Former Mansfield Bowling Club
Croftdown Road
London
NW5 1SB

Desk Study and Basement
Impact Assessment Report

Harrison Varma

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Rev 1

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EXECUTIVE SUMMARY

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

BRIEF

This report describes the findings of a pre-planning geotechnical assessment carried out by Geotechnical and Environmental Associates (GEA) on the instructions of Harrison Varma. The purpose of the work has been to determine the history of the site, to assess the potential for contamination, and to review any possible impact of the proposed redevelopment on the local soil and groundwater regime. The proposed redevelopment of the site comprises the construction of a new care home on the site of a former bowling club building, together with a community garden, children's playground and tennis courts on the northern part of the site. The new building will include a single level basement, extending to a depth of approximately 3.5 m below the central and western parts of the proposed u-shaped building. The report also includes information required to comply with the London Borough of Camden Planning Guidance, CPG Basements, with regard to the provision of a Basement Impact Assessment (BIA).

The assessment has been carried out through a review of a number of previous reports, including a BIA undertaken Trian & Kemp (rev 03, dated January 2015), a site investigation undertaken by K F Geotechnical (ref G/061319/101, dated June 2013) and a Flood Risk and Drainage Statement (report ref J671-02A, dated January 2015) and Utilities Statement (report ref J671-03A, dated January 2015), completed by Ardent Consulting Engineers.

DESK STUDY FINDINGS

The earliest map studied, dated 1850, shows the site to be undeveloped, with a track running through the centre of the site and a second track immediately to the west and northwest. By the time of the next map, dated 1871, the site can be seen to form part of Dartmouth Park, with a series of small ponds to the north and housing in the region of 100 m to the east, south, north and west. A road bisected the site, whilst two reservoirs are shown approximately 160 m to the east-northeast. The site and surrounding area remained essentially unaltered until some time between 1879 and 1895, when the was shown to comprise a tennis ground, with a small pavilion on the south-western part of the site. The area immediately to the north of the site is shown to comprise allotment gardens, with the former ponds no longer shown. At some time between 1896 and 1915, the site was renamed as a 'Bowling & Tennis Ground, with a larger pavilion building having been added next to the site's western boundary, along with a series of small ancillary structures on the eastern and southern parts of the site. The existing bowling green on the north-western part of the site was established between 1920 and 1936, with tennis courts on the north-eastern and southern part of the site. Other than being renamed as the Mansfield Bowling Club, the site and surrounding area remained essentially unaltered until some time between 1970 and 1974, when the former tennis courts on the southern part of the site were replaced with the recently demolished bowling club building. The site and surrounding area have since remained essentially unaltered, until the recent demolition of the former bowling club building.

On the basis of the desk study findings, the contamination risk has been assessed as very low. However, it would be prudent to test a limited number of samples for a general contamination suite for the purpose of waste disposal.

GROUND CONDITIONS

The British Geological Survey (BGS) map of the area indicates that the site is underlain by London Clay from the surface, which was generally confirmed by the previous investigation of the site, in that, beneath a nominal thickness of made ground, London Clay was encountered and proved to the full depth of the investigation, of 10.0 m. The London Clay is classified as Unproductive Strata by the Environment Agency and cannot therefore support groundwater flow or a water table.

BASEMENT IMPACT ASSESSMENT

A number of potential impacts have been identified as a result of the screening exercise, but all of these impacts can be mitigated by appropriate design and standard construction practice. The proposed development is unlikely to result in any specific groundwater or land stability issues. However, further consultation is likely to be required with Thames Water with respect to the existing sewer below the site.

1.0 INTRODUCTION

Geotechnical and Environmental Associates (GEA) has been commissioned by Harrison Varma to carry out a desk study and Basement Impact Assessment (BIA), for the proposed redevelopment of the former Mansfield Bowling Club, Croftdown Road, London NW5 1SB.

The site was previously the subject of a planning approval (ref 2015/1444/P) for a proposed residential development, which was granted on appeal in January 2017. The proposals have now been amended and this report has been produced in support of the revised scheme.

