55 Lancaster Grove, London, NW3 2BH. This report also includes a Basement Impact Assessment (BIA), which has been carried out in support of a planning application.

1.1 Proposed Development

It is understood that it is proposed to demolish the existing single storey rear extension and to construct a new rear extension and also a basement beneath the existing house and rear extension. It has been assumed to be single level, extending to a depth of about 4.00 m.

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

1.2 Purpose of Work

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

- to check the history of the site and surrounding areas with respect to previous contaminative uses;
- to determine the ground conditions and their engineering properties;
- to assess the possible impact of the proposed development on the local hydrogeology;
- to provide advice with respect to the design of suitable foundations and retaining walls;
- 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 readily available geological and hydrogeological maps;
- a review of historical Ordnance Survey (OS) maps and environmental searches sourced from the Envirocheck database; and
- a walkover survey of the site carried out in conjunction with the fieldwork.

In light of the desk study, an intrusive ground investigation was carried out which comprised, in summary, the following activities:

- a single dismantlable cable percussion borehole advanced to a depth of 15.00 m;
- four drive-in window sampler boreholes advanced to depths of between 3.90 and 5.00 m;
- installation of three groundwater monitoring standpipes, to depths of between 5.00 m and 6.00 m, and a single subsequent groundwater monitoring visit. A second monitoring visit is planned and will be reported as an addendum;
- a total of six hand dug trial pits excavated to depths of between 0.59 m and 1.10 m, to determine the configuration of existing foundations of existing house and garden boundary wall;
- laboratory testing of selected soil samples for geotechnical purposes and for the presence of contamination; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

The report includes a contaminated land assessment which has been undertaken in accordance with the methodology presented in Contaminated Land Report (CLR) 11[1] and involves identifying, making decisions on, and taking appropriate action to deal with, land contamination in a way that is consistent with government policies and legislation within the United Kingdom. The risk assessment is thus divided into three stages comprising Preliminary Risk Assessment, Generic Quantitative Risk Assessment, and Site-Specific Risk Assessment.

1.3.1 Basement Impact Assessment

The work carried out also includes a Hydrological and Hydrogeological Assessment and Land Stability Assessment (also referred to as Slope Stability Assessment), all of which form part of the BIA procedure specified in the London Borough of Camden (LBC) Planning Guidance CPG4[2] and their Guidance for Subterranean Development[3] prepared by Arup. The aim of the work is to provide information on surface water, land stability and groundwater and in particular to assess whether the development will affect neighbouring properties or groundwater movements and whether any identified impacts can be appropriately mitigated by the design of the development.

1.3.2 Qualifications

The land stability element of the Basement Impact Assessment (BIA) has been carried out by Martin Cooper, a BEng in Civil Engineering, a chartered engineer (CEng), member of the Institution of Civil Engineers (MICE), and Fellow of the Geological Society (FGS) who has over 20 years' specialist experience in ground engineering. The subterranean (groundwater) flow assessment has been carried out by John Evans, MSc in Hydrogeology, Chartered Geologist (CGeol) and Fellow of the Geological Society of London (FGS). The surface water and flooding assessment has been carried out by Rupert Evans, a hydrologist with more than ten years consultancy experience in flood risk assessment, surface water drainage schemes

1 *Model Procedures for the Management of Land Contamination* issued jointly by the Environment Agency and the Department for Environment, Food and Rural Affairs (DEFRA) Sept 2004
2 London Borough of Camden Planning Guidance CPG4 *Basements and lightwells*
3 Ove Arup & Partners (2010) *Camden geological, hydrogeological and hydrological study. Guidance for Subterranean Development.* For London Borough of Camden November 2010

and hydrology / hydraulic modelling. Rupert Evans is a Chartered Environmentalist, Chartered Water and Environmental Manager and a Member of CIWEM.

The assessments have been made in conjunction with Steve Branch, a BSc in Engineering Geology and Geotechnics, MSc in Geotechnical Engineering, a chartered geologist (CGeol) and Fellow of the Geological Society (FGS) with over 25 years' experience in geotechnical engineering and engineering geology.

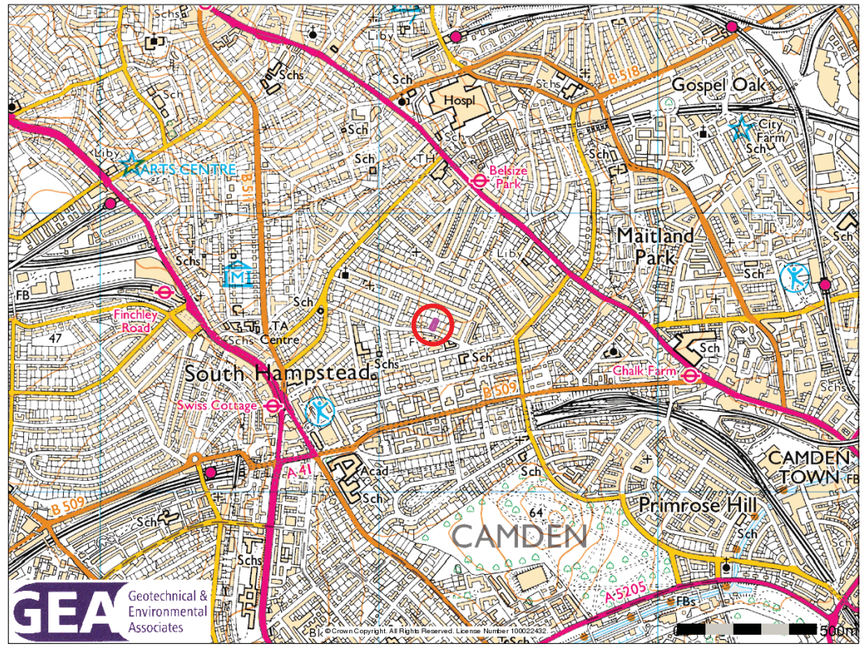
All assessors meet the qualification requirements of the Council guidance.

1.4 Limitations

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 and the number of locations where the ground was sampled. 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 other 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.

2.0 THE SITE

2.1 Site Description



The site is located in a mainly residential area in the London Borough of Camden, approximately 500 m to the southwest of Belsize Park London Underground station. It fronts onto Lancaster Grove to the south, is adjoined to the west by a three-storey semi-detached house, to the east by a semi-detached house of similar style and to the north by the rear gardens of houses fronting onto Lambolle Road. There was no evidence from the street that the neighbouring properties have basements but small cellars would be typical. The site may be additionally located by National Grid Reference 527200, 184600 and is shown on the map extract above.

A walkover of the site was carried out by a geotechnical engineer from GEA at the time of the fieldwork. The site is essentially level and roughly rectangular in shape, measuring approximately 12 m by 30 m. It is occupied by a semi-detached three-storey house, with a single storey rear extension and small cellar. A driveway is present at the front of the site, with shrub borders. A passageway is present along the eastern elevation, which leads to the rear garden, comprised of a patio along the northern elevation and a central lawn with flower bed borders. A number of trees are present in the rear garden, along the perimeter of the site.

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 first map studied, dated 1871, shows the site to be undeveloped and fronting onto an unnamed road, which is shown as Lancaster Road on the 1896 map. Construction of what appear to be houses occurred in the nearby area between 1871 and 1896 with a saw mill located 25 m to the south of the site. Between 1896 and 1915 the site was developed with what appears to be the existing house and the neighbouring properties to the east and west appeared to be constructed at the same time. By the time of the 1915 map, the saw mill is no

longer shown. From 1954 an outbuilding is shown to the northwest of the house in the rear garden. The site and surrounding area have remained essentially unchanged to the present time.

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 has indicated no landfill sites, waste management or waste transfer sites located within 1 km of the site. In addition there have been no pollution incidents within 500 m of the site.

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.

The site is not located within a nitrate vulnerable zone or any other sensitive land use.

There are no listed fuel stations within 500 m of the site.

2.4 Geology

The British Geological Survey (BGS) map of the area (Sheet 256) indicates that the site is underlain by London Clay.

According to the British Geological Society memoir, the London Clay Formation is homogenous, slightly calcareous silty clay to very silty clay, with some beds of clayey silt grading to silty fine grained sand.

An investigation has previously been carried out roughly 25 m to the south of the site, on part of the site of the former sawmill. The boreholes encountered a moderate thickness of made ground, overlying London Clay, proved to the maximum depth investigated of 15.45 m.

2.5 Hydrology and Hydrogeology

The London Clay is classified by the Environment Agency as unproductive strata, which refers to deposits that have low permeability and negligible significance for water supply or river base flow.

The site is located within a designated Groundwater Source Protection Zones (SPZs). The source protection zone has been determined for borehole abstraction within the Chalk which lies over 80 m beneath the proposed basement development and is not in hydraulic continuity with the London Clay.

There are no water abstraction points within 250 m of the site.

The nearest surface water feature is located 508 m southwest of the site.

Due to the predominantly cohesive nature of the soils, the groundwater flow rate is likely to be negligible. Published data for the permeability of the London Clay indicates the horizontal

permeability to generally range between 1 x 10^{-10} m/s and 1 x 10^{-8} m/s, with an even lower vertical permeability.

In the aforementioned ground investigation, groundwater was not encountered during drilling of the borehole; a standpipe was installed to a depth of 5.00 m and monitoring a day later measured water in the standpipe at a depth of 3.80 m. The standpipe was monitored again roughly 16 months later and was recorded to be dry.

Reference to the Lost Rivers of London[4] indicates that a headwater tributary of the Tyburn stream flowed down Lancaster Drive in a roughly southerly direction, approximately 75 m to the west of the site. The Tyburn stream is considered to rise from springs and seepages from the Bagshot Formation sands on Hampstead Heath and is perched on the London Clay. The Tyburn is now entirely covered and culverted and forms part of the surface water sewerage system, running beneath Belsize Park to where it discharges into the River Thames at Pimlico. It is likely that any groundwater flow beneath the site within the London Clay Formation would follow topographic contours and thus be towards the south.

The site lies outside the catchment of the Hampstead Heath chain of ponds.

The site is not at risk of flooding from rivers or sea, as defined by the Environment Agency. However, Lancaster Grove is shown as on Figure 15 of the Arup document as a street at risk of surface water flooding, and therefore a flood risk assessment may be required.

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 research has indicated that the site has only been occupied by the existing residential property for its entire known developed history. The site and immediate surrounding areas are not considered to have had a contaminative history. In addition, there are no historical or existing landfill sites within 250 m and a risk of soil gas has not been identified.

2.6.2 Receptor

The site will continue to have a residential end use following the excavation of the basement and no new receptors will result. However, the residential end use is considered a high sensitivity end-use. Buried services are likely to come into contact with any contaminants present within the soils through which they pass and site workers are likely to come into direct contact with any contaminants present in the soil and through inhalation of vapours during basement excavation and construction. Being underlain by unproductive strata groundwater is not considered to be a receptor.

2.6.3 Pathway

End users will be isolated from any potential contaminants in the ground by the presence of the existing house and new rear extension and areas covered by hardstanding. Only in the new garden area will the potential direct contact pathway remain. There will be limited infiltration

[4] Nicholas Barton (2000) *London’s Lost Rivers.* Historical Publications Ltd

of surface run-off and hence the likelihood of migration of contaminants onto adjacent sites is low. The presence of negligibly permeable London Clay at depth will limit the potential for groundwater percolation into the underlying chalk aquifer, and thus a pathway is not considered likely to exist to the Principal Aquifer. Except for the pathway of direct contact for site workers, no new pathways will be created by the basement excavation and services will come into contact with any contamination within the soils in which they are laid.

There is thus considered to be limited potential for a significant contaminant pathway to be present between any potential contaminant source and a target for the particular contaminant beneath the new building and extent of any hardstanding and a moderate potential exists within any proposed soft landscaped or garden areas.

2.6.4 Preliminary Risk Appraisal

On the basis of the above it is considered that there is a LOW risk of there being a significant contaminant linkage at this site which would result in a requirement for major remediation work. Furthermore, there is not considered to be a significant potential for hazardous soil gas to be present on or migrating towards the site: there should thus be no need to consider landfill gas exclusion systems.

3.0 SCREENING

The London Borough of Camden guidance suggests that any development proposal that includes a subterranean basement should be screened to determine whether or not a full Basement Impact Assessment (BIA) required.

3.1 Screening Assessment

A number of screening tools are included in the Arup document and for the purposes of this report reference has been made to Appendix E which includes a series of questions within a screening flowchart for three categories; groundwater flow; land stability; and surface water flow. Responses to the questions are tabulated on the following pages.

3.1.1 Subterranean (groundwater) Screening Assessment

Question	Response for 55 Lancaster Grove
1a. Is the site located directly above an aquifer?	No. The Site is underlain by the London Clay which is designated as Unproductive Strata by the Environment Agency and cannot store and transmit water in sufficient quantities to support groundwater abstractions or watercourses.
1b. Will the proposed basement extend beneath the water table surface?	Unlikely. The London Clay cannot suppot groundwater flow and does not have a water table consistent with a permeable water bearing strata.
2. Is the site within 100 m of a watercourse, well (used/ disused) or potential spring line?	Yes. The site is located 75 m to the east of a former tributary of the River Tyburn. This tributary is no longer present at surface and is likely to have been culverted to form part of the local surface water sewer system.
3. Is the site within the catchment of the pond chains on Hampstead Heath?	No
4. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	No
5. As part of the site drainage, will more surface water (e.g. rainfall and run-off) than at present be discharged to the ground (e.g. via soakaways and/or SUDS)?	Unlikely, given that the site is underlain by clay soils and is unlikely to be suitable for a soakaway or similar SUDS based system and therefore site drainage will be directed to public

Question	Response for 55 Lancaster Grove
	sewer.
6. Is the lowest point of the proposed excavation (allowing for any drainage and foundation space under the basement floor) close to or lower than, the mean water level in any local pond or spring line?	No

The above assessment has identified the following potential issues that need to be assessed:

Q2 The site is within 100 m of the former course of the culverted Tyburn stream.

3.1.2 Stability Screening Assessment

Question	Response for 55 Lancaster Grove
1. Does the existing site include slopes, natural or manmade, greater than 7°?	No
2. Will the proposed re-profiling of landscaping at the site change slopes at the property boundary to more than 7°?	No
3. Does the development neighbour land, including railway cuttings and the like, with a slope greater than 7°?	No
4. Is the site within a wider hillside setting in which the general slope is greater than 7°?	No not according to the slope angle map (figure 16) produced by Arup as part of the CPG4 report.
5. Is the London Clay the shallowest strata at the site?	Yes
6. Will any trees be felled as part of the proposed development and / or are any works proposed within any tree protection zones where trees are to be retained?	It is understood that no trees will be felled as part of the redevelopment of the site.
7. Is there a history of seasonal shrink-swell subsidence in the local area and / or evidence of such effects at the site?	Yes. The area is prone to these effects as a result of the presence of shrinkable clay soils, such as London Clay.
8. Is the site within 100 m of a watercourse or potential spring line?	Yes. The River Tyburn historically flowed c.75 m to the west of the Site. This watercourse is not present at surface and has been culverted to form part of the local surface water sewer.
9. Is the site within an area of previously worked ground?	No
10a. Is the site within an aquifer?	No. The site is underlain by the London Clay which is designated as Unproductive Strata by the Environment Agency and cannot store and transmit usable amounts of water.
10b. Will the proposed basement extend beneath the water table such that dewatering may be required during construction?	Unlikely.
11. Is the site within 50 m of Hampstead Heath ponds?	No
12. Is the site within 5 m of a highway or pedestrian right of way?	Yes - the site fronts onto Lancaster Grove to the south.
13. Will the proposed basement significantly increase the differential depth of foundations relative to neighbouring properties?	Yes
14. Is the site over (or within the exclusion zone of) any tunnels, eg railway lines?	No

The above assessment has identified the following potential issues that need to be assessed:

Q5 London Clay is the shallowest strata at the site.
Q7 The site is in an area likely to be affected by seasonal shrink-swell.
Q8 The site is within 100 m of London's "lost river", the River Tyburn.
Q12 The site is within 5 m of a public highway.
Q13 The development will increase the foundation depths relative to the neighbouring properties.

3.1.3 Surface Flow and Flooding Screening Assessment

Question	Response for 55 Lancaster Grove
1. Is the site within the catchment of the pond chains on Hampstead Heath?	No. Figure 14 of the Camden geological, hydrogeological and hydrological study – Guidance for subterranean development dated 2010, confirms that the site is not located within this catchment area.
2. As part of the proposed site drainage, will surface water flows (e.g. volume of rainfall and peak run-off) be materially changed from the existing route?	No There will not be an increase in impermeable area across the ground surface above the basement. There will be no surface expression of the basement development, so the surface water flow regime will be unchanged. The basement will be completely beneath the footprint of the dwelling therefore the 1m distance between the roof of the basement and ground surface as recommended by the Arup report does not apply.
3. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	
4. Will the proposed basement development result in changes to the profile of the inflows (instantaneous and long term) of surface water being received by adjacent properties or downstream watercourses?	
5. Will the proposed basement result in changes to the quantity of surface water being received by adjacent properties or downstream watercourses?	No. There will be no surface expression of the basement development, so the surface water flow regime will be unchanged. There will not be an increase in impermeable area and therefore no increased quantity of surface water being discharged from the site. Additionally, off-site discharge will be via the sewer and so there will be no impact on adjacent properties or off-site watercourses.
6. Is the site in an area known to be at risk from surface water flooding such as South Hampstead, West Hampstead, Gospel Oak and Kings Cross, or is it at risk of flooding because the proposed basement is below the static water level of a nearby surface water feature?	No. The Camden Flood Risk Management Strategy dated 2013, Figures 3ii, 4e, 5a and 5b of the SFRA dated 2014, and Environment Agency online flood maps show that the site has a low flooding risk from surface water, sewers, reservoirs (and other artificial sources), groundwater and fluvial/tidal watercourses. However, Lancaster Grove is identified on Figure 3ii of the SFRA to have flooded in 1975. The site is also located within the Critical Drainage Area number GROUP3-005 as identified in the Camden SWMP. Therefore, a flood risk assessment may be required.

The above assessment has identified the following potential issues that need to be assessed:

Q6 Lancaster Grove is at risk from surface water flooding.

4.0 SCOPING AND SITE INVESTIGATION

The purpose of scoping is to assess in more detail the factors to be investigated in the impact assessment. Potential impacts are assessed for each of the identified potential impact factors.

The potential impacts of the proposed development on surface flow and flooding and subterranean flow will need to be dealt with in separate assessments, such that the following section focuses on the potential impacts that may have an impact on slope stability.

4.1 Potential Impacts

The following potential impacts have been identified.

Potential Impact	Consequence
London Clay is the shallowest stratum at the site.	The London Clay is prone to seasonal shrink-swell (subsidence and heave).
Seasonal shrink-swell can result in foundation movements.	If a new basement is not dug to below the depth likely to be affected by tree roots this could lead to damaging differential movement between the subject site and adjoining properties.
Site within 5 m of a highway or pedestrian right of way.	Excavation of a basement may result in structural damage to the road or footway.
Founding depths relative to neighbours.	If not designed and constructed appropriately, the excavation of a basement may result in structural damage to neighbouring buildings and structures.
The site is located within 100 m of former watercourse.	This may affect flow to former watercourses.
The site has been identified as a street at risk from surface water flooding.	A flood risk assessment may be required to be carried out by a suitably qualified person.

These potential impacts have been investigated through the site investigation, as detailed in Section 9.0.

4.2 Exploratory Work

In view of the limited access and in order to meet the objectives described in Section 1.2 as far as possible within these access constraints, a single borehole was advanced to a depth of 15.00 m on the front driveway by means of a dismantlable cable percussion rig. This was supplemented by four window sampler boreholes in the rear garden to a maximum depth of 5.00 m.

Standard Penetration Tests (SPTs) were carried out at regular intervals in the cable percussion borehole to provide quantitative data on the strength of soils encountered.

Groundwater monitoring standpipes were installed in three boreholes to depths of between 5.00 m and 6.00 m and have been monitored on a single occasion to date, roughly four weeks after installation. A further monitoring visit is planned and will be reported as an addendum.

In addition six trial pits were manually excavated to depths of between 0.59 m and 1.10 m to investigate the foundations of the existing house and garden boundary wall.

All of the above work was carried out under the full time supervision of a geotechnical engineer from GEA.

A selection of the samples recovered from the boreholes and trial pits were submitted to a soil mechanics laboratory for a programme of geotechnical testing and an analytical laboratory for a programme of contamination testing.

The borehole and trial pit records and results of the laboratory analyses are appended together with a site plan indicating the exploratory positions. A site survey drawing with Ordnance Datum levels has not yet been provided.

4.3 Sampling Strategy

The scope of the works was specified by the consulting engineers, with input from GEA.

The boreholes were positioned on site by GEA, with due respect to the proposed development. The trial pits locations were specified by the structural engineers and positioned on site by GEA, in accessible locations, whilst avoiding areas of buried services.
Four samples of made ground were subjected to analysis for a range of common industrial contaminants and contamination indicative parameters. For this investigation the analytical suite for the soil included a range of metals, speciation of total petroleum hydrocarbons (TPH), polycyclic aromatic hydrocarbons (PAH), total cyanide and monohydric phenols. The soil samples were selected to provide a general view of the chemical conditions of the soils that are likely to be involved in a human exposure or groundwater pathway and to provide advice in respect of re-use or for waste disposal classification.

The contamination analyses were carried out at a MCERTs accredited laboratory with the majority of the testing suite accredited to MCERTS standards. Details of the MCERTs accreditation and test methods are included in the Appendix together with the analytical results.

5.0 GROUND CONDITIONS

The investigation has confirmed the expected ground conditions in that, below a moderate thickness of made ground, London Clay was encountered to the full depth investigated.

5.1 Made Ground

The made ground generally comprised brown clay with rootlets and occasional fragments of brick, coal and concrete and extended to depths of between 0.50 m and 0.95 m below ground level and a depth of 0.49 m below existing cellar level. In the rear garden the made ground was overlain by a layer of topsoil comprised of brown clayey sand with rootlets and gravel with rare brick fragments.

Apart from the presence of fragments of extraneous material noted above, no visual or olfactory evidence of contamination was observed during the fieldwork. Four samples of the made ground have been sent for contamination testing as a precautionary measure and the results are presented in Section 5.4.

5.2 London Clay

The London Clay initially comprised an upper weathered horizon of generally firm becoming stiff brown mottled grey becoming greyish brown silty fissured clay with occasional to abundant partings of fine sand and silt, selenite crystals and mica, which extended to depths of 7.80 m in Borehole No 1, but was not proved at other locations. Below this depth stiff grey fissured silty clay with abundant grey partings of fine sand and silt was encountered and proved to the maximum depth investigated of 15.00 m.

A claystone was encountered in Borehole No 3 at a depth of 3.90 m, which resulted in the borehole being terminated.

Laboratory plasticity index test results indicate the clay to be of high volume change potential.

The results from the laboratory undrained triaxial compression tests, which are plotted against depth on a graph in the appendix, indicate the clay to generally increase in strength with depth from high strength to very high strength with undrained shear strength increasing from 93 kN/m^2 at a depth of 2.0 m, to 159 kN/m^2 at a depth of 12.5 m.

No evidence of contamination was noted in these soils.

5.3 Groundwater

Groundwater was not encountered during drilling. Three standpipes were installed, in Borehole Nos 1, 4 and 5 and have been monitored on a single occasion, roughly four weeks after the fieldwork. Further monitoring is planned. The results of the monitoring visit carried out to date are shown in the table below.

Borehole No	Standpipe depth (m)	Depth to groundwater (m)
		11/02/2015
1	6.00	5.18
4	5.00	0.72
5	5.00	0.77

Perched water was encountered at the base of the footings in Trial Pit Nos 1 to 4.

5.4 Soil Contamination

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

Determinant	BH2 – 0.20 m	BH3 - 0.10 m	BH4 – 0.50 m	BH5 - 0.30 m
pH	10.8	7.7	8.6	8.0
Arsenic	23	**39**	21	36
Cadmium	0.20	0.64	0.17	5.00
Chromium	27	62	24	48
Copper	29	100	48	97
Mercury	0.70	1.60	2.70	1.40
Nickel	22	45	21	46
Lead	**490**	**1400**	**890**	**920**
Selenium	<0.20	0.51	<0.20	0.27
Zinc	45	420	73	500
Total Cyanide	<0.50	<0.50	<0.50	0.80
Total Phenols	<0.30	<0.30	<0.30	<0.30
Sulphide	0.80	1.70	1.80	1.80
Total PAH	7.2	21	5.0	24

Determinant	BH2 – 0.20 m	BH3 - 0.10 m	BH4 – 0.50 m	BH5 - 0.30 m
Benzo(a)pyrene	0.55	1.6	0.36	2.1
Naphthalene	<0.10	<0.10	0.19	0.27
TPH	<10	19	<10	36
Total organic carbon %	0.67	**6.9**	1.1	5.6

Notes: Figure in **bold** indicates concentration in excess of risk-based soil guideline values, as discussed in Part 2 of this report

5.4.1 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. To this end the table below indicates those contaminants of concern that have values in excess of a generic human health risk based guideline values which are either that of the CLEA[5] Soil Guideline Value where available, or is a Generic Screening Value calculated using the CLEA UK Version 1.06[6] software assuming a residential end use with plant uptake, or is based on the DEFRA Category 4 Screening values[7]. 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 zero to six years old;
- that the exposure duration will be six years;
- that the critical exposure pathways will be direct soil and indoor dust ingestion, skin contact with soils and 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

5 *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.
6 Contaminated Land Exposure Assessment (CL|EA) Software Version 1.06 Environment Agency 2009
7 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

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.

This assessment is based upon the potential for risk to human health, which at this site is considered to be the critical risk receptor.

The chemical analyses have revealed elevated concentrations of lead within all four samples of made ground tested, along with a single elevated concentration of arsenic.

These concentrations could thus pose a potentially unacceptable risk to human health through direct contact, accidental ingestion or inhalation of soil or soil derived dust.

Marginally elevated total organic carbon has been recorded within a single sample of made ground tested. Total organic carbon is one of the contamination indicative parameters but does not represent a risk in itself. Organic carbon is non-toxic and commonly naturally occurring in soils, and whilst a high total organic carbon can be indicative of a methanogenic potential in some circumstances it cannot be used as a direct indicator of a methanogenic risk.

The significance of these results is considered further in Part 2 of the report.

5.5 Existing Foundations

A total of six trial pits were excavated to expose the existing foundations. Trial Pit Nos 4, 5 and 6 indicated that the footings of the original house comprise brick corbels on concrete, founded at depths of between 0.77 m and 0.98 m below ground level on London Clay.

Trial Pit No 1 was excavated in the existing cellar, and the footing is concrete which is founded at a depth of 0.49 m below cellar floor level directly on London Clay.

Trial Pit No 2 was excavated against the single storey rear kitchen extension to expose co a concrete footing founded at a depth of 0.63 m below ground level on a 90 mm thick layer of made ground, directly overlying London Clay.

Trial Pit No 3 was excavated against the garden boundary wall and indicates the footing to comprise brick corbels on concrete founded at a depth of 0.82 m on London Clay.

Perched water was encountered at the base of the footings in Trial Pit Nos 1 to 4.

Copies of the trial pit records are included in the appendix.

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 basement excavation and the potential impact on the hydrogeology.

6.0 INTRODUCTION

It is understood that it is proposed to demolish the existing single storey rear extension and to construct a new rear extension and a basement beneath both the existing house and rear extension to a depth of about 4.00 m.

7.0 GROUND MODEL

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

- the investigation encountered a moderate thickness of made ground, overlying London Clay;
- the made ground generally comprises brown clay with rootlets and occasional fragments of brick, coal and concrete;
- the London Clay generally comprised firm becoming stiff fissured high strength becoming very high strength brown mottled grey silty clay with occasional orange-brown partings of fine sand and silt, extending to a depth of 7.80 m;
- below this depth, stiff fissured very high strength grey silty clay with abundant grey partings of fine sand and silt was encountered and proved to the maximum depth investigated of 15.00 m;
- desiccation was not encountered at the locations investigated;
- perched water was encountered at the base of some of the trial pits;
- subsequent monitoring on one occasion to date has measured groundwater at depths of between 0.72 m and 5.18 m; and
- contamination testing has revealed elevated concentrations of lead, along with single elevated levels of arsenic.

8.0 ADVICE AND RECOMMENDATIONS

Formation level for the proposed 4.00 m deep basement is likely to be within the London Clay. Significant groundwater inflows are not anticipated in the basement excavation and it should be possible to adopt spread foundations constructed from basement level to support the new development.

It has been assumed that the basement excavation will bypass potentially desiccated clay soils that may be present elsewhere on site.

Excavations for the proposed basement structure will require temporary support to maintain stability of the excavation and surrounding structures at all times. The existing foundations will need to be underpinned prior to construction of the proposed new basement or will need to be supported by new retaining walls.

8.1 Basement Construction

8.1.1 Basement Excavation

It is understood that it is proposed to form a single level basement, which will extend beneath the existing house and beneath the proposed new rear extension to a depth of approximately 4.00 m below existing ground floor level and formation level will be within the stiff London Clay.

Perched water was encountered at the base of some of the foundations. Subsequent monitoring to date measured water in the standpipes at depths of between 0.72 m and 5.18 m. Shallow monitored groundwater levels within standpipes is a common feature of low permeability clay strata and is not indicative of a consistent water table within a permeable water bearing strata. The source of the water measured within the standpipe is likely to be from the draining of discrete silt and sand pockets. Each individual pocket may therefore be of relatively low volume and individual inflows may cease once the pocket is emptied.

On this basis inflows may not be significant and could be adequately dealt with through sump pumping. However, as the basement excavation will cover a much larger area than that covered by the investigation, it is possible that larger pockets or inter-connected layers of groundwater could be encountered. It would therefore be prudent for the chosen contractor to have a contingency plan in place to deal with more significant or prolonged inflows as a precautionary measure. It would also be prudent, once access is available, to carry out a number of trial excavations, to depths as close to the full basement depth as possible, to provide an indication of the likely ground water conditions. It is likely that the rate of inflow will be relatively slow within the London Clay.

In any case, inflows could conceivably occur from perched water tables, particularly in the vicinity of existing foundations but should be adequately dealt with through sump pumping.

There are a number of methods by which the sides of the basement excavation could be supported in the temporary and permanent conditions. The choice of wall may be governed to a large extent by the requirement to prevent ground water inflows and whether it is to be incorporated into the permanent works and have a load bearing function.

It may be possible to form the retaining walls by underpinning of the existing foundations, using a traditional ‘hit and miss’ approach, subject to further monitoring or trial excavations.

Careful workmanship will be required to ensure that movement of the surrounding structures does not arise during underpinning of the existing foundations, but this method will have the benefit of minimising the plant required and maximising usable space in the new basement. The contractor should have a contingency in place to deal with any groundwater inflows.

If groundwater inflows cannot be suitably controlled or if sufficient space is not available to carry out trial pits, consideration may be given to the use of a bored pile retaining wall.

A bored pile wall would have the advantage of being incorporated into the permanent works and will be able to provide support for structural loads. On the basis of the monitoring to date, it should be possible to adopt a contiguous bored pile wall, with the use of localised grouting and / or pumping if necessary in order to deal with groundwater inflows. A contiguous bored piled wall would have the disadvantage of reducing usable space in the basement, and in this respect a secant wall may be preferable as it would overcome the requirement for any secondary groundwater protection in the permanent works and maximise the basement area.

The ground movements associated with the basement excavation will depend on the method of excavation and support and the overall stiffness of the basement structure in the temporary condition. Thus, a suitable amount of propping will be required to provide the necessary rigidity. In this respect the timing of the provision of support to the wall will have an important effect on movements.

Consideration will need to be given to a retention system that maintains the stability at all times of the existing building, neighbouring properties and structures. The existing foundations will need to be underpinned prior to excavation of the basement or will need to be supported by new retaining walls.

8.1.1 Basement Retaining Walls

The following parameters are suggested for the design of the permanent basement retaining walls.

Stratum	Bulk Density (kg/m^3)	Effective Cohesion (c' – kN/m^2)	Effective Friction Angle (Φ' – degrees)
Made Ground	1700	Zero	20
London Clay	1950	Zero	25

Groundwater has been measured at depths of between 0.72 m and 5.18 m, with a further monitoring visit planned, and further monitoring should be continued in order to establish a design water level. On this basis, groundwater might be anticipated to be encountered in the 4.00m deep basement and further monitoring should be undertaken as detailed in Section 8.1.1. Reference should be made to BS8102:2009[8] with regard to requirements for waterproofing and design with respect to groundwater pressures.

8.1.2 Basement Heave

The proposed construction of the 4.00 m deep excavation will result in an approximate unloading of about 80 kN/m^2, which will result in an elastic heave and long term swelling of the London Clay. The effects of the longer term swelling movement will be mitigated to some extent by the load applied by the new foundations and the continued presence of the existing house but may need to be subject to analysis in due course.

8 BS8102 (2009) *Code of practice for protection of below ground structures against water from the ground*

8.2 Spread Foundations

The excavation of the proposed basement is likely to result in formation level within the London Clay and it should be possible to adopt moderate width pad or strip foundations in the stiff clay, designed to apply a net allowable bearing pressure of 150 kN/m^2 below the level of the proposed basement floor. The recommended bearing pressure provides an adequate factor of safety and should ensure that settlement remains within normal tolerable limits.

The depth of the basement excavation is expected to be such that foundations will be placed below the depth of actual or potential desiccation, but this should be checked once the proposals have been finalised. 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 existing / proposed trees. The requirement for compressible material alongside foundations should be determined by reference to the NHBC guidelines.

If for any reason spread foundations are not considered appropriate, piled foundations would provide a suitable alternative.

8.3 Piled Foundations

For the ground conditions at this site some form of bored pile is likely to be the most appropriate. A conventional rotary augered pile may be appropriate but consideration will need to be given to the possible instability and water ingress in the made ground and within any silty or sandy zones within the London Clay. The use of bored piles installed using continuous flight auger (cfa) techniques may therefore be the most appropriate, especially as the use of a limited access rig may be required.

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

Ultimate Skin Friction		**kN/m^2**
Made Ground	GL to 4.0 m	Ignore (Basement excavation
London Clay ($\alpha = 0.5$)	4.0 m to 15.0 m	Increasing linearly from 35 to 75
Ultimate End Bearing		**kN/m^2**
London Clay	10.0 m to 15.0 m	Increasing linearly from 1125 to 1350

In the absence of pile tests, guidance from the London District Surveyors Association (LDSA)[9] suggests that a factor of safety of 2.6 should be applied to the above coefficients in the computation of safe theoretical working loads. On the basis of the above coefficients and a factor of safety of 2.6 it has been estimated that a 450 mm diameter pile extending 10.0 m below basement level to a depth of 14 m below ground level, should provide a safe working load of about 370 kN.

[9] LDSA (2009) *Foundations No 1 – Guidance notes for the design of straight shafted bored piles in London Clay*. LDSA Publications

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 an appropriate piling scheme and their attention should be drawn to potential groundwater inflows within the made ground and silt and sand partings within the London Clay.

8.4 Basement Floor Slab

Following the excavation of the basement, it is likely that the floor slab for the proposed basement will need to be suspended over a void to accommodate the anticipated heave and any potential uplift forces from groundwater pressures unless the slab can be suitably reinforced to cope with these movements. This should be reviewed once the levels and loads are known.

8.5 Shallow Excavations

On the basis of the borehole findings and trial pits, it is considered that shallow excavations for foundations and services that extend through the made ground or clay should remain generally stable in the short term, although some instability may occur. However, should deeper excavations be 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.

The investigation has indicated that groundwater inflows might be encountered within made ground, particularly within the vicinity of existing foundations and from silt and sand partings from within the London Clay. Some form of groundwater control is likely to be required and should be suitably controlled by sump pumping, although this should be confirmed by additional investigations, ideally in the form of trial excavations to the full depth of the proposed basement.

8.6 Effect of Sulphates

Chemical analyses carried out on three samples; two samples of made ground and a single sample of London Clay have revealed concentrations of soluble sulphate and near-neutral pH in accordance with Class DS-1. The measured pH value of the samples show that a ACEC class of AC-1s of Table C2 would be suitable. This assumes a static water condition at the site. The guidelines contained in the above digest should be followed in the design of foundation concrete.