The site has been the subject of the following reports that are pertinent to this assessment;

- a Basement Impact Assessment (rev 03), completed by Train and Kemp in January 2015, and including the findings of a factual site investigation completed by K F Geotechnical (ref G/061319/101, dated June 2013);
- a Flood Risk and Drainage Statement (report ref J671-02A, dated January 2015) and a Utilities Statement (report ref J671-03A, dated January 2015), completed by Ardent Consulting Engineers; and
- a Basement Impact Assessment Audit (report ref AJMlt2066-07-280515-D1, dated June 2015), completed by Campbell Reith Consulting Engineers.

Copies of these reports have been provided to GEA by the client and are referred to where appropriate.

1.1 Proposed Development

It is understood that it is proposed to construct a new two-storey to four-storey care home on the footprint of the former Mansfield Bowling Club building. The new building will be u-shaped in form and will include a single level basement, extending to a depth of approximately 3.5 m, beneath the central and western parts of this structure.

The development is also understood to include a community garden, children's playground and tennis courts on the northern part of the site.

This report is specific to the proposed development and the advice herein should be reviewed if the development 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 area, particularly with respect to any previous or present potentially contaminative uses;
- to check records of data on groundwater, surface water and other publicly available environmental data;
- to assess the possible impact of the proposed development on the local hydrogeology;
- to use the information obtained in the above searches to carry out a qualitative risk assessment with respect to subsurface contamination;

- to provide preliminary recommendations with respect to the construction of the proposed development including new retaining walls and foundations, based on the previous investigation and archived borehole data from surrounding sites; and
- to provide a preliminary assessment of the impact of the proposed development on groundwater, surface water and land stability in support of a planning application.

1.3 Scope of Work

In order to meet the above objectives, a desk study was carried out, comprising, in summary, the following activities:

- a review of readily available geological and hydrogeological maps;
- a review of publicly available environmental data sourced from the Envirocheck database;
- a review of historical Ordnance Survey (OS) maps supplied by Envirocheck;
- a review of the previous reports produced for the site, including the previous site investigation by K F Geotechnical;
- a review of records from previous nearby investigations
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

1.3.1 Basement Impact Assessment (BIA)

The work carried out also includes information required for a Hydrological and Hydrogeological Assessment and Land Stability Assessment (also referred to as Slope Stability Assessment), which form part of the BIA procedure specified in the London Borough of Camden (LBC) Planning Guidance: Basements[1] and their Guidance for Subterranean Development[2] prepared by Arup. The aim of this work is to provide information on the groundwater conditions specific to this site and land stability, in particular to assess whether the development will affect the stability of neighbouring properties and whether any identified impacts can be appropriately mitigated.

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

1 London Borough of Camden Planning Guidance (2021) *Basements*
2 Ove Arup & Partners (2010) *Camden geological, hydrogeological and hydrological study. Guidance for Subterranean Development.* For London Borough of Camden November 2010

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 some 30 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 research carried out. The results of the research should be viewed in the context of the work that has been carried out and no liability can be accepted for matters outside the stated scope of the research. Any comments made on the basis of information obtained from third parties are given in good faith on the assumption that the information is accurate. No independent validation of third-party information has been made by GEA.

2.0 THE SITE

2.1 Site Description

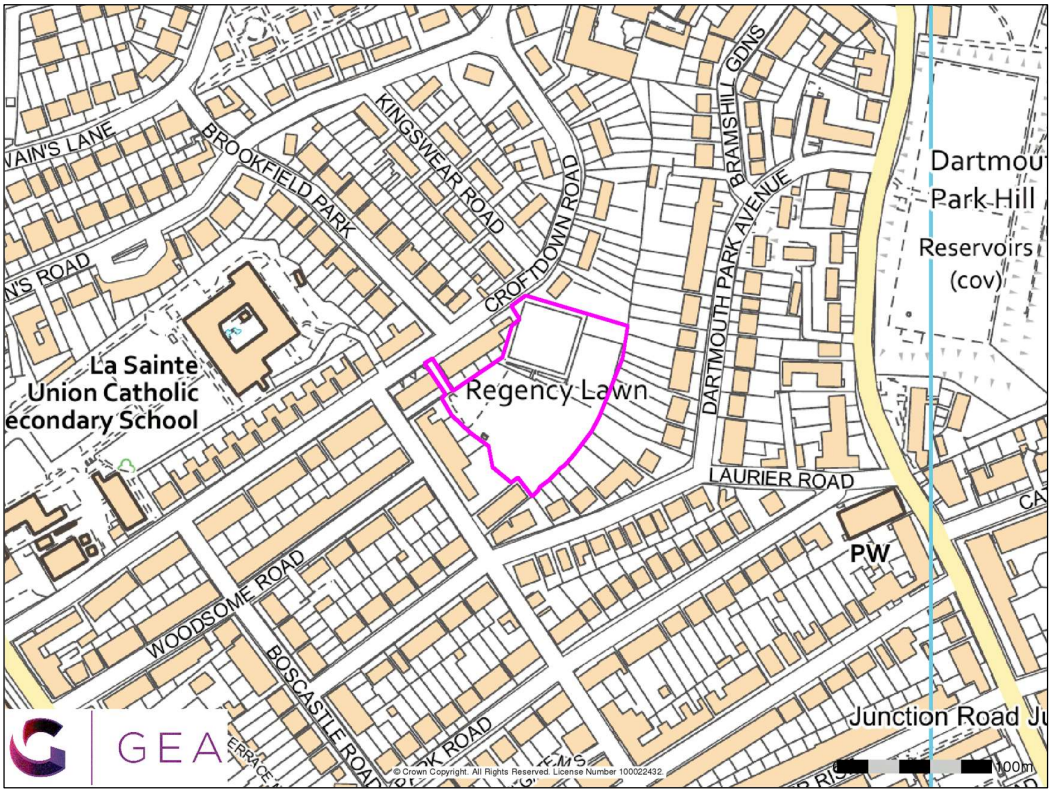
The site is located in the London Borough of Camden, roughly 525 m northwest of Tufnell Park London Underground station, and 400 m to the east of the far eastern extent of Hampstead Heath (Parliament Hill Tennis Courts). It is irregular in shape and measures approximately 100 m northeast-southwest by 70 m northwest-southeast and is almost entirely enclosed by the rear gardens of properties fronting onto Croftdown Road, York Rise, Laurier Road and Dartmouth Park Avenue.

The site may be additionally located by the National Grid Reference 528740, 186270 and is shown on the map extract overleaf.

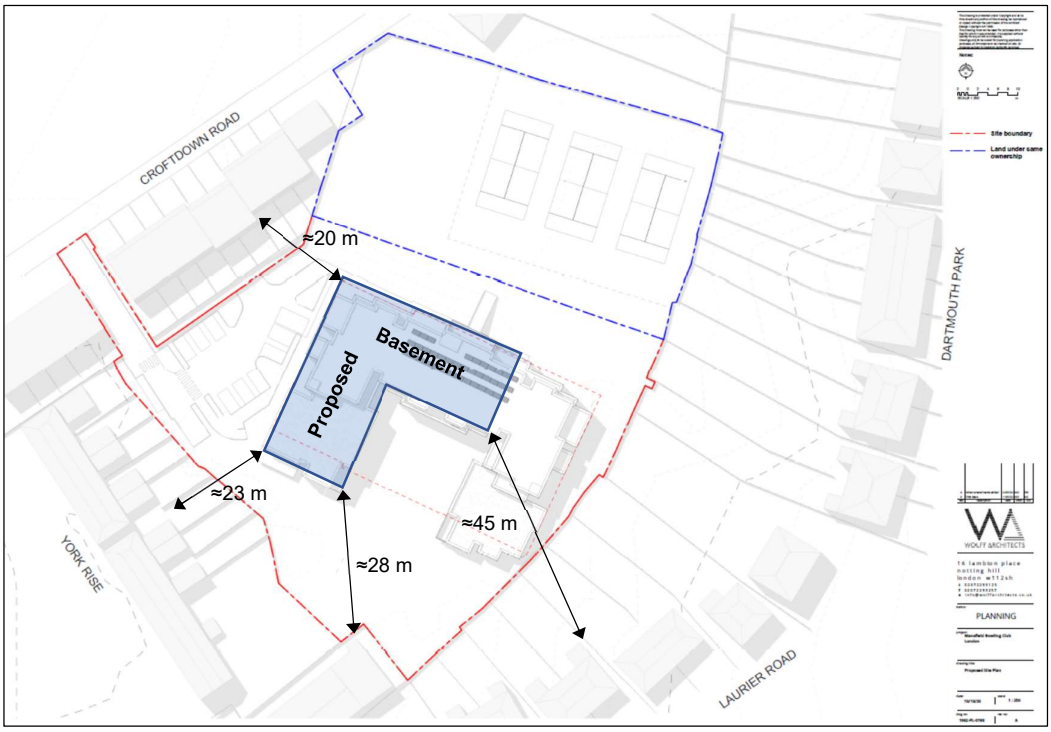
The site was until recently occupied by a bowling club clubhouse and indoor bowling green, which comprised a three-storey steel framed structure that occupied an essentially level area on the central-southern part of the site. To the west and south of this building was an area of car parking, with an access road leading out onto Croftdown Road, whilst the northern part of the site was occupied by an outdoor bowling green, two clay tennis courts and a small pavilion building. There are a number of mature trees on site, primarily to the northeast and east of the former bowling club building, whilst there are numerous mature trees in the gardens of the adjoining properties on all sides of the site.