8.7 Site Specific Risk Assessment

The desk study research has indicated that the site has not had a potentially contaminative history, having been occupied by the existing house for its entire known developed history.

The chemical analyses have revealed elevated concentrations of lead within all four samples of made ground tested, along with a single elevated concentration of arsenic.

The source of the lead contamination is likely to be fragments of metal and paint, also ash and coal dust, and historical usage of pesticides which would have contained lead and arsenic. As a result they are not considered likely to be in a soluble form and as such do not present a risk to adjacent sites and given that the made ground is directly underlain by the London Clay,

classified as Unproductive Strata, a risk to groundwater has not been identified.

End users will be effectively isolated from direct contact with the identified contaminants by the building and areas of external hardstanding. The contamination is likely to be removed as part of the basement excavation and only in proposed garden areas could end users conceivably come into direct contact with the contaminated soils, although this pathway is already in existence.

As only a limited number of samples have been tested, it would be prudent to carry out contamination testing on additional samples of made ground / topsoil recovered from the areas of the site that are to remain as soft landscaped gardens, in order to ensure the absence of any significant contamination.

Site workers will be protected from the contamination through adherence to normal high standards of site safety but there may be a requirement for protection of buried plastic services laid within the made ground.

8.7.1 Site Workers

Site workers should be made aware of the contamination and a programme of working should be identified to protect workers handling any soil. The method of site working should be in accordance with guidelines set out by HSE[10] and CIRIA[11] and the requirements of the Local Authority Environmental Health Officer.

8.8 Waste Disposal

Any spoil arising from excavations or landscaping works, which is not to be re-used in accordance with the CL:AIRE guidance[12], will need to be disposed of to a licensed tip. 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 going to landfill is subject to landfill tax at either the standard rate of £80 per tonne (about £145 per m^3) or at the lower rate of £2.50 per tonne (roughly £5 per m^3). However, the classification for tax purposes is not the same as that for disposal purposes. Currently all made ground and topsoil is taxable at the 'standard' rate and only naturally occurring rocks and soils which are accurately described as such in terms of the 2011 Order[13] would qualify for the 'lower rate' of landfill tax.

Based upon on the technical guidance provided by the Environment Agency[14] it is considered likely that the made ground from this site, as represented by the four chemical analyses carried out, would be classified as a NON-HAZARDOUS waste under the waste code 17 05 04 (soils and stones not containing dangerous substances) and would be taxable at the standard rate. It is likely that the natural soils, if separated out, could be classified as an INERT waste also under the waste code 17 05 04. This material would be taxable at the lower rate, if accurately described as naturally occurring sand and gravel in terms of the 2011 Order on the waste transfer note. As this site has not had a contaminative history there should be no requirement for WAC leaching analyses to confirm that this material is suitable for landfilling, although this would require confirmation from the receiving site.

10 HSE (1992) HS(G)66 *Protection of workers and the general public during the development of contaminated land* HMSO
11 CIRIA (1996) *A guide for safe working on contaminated sites* Report 132, Construction Industry Research and Information Association
12 CL:AIRE (2011) *The Definition of Waste: Development Industry Code of Practice* Version 2, March 2011
13 *Landfill Tax (Qualifying Material) Order 2011*
14 Environment Agency (2013) *Hazardous Waste: Interpretation of the definition and classification of hazardous waste. Technical Guidance* WM2 Third Edition, August 2013

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 paper[15] 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 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 and its likely landfill taxable rate 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 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.

9.0 BASEMENT IMPACT ASSESSMENT

The screening identified a number of potential impacts. The desk study and ground investigation information has been used to review the potential impacts, to assess the likelihood of them occurring and the scope for reasonable engineering mitigation.

The table below summarises the previously identified potential impacts and the additional information that is now available from the previous site investigation in consideration of each impact.

The site investigation indicates that the site is directly underlain by the London Clay, which is classified as unproductive strata.

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

Potential Impact	Site Investigation Conclusions
London Clay is the shallowest strata at the site	The London Clay is prone to seasonal shrink-swell (subsidence and heave).
Seasonal shrink-swell can result in foundation movements	The London Clay is prone to seasonal shrink-swell and can cause structural damage. Desiccation was not noted during the fieldwork, but desiccation may be present within close proximity to existing trees elsewhere on site. The proposed basement will extend to a general depth of about 4.00 m, such that new foundations would be expected to bypass any desiccated soils present.
Site within 5 m of a highway or pedestrian right of way	The investigation has not indicated any specific problems, such as weak or unstable ground, voids, high water table, that would make working within 5 m of public infrastructure particularly problematic at this site, although best practice in design and construction will ensure the stability of the highway.
Founding depths relative to neighbours	The retention system will ensure the stability of the excavation and neighbouring properties at all times.
The site is within 100 m of former watercourse	The site investigation did not establish the presence of alluvial deposits beneath the site which indicated any hydraulic continuity with saturated alluvial deposits associated with the Tyburn stream.
Site at risk from surface flooding	A flood risk assessment may need to be undertaken.

The results of the site investigation have been used below to review the remaining potential impacts, to assess the likelihood of them occurring and the scope for reasonable engineering mitigation.

The site is within 100 m of former watercourse

The River Tyburn has been culverted to form a drain and is, therefore, unlikely to have any impact on, or be influenced by, the surrounding groundwater level and is not, therefore, considered to present a risk to slope stability at this site, where the risk of an impact on slope stability from changes in groundwater flow is considered to be low due to the negligible permeability of the London Clay. The proposed basement development would not impact on the surrounding water environment.

Seasonal Shrink-Swell

The proposed basement will extend to a depth of about 4.00 m, such that new foundations will be expected to bypass any desiccated soils.

Subject to inspection of foundation excavations in the normal way to ensure that there is not significant unexpectedly deep root growth, it is not considered that the occurrence of shrink-swell issues in the local area has any bearing on the proposed development.

Location of public highway

A retention system will be adopted that maintains the stability of the excavation at all times, which is readily achievable using well-established construction methods.

The proposed basement will significantly increase the differential depth of foundations relative to neighbouring properties

The proposed basement will extend to a significant depth relative to the existing foundations of the neighbouring properties and will need to be designed to ensure the stability of the site and any potentially sensitive structures that are in close proximity to the site.

A ground movement assessment is likely to be required in due course.

9.1 BIA Conclusion

A Basement Impact Assessment has been carried out following the information and guidance published by the London Borough of Camden. Information from a Site Investigation has been used to assess potential impacts identified by the screening process.

It is concluded that the proposed development is unlikely to result in any specific land or slope stability issues, groundwater or surface water issues.

10.0 OUTSTANDING RISKS AND 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 is considered to 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.

Further groundwater monitoring should be carried out to confirm that groundwater will not be encountered during basement excavation or ideally trial excavations are undertaken, to depths as close to the full basement depth.

It is assumed that the basement will extend beneath the depth of any potential desiccation, but foundations should be inspected by a suitably qualified engineer.

It is recommended that heave movements are checked by further analysis once the loadings and final levels are known.

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.

As only a limited number of samples have been tested, it would be prudent to carry out contamination testing on additional samples of made ground / topsoil recovered from the areas of the site that are to remain as soft landscaped gardens, in order to ensure the absence of any significant contamination.

APPENDIX

GEA Geotechnical & Environmental Associates
Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site	Borehole Number
55 Lancaster Grove, London, NW3 4HD	BH1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	150mm cased to 2.00m		Mr and Mrs Etingen	J14387
	Location	**Dates** 07/01/2015	**Engineer** Sinclair Johnson	**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)	Brick paving slab over concrete		
						0.30			
						(0.20)	Made Ground (brown mottled grey silty clay with fine flint gravel, rare brick fragments and rootlets)		
0.35	D1					0.50			
0.50	B1						Firm fissured high strength brown mottled grey silty CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals. Rootlets noted to a depth of 1.75 m		
1.20-1.65	SPT N=10			1,0/1,2,3,4					
1.20-1.65	D2								
						(2.50)			
1.75	D3								
2.00-2.45	U1			18 blows					
2.75	D4								
3.00-3.45	SPT N=15			1,2/3,3,4,5		3.00	Stiff fissured high strength brown mottled grey silty CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals		
3.00-3.45	D5								
3.75	D6								
4.00-4.45	U2			18 blows		(2.00)			
4.75	D7								
5.00-5.45	SPT N=18			1,2/3,4,5,6		5.00	Stiff fissured very high strength brownish grey silty CLAY with occasional partings of orange-brown fine sand and silt and rare selenite crystals		
5.00-5.45	D8								
6.00	D9								
6.50-6.95	U3			24 blows		(3.00)			
7.50	D10								
8.00-8.45	SPT N=20			2,3/4,4,5,7		8.00	Stiff fissured very high strength grey silty CLAY with occasional partings of grey fine sand and silt		
8.00-8.45	D11								
9.00	D12								
9.50-9.95	U4			34 blows					

Remarks
One hour spent setting up rig
Hand-dug service pit to a depth of 1.20 m
Groundwater not encountered during drilling
Standpipe installed to a depth of 6.00 m
One hour spent demobilising rig
Water measured in standpipe at a depth of 5.18 m on 11/02/2015

Scale (approx)	Logged By
1:50	HD

Figure No. J14387.BH1

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site
55 Lancaster Grove, London, NW3 4HD

Borehole Number
BH1

Boring Method	Casing Diameter	Ground Level (mOD)	Client	Job Number
Cable Percussion	150mm cased to 2.00m		Mr and Mrs Etingen	J14387

Location	Dates	Engineer	Sheet
	07/01/2015	Sinclair Johnson	2/2

Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
10.50	D13								
11.00-11.45	SPT N=26			2,4/5,6,7,8					
11.00-11.45	D14					(7.00)			
12.00	D15								
12.50-12.95	U5			40 blows					
13.50	D16								
14.55-15.00	SPT N=31			4,5/6,8,8,9					
14.55-15.00	D17								
						15.00	Complete at 15.00m		

Remarks

Scale (approx)	Logged By
1:50	HD

Figure No.
J14387.BH1

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site
55 Lancaster Grove, London, NW3 4HD

Number
BH2

Excavation Method	Dimensions	Ground Level (mOD)	Client	Job Number
Drive-in Window Sampler			Mr and Mrs Etingen	J14387

Location	Dates	Engineer	Sheet
	07/01/2015	Sinclair Johnson	1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					0.04			
					0.09	Paving slab		
					(0.31)			
					0.40	Concrete		
0.20	E1							
0.50	D1				(0.30)	Made Ground (brown slightly clayey sandy silt with rootlets, gravel, brick and fragments)		
					0.70			
						Made Ground (brown clay with rootlets, brick and concrete fragments)		
1.00	D2		PP = 1.5					
					(1.30)	Firm brown mottled grey silty fissured CLAY with occasional selenite crystals and orange-brown silt partings		
1.50	D3		PP = 2					
2.00	D4		PP = 2		2.00	Stiff brown mottled grey silty fissured CLAY with occasional selenite crystals and orange-brown silt partings		
2.50	D5		PP = 2.25					
3.00	D6		PP = 3					
					(2.50)			
3.50	D7		PP = 3					
4.00	D8		PP = 3.25					
4.50	D9		PP = 3		4.50	Complete at 4.50m		

Remarks
Groundwater not encountered
'PP' denotes pocket penetrometer result

Scale (approx)	Logged By
1:50	JRF

Figure No.
J14387.BH2

GEA Geotechnical & Environmental Associates
Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site
55 Lancaster Grove, London, NW3 4HD

Number
BH3

Excavation Method
Drive-in Window Sampler

Dimensions

Ground Level (mOD)

Client
Mr and Mrs Etingen

Job Number
J14387

Location

Dates
07/01/2015

Engineer
Sinclair Johnson

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.10	E1				(0.25) 0.25	Made Ground (dark brown clayey silt with rootlets, fine gravel and brick fragments)		
0.50	D1				(0.45) 0.70	Made Ground (brown clay with rootlets, brick, coal and concrete fragments)		
1.00	D2		PP = 1.75		(1.50)	Firm brown silty fissured CLAY with occasional selenite crystals and orange-brown silt partings		
1.50	D3		PP = 2					
2.00	D4		PP = 2.5		2.20	Stiff brown silty fissured CLAY with occasional selenite crystals and orange-brown silt partings. Claystone encountered at a depth of 3.90 m - borehole terminated		
2.50	D5		PP = 2.5					
3.00	D6		PP = 2.5		(1.70)			
3.50	D7		PP = 2.5		3.90	Terminated at 3.90m		

Remarks
Groundwater not encountered
'PP' denotes pocket penetrometer result

Scale (approx)
1:50

Logged By
JRF

Figure No.
J14387.BH3

GEA Geotechnical & Environmental Associates
Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site
55 Lancaster Grove, London, NW3 4HD

Number
BH4

Excavation Method
Drive-in Window Sampler

Dimensions

Ground Level (mOD)

Client
Mr and Mrs Etingen

Job Number
J14387

Location

Dates
07/01/2015

Engineer
Sinclair Johnson

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20	D1				(0.30) 0.30	Made Ground (dark brown clayey silt with rootlets, gravel, brick and concrete fragments. Root at 0.4 m)		
0.50	E1				(0.40) 0.70	Made Ground (brown clay with rootlets, brick, cement, coal and concrete fragments)		
1.00	D2		PP = 2.0		(1.30)	Firm brown silty fissured CLAY with occasional selenite crystals and orange-brown silt partings		
1.50	D3		PP = 2.0		2.00	Stiff brown silty fissured CLAY with occasional selenite crystals and orange-brown silt partings		
2.00	D4		PP = 2.25					
			PP = 2.5					
3.00	D5		PP = 2.5					
3.50	D6		PP = 3.0		(3.00)			
4.00	D7		PP = 2.5					
4.50	D8		PP = 2.5					
5.00	D9		PP = 3.0		5.00	Complete at 5.00m		

Remarks
Groundwater not encountered
'PP' denotes pocket penetrometer
Standpipe installed to a depth of 5.00 m
Water measured in the standpipe at a depth of 0.72 m on 11/02/2015

Scale (approx)
1:50

Logged By
JRF

Figure No.
J14387.BH4

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Site
55 Lancaster Grove, London, NW3 4HD

Number
BH5

Excavation Method
Drive-in Window Sampler

Dimensions

Ground Level (mOD)

Client
Mr and Mrs Etingen

Job Number
J14387

Location

Dates
07/01/2015

Engineer
Sinclair Johnson

Sheet
1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.45)	Made Ground (dark brown clayey silt with rootlets, brick and coal fragments)		
0.30	E1				0.45			
0.60	D1				(0.35)	Made Ground (brown clay with rootlets, gravel, brick and concrete fragments. Root at 0.6 m)		
					0.80			
1.00	D2		PP = 1.5			Firm brown silty fissured CLAY with occasional orange-brown silt partings and selenite crystals		
1.50	D3		PP = 1.75		(1.70)			
2.00	D4		PP = 2.25					
2.50	D5		PP = 2.25		2.50			
3.00	D6		PP = 2.5			Stiff brown silty fissured CLAY with occasional orange-brown silt partings and selenite crystals		
3.50	D7		PP = 2.5		(2.50)			
4.00	D8		PP = 2.5					
4.50	D9		PP = 3.0					
5.00	D10		PP = 3.5		5.00			
						Complete at 5.00m		

Remarks
Groundwater not encountered
'PP' denotes pocket penetrometer
Standpipe installed to a depth of 5.00 m
Water measured at a depth of 0.77 m within the standpipe on 11/02/2015

Scale (approx)
1:50

Logged By
JRF

Figure No.
J14387.BH5

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Standard Penetration Test Results

Site : 55 Lancaster Grove, London, NW3 4HD

Client : Mr and Mrs Etingen

Engineer : Sinclair Johnson

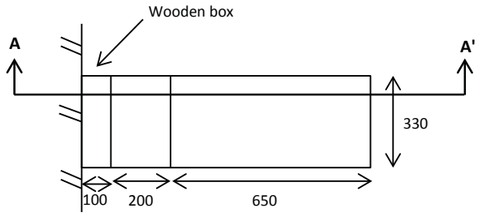
Job Number
J14387

Sheet
1 / 1

Borehole Number	Base of Borehole (m)	End of Seating Drive (m)	End of Test Drive (m)	Test Type	Seating Blows per 75mm		Blows for each 75mm penetration				Result	Comments
					1	2	1	2	3	4		
BH1	1.20	1.35	1.65	SPT	1	0	1	2	3	4	N=10	
BH1	3.00	3.15	3.45	SPT	1	2	3	3	4	5	N=15	
BH1	5.00	5.15	5.45	SPT	1	2	3	4	5	6	N=18	
BH1	8.00	8.15	8.45	SPT	2	3	4	4	5	7	N=20	
BH1	11.00	11.15	11.45	SPT	2	4	5	6	7	8	N=26	
BH1	14.55	14.70	15.00	SPT	4	5	6	8	8	9	N=31	

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **1**
Excavation Method Manual	**Dimensions** 330 x 650 x 590	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Cellar	**Dates** 07/01/2015	**Engineer** Sinclair Johnson	**Sheet** 1 / 6

Plan: -



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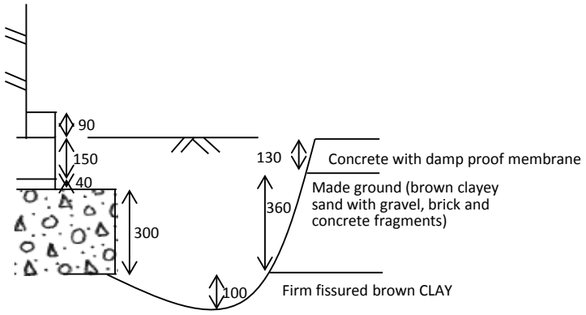
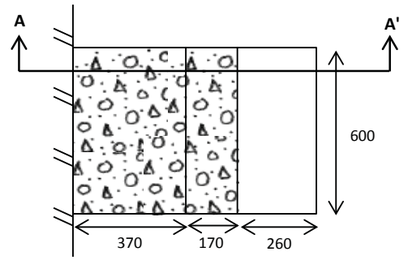


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater seepage encountered at base of footing on 07/01/15, at 8 am on 08/01/15 trial pit full of water	JF

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **2**
Excavation Method Manual	**Dimensions** 600 x 1250 x 760	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Rear garden	**Dates** 08/01/2015	**Engineer** Sinclair Johnson	**Sheet** 2 / 6