Information obtained from the previous BIA, carried out by Train and Kemp, indicates that the ground surface slopes down in a generally southerly direction across the site, with a fall in level of around 2.0 m, giving an average gradient in the order of 1 in 50 (approx. 1°). Steeper slopes are present within the rear gardens of the adjoining properties along Dartmouth Park Avenue to the east and northeast of the site, with an average gradient in the order of 1 in 9 (approx. 6°).

The site is located within the Dartmouth Park Conservation Area but does not include, nor is in the vicinity of, any listed structures. A small 'tank' is present on the southern part of the site.



As per the previous planning application, the proposed care home and associated basement will occupy a similar footprint as the former bowling club building, with the proposed basement, as shown on drawing extract below.



The new basement is therefore located at some distance from any nearby structures, with the nearest building being approximately 20 m, and therefore outside the likely zone of influence of the proposed excavations of approximately 14 m, based on four times the retained height of 3.5 m.

2.2 Site History

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

The earliest map studied, dated 1850, shows the site to be undeveloped, with a track running in a north-south orientation through the centre of the site and a second track immediately to the west and northwest.

By the time of the next map, dated, 1871, the site formed part of Dartmouth Park, with a series of small ponds to the north and housing about 100 m to the east, south, north and west. A northwest-southeast orientated road bisected the site, linking St Albans Road to the northwest with Brecknock Road to the southeast, whilst two reservoirs are shown approximately 160 m to the east-northeast. The existing railway line was present over 300 m to the southeast.

The site and surrounding area remained essentially unaltered until some time between 1879 and 1895, when the existing housing immediately to the south and east of the site was established, whilst the site was shown to comprise a tennis ground, with a small pavilion on the south-western part of the site and the former road having been removed. The area immediately to the north of the site is shown to comprise allotment gardens, with the former ponds no longer shown, whilst a Parish Room was present next to the south-eastern corner of the site.

At some time between 1896 and 1915, the site was renamed as a 'Bowling & Tennis Ground, with a larger pavilion building added next to the western boundary of the site, along with a series of small ancillary structures on the eastern and southern parts of the site.

The existing bowling green on the north-western part of the site was established between 1920 and 1936, together with tennis courts on the north-eastern and southern part of the site. Over the same period, Croftdown Road and the existing housing to the north of the site was also established.

Other than being renamed as the Mansfield Bowling Club, the site and surrounding area remained essentially unaltered until some time between 1970 and 1974, when the former tennis courts on the southern part of the site were replaced with the recently demolished bowling club building. The former pavilion to the west of the site had also been removed, with the existing housing along Croftdown Road to the west and southwest of the site having been established.

The site and surrounding area have since remained essentially unaltered, until the recent demolition of the former bowling club building.

2.3 Other Information

A search of public registers and databases has been made via the Envirocheck database and a summary of the results of this search is included in the Appendix. More detailed information relating to the search can be provided on request.