Plan: -



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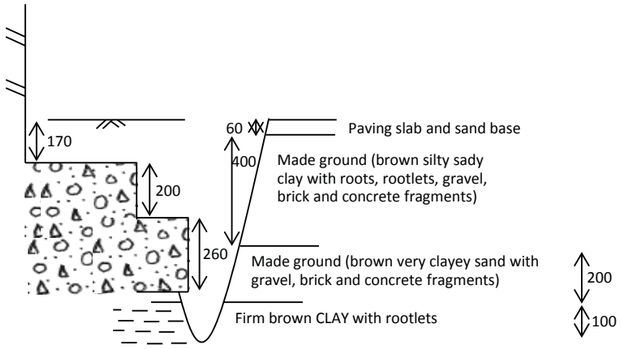
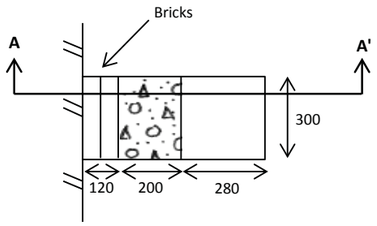


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater seepage encountered at base of footing	JF

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **3**
Excavation Method Manual	**Dimensions** 300 x 600 x 1000	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Rear garden	**Dates** 08/01/2015	**Engineer** Sinclair Johnson	**Sheet** 3 / 6

Plan: -



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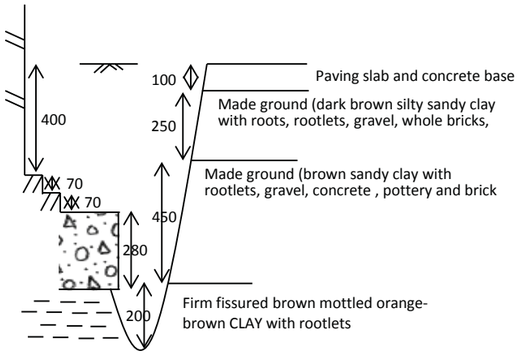
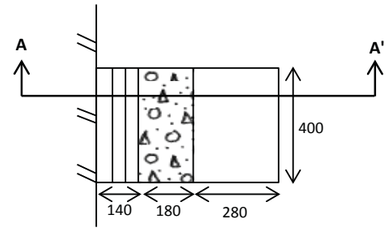


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Ground water seepage encountered at base of footing	JF

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **4**
Excavation Method Manual	**Dimensions** 400 x 600 x 1100	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Rear garden	**Dates** 08/01/2015	**Engineer** Sinclair Johnson	**Sheet** 4 / 6

Plan: -



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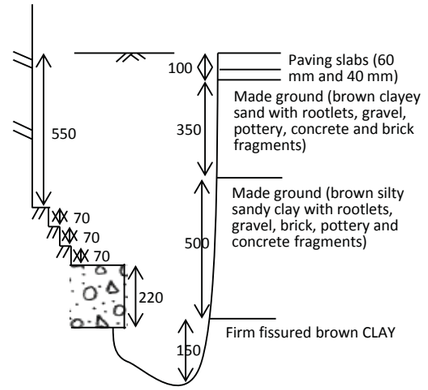
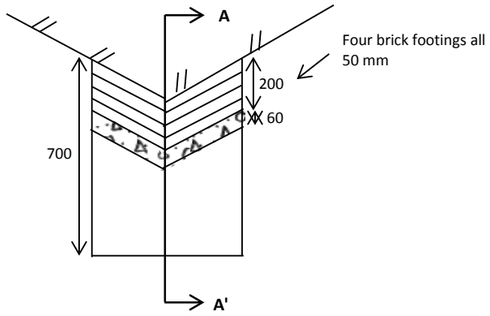


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Groundwater seepage encountered at base of footing	JF

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **5**
Excavation Method Manual	**Dimensions** 500 x 700 x 950	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Front garden	**Dates** 08/01/2015	**Engineer** Sinclair Johnson	**Sheet** 5 / 6

Plan: -



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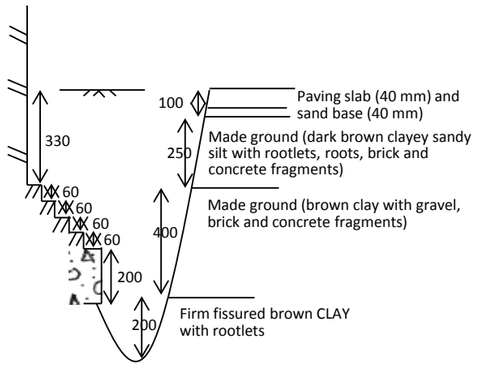
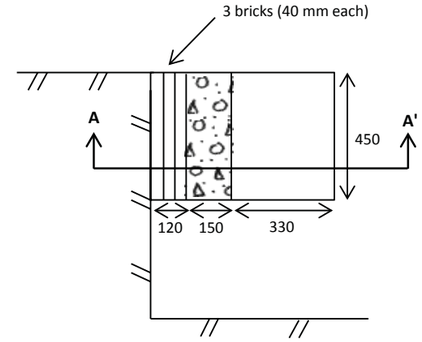


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Ground water not encountered	JF

GEA Geotechnical & Environmental Associates	Widbury Barn Widbury Hill Ware Herts SG12 7QE	**Site** 55 Lancaster Grove, London, NW3 4HD	**Trial Pit Number** **6**
Excavation Method Manual	**Dimensions** 450 x 600 x 980	**Ground Level (mOD)**	**Client** Mr and Mrs Etingen	**Job Number** J14387
	Location Front garden	**Dates** 08/01/2015	**Engineer** Sinclair Johnson	**Sheet** 6 / 6

Plan: -



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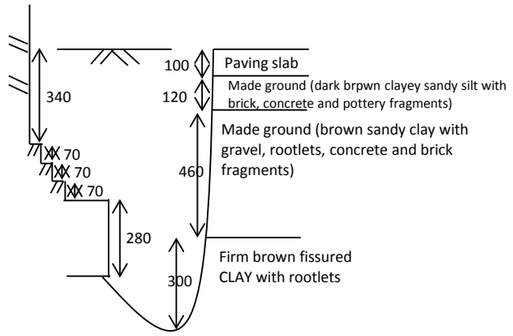


Remarks:	Scale:
All dimensions in millimetres	1:20
Sides of trial pit remained stable during excavation	Logged by:
Ground water not encountered	JF

Project Name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	30/01/2015
Project No:	J14387	**Our job/report no:**	18199	**Date Reported:**	10/02/2015

K4 SOILS

Borehole No:	Sample No:	Depth (m)	Description	Moisture content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425 mm (%)	Remarks
BH2	D2	1.00	Brown and blue grey slightly mottled silty CLAY	36	78	26	52	98	
BH2	D3	1.50	Brown silty CLAY	31					
BH2	D4	2.00	Brown silty CLAY with traces of selenite crystals	33					
BH2	D5	2.50	Brown silty CLAY with traces of selenite crystals	32					
BH2	D6	3.00	Brown slightly silty CLAY with scattered selenite crystals	31	80	27	53	100	
BH2	D7	3.50	Brown silty CLAY	30					
BH2	D8	4.00	Brown silty CLAY	28					
BH3	D2	1.00	Brown slightly silty CLAY with scattered selenite crystals	33	86	31	55	100	
BH3	D3	1.50	Brown slightly mottled blue grey slightly silty CLAY	33					
BH3	D4	2.00	Brown silty CLAY	32					
BH3	D5	2.50	Brown silty CLAY with orange brown sandy pockets	31					
BH3	D6	3.00	Brown slightly silty CLAY with scattered selenite crystals	32	79	29	50	100	
BH3	D7	3.50	Brown silty CLAY with orange brown sandy pockets	29					
BH5	D2	1.00	Brown slightly sandy silty CLAY	34					
BH5	D3	1.50	Brown and blue grey slightly mottled silty CLAY	34	83	30	53	100	
BH5	D4	2.00	Brown slightly mottled blue grey slightly silty CLAY	32					
BH5	D5	2.50	Brown slightly silty CLAY with scattered selenite crystals	33	79	29	50	100	
BH5	D6	3.00	Brown silty CLAY with scattered selenite crystals	29					
BH5	D7	3.50	Brown slightly silty CLAY with occasional selenite crystals	30					

UKAS TESTING 2519

Summary of Test Results

BS 1377 : Part 2 : Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method.
BS 1377 : Part 2 : Clause 5 : 1990 Determination of the plastic limit and plasticity index.
BS 1377 : Part 2 : Clause 3.2 : 1990 Determination of the moisture content by the oven-drying method.

Checked and Approved
Initials: K.P
Date: 10/02/2015

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Test Results relate only to the sample numbers shown above. Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

Project Name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	30/01/2015
Project No:	J14387	**Our job/report no:**	18199	**Date Reported:**	10/02/2015

K4 SOILS

Borehole No:	Sample No:	Depth (m)	Description	Moisture content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 0.425 mm (%)	Remarks
BH5	D8	4.00	Brown silty CLAY with orange brown fine sand pockets	26					

UKAS TESTING 2519

Summary of Test Results

BS 1377 : Part 2 : Clause 4.4 : 1990 Determination of the liquid limit by the cone penetrometer method.
BS 1377 : Part 2 : Clause 5 : 1990 Determination of the plastic limit and plasticity index.
BS 1377 : Part 2 : Clause 3.2 : 1990 Determination of the moisture content by the oven-drying method.

Checked and Approved
Initials: K.P
Date: 10/02/2015

Test Report by K4 SOILS LABORATORY Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU

Test Results relate only to the sample numbers shown above. Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)

All samples connected with this report ,incl any on 'hold' will be stored and disposed off according to Company policy.Acopy of this policy is available on request.

MSF-11/R2

Client :	GEA	Our Job/report no:	18199	Samples Rec :	16/01/2015	Testing Started:	05/02/2015
Project name:	55 Lancaster Grove, London, NW3 4HD	Project No:	J14387	Project Started:	20/01/2015	Date reported:	10/02/2015

BH / TP No	Sample no / ref	Sample depth (m)	Description	Moisture content (%)	Bulk Density (Mg/m3)	Dry density (Mg/m3)	Cell Pressure (kPa)	Strain at failure (%)	Max Deviator Stress (kPa)	Mode of failure	Shear Strength (kPa)	Phi (deg)
BH1	U1	2.00	High strength fissured brown silty CLAY with scattered selenite crystals	27	1.99	1.56	40	8.6	186	Compound	93	NA
BH1	U2	4.00	High strength fissured brown silty CLAY with scattered selenite crystals and occasional pockets of orange brown silt	26	2.01	1.59	80	8.1	234	Brittle	117	NA
BH1	U3	6.50	Very high strength fissured brown silty CLAY with scattered selenite	26	2.03	1.61	130	5.6	336	Brittle	168	NA
BH1	U4	9.50	Very high strength slightly fissured dark brownish grey silty CLAY	28	2.04	1.59	190	5.1	302	Brittle	151	NA
BH1	U5	12.50	Very high strength fissured dark grey silty CLAY	28	2.01	1.57	260	6.6	317	Brittle	159	NA

K4 SOILS

Summary of Undrained Triaxial Compression Testing

BS 1377 : Part 7 : Clause 8 : 1990

Checked and approved

Initials kp

K4 SOILS

Report of Undrained Triaxial Compression Test

BS 1377 : Part 7 : 1990 Clause 8.0

Project name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	05/02/2015
Project no:	J14387	**Our job /report no:**	18199	**Date Reported:**	10/02/2015
BH / TP no:	BH1	**Sample no:**	U1	**Depth (m):**	2.00

Soil Description: High strength fissured brown silty CLAY with scattered selenite crystals

Sample Details **Specimen 1**

Sample Condition		Undisturbed
Height	mm	198.0
Diameter	mm	102.0
Moisture Content	%	27
Bulk Density	Mg/m³	1.99
Dry Density	Mg/m³	1.56

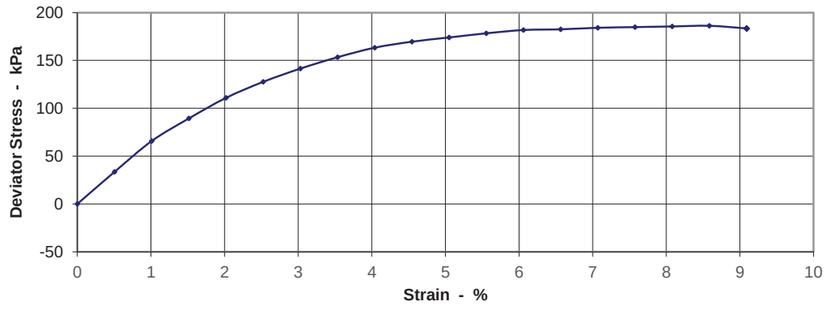
Test Details

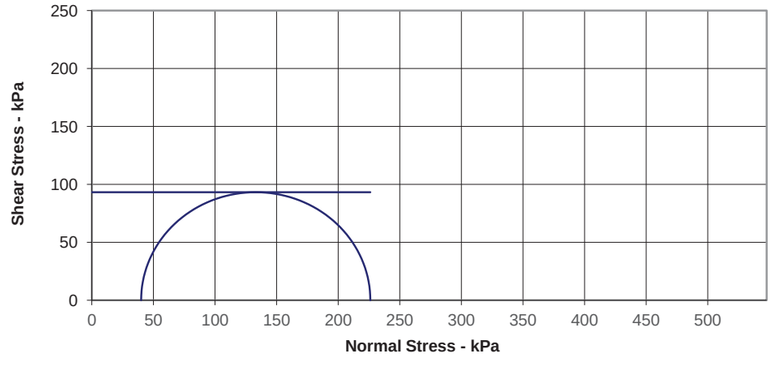
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.39
Rate of Axial Displacement	%/min	2.02
Cell Pressure	kPa	40
Strain at Failure	%	8.6
Maximum Deviator Stress	kPa	186
Shear Strength	kPa	93
Mode of Failure		Compound

Position and orientation within the original sample

Shear Strength Parameters		
C	93	kPa
Phi	0.0	°

Specimen 1





K4 SOILS LABORATORY
Unit 8, Olds Close, Watford, Herts, WD18 9RU.
Tel:01923711288 Fax:01923711311
E-mail: k4soils@aol.com

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

Test results relate only to the sample numbers shown above

Checked and Approved
Initials: kp
Date: 10/02/2015

UKAS TESTING 2519

K4 SOILS

Report of Undrained Triaxial Compression Test

BS 1377 : Part 7 : 1990 Clause 8.0

Project name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	06/02/2015
Project no:	J14387	**Our job /report no:**	18199	**Date Reported:**	10/02/2015
BH / TP no:	BH1	**Sample no:**	U2	**Depth (m):**	4.00

Soil Description: High strength fissured brown silty CLAY with scattered selenite crystals and occasional pockets of orange brown silt

Sample Details **Specimen 1**

Sample Condition		Undisturbed
Height	mm	198.0
Diameter	mm	102.0
Moisture Content	%	26
Bulk Density	Mg/m³	2.01
Dry Density	Mg/m³	1.59

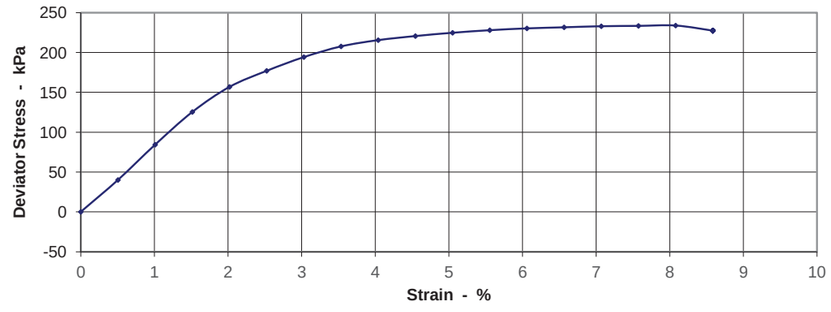
Test Details

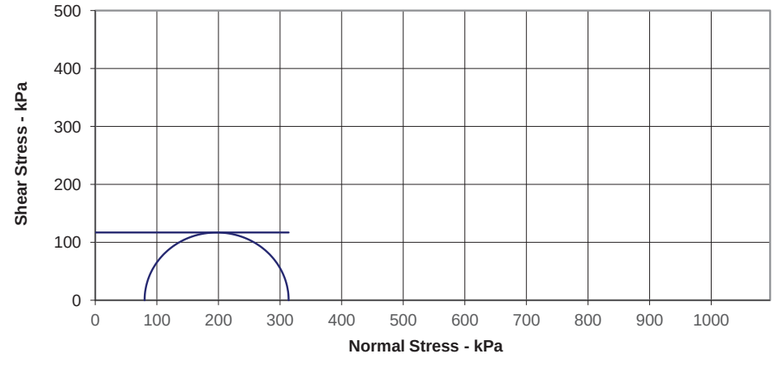
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.38
Rate of Axial Displacement	%/min	2.02
Cell Pressure	kPa	80
Strain at Failure	%	8.1
Maximum Deviator Stress	kPa	234
Shear Strength	kPa	117
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength Parameters		
C	117	kPa
Phi	0.0	°

Specimen 1





K4 SOILS LABORATORY
Unit 8, Olds Close, Watford, Herts, WD18 9RU.
Tel:01923711288 Fax:01923711311
E-mail: k4soils@aol.com

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

Test results relate only to the sample numbers shown above

Checked and Approved
Initials: kp
Date: 10/02/2015

UKAS TESTING 2519

Report of Undrained Triaxial Compression Test

K4 SOILS

BS 1377 : Part 7 : 1990 Clause 8.0

Project name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	06/02/2015
Project no:	J14387	**Our job /report no:**	18199	**Date Reported:**	10/02/2015
BH / TP no:	BH1	**Sample no:**	U3	**Depth (m):**	6.50

Soil Description: Very high strength fissured brown silty CLAY with scattered selenite