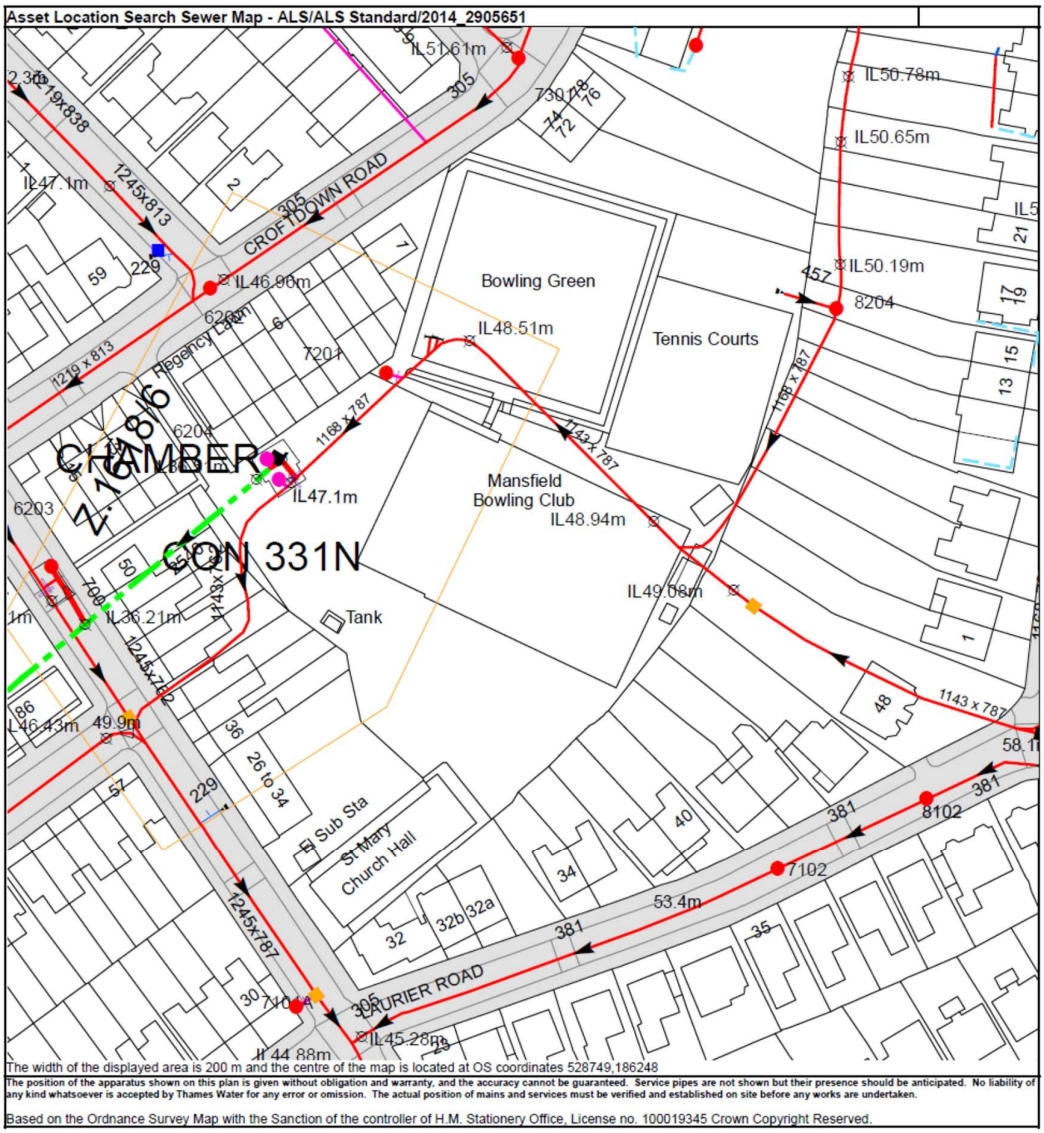
The desk study research has indicated that there are no registered landfills, historic landfills, registered waste management, transfer treatment or disposal sites or areas of potentially infilled

land (non-water) within 500 m of the site. Three areas of potentially infilled land (water) are recorded within 500 m of the site, relating to the former ponds 20 m, 23 m and 100 m to the north.

There are no pollution incidents or controls that relate directly to the site, or within the near vicinity that are likely to have had any adverse impact.

There are no contemporary trade directories, commercial services, manufacturing and production, or public infrastructure entries within 150 m of the site and no fuel stations within 250 m.

The site is not located in close vicinity of any London Underground or Network rail tunnels. However, it is understood that an existing brick sewer runs below the north-eastern corner of the former bowling club building, as shown on the Thames Water map extract overleaf.



The sewer is understood to be 1.1 m by 0.8 m in section and is present a relatively shallow depth beneath the footprint the former bowling club / proposed new building.

Reference to records compiled by the Health Protection Agency (formerly the National Radiological Protection Board) indicates that the site falls within a non-affected area, where less than 1% of homes are estimated to be at or above the action level. As a result, radon protective measures will not be necessary.

Information on Urban Soil Chemistry provided by the BGS also indicates that background concentrations for lead in the vicinity of the site are likely to range between 300 mg/kg and 600 mg/kg. Therefore, whilst relatively high concentrations of lead may be encountered within any near surface soils present on the site, a significant proportion of the measured concentration is likely to be the result of residual airborne sources, and this will need to be taken account of in any subsequent risk assessment.

The site is not located within a nitrate vulnerable zone and no sensitive land uses have been identified in the vicinity.

3.0 GROUND CONDITIONS

3.1 Soil Conditions

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

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 a silty fine-grained sand.

GEA has previously carried out ground investigations at Nos 17, 29, 43 and 56 Croftdown Road, all to the southwest of the site, which generally found the area to be underlain by a variable thickness of made ground over the London Clay Formation, which comprised stiff fissured brown slightly silty clay with bluish grey veins, occasional selenite crystals and occasional claystone nodules, extending to a depth of 9.00 m, below which stiff fissured grey slightly silty slightly sandy clay was encountered, and extended to the full depth investigated, of 18.00 m.

3.2 Surface Water and Groundwater Conditions

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 London Clay is not capable of supporting a groundwater table, although isolated pockets of perched groundwater do occur within fissures and silt and sand partings. Published data for the permeability of the London Clay indicates the horizontal permeability to generally range between 1 x 10^{-11} m/s and 1 x 10^{-9} m/s, with an even lower vertical permeability.

During the previous GEA investigations, groundwater was generally not encountered, although perched water was encountered within the made ground in a single trial pit on one of the sites.

The nearest surface water feature is located 121 m to the west and relates to a water feature within the central courtyard of the nearby secondary school building.

Reference to the Lost Rivers of London[3] indicates that a tributary of the River Fleet flowed along the present line of Croftdown Road, immediately to the north and north-east of the site, where it converged with the main course of the Highgate branch of the River Fleet, and flowed in a southerly direction down York Rise, less than 25 m to the west of the site. However, there is no evidence of these former water courses on the historical maps, such that they are likely to have been culverted prior to 1850 and otherwise incorporated into the local sewer system beneath the existing road network.

The site is not located within an area at risk of flooding from rivers or sea, as defined by the Environment Agency, nor is it identified by the BGS at being as risk from groundwater flooding. However, it is identified as having a risk of surface water flooding.

A flood risk assessment, undertaken by Ardent Consulting Engineers (report ref J671-02A, dated January 2015), also confirmed that there is a potential risk of surface water flooding across the site. However, it concludes that potential surface water flows from the nearby streets were likely to bypass the site, such that the actual risk of surface water flooding is considered to be very low.

Information provided by the client indicates that the development will result in a decrease in the ratio of hard to soft landscaped area and as such there will not be an increase in runoff rate or volume into the existing sewer system that could have a potentially adverse impact on the surrounding area. There should not, therefore, be any requirement for any mitigation measures.

3.3 Previous Site investigation

A ground investigation, comprising a series of three flight-auger boreholes, extending to depths of between 6.6 m and 10.0 m, was completed by KF Geotechnical (ref G/061319/101, dated June 2013) and reported on by Train and Kemp (report ref 12014, dated June 2013).

The investigation generally encountered the expected ground conditions in that, beneath a nominal thickness of made ground, London Clay was encountered and proved to the full depth of the investigation.

The following table summarises the ground conditions.

Stratum	Depth to base (m below ground level)	Description
Made Ground	0.5 to 0.7	Dark brown gravelly silty clay with brick fragments.
London Clay	1.7 to 2.4	Firm to "stiff" orange-brown silty clay with partings of silt and fine sand and rootlets to depths of between 1.5 m and 2.4 m; desiccated soil encountered in Borehole No 2, to a depth of 1.2 m.
	10.0*	Stiff becoming very stiff grey silty clay with occasional partings of silt and fine sand and occasional claystones.

**Maximum depth investigated.*

[3] Nicholas Barton & Stephen Myers (2016) *The Lost Rivers of London.* Historical Publications Ltd

Groundwater was not encountered in any of the boreholes.