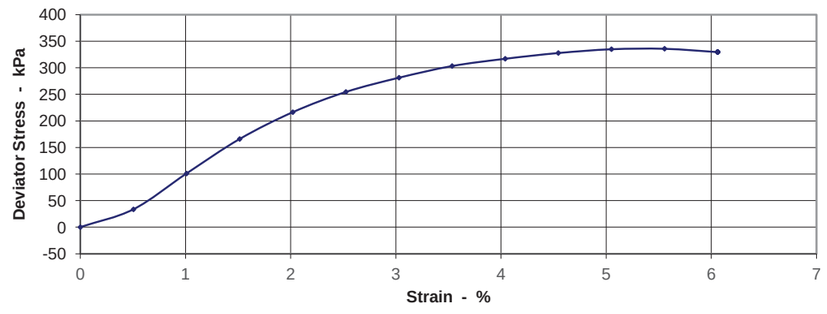
Sample Details	**Specimen**	**1**
Sample Condition		Undisturbed
Height	mm	198.0
Diameter	mm	102.0
Moisture Content	%	26
Bulk Density	Mg/m³	2.03
Dry Density	Mg/m³	1.61

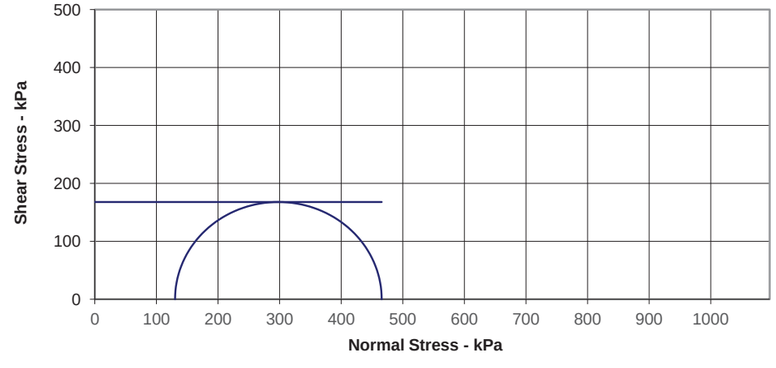
Test Details		
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.28
Rate of Axial Displacement	%/min	2.02
Cell Pressure	kPa	130
Strain at Failure	%	5.6
Maximum Deviator Stress	kPa	336
Shear Strength	kPa	168
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength Parameters		
C	168	kPa
Phi	0.0	°

Specimen 1





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Test results relate only to the sample numbers shown above

Checked and Approved
Initials: kp
Date: 10/02/2015

UKAS TESTING 2519

Report of Undrained Triaxial Compression Test

K4 SOILS

BS 1377 : Part 7 : 1990 Clause 8.0

Project name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	06/02/2015
Project no:	J14387	**Our job /report no:**	18199	**Date Reported:**	10/02/2015
BH / TP no:	BH1	**Sample no:**	U4	**Depth (m):**	9.50

Soil Description: Very high strength slightly fissured dark brownish grey silty CLAY

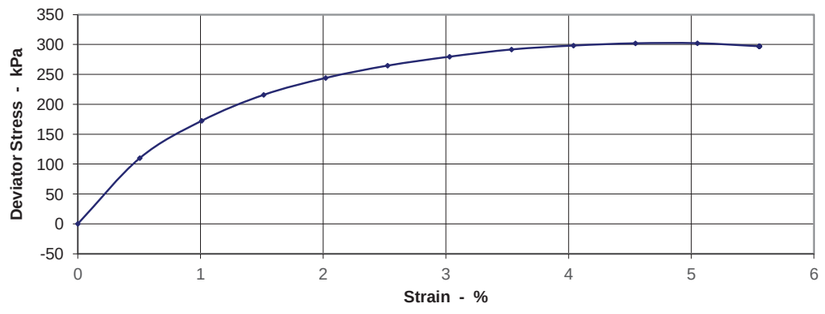
Sample Details	**Specimen**	**1**
Sample Condition		Undisturbed
Height	mm	198.0
Diameter	mm	102.0
Moisture Content	%	28
Bulk Density	Mg/m³	2.04
Dry Density	Mg/m³	1.59

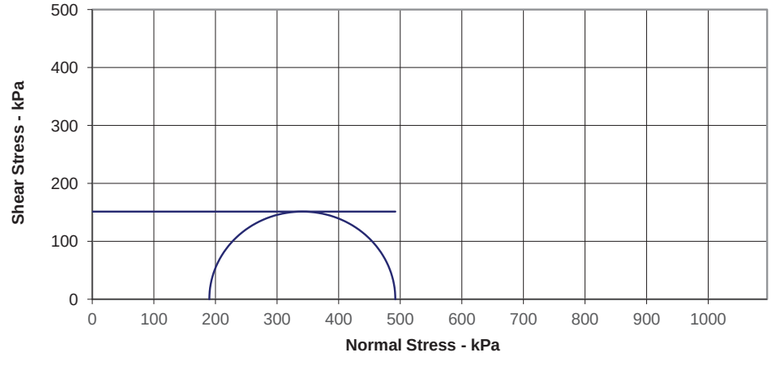
Test Details		
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.26
Rate of Axial Displacement	%/min	2.02
Cell Pressure	kPa	190
Strain at Failure	%	5.1
Maximum Deviator Stress	kPa	302
Shear Strength	kPa	151
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength Parameters		
C	151	kPa
Phi	0.0	°

Specimen 1





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

Test results relate only to the sample numbers shown above

Checked and Approved
Initials: kp
Date: 10/02/2015

UKAS TESTING 2519

K4 SOILS

Report of Undrained Triaxial Compression Test

BS 1377 : Part 7 : 1990 Clause 8.0

Project name:	55 Lancaster Grove, London, NW3 4HD			**Samples Received:**	16/01/2015
				Project Started:	20/01/2015
Client:	GEA			**Testing Started:**	06/02/2015
Project no:	J14387	**Our job /report no:**	18199	**Date Reported:**	10/02/2015
BH / TP no:	BH1	**Sample no:**	U5	**Depth (m):**	12.50

Soil Description: Very high strength fissured dark grey silty CLAY

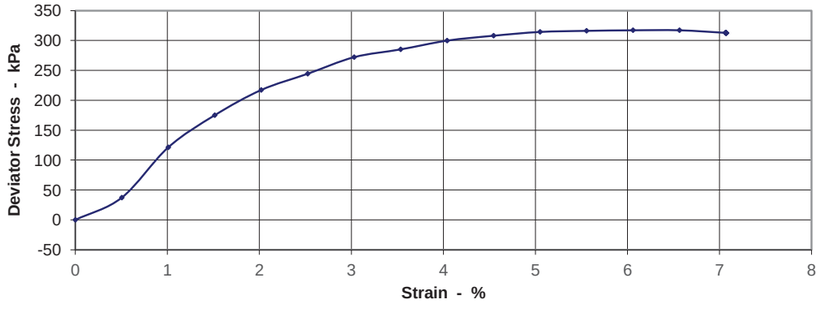
Sample Details		**Specimen 1**
Sample Condition		Undisturbed
Height	mm	198.0
Diameter	mm	102.0
Moisture Content	%	28
Bulk Density	Mg/m³	2.01
Dry Density	Mg/m³	1.57

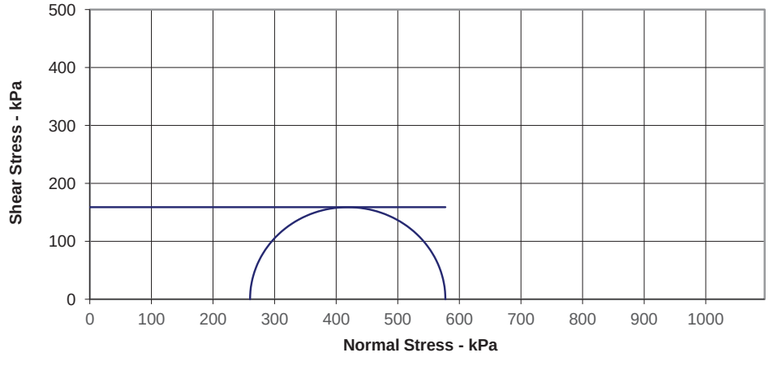
Test Details		
Membrane Thickness	mm	0.2
Membrane Correction	kPa	0.32
Rate of Axial Displacement	%/min	2.02
Cell Pressure	kPa	260
Strain at Failure	%	6.6
Maximum Deviator Stress	kPa	317
Shear Strength	kPa	159
Mode of Failure		Brittle

Position and orientation within the original sample

Shear Strength Parameters		
C	159	kPa
Phi	0.0	°

Specimen 1





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Checked and Approved
Initials: kp
Date: 10/02/2015

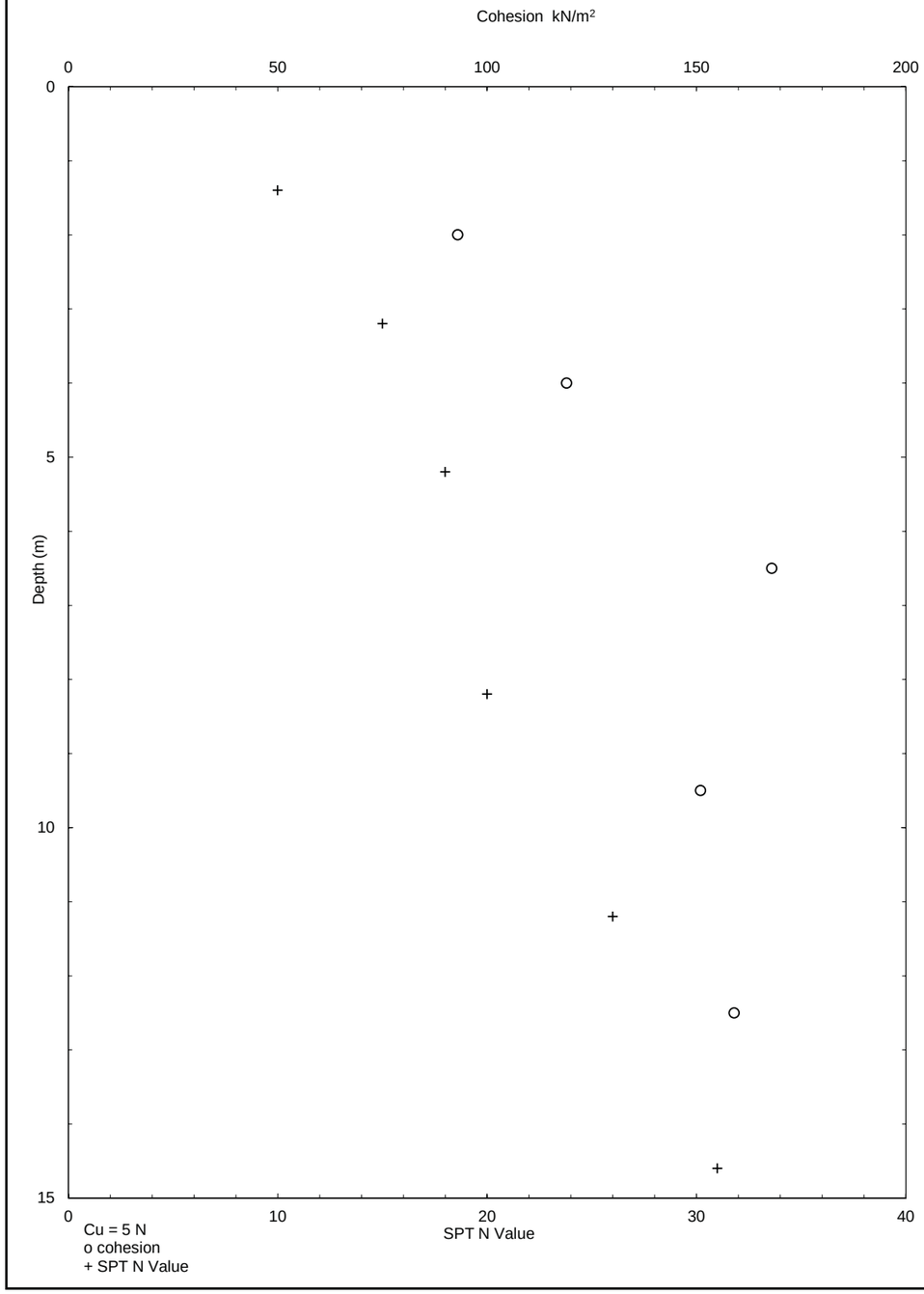
UKAS TESTING

2519

GEA Geotechnical & Environmental Associates
Tyttenhanger House
Coursers Road
St Albans
Herts AL4 0PG

SPT & Cohesion / Depth Graph

Site	55 Lancaster Grove, London, NW3 4HD	**Job Number**	J14387
Client	Mr and Mrs Etingen	**Sheet**	1 / 1
Engineer	Sinclair Johnson		



Final Report

UKAS TESTING 2183

Chemtest
The right chemistry to deliver results

Chemtest Ltd.
Depot Road
Newmarket
CB8 0AL
Tel: 01638 606070
Email: info@chemtest.co.uk

Report Number: 15-00534 Issue-1

Initial Date of Issue: 23-Jan-15

Client: GEA

Client Address: Tyttenhanger House
Coursers Road
Saint Albans
Hertfordshire
AL4 0PG

Contact(s): Juliette Forgham

Project: J14387 - 55 Lancaster Grove

Quotation No.:

Date Received: 13-Jan-15

Order No.:

Date Instructed: 20-Jan-15

No. of Samples: 4

Results Due: 22-Jan-15

Turnaround: (Weekdays) 3

Date Approved: 23-Jan-15

Approved By:

Details: Darrell Hall, Laboratory Director

Chemtest
The right chemistry to deliver results

Results Summary - Soil

Project: J14387 - 55 Lancaster Grove

Client: GEA				**Chemtest Job No.:**	15-00534	15-00534	15-00534	15-00534
Quotation No.:				**Chemtest Sample ID.:**	88390	88391	88392	88393
Order No.:				Client Sample Ref.:				
				Client Sample ID.:	BH2	BH3	BH4	BH5
				Sample Type:	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.2	0.1	0.5	0.3
				Bottom Depth(m):				
				Date Sampled:	07-Jan-15	07-Jan-15	07-Jan-15	07-Jan-15
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Moisture	N	2030	%	0.02	16	23	18	16
Stones	N	2030	%	0.02	< 0.020	< 0.020	< 0.020	< 0.020
Soil Colour	N				Brown	Brown	Brown	Brown
Other Material	N				Stones	StonesRoots	StonesRoots	StonesRoots
Soil Texture	N				Sand	Sand	Clay	Clay
pH	M	2010			10.8	7.7	8.6	8.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	1.6	0.31	0.073	0.049
Chloride (Extractable)	U	2220	g/l	0.01	0.12	0.010	0.010	< 0.010
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50	0.80
Sulphide (Easily Liberatable)	M	2325	mg/kg	0.5	0.80	1.7	1.8	1.8
Sulphate (Total)	M	2430	mg/kg	100	15000	3300	1900	1600
Arsenic	M	2450	mg/kg	1	23	39	21	36
Cadmium	M	2450	mg/kg	0.1	0.20	0.64	0.17	5.0
Chromium	M	2450	mg/kg	1	27	62	24	48
Copper	M	2450	mg/kg	0.5	29	100	48	97
Mercury	M	2450	mg/kg	0.1	0.70	1.6	2.7	1.4
Nickel	M	2450	mg/kg	0.5	22	45	21	46
Lead	M	2450	mg/kg	0.5	490	1400	890	920
Selenium	M	2450	mg/kg	0.2	< 0.20	0.51	< 0.20	0.27
Zinc	M	2450	mg/kg	0.5	45	420	73	500
Total Organic Carbon	M	2625	%	0.2	0.67	6.9	1.1	5.6
TPH >C5-C6	N	2670	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C6-C7	N	2670	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C7-C8	N	2670	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C8-C10	N	2670	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C10-C12	N	2670	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0
TPH >C12-C16	N	2670	mg/kg	1	< 1.0	2.3	< 1.0	2.9
TPH >C16-C21	N	2670	mg/kg	1	< 1.0	3.1	< 1.0	8.8
TPH >C21-C35	N	2670	mg/kg	1	< 1.0	14	< 1.0	24
Total TPH >C5-C35	N	2670	mg/kg	10	< 10	19	< 10	36
Naphthalene	M	2700	mg/kg	0.1	< 0.10	< 0.10	0.19	0.27
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	0.19	0.47
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	< 0.10	0.70	1.2

Chemtest
The right chemistry to deliver results

Results Summary - Soil

Project: J14387 - 55 Lancaster Grove

Client: GEA		Chemtest Job No.:		15-00534	15-00534	15-00534	15-00534	15-00534
Quotation No.:		Chemtest Sample ID.:		88390	88391	88392	88393	
Order No.:		Client Sample Ref.:						
		Client Sample ID.:		BH2	BH3	BH4	BH5	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.2	0.1	0.5	0.3	
		Bottom Depth(m):						
		Date Sampled:		07-Jan-15	07-Jan-15	07-Jan-15	07-Jan-15	07-Jan-15
Determinand	**Accred.**	**SOP**	**Units**	**LOD**				
Fluorene	M	2700	mg/kg	0.1	< 0.10	0.10	0.17	
Phenanthrene	M	2700	mg/kg	0.1	1.2	0.27	2.0	
Anthracene	M	2700	mg/kg	0.1	0.89	0.59	1.1	
Fluoranthene	M	2700	mg/kg	0.1	3.7	0.61	3.3	
Pyrene	M	2700	mg/kg	0.1	3.2	0.68	3.4	
Benzo[a]anthracene	M	2700	mg/kg	0.1	1.4	0.25	1.5	
Chrysene	M	2700	mg/kg	0.1	2.1	0.59	2.2	
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	2.0	0.29	2.3	
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	0.98	0.20	1.2	
Benzo[a]pyrene	M	2700	mg/kg	0.1	1.6	0.36	2.1	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	0.99	< 0.10	1.1	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	2.6	< 0.10	2.0	
Total Of 16 PAH's	M	2700	mg/kg	2	21	5.0	24	
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	

Chemtest
The right chemistry to deliver results

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable sample
N/E	not evaluated
<	"less than"
>	"greater than"

Comments or interpretations are beyond the scope of UKAS accreditation
The results relate only to the items tested
Uncertainty of measurement for the determinands tested are available upon request
None of the results in this report have been recovery corrected
All results are expressed on a dry weight basis
The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols
For all other tests the samples were dried at < 37°C prior to analysis
All Asbestos testing is performed at our Coventry laboratory
Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

A - Date of sampling not supplied
B - Sample age exceeds stability time (sampling to extraction)
C - Sample not received in appropriate containers
D - Broken Container

Sample Retention and Disposal

All soil samples will be retained for a period of 60 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.co.uk

GEA Geotechnical & Environmental Associates

Tyttenhanger House
Coursers Road
St Albans
AL4 0PG

Generic Risk-Based Soil Screening Values

Site	55 Lancaster Grove, London, NW3 4HD	**Job Number** J14387
Client	Mr and Mrs Etingen	**Sheet** 1 / 1
Engineer	Sinclair Johnson	

Proposed End Use Residential with plant uptake

Soil pH 8

Soil Organic Matter content % 6.0

Contaminant	Screening Value mg/kg	Data Source
Metals		
Arsenic	37	C4SL
Cadmium	26	C4SL
Chromium (III)	3000	LQM/CIEH
Chromium (VI)	21	C4SL
Copper	2,330	LQM/CIEH
Lead	200	C4SL
Elemental Mercury	1	SGV
Inorganic Mercury	170	SGV
Nickel	130	LQM/CIEH
Selenium	350	SGV
Zinc	3,750	LQM/CIEH
Hydrocarbons		
Benzene	0.87	C4SL
Toluene	610	SGV
Ethyl Benzene	350	SGV
Xylene	230	SGV
Aliphatic C5-C6	110	LQM/CIEH
Aliphatic C6-C8	370	LQM/CIEH
Aliphatic C8-C10	110	LQM/CIEH
Aliphatic C10-C12	540	LQM/CIEH
Aliphatic C12-C16	3000	LQM/CIEH
Aliphatic C16-C35	76,000	LQM/CIEH
Aromatic C6-C7	See Benzene	LQM/CIEH
Aromatic C7-C8	See Toluene	LQM/CIEH
Aromatic C8-C10	151	LQM/CIEH
Aromatic C10-C12	346	LQM/CIEH
Aromatic C12-C16	593	LQM/CIEH
Aromatic C16-C21	770	LQM/CIEH
Aromatic C21-C35	1230	LQM/CIEH
PRO (C_5 –C_{10})	1352	Calc
DRO (C_{12} –C_{28})	80,363	Calc
Lube Oil (C_{28} –C_{44})	77,230	Calc
TPH	**1000**	Trigger for speciated testing

Contaminant	Screening Value mg/kg	Data Source
Anions		
Soluble Sulphate	0.5 g/l	Structures
Sulphide	50	Structures
Chloride	400	Structures
Others		
Organic Carbon (%)	6	Methanogenic potential
Total Cyanide	140	WRAS
Total Mono Phenols	420	SGV
PAH		
Naphthalene	12.40	C4SL exp & LQM/CIEH
Acenaphthylene	850	LQM/CIEH
Acenaphthene	1,000	LQM/CIEH
Fluorene	780	LQM/CIEH
Phenanthrene	380	LQM/CIEH
Anthracene	9,200	LQM/CIEH
Fluoranthene	670	LQM/CIEH
Pyrene	1,600	LQM/CIEH
Benzo(a) Anthracene	8.7	C4SL exp & LQM/CIEH
Chrysene	14	C4SL exp & LQM/CIEH
Benzo(b) Fluoranthene	10.5	C4SL exp & LQM/CIEH
Benzo(k) Fluoranthene	15.0	C4SL exp & LQM/CIEH
Benzo(a) pyrene	5.00	C4SL
Indeno(1 2 3 cd) Pyrene	6.2	C4SL exp & LQM/CIEH
Dibenzo(a h) Anthracene	1.35	C4SL exp & LQM/CIEH
Benzo (g h i) Perylene	71	C4SL exp & LQM/CIEH
Screening value for PAH	**71.4**	B(a)P / 0.15
Chlorinated Solvents		
1,1,1 trichloroethane (TCA)	53.1	LQM/CIEH
tetrachloroethane (PCA)	2.4	LQM/CIEH
tetrachloroethene (PCE)	4.5	LQM/CIEH
trichloroethene (TCE)	0.598	LQM/CIEH
1,2-dichloroethane (DCA)	0.014	LQM/CIEH
vinyl chloride (Chloroethene)	0.00329	LQM/CIEH
tetrachloromethane (Carbon tetra	0.089	LQM/CIEH
trichloromethane (Chloroform)	3.86	LQM/CIEH

Notes

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

SGV - Soil Guideline Value, derived from the CLEA model and published by Environment Agency 2009

LQM/CIEH - Generic Assessment Criteria for Human Health Risk Assessment 2nd edition (2009)derived using CLEA 1.04 model 2009

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

C4SL exp & LQM/CIEH calculated using C4SL revisions to exposure assessment but LQM/CIEH health croiteria values

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

B(a)P / 0.15 - GEA experince indicates that Benzo(a) pyrene (one of the most common and most carcenogenic of the PAHs) rarely exceeds 15% of the total PAH concentration, hence this Total PAH threshold is regarded as being conservative

GEA Geotechnical & Environmental Associates

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
63233381_1_1

Customer Reference:
J14387

National Grid Reference:
527200, 184600

Slice:
A

Site Area (Ha):
0.05

Search Buffer (m):
1000

Site Details:

55 Lancaster Grove
LONDON
NW3 4HD

Client Details:

Mr S Branch
GEA Ltd
Tyttenhanger House
Coursers Road
St Albans
Herts
AL4 0PG

Landmark Information Group

Contents

Introduction

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

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

Report Version v49.0

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents					
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1			5	10
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3				Yes
Pollution Incidents to Controlled Waters	pg 3				1
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances	pg 3				37
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 9			1	6 (*13)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 14	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones	pg 14	1			2
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
Detailed River Network Lines	pg 15	Yes			n/a
Detailed River Network Offline Drainage					n/a

Order Number: 63233381_1_1 Date: 05-Jan-2015 rpr_ec_datasheet v49.0 A Landmark Information Group Service

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 18		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 21	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 22	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 22	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				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

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 23		19	24	121
Fuel Station Entries	pg 36				4
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 38				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Local Authority Pollution Prevention and Controls** Name: Chequers Textile Care Ltd Location: 48 Englands Lane, London, Nw3 4ue Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC47 Dated: 5th December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A13SE (E)	289	3	527498 184580
2	**Local Authority Pollution Prevention and Controls** Name: Swan Dry Cleaners Location: 163 Haverstock Hill, London, Nw3 4qt Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC42 Dated: 24th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	445	3	527371 185032
2	**Local Authority Pollution Prevention and Controls** Name: Perkins Dry Cleaners Location: 171 Haverstock Hill, London, Nw3 4qs Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC7 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A18SE (N)	457	3	527342 185055
3	**Local Authority Pollution Prevention and Controls** Name: Kings Dry Cleaners Location: 25 Winchester Road, London, E4 Authority: London Borough of Waltham Forest, Environmental Health Department Permit Reference: DC05 Dated: 6th July 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A12SE (SW)	464	4	526812 184310
4	**Local Authority Pollution Prevention and Controls** Name: Pyramid Cleaners Location: 52 Besize Lane, London, Nw3 5ar Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC8 Dated: 1st January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	492	3	526872 184985
5	**Local Authority Pollution Prevention and Controls** Name: Belsize Park Service Station Location: 215 Haverstock Hill, LONDON, NW3 4RE Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC21 Dated: 2nd January 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status:** **Permitted** Positional Accuracy: Automatically positioned to the address	A18SW (N)	607	3	527187 185227
6	**Local Authority Pollution Prevention and Controls** Name: Swiss Cottage Dry Cleaners Location: 121 Finchley Road, London, Nw3 6hy Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC10 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	643	3	526626 184270

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	**Local Authority Pollution Prevention and Controls** Name: The Dry Cleaners Of Hampstead Location: 80 Haverstock Hill, London, Nw3 2be Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC41 Dated: 25th June 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A14NE (E)	667	3	527875 184684
8	**Local Authority Pollution Prevention and Controls** Name: B P Harmony Location: 104a Finchley Road, London, NW3 5EY Authority: London Borough of Camden, Pollution Projects Team Permit Reference: Not Given Dated: 1st July 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status:** **Authorised** Positional Accuracy: Automatically positioned to the address	A12SW (W)	715	3	526471 184554
8	**Local Authority Pollution Prevention and Controls** Name: Bp Harmony Location: 104a Finchley Road, LONDON, NW3 5EY Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC18 Dated: 1st July 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status:** **Permitted** Positional Accuracy: Automatically positioned to the address	A12SW (W)	715	3	526471 184554
9	**Local Authority Pollution Prevention and Controls** Name: The Royal Free Hospital Location: Pond Street, LONDON, NW3 2QG Authority: London Borough of Camden, Pollution Projects Team Permit Reference: Not Given Dated: 24th July 1992 Process Type: Local Authority Air Pollution Control Description: PG5/1Clinical waste incineration processes under 1 tonne an hour **Status:** **Authorisation revokedRevoked** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	796	3	527296 185410
10	**Local Authority Pollution Prevention and Controls** Name: Primrose Valet Location: 91 Regent'S Park Road, London, Nw1 8ur Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC53 Dated: 28th January 2009 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	837	3	527917 184155
11	**Local Authority Pollution Prevention and Controls** Name: Top Choice Dry Cleaners Location: 96 Fleet Road, London, Nw3 2qx Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC13 Dated: 12th January 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Located by supplier to within 10m	A18NE (N)	912	3	527529 185471
12	**Local Authority Pollution Prevention and Controls** Name: Visage Location: 171 Malden Road, London, Nw5 4ht Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC50 Dated: 1st February 2008 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	916	3	527961 185143

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	**Local Authority Pollution Prevention and Controls** Name: Is Dry Cleaners Location: 6 Canfield Gardens, London, Nw6 3bs Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC18 Dated: 5th February 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A12NW (W)	932	3	526257 184662
	Nearest Surface Water Feature	A12SE (SW)	508	-	526768 184296
14	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Hampstead Road Lock, CAMDEN TOWN Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 17th December 1998 Incident Reference: THNE1998041401 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	992	5	528000 184000
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Royal Free Hospital, Pond Street, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bz9758 Dated: 5th January 2006 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	785	5	527299 185399
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Royal Free Hospital, Pond Street, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: By6010 Dated: 3rd August 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	785	5	527299 185399
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Royal Free Hospital, Pond Street, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bw7635 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	785	5	527299 185399
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Royal Free Hospital, Pond Street, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bj5694 Dated: 14th February 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	785	5	527299 185399

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Royal Free Hampstead NHS Trust Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, Greater London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AV8011 Dated: 25th October 1996 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	786	5	527292 185400
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, Greater London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AT8398 Dated: 17th January 1996 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	791	5	527292 185405
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, Greater London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AE8658 Dated: 24th March 1992 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of multiple open sources which are also the subject of authorisations **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	792	5	527302 185405
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: CD3170 Dated: 13th July 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Fleet Road, London, NW3 2QR Authority: Environment Agency, Thames Region Permit Reference: CB1915 Dated: 2nd October 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	796	5	527296 185410
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: CB5171 Dated: 2nd October 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185411

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: CB2954 Dated: 20th July 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to an authorisation under S13 or S14 RSA in respect of a registration under S7 when Technetium 99M is used being =< 10 gigabecquerels **Status: Authorisation either revoked or cancelledCancelled** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Ca2592 Dated: 13th April 2006 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bz9162 Dated: 9th December 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bz1617 Dated: 9th September 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Medical Physics Department, Royal Free Hospital, Pond Street, London, Greater London, NW3 2PF Authority: Environment Agency, Thames Region Permit Reference: By6001 Dated: 3rd August 2005 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bz0777 Dated: 14th July 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185411

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Medical Physics Department Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bz0831 Dated: 14th July 2005 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: By5714 Dated: 6th December 2004 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: By5706 Dated: 22nd November 2004 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Discretionary registration under the Act of an open source which is also the subject of an authorisation **Status: Application has been authorised and any conditions apply to the operatorAuthorised** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bw6841 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bw7643 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185411
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bt8759 Dated: 12th May 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bs4863 Dated: 25th July 2002 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Br6392 Dated: 29th April 2002 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, HAMPSTEAD, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Br6406 Dated: 29th April 2002 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Medical Physics Department, Royal Free Hospital, Pond Street, London, Greater London, NW3 2PF Authority: Environment Agency, Thames Region Permit Reference: Bm0214 Dated: 28th November 2001 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bj5708 Dated: 14th February 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Polymasc Pharmaceuticals Plc Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bj5678 Dated: 14th February 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation either revoked or cancelledCancelled** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Anthony Nolan Trust (Ant) Location: Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: Bj5716 Dated: 14th February 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185411
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Medical Physics Department, Royal Free Hospital, Pond Street, London, Greater London, NW3 2PF Authority: Environment Agency, Thames Region Permit Reference: BB6254 Dated: 27th October 1998 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AV1327 Dated: 11th August 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free And University College Medical School Of University College London Location: Medical Physics Department, Royal Free Hospital, Pond Street, London, Greater London, NW3 2PF Authority: Environment Agency, Thames Region Permit Reference: AR0403 Dated: 12th July 1995 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, Greater London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AR0446 Dated: 12th July 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527292 185410

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital,Pond Street,Hampstead, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AH9987 Dated: 21st June 1994 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead Nhs Trust Location: Royal Free Hospital, Pond Street, LONDON, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AB4095 Dated: 31st March 1991 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	5	527297 185410
15	**Registered Radioactive Substances** Name: Royal Free Hampstead NHS Trust Location: Royal Free Hospital, Pond Street, Hampstead, LONDON, Greater London, NW3 2QG Authority: Environment Agency, Thames Region Permit Reference: AR0373 Dated: 11th July 1995 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation superseded by a substantial or non substantial variationSuperseded** Positional Accuracy: Automatically positioned to the address	A18NE (N)	797	5	527302 185410
16	**Registered Radioactive Substances** Name: Polymasc Pharmaceuticals Plc Location: Anthony Nolan Building, Royal Free Hospital Site, Fleet Road; Hampstead, LONDON, Greater London, NW3 2EZ Authority: Environment Agency, Thames Region Permit Reference: AU4924 Dated: 20th February 1996 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation **Status: Authorisation either revoked or cancelledCancelled** Positional Accuracy: Manually positioned to the address or location	A18NE (N)	925	5	527500 185495
17	**Water Abstractions** Operator: London Borough Of Camden Licence Number: 28/39/39/0219 Permit Version: 1 Location: Swiss Cottage Open Space- Borehole Authority: Environment Agency, Thames Region Abstraction: Municipal Grounds: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swiss Cottage Open Space, Winchester Road, London. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A12SE (SW)	492	5	526800 184280

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	**Water Abstractions** Operator: London Borough Of Camden Licence Number: Th/039/0039/087 Permit Version: 1 Location: Swiss Cottage Open Space- Borehole Authority: Environment Agency, Thames Region Abstraction: Municipal Grounds: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swiss Cottage Open Space, Winchester Road, London Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th December 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	543	5	526750 184261
18	**Water Abstractions** Operator: London Borough Of Camden Licence Number: Th/039/0039/087 Permit Version: 1 Location: Swiss Cottage Open Space- Borehole Authority: Environment Agency, Thames Region Abstraction: Municipal Grounds: General Washing/Process Washing Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swiss Cottage Open Space, Winchester Road, London Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th December 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	543	5	526750 184261
18	**Water Abstractions** Operator: London Borough Of Camden Licence Number: Th/039/0039/087 Permit Version: 1 Location: Swiss Cottage Open Space- Borehole Authority: Environment Agency, Thames Region Abstraction: Municipal Grounds: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Swiss Cottage Open Space, Winchester Road, London Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 5th December 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	543	5	526750 184261
19	**Water Abstractions** Operator: Thames Water Utilities Ltd Licence Number: Th/039/0039/058 Permit Version: 1 Location: Borehole At Barrow Hill Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	988	5	527636 183697

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Water Abstractions** Operator: Thames Water Utilities Ltd Licence Number: 28/39/39/0231 Permit Version: 1 Location: Barrow Hill Pumping Station - Borehole Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barrow Hill Pumping Station Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	996	5	527640 183690
19	**Water Abstractions** Operator: Thames Water Utilities Ltd Licence Number: 28/39/39/0202 Permit Version: 1 Location: Barrow Hill Pumping Station - Borehole Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Barrow Hill Pumping Station Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	996	5	527640 183690
	Water Abstractions Operator: British Waterways Board Licence Number: 28/39/39/0173 Permit Version: 100 Location: Oval Road, Camden - Grand Union Regents Canal Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 20 Yearly Rate (m3): 7000 Details: Land At Oval Road, Camden, London Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th December 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1410	5	528490 184020
	Water Abstractions Operator: Canal And River Trust Licence Number: 28/39/39/0164 Permit Version: 101 Location: Southampton Bridge, London, Nw8 - Regents Canal Authority: Environment Agency, Thames Region Abstraction: Amenity: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pipeline Alongside The Regents Canal, London Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th December 2007 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1419	5	528500 184020

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: British Waterways Board Licence Number: 28/39/39/0164 Permit Version: 100 Location: Southampton Bridge, London, Nw8 - Regents Canal Authority: Environment Agency, Thames Region Abstraction: Amenity: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 3840 Yearly Rate (m3): 1 Details: Pipeline Alongside The Regents Canal, London Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th April 1983 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NW (SE)	1419	5	528500 184020
	Water Abstractions Operator: British Waterways Licence Number: 28/39/39/0164B Permit Version: Not Supplied Location: Southampton Bridge, LONDON, Nw8 Authority: Environment Agency, Thames Region Abstraction: Industrial Cooling (Cegb) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 3840 Yearly Rate (m3): 1 Details: Annual Abstraction Total Aggregated To Another Licence For Quantity Purposes. Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A10NW (SE)	1427	5	528500 184000
	Water Abstractions Operator: Zoological Society Of London Licence Number: 28/39/39/0035 Permit Version: 100 Location: Borehole At Regent'S Park, London Nw1 Authority: Environment Agency, Thames Region Abstraction: Zoos/Kennels/Stables: Animal Watering & General Use (Non Agricultural) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 59 Yearly Rate (m3): 681 Details: Regent'S Park, London Nw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th April 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	1429	5	528000 183400
	Water Abstractions Operator: Greenwich Leisure Limited Licence Number: 28/39/39/0091 Permit Version: 101 Location: Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Kentish Town Sports Centre, Prince Of Wales Road, London Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th May 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1591	5	528800 184700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Greenwich Leisure Limited Licence Number: 28/39/39/0091 Permit Version: 101 Location: Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: St. Pancras Public Baths, Prince Of Wales Road, London Nw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 25th May 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1591	5	528800 184700
	Water Abstractions Operator: Greenwich Leisure Ltd Licence Number: 28/39/39/0091 Permit Version: 101 Location: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: St. Pancras Public Baths, Prince Of Wales Road, London Nw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th April 2012 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1591	5	528800 184700
	Water Abstractions Operator: London Borough Of Camden Licence Number: 28/39/39/0091 Permit Version: 100 Location: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 605 Yearly Rate (m3): 76509 Details: Kentish Town Sports Centre, Prince Of Wales Road, London Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th June 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1591	5	528800 184700
	Water Abstractions Operator: London Borough Of Camden Licence Number: 28/39/39/0091 Permit Version: 100 Location: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: St. Pancras Public Baths, Prince Of Wales Road, London Nw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th June 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1591	5	528800 184700