Standpipes were installed in Borehole Nos 2 and 3 and were both found to be dry after a period of one week. During the second visit, carried out approximately one week later, a small amount of water was found to be present at the base of one of the standpipes, at a depth of 7.45 m, whilst the second standpipe remined dry.

Based on the findings of the investigation and subsequent monitoring visits, it was concluded that the water encountered towards the base of one of the standpipes was likely to represent an isolated inflow from a small body of perched water, either from the overlying made ground, or water trapped around a claystone, which was then unable to drain away due to the low permeability of the clay soils at the base of the installation.

4.0 CONTAMINATION RISK ASSESSMENT

4.1 Environmental Risks

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. As part of the new regime local authorities are required to carry out inspections of their area to identify sites that may be contaminated. 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 establishing one or more "pollution linkages"; a pollution linkage requires a source of contamination, a sensitive target or receptor that is at risk from the contamination and a pathway by which the contamination can travel from the source to the target.

A risk assessment should be carried out for consideration by the Local Planning Authority (LPA) before the planning application is determined. Where unacceptable risks are identified proposals will need to be made to address these risks as part of the development process. The guidance recognises the benefits of a phased approach, and the desk study is the first phase in the process of investigating and identifying contamination to assist in the determination of a planning application.

4.1.1 Source

The desk study research has indicated that the site does not have a potentially contaminative history, having been developed with a former tennis ground and the more recent Mansfield Bowling Club, prior to which it comprised open park land. In addition, the site is situated in a predominantly residential area and is almost entirely enclosed by the gardens of the surrounding houses.

An above ground tank is shown on the southern part of the site, which could represent a potential source of contamination. However, it is assumed that this feature is bunded and will be removed as part of the proposed development, such that it is not considered to represent a significant source of potential or on-going contamination.

Made ground is present on the site, but was demonstrated by the previous investigation to be of limited thickness (≤ 0.7 m) and to predominantly comprise re-worked natural soils with inert fragments of brick and a low organic content. No evidence of contamination was observed

within these materials, and it is off insufficient thickness and make-up to comprise a potential source of soil gas.

There are no historical or existing landfill sites within 1 km of the site and the former ponds, located 20 m, 23 m and 100 m to the north of the site, were presumably infilled over 125 years ago, such that a risk of soil gas migrating onto the site has not been identified.

4.1.2 Receptor

Following the redevelopment, residential end users will represent relatively high sensitivity receptors. Site workers and future maintenance workers are likely to come into direct contact with any contaminants present in the soil. Buried services and foundation concrete are likely to come into contact with any contaminants present within the soils through which they pass.

The site is underlain by unproductive strata such that groundwater is not considered to be a receptor.

4.1.3 Pathway

The site is directly underlain by low permeability London Clay and there is a limited pathway for the migration of potential contaminants on or off-site, except through made ground. The proposed development will result in the removal of any made ground from within the footprint of the proposed basement. However, made ground is likely to remain over the rest of the site and existing pathways will remain.

The negligible permeability of the underlying London Clay Formation will limit the potential for groundwater percolation into the underlying chalk, and thus a pathway is not considered likely to exist to the Principal Aquifer. The construction phase is considered to be a pathway by which site workers and new buried services may come in contact with any contamination.

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 basement.

4.1.4 Preliminary Risk Appraisal

In accordance with the guidelines provided by CIRIA[4], the following table summarises possible pollution linkages for the site.

SOURCE	RECEPTOR	PATHWAY	PROBABILITY	CONSEQUENCE
Contamination within near surface soils resulting from past use of the site or adjacent sites	End users	Ingestion of contaminated soil or dust, through skin contact or inhalation	Unlikely	Medium
	Groundwater	Percolation and leaching of surface run-off	Unlikely	Mild
	Site workers	Ingestion of contaminated soil or dust, through skin contact or inhalation	Low likelihood	Mild
	Buried services and Foundation concrete	Direct contact	Low likelihood	Mild

4 Rudland, DJ, Lancefield, RM and Mayell, PN (2001) *Contaminated land risk assessment. A guide to good practice. CIRIA C552*

SOURCE	RECEPTOR	PATHWAY	PROBABILITY	CONSEQUENCE
	Adjacent sites	Surface water flow or drain runs dust	Low likelihood	Mild

This method of risk evaluation involves classification of the magnitude of the potential consequence (severity) and probability (likelihood) of the risk. The method by which these factors are classified is detailed in the Appendix. On the basis of the consequence and probability the site can be attributed a level of risk, ranging from very low to very high and the procedure for making this assessment is shown in the Appendix, together with a description of each level of assessed risk and the actions that may be required to mitigate the risk.

On this 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 any requirement for any remediation work. It would be prudent to carry out chemical analyses on samples of the near surface soil to assess the presence of soil contamination before the excavation of the basement, for purpose of waste disposal classification.

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.

5.0 BASEMENT SCREENING ASSESSMENT

The 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) is required. A number of screening tools are included in the Arup document and for the purposes of this report reference has been made to Appendices E1, E2 and E3 which include a series of questions within screening flowcharts for surface flow and flooding, subterranean (groundwater) flow and land stability. The flowchart questions and responses to these questions are tabulated below.

5.1 Subterranean (Groundwater) Flow Screening Assessment

Reference has been made to Appendix E of the Arup document, which includes six questions within a subterranean (groundwater) flow screening flowchart. Responses to the questions are tabulated below.

Question	Response for the former Mansfield Bowling Club
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?	No. The site is underlain by Unproductive Strata of the London Clay which cannot support groundwater flow or therefore a water table.
2. Is the site within 100 m of a watercourse, well (used/ disused) or potential spring line?	*Yes. Tributaries of the River Fleet were present immediately to the north and less than 25 m to the west of the site.*
3. 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

Question	Response for the former Mansfield Bowling Club
	dated 2010, confirms that the site is not located within this catchment area.
4. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	*Yes. There will be a decrease in the proportion of hard surfaced / paved areas as a result of the proposed development.*
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)?	No. The site is underlain by Unproductive Strata of the London Clay, which is not suitable for soakaways or similar SUDS based systems and therefore the majority of the site drainage will be directed to public sewer, as per the present situation. Site drainage will therefore be designed to generally maintain the existing situation. However, attenuation will be increased through the adoption of permeable paving and sedum roofs as part of the proposed development.
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 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, ponds or spring lines.

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

Q2 The site is within 100 m of a former watercourse.
Q4 The proportion of hard-surfaced / paved areas is likely to decrease.

5.2 Land Stability Screening Assessment

Reference has been made to Appendix E of the Arup document, which includes 14 questions within a slope stability screening flowchart. Responses to the questions are tabulated below.

Question	Response for the former Mansfield Bowling Club
1. Does the existing site include slopes, natural or manmade, greater than 7°?	No. Information obtained from the previous assessment for the site indicates that whilst there is a fall in level from north to south across the site, there are no slopes with angles greater than 7°
2. Will the proposed re-profiling of landscaping at the site change slopes at the property boundary to more than 7°?	No. The proposed development is not understood to introduce any new slopes with angles greater than 7°.
3. Does the development neighbour land, including railway cuttings and the like, with a slope greater than 7°?	No. Reference to Fig 16 of the Arup report indicates no slopes of greater than 7° on neighbouring land.
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) of the Arup report.
5. Is the London Clay the shallowest strata at the site?	*Yes. The site is directly underlain by the London Clay Formation.*
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?	*Yes. It is understood that one or two trees may be removed to the north of the proposed building to create a pathway linking the new car park with the community entrance from Croftdown Road in the northwest corner 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. As the surrounding area is underlain by London Clay it is possible that it will have been affected by seasonal shrink-swell.*
8. Is the site within 100 m of a watercourse or potential spring line?	*Yes. Former tributaries of the River Fleet were present immediately to the north and less than 25 m to the west*
9. Is the site within an area of previously worked ground?	No. The geological map of the area and Figures 3, 4 and 8 of the Arup report do not indicate any worked ground.
10a. Is the site within an aquifer?	No. The London Clay is classified as an Unproductive Strata.

Question	Response for the former Mansfield Bowling Club
10b. Will the proposed basement extend beneath the water table such that dewatering may be required during construction?	No. Groundwater is unlikely to be present within the London Clay at shallow depths.
11. Is the site within 50 m of Hampstead Heath ponds?	No. Figure 14 of the Arup report confirms that the site is not located within this catchment area.
12. Is the site within 5 m of a highway or pedestrian right of way?	No. Although part of the site fronts onto Croftdown Road, the proposed basement is located at significant distance from the public footway.
13. Will the proposed basement significantly