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: London Borough Of Camden Licence Number: 28/39/39/0091 Permit Version: 100 Location: Two Bores At Kentish Town Sports Centre, Prince Of Wales St Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: St. Pancras Public Baths, Prince Of Wales Road, London Nw1 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 13th June 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NE (E)	1591	5	528800 184700
	Water Abstractions Operator: Abbey Lodge Rtm Company Limited Licence Number: 28/39/39/0115 Permit Version: 101 Location: Abbey Lodge, Park Road, London Nw8-Two Boreholes Authority: Environment Agency, Thames Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Abbey Lodge, Park Road, London Nw8 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(S)	1975	5	527420 182620
	Water Abstractions Operator: Wood Management Trustees Ltd Licence Number: 28/39/39/0115 Permit Version: 100 Location: Two Boreholes At Abbey Lodge, Park Road, London Nw8 Authority: Environment Agency, Thames Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 100 Yearly Rate (m3): 28640 Details: Abbey Lodge, Park Road, London Nw8 Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th November 1991 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1975	5	527420 182620
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 39 West London Scale: 1:100,000	A13SE (N)	0	5	527199 184601
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (N)	0	2	527199 184601
	Superficial Aquifer Designations No Data Available				
20	**Source Protection Zones** Name: Barrow Hill Source: Environment Agency, Head Office Reference: Th405 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SE (N)	0	5	527199 184601
21	**Source Protection Zones** Name: Barrow Hill Source: Environment Agency, Head Office Reference: Th405 Type: Zone I (Inner Protection Zone): Travel time of 50 days or less to the groundwater source.	A8NE (SE)	699	5	527485 183945

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Source Protection Zones** Name: Barrow Hill Source: Environment Agency, Head Office Reference: Th405 Type: Groundwater Source	A9SW (SE)	996	5	527640 183690
	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				
	Flood Defences None				
23	**Detailed River Network Lines** River Type: Extended Culvert (greater than 50m) River Name: St Agnes's Well Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk Management Status: Other Rivers Water Course Name: Not Supplied Water Course Reference: Not Supplied	A13NW (W)	0	5	527190 184601
	Detailed River Network Offline Drainage None				

Waste

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: London Borough of Camden - Has no landfill data to supply		0	8	527199 184601
	Local Authority Landfill Coverage Name: Westminster City Council - Has supplied landfill data		820	9	527050 183776

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 526761, 183848 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 24.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 78.00 mg/kg Lead Measured Concentration: 572.00 mg/kg Nickel Measured Concentration: 38.00 mg/kg	A7SE (SW)	851	2	526761 183848
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 526268, 184340 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 30.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 95.00 mg/kg Lead Measured Concentration: 689.00 mg/kg Nickel Measured Concentration: 45.00 mg/kg	A12SW (W)	950	2	526268 184340
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527766, 183762 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 18.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 86.00 mg/kg Lead Measured Concentration: 432.00 mg/kg Nickel Measured Concentration: 27.00 mg/kg	A9SW (SE)	998	2	527766 183762
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7189 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 0.90 mg/kg Cadmium Maximum Concentration: 165.20 mg/kg Chromium Minimum Concentration: 13.00 mg/kg Chromium Average Concentration: 79.00 mg/kg Chromium Maximum Concentration: 2094.00 mg/kg Lead Minimum Concentration: 11.00 mg/kg Lead Average Concentration: 280.00 mg/kg Lead Maximum Concentration: 10000.00 mg/kg Nickel Minimum Concentration: 2.00 mg/kg Nickel Average Concentration: 28.00 mg/kg Nickel Maximum Concentration: 506.00 mg/kg	A13SE (N)	0	2	527199 184601

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	2	527199 184601

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	**Contemporary Trade Directory Entries** Name: Hampstead Motor Services Ltd Location: 4, Lambolle Place, London, NW3 4PD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	88	-	527295 184591
24	**Contemporary Trade Directory Entries** Name: Belsize Motors Location: 3, Lambolle Place, London, NW3 4PD Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	90	-	527299 184600
24	**Contemporary Trade Directory Entries** Name: Autotech Hampsted Ltd Location: 3, Lambolle Place, London, NW3 4PD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	90	-	527299 184600
24	**Contemporary Trade Directory Entries** Name: Porsheworx Location: 2, Lambolle Place, London, NW3 4PD Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	92	-	527303 184607
24	**Contemporary Trade Directory Entries** Name: Rayden Location: 17, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	117	-	527326 184596
24	**Contemporary Trade Directory Entries** Name: Beta Lighting Ltd Location: 19, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Lighting Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	121	-	527332 184610
24	**Contemporary Trade Directory Entries** Name: Little & Pace Motors Location: 2-3 Eton Garages,Lambolle Pl, London, NW3 4PE Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A13SE (E)	137	-	527346 184596
24	**Contemporary Trade Directory Entries** Name: Mark One Motors Location: 5-6, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	137	-	527339 184570
24	**Contemporary Trade Directory Entries** Name: Hmc Fleet Maintenance Centre Location: 3, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	139	-	527346 184585
24	**Contemporary Trade Directory Entries** Name: Little & Pace Location: 3, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (E)	139	-	527346 184585
24	**Contemporary Trade Directory Entries** Name: Little & Pace Motors Ltd Location: 2, Eton Garages, Lambolle Place, London, NW3 4PE Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	140	-	527349 184592
25	**Contemporary Trade Directory Entries** Name: Cedo Ltd Location: 32, Eton Avenue, London, NW3 3HL Classification: Plastic Products - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SW (SW)	101	-	527135 184498

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Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	**Contemporary Trade Directory Entries** Name: Chalcot House Services Location: Flat 1, 51, Belsize Park Gardens, London, NW3 4JL Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (N)	117	-	527202 184737
26	**Contemporary Trade Directory Entries** Name: Chalcot House Services Ltd Location: Flat 4, 47, Belsize Park Gardens, London, NW3 4JL Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (N)	127	-	527182 184746
27	**Contemporary Trade Directory Entries** Name: Haywood Motors Ltd Location: A, 23, Lambolle Place, London, NW3 4PG Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	157	-	527361 184663
27	**Contemporary Trade Directory Entries** Name: Belsize Motors Location: A, 23, Lambolle Place, London, NW3 4PG Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (E)	157	-	527361 184663
27	**Contemporary Trade Directory Entries** Name: J A Harnett Location: 4, Lancaster Stables, Lambolle Place, London, NW3 4PH Classification: Antiques - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	173	-	527379 184661
28	**Contemporary Trade Directory Entries** Name: Gayle Mcvay Location: 52, Belsize Park Gardens, London, NW3 4ND Classification: Hats & Caps - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	201	-	527379 184728
29	**Contemporary Trade Directory Entries** Name: Scotts Location: Flat 15, Bray, Fellows Road, London, NW3 3JX Classification: Cabinet Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	250	-	527247 184337
30	**Contemporary Trade Directory Entries** Name: Kara Services Location: 38, Fellows Road, London, NW3 3LH Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	252	-	527417 184459
31	**Contemporary Trade Directory Entries** Name: Pearl & Black English Originals Location: 13, Belsize Grove, London, NW3 4UX Classification: Stationery Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	291	-	527340 184878
32	**Contemporary Trade Directory Entries** Name: Chequers Textile Care Ltd Location: 48, Englands Lane, London, NW3 4UE Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	293	-	527502 184579
32	**Contemporary Trade Directory Entries** Name: Chase Dry Cleaners Location: 74 Whittom,Primrose Hill Rd, London, NW3 4AB Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A13SE (E)	294	-	527493 184534
32	**Contemporary Trade Directory Entries** Name: R K P Hardware Location: 51, Englands Lane, London, NW3 4YD Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (E)	312	-	527517 184557

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**Contemporary Trade Directory Entries** Name: The Belsize Plumbing Co Ltd Location: 24, Belsize Grove, London, NW3 4TR Classification: Boilers - Servicing, Replacements & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	305	-	527399 184857
34	**Contemporary Trade Directory Entries** Name: Cleaners Of Camden Location: 34, Primrose Gardens, London, NW3 4TN Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NE (NE)	306	-	527485 184753
35	**Contemporary Trade Directory Entries** Name: Red Grey Ltd Location: 32, Englands Lane, London, NW3 4UE Classification: Electrical Goods Sales, Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NE (E)	311	-	527522 184625
36	**Contemporary Trade Directory Entries** Name: 47 Jours Design Location: 19, Glenloch Road, London, NW3 4DJ Classification: Soft Furnishings - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (N)	323	-	527191 184943
37	**Contemporary Trade Directory Entries** Name: Swan Dry Cleaners Location: 19, Lower Merton Rise, London, NW3 3RA Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	325	-	527226 184259
37	**Contemporary Trade Directory Entries** Name: Arrow Enterprises (Uk) Ltd Location: 13, Lower Merton Rise, London, NW3 3RA Classification: Chemicals & Allied Products **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NE (S)	353	-	527235 184231
38	**Contemporary Trade Directory Entries** Name: Allchin Pharmacy Location: 28, Englands Lane, London, NW3 4UE Classification: Pharmaceutical Manufacturers & Distributors **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NW (E)	325	-	527536 184627
39	**Contemporary Trade Directory Entries** Name: Soap Opera The Location: 8, Winchester Road, London, NW3 3NT Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (SW)	446	-	526882 184260
40	**Contemporary Trade Directory Entries** Name: Pest Control Location: Haverstock Hill, London, NW3 4QT Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	447	-	527372 185034
40	**Contemporary Trade Directory Entries** Name: Swans Location: 163, Haverstock Hill, London, NW3 4QT Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	447	-	527372 185034
40	**Contemporary Trade Directory Entries** Name: Perkins Dry Cleaners Location: 171, Haverstock Hill, London, NW3 4QS Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	457	-	527343 185055
40	**Contemporary Trade Directory Entries** Name: Professional Quality Dry Cleaning Location: 171, Haverstock Hill, London, NW3 4QS Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	457	-	527343 185055

Geotechnical & Environmental Associates

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	**Contemporary Trade Directory Entries** Name: Drennan & Co Location: 64, Belsize Park, London, NW3 4EH Classification: Door & Gate Operating Equipment **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	463	-	526723 184584
42	**Contemporary Trade Directory Entries** Name: Gems Dry Cleaning Co Ltd Location: 90, Belsize Lane, London, NW3 5BE Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	487	-	526784 184870
42	**Contemporary Trade Directory Entries** Name: Mr Lewis Cohens Fry Cleaning Co Location: 90, Belsize Lane, London, NW3 5BE Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	487	-	526784 184870
42	**Contemporary Trade Directory Entries** Name: Smoother You Ltd Location: 1, McCrone Mews, Belsize Lane, London, NW3 5BG Classification: Electrolysis **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	500	-	526777 184884
42	**Contemporary Trade Directory Entries** Name: Auto Reliant Suspension Co Location: 25, Daleham Mews, London, NW3 5DB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	508	-	526768 184884
42	**Contemporary Trade Directory Entries** Name: Comac Motors Location: 19, Daleham Mews, London, NW3 5DB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	521	-	526770 184911
42	**Contemporary Trade Directory Entries** Name: Daleham Garage Location: 14, Daleham Mews, London, NW3 5DB Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	529	-	526749 184894
42	**Contemporary Trade Directory Entries** Name: Continental Autos Location: 10, Daleham Mews, London, NW3 5DB Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NE (NW)	542	-	526749 184917
43	**Contemporary Trade Directory Entries** Name: The Master Cleaners Location: 189, Haverstock Hill, London, NW3 4QG Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	490	-	527300 185100
43	**Contemporary Trade Directory Entries** Name: Bromine & Chemicals Ltd Location: Second Floor, 201, Haverstock Hill, London, NW3 4QG Classification: Chemicals - Distributors & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	505	-	527267 185121
43	**Contemporary Trade Directory Entries** Name: Pest Control Hempstead Location: Haverstock Hill, London, NW3 4QG Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	507	-	527284 185120
43	**Contemporary Trade Directory Entries** Name: Pip Printing Location: 197, Haverstock Hill, London, NW3 4QG Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	507	-	527284 185120

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	**Contemporary Trade Directory Entries** Name: Pyramid Location: 52, Belsize Lane, London, NW3 5AR Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SW (NW)	490	-	526874 184984
45	**Contemporary Trade Directory Entries** Name: Modern Motors Ltd Location: 95 Adelaide Rd, London, NW3 3QB Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Manually positioned to the address or location	A14SW (SE)	495	-	527628 184339
46	**Contemporary Trade Directory Entries** Name: Belsize Park Cleaners Location: 192, Haverstock Hill, London, NW3 2AJ Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	522	-	527358 185118
46	**Contemporary Trade Directory Entries** Name: Belsize Park Cleaners Location: 192, Haverstock Hill, London, NW3 2AJ Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	522	-	527358 185118
46	**Contemporary Trade Directory Entries** Name: Cleaners Belsize Park Location: 200, Haverstock Hill, London, NW3 2AG Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	539	-	527333 185143
46	**Contemporary Trade Directory Entries** Name: Printline Location: B, 200, Haverstock Hill, London, NW3 2AG Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SE (N)	544	-	527329 185149
47	**Contemporary Trade Directory Entries** Name: Zerodegree Location: Flat 5, 1, Winchester Mews, London, NW3 3NH Classification: Air Conditioning & Refrigeration Contractors **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	530	-	526819 184203
48	**Contemporary Trade Directory Entries** Name: Clean 4 You Location: 55, Belsize Park, London, NW3 4EE Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	537	-	526650 184571
49	**Contemporary Trade Directory Entries** Name: Pearl & Black Location: Interchange Studios,Hampstead Town Hall Centre,321 Haverstoc, London, NW3 4QP Classification: Greeting Card Publishers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	541	-	527216 185161
50	**Contemporary Trade Directory Entries** Name: Komodo Location: 77c, King Henrys Road, London, NW3 3QU Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	577	-	527629 184199
50	**Contemporary Trade Directory Entries** Name: Komodo Location: 77, King Henrys Road, London, NW3 3QU Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	577	-	527629 184199

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**Contemporary Trade Directory Entries** Name: Trans-World Trading Ltd Location: 24, Northways Parade, London, NW3 5DN Classification: Photographic Equipment & Supplies - Wholesale **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	578	-	526630 184429
51	**Contemporary Trade Directory Entries** Name: Smart Choice Location: 23, Northways Parade, London, NW3 5DN Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	578	-	526630 184429
52	**Contemporary Trade Directory Entries** Name: Abbas Location: 85, Haverstock Hill, London, NW3 4RL Classification: Brass & Copper Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	585	-	527792 184687
53	**Contemporary Trade Directory Entries** Name: Volvo Cars Location: 1, Northways Parade, London, NW3 5EN Classification: Car Dealers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	599	-	526596 184482
53	**Contemporary Trade Directory Entries** Name: Kwik-Fit Location: 1, Northways Parade, London, NW3 5EN Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	599	-	526596 184482
53	**Contemporary Trade Directory Entries** Name: Speedway Location: 1, Northways Parade, London, NW3 5EN Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	599	-	526596 184482
54	**Contemporary Trade Directory Entries** Name: Plycraft Industries Location: 7, Parkhill Road, London, NW3 2YH Classification: Furniture Manufacturers - Home & Office **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (NE)	601	-	527746 184892
55	**Contemporary Trade Directory Entries** Name: Bp Location: Belzier Park Service Station, 215, Haverstock Hill, London, NW3 4QE Classification: Petrol Filling Stations - 24 Hour **Status: Active** Positional Accuracy: Automatically positioned to the address	A18SW (N)	607	-	527188 185227
56	**Contemporary Trade Directory Entries** Name: Oven Cleaning Belsize Park Location: 250 Haverstock Hill, London, NW3 2AE Classification: Oven cleaning **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A18SE (N)	612	-	527249 185230
57	**Contemporary Trade Directory Entries** Name: Browns Industrial Group Ltd Location: 75, Haverstock Hill, London, NW3 4SL Classification: Sheet Metal Work **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NW (E)	622	-	527831 184662
57	**Contemporary Trade Directory Entries** Name: The Ranelagh Press Location: 84, Haverstock Hill, London, NW3 2BD Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NW (E)	657	-	527864 184691
57	**Contemporary Trade Directory Entries** Name: The Dry Cleaners Of Hampstead Location: 80, Haverstock Hill, London, NW3 2BE Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14NE (E)	667	-	527875 184684

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	**Contemporary Trade Directory Entries** Name: Printing.Com Location: 3, Harben Parade, Finchley Road, London, NW3 6JP Classification: Printers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (W)	627	-	526586 184404
58	**Contemporary Trade Directory Entries** Name: Kall Kwik Location: 3, Harben Parade, Finchley Road, London, NW3 6JP Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (W)	627	-	526586 184404
58	**Contemporary Trade Directory Entries** Name: A K Design & Print Location: 3, Harben Parade, Finchley Road, London, NW3 6JP Classification: Printers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A12SE (W)	627	-	526586 184404
59	**Contemporary Trade Directory Entries** Name: Hot Chiu Location: Garden Flat, 26, Fitzjohns Avenue, London, NW3 5NB Classification: Food Products - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	632	-	526607 184839
60	**Contemporary Trade Directory Entries** Name: Swiss Cottage Dry Cleaners Location: 121, Finchley Road, London, NW3 6HY Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	645	-	526623 184270
60	**Contemporary Trade Directory Entries** Name: London Overground Rail Operations Location: 125, Finchley Road, London, NW3 6HY Classification: Railways **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	649	-	526612 184282
60	**Contemporary Trade Directory Entries** Name: Fuji Photo Film (Uk) Ltd Location: 125, Finchley Road, London, NW3 6HY Classification: Photographic Equipment & Supplies - Wholesale **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (SW)	649	-	526612 184282
61	**Contemporary Trade Directory Entries** Name: Fairfax Engineering Location: 1, Regency Parade, Finchley Road, London, NW3 5EQ Classification: Catering Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	526694 184166
61	**Contemporary Trade Directory Entries** Name: Medoroux Medical Ltd Location: 11, Regency Parade, Finchley Road, London, NW3 5EG Classification: Medical Equipment Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	526694 184166
61	**Contemporary Trade Directory Entries** Name: Balco Ltd Location: 8, Regency Parade, Finchley Road, London, NW3 5EG Classification: Ventilators & Ventilation Systems **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	526694 184166
61	**Contemporary Trade Directory Entries** Name: Oxyvita Ltd Location: 11, Regency Parade, Finchley Road, London, NW3 5EG Classification: Medical Instruments - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	526694 184166
61	**Contemporary Trade Directory Entries** Name: My 1st Call Locksmith Location: 4, Regency Parade, Finchley Road, London, NW3 5EG Classification: Lock Suppliers and Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	526694 184166

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
61	**Contemporary Trade Directory Entries** Name: Golf Doktor Location: Regency Pde,Finchley Rd, London, NW3 5EG Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	681	-	526652 184162
62	**Contemporary Trade Directory Entries** Name: Zapem Pest Control London Location: 26, Downside Crescent, London, NW3 2AS Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	650	-	527537 185179
62	**Contemporary Trade Directory Entries** Name: Camden Cleaners Location: 14, Lawn Road, London, NW3 2XS Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	674	-	527581 185180
63	**Contemporary Trade Directory Entries** Name: No1derland.Com Location: 11, Aspern Grove, LONDON, NW3 2AU Classification: Musical Instrument - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	674	-	527356 185276
64	**Contemporary Trade Directory Entries** Name: Nta Cleaning Services Location: 13, New College Parade, London, NW3 5EP Classification: Commercial Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (W)	686	-	526502 184527
64	**Contemporary Trade Directory Entries** Name: Bp (Hampstead) Service Station Location: A, 104, Finchley Road, London, NW3 5EY Classification: Petrol Filling Stations - 24 Hour **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (W)	715	-	526471 184554
65	**Contemporary Trade Directory Entries** Name: Bonsai Breakdown Location: Flat 7, Noel House, Harben Road, London, NW6 4RL Classification: Car Breakdown & Recovery Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	695	-	526510 184423
66	**Contemporary Trade Directory Entries** Name: Cork & Bottle Wines Ltd Location: 47, Ainger Road, London, NW3 3AH Classification: Bottle Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	745	-	527797 184141
66	**Contemporary Trade Directory Entries** Name: Fabric Lab Location: 54, Ainger Road, London, NW3 3AH Classification: Textile Manufacturing **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	746	-	527822 184175
67	**Contemporary Trade Directory Entries** Name: Camden & Islington Trust Location: 17, Lyndhurst Gardens, London, NW3 5NU Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A17SE (NW)	753	-	526829 185274
68	**Contemporary Trade Directory Entries** Name: Agfa-Digital Photosnap Ltd Location: 171, Finchley Road, London, NW3 6LB Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	770	-	526419 184522
69	**Contemporary Trade Directory Entries** Name: Aderin Trading Co Location: 31, Wood Field, Parkhill Road, London, NW3 2YA Classification: Leather Merchants & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	775	-	527701 185217

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
70	**Contemporary Trade Directory Entries** Name: Remapol Location: Flat 18, Hornbeam House, Maitland Park Villas, London, NW3 2EJ Classification: Furniture - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19SE (NE)	775	-	527890 184991
71	**Contemporary Trade Directory Entries** Name: Ariel Medical Ltd Location: 4, Maitland Park Road, London, NW3 2ES Classification: Medical Equipment Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	782	-	527991 184676
72	**Contemporary Trade Directory Entries** Name: Northern Extremes Ltd Location: 4, Erskine Road, London, NW3 3AJ Classification: Footwear Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	783	-	527860 184166
72	**Contemporary Trade Directory Entries** Name: Clothing Co Location: 6, Erskine Road, London, NW3 3AJ Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	793	-	527883 184184
72	**Contemporary Trade Directory Entries** Name: Somerville Amy Location: Leeder House, 6, Erskine Road, London, NW3 3AJ Classification: Furniture Manufacturers - Home & Office **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	793	-	527883 184184
72	**Contemporary Trade Directory Entries** Name: D & Mc Automobiles Location: A, 89, Regents Park Road, London, NW1 8UY Classification: Car Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	820	-	527890 184144
72	**Contemporary Trade Directory Entries** Name: Mel-Art Graphics Location: 158, Regents Park Road, London, NW1 8XN Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	864	-	527925 184115
72	**Contemporary Trade Directory Entries** Name: Blossom & Browne Ltd Location: 160, Regents Park Road, London, NW1 8XN Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	865	-	527928 184120
72	**Contemporary Trade Directory Entries** Name: R J Welsh Location: 156, Regents Park Road, London, NW1 8XN Classification: Hardware **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	865	-	527922 184111
73	**Contemporary Trade Directory Entries** Name: Raniar Ltd Location: Charles House, 108-110, Finchley Road, London, NW3 5JJ Classification: Manufacturers **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A12NW (W)	792	-	526395 184617
73	**Contemporary Trade Directory Entries** Name: Custom Made Furniture Location: Barkat House, 116-118, Finchley Road, London, NW3 5HT Classification: Furniture Manufacturers - Home & Office **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	813	-	526376 184647
73	**Contemporary Trade Directory Entries** Name: Cross Weir Ltd Location: Barkat House, 116-118, Finchley Road, London, NW3 5HT Classification: Valve Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	813	-	526376 184647

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	**Contemporary Trade Directory Entries** Name: Cleaning Services (Belsize Park) Location: 64, Parkhill Road, London, NW3 2YT Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Automatically positioned to the address	A19SW (NE)	794	-	527761 185189
75	**Contemporary Trade Directory Entries** Name: The Royal Free Hospital & School Of Medicine Location: Royal Free Hospital, Pond Street, London, NW3 2QG Classification: Hospitals **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	-	527297 185410
75	**Contemporary Trade Directory Entries** Name: The Royal Free Hospital Location: Royal Free Hospital, Pond Street, London, NW3 2QG Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	-	527297 185410
75	**Contemporary Trade Directory Entries** Name: The Royal Free Hospital School Of Medicine Location: Royal Free Hospital, Pond Street, London, NW3 2QG Classification: Corrosion Prevention & Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	796	-	527297 185410
76	**Contemporary Trade Directory Entries** Name: Clean With Us Ltd Location: Flat 8, Leitch House, Alexandra Road, London, NW8 0SE Classification: Boat Cleaning Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NE (SW)	802	-	526567 184075
77	**Contemporary Trade Directory Entries** Name: New Brooms Location: 11, Chamberlain Street, London, NW1 8XB Classification: Cleaning Services - Domestic **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	811	-	527846 184095
77	**Contemporary Trade Directory Entries** Name: Andrew Moor Associates Location: 14, Chamberlain Street, London, NW1 8XB Classification: Stained Glass Designers & Producers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	825	-	527862 184093
77	**Contemporary Trade Directory Entries** Name: Bearoak Ltd Location: 73, Regents Park Road, London, NW1 8UY Classification: Cleaning Services - Commercial **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	834	-	527872 184093
77	**Contemporary Trade Directory Entries** Name: R Danzig & Sons Ltd Location: 65, Regents Park Road, London, NW1 8XD Classification: Furriers **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	842	-	527862 184066
77	**Contemporary Trade Directory Entries** Name: Gale Furs Location: 65, Regents Park Road, London, NW1 8XD Classification: Furriers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	842	-	527862 184066
78	**Contemporary Trade Directory Entries** Name: Robert Dyas Ltd Location: 183, Finchley Road, London, NW3 6LB Classification: Hardware **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SW (W)	819	-	526368 184568
78	**Contemporary Trade Directory Entries** Name: Snappy Snaps Location: 189, Finchley Road, London, NW3 6LB Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	821	-	526365 184581

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**Contemporary Trade Directory Entries** Name: H Khan Location: 17, Goldhurst Terrace, London, NW6 3HX Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	854	-	526333 184546
78	**Contemporary Trade Directory Entries** Name: Silk Dry Cleaner Location: 17, Goldhurst Terrace, London, NW6 3HX Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	854	-	526333 184546
78	**Contemporary Trade Directory Entries** Name: Silk Dry Cleaning Location: 17, Goldhurst Terrace, London, NW6 3HX Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	854	-	526333 184546
79	**Contemporary Trade Directory Entries** Name: Ampersand Location: 37c, Maresfield Gardens, London, NW3 5SG Classification: Lampshade Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	822	-	526425 184896
80	**Contemporary Trade Directory Entries** Name: Layal Location: 10, St. Georges Terrace, London, NW1 8XH Classification: Lingerie & Hosiery Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NW (SE)	830	-	527800 184012
81	**Contemporary Trade Directory Entries** Name: Pauline Thomas Location: Unit 2, 32, Lawn Road, London, NW3 2XU Classification: Candle Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	830	-	527577 185362
81	**Contemporary Trade Directory Entries** Name: Back To Bed Mattress & Bed Ltd Location: Unit 2, 32, Lawn Road, London, NW3 2XU Classification: Bed & Mattress Manufacturers **Status: Active** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	830	-	527577 185362
81	**Contemporary Trade Directory Entries** Name: Ormonde Jayne Location: Unit 1, 32, Lawn Road, London, NW3 2XU Classification: Perfume Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	830	-	527577 185362
82	**Contemporary Trade Directory Entries** Name: Anthony Rau Location: 38, Fairfax Road, London, NW6 4HA Classification: Cabinet Makers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	860	-	526391 184257
82	**Contemporary Trade Directory Entries** Name: Cleansville Location: 39, Fairfax Road, London, NW6 4EL Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SW (W)	874	-	526362 184295
82	**Contemporary Trade Directory Entries** Name: Paper Moon Location: 53, Fairfax Road, London, NW6 4EL Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (W)	899	-	526350 184254
83	**Contemporary Trade Directory Entries** Name: The Studio Location: 170, Regents Park Road, London, NW1 8XN Classification: Perfume Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	869	-	527946 184141

Geotechnical & Environmental Associates

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	**Contemporary Trade Directory Entries** Name: P H Factor Location: 172, Regents Park Road, London, NW1 8XN Classification: Toiletries **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	870	-	527949 184145
84	**Contemporary Trade Directory Entries** Name: Bloomsbury Dsp Location: 77B Fleet Rd, London, NW3 2QU Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A18NE (N)	879	-	527436 185467
85	**Contemporary Trade Directory Entries** Name: Wilkinson Freed (Veneers) Ltd Location: 124, Finchley Road, London, NW3 5HT Classification: Veneer Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NW (W)	881	-	526319 184738
85	**Contemporary Trade Directory Entries** Name: Hairaway Location: 128, Finchley Road, London, NW3 5HT Classification: Electrolysis **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	895	-	526308 184759
85	**Contemporary Trade Directory Entries** Name: Colorama Location: Flat 1, 223, Finchley Road, London, NW3 6LP Classification: Photographic Processors **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12NW (W)	901	-	526293 184703
85	**Contemporary Trade Directory Entries** Name: Gerald Wise & Co Ltd Location: 225a, Finchley Road, London, NW3 6LP Classification: Metal Industries - Primary **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	909	-	526286 184714
85	**Contemporary Trade Directory Entries** Name: Quicksilver Refiners Ltd Location: 225a, Finchley Road, London, NW3 6LP Classification: Metal Industries - Primary **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	909	-	526286 184714
86	**Contemporary Trade Directory Entries** Name: American Dry Cleaners Location: 4, Chalk Farm Parade, Adelaide Road, London, NW3 2BN Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A14SE (E)	898	-	528085 184411
87	**Contemporary Trade Directory Entries** Name: Top Choice Location: 96, Fleet Road, London, NW3 2QX Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	913	-	527528 185473
87	**Contemporary Trade Directory Entries** Name: Alva Lighting Location: 4, Ella Mews, London, NW3 2NH Classification: Lighting Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	924	-	527534 185482
88	**Contemporary Trade Directory Entries** Name: Spellbound Entertainment Ltd Location: 6, Primrose Mews, Sharpleshall Street, London, NW1 8YW Classification: Television & Video Manufacturers & Wholesalers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	915	-	527925 184028
89	**Contemporary Trade Directory Entries** Name: Pest Control Camden Location: 196 Malden Rd, London, NW5 4BS Classification: Pest & Vermin Control **Status: Active** Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	918	-	527897 185227

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	**Contemporary Trade Directory Entries** Name: Sunny Clean Location: Alexandra Rd, London, NW8 0DR Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	922	-	526453 184025
90	**Contemporary Trade Directory Entries** Name: Sunny Clean Location: Alexandra Rd, London, NW8 0DR Classification: Cleaning Services - Domestic **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	922	-	526453 184025
91	**Contemporary Trade Directory Entries** Name: Visage Location: 171 Malden Rd, London, NW5 4HT Classification: Dry Cleaners **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	929	-	527984 185133
91	**Contemporary Trade Directory Entries** Name: Kentish Town Scaffolders Location: Malden Rd, Kentish Town, London, NW5 4HT Classification: Scaffolding & Work Platforms **Status: Active** Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	929	-	527984 185133
92	**Contemporary Trade Directory Entries** Name: House Of Mistry Location: 15, South End Road, LONDON, NW3 2PT Classification: Pharmaceutical Manufacturers & Distributors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18NE (N)	929	-	527251 185547
92	**Contemporary Trade Directory Entries** Name: The American Dry Cleaning Co Ltd Location: 29, South End Road, London, NW3 2PT Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A18NE (N)	961	-	527236 185581
93	**Contemporary Trade Directory Entries** Name: Esquire Location: 6, Canfield Gardens, London, NW6 3BS Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	934	-	526255 184661
93	**Contemporary Trade Directory Entries** Name: Capacity Uk Ltd Location: 1-3, Canfield Place, London, NW6 3BT Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NW (W)	941	-	526251 184691
93	**Contemporary Trade Directory Entries** Name: Satellite Distribution Location: 1-3, Canfield Place, London, NW6 3BT Classification: Distribution Services **Status: Active** Positional Accuracy: Manually positioned to the address or location	A12NW (W)	941	-	526251 184691
93	**Contemporary Trade Directory Entries** Name: Oil & Gas Services Group Ltd Location: 4-6, Canfield Place, London, NW6 3BT Classification: Oil & Gas Exploration Supplies & Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12NW (W)	969	-	526222 184685
94	**Contemporary Trade Directory Entries** Name: Cincimanio Location: 60, Dunboyne Road, London, NW3 2YY Classification: Architectural Woodwork **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	934	-	527784 185355
94	**Contemporary Trade Directory Entries** Name: A M Location: 71, Dunboyne Road, London, NW3 2YY Classification: Waste Disposal Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	942	-	527795 185357

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	**Contemporary Trade Directory Entries** Name: Mercantile Radio Services Ltd Location: 134a, Gloucester Avenue, London, NW1 8JA Classification: Telecommunications Equipment & Systems **Status: Active** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	940	-	528056 184199
95	**Contemporary Trade Directory Entries** Name: London Communications Plc Location: 134-136, Gloucester Avenue, London, NW1 8JA Classification: Radio Communication Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	940	-	528056 184199
95	**Contemporary Trade Directory Entries** Name: London Communications Plc Location: 134-136, Gloucester Avenue, London, NW1 8JA Classification: Radio Communication Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A9NE (SE)	940	-	528056 184199
96	**Contemporary Trade Directory Entries** Name: Schmitt Automobile Services Ltd Location: 109, Goldhurst Terrace, London, NW6 3HA Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7NW (W)	970	-	526282 184233
97	**Contemporary Trade Directory Entries** Name: Pristine Location: 21, Cheriton, Queens Crescent, London, NW5 4EZ Classification: Dry Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	980	-	528144 184920
98	**Contemporary Trade Directory Entries** Name: Hope & Piaget Location: Unit 12/13, Burmarsh Workshops, 71, Marsden Street, London, NW5 3JA Classification: Antiques - Repairing & Restoring **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	988	-	528192 184738
98	**Contemporary Trade Directory Entries** Name: Jayne Ormonde Ltd Location: Unit 14, Burmarsh Workshops, 71, Marsden Street, London, NW5 3JA Classification: Candle Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A14NE (E)	988	-	528192 184738
98	**Contemporary Trade Directory Entries** Name: Stop The Press Location: Unit 2, Burmarsh Workshops, 71, Marsden Street, London, NW5 3JA Classification: Screen Process Printers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A14NE (E)	988	-	528192 184738
99	**Contemporary Trade Directory Entries** Name: 1 A Pest Control Location: Call Centre,Regents Pk Rd, London, NW1 8BB Classification: Pest & Vermin Control **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (E)	988	-	528166 184364
100	**Fuel Station Entries** Name: Belsize Park Service Station Location: Belzier Park Service Station, 215, Haverstock Hill, London, NW3 4QE Brand: BP Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A18SW (N)	607	-	527187 185227
101	**Fuel Station Entries** Name: Hampstead Connect Location: 104a, Finchley Road, London, NW3 5EY Brand: BP Premises Type: Petrol Station **Status: Open** Positional Accuracy: Automatically positioned to the address	A12SW (W)	715	-	526471 184554

Industrial Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	**Fuel Station Entries** Name: Star Chalk Farm Location: 81-85 Chalk Farm Road, Chalk Farm, LONDON, NW1 8AR Brand: Texaco Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Approximate location provided by supplier	A14SE (E)	972	-	528174 184481
103	**Fuel Station Entries** Name: Boundary Road Service Station Location: 150 Loudon Road, St Johns Wood, LONDON, NW8 0DH Brand: Total Premises Type: Not Applicable **Status: Obsolete** Positional Accuracy: Automatically positioned to the address	A7NW (SW)	986	-	526423 183961

Sensitive Land Use

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	**Local Nature Reserves** Name: Belsize Wood Multiple Area: N Area (m2): 2722.99 Source: Natural England Designation Date: 28th March 2012	A18SE (NE)	659	7	527490 185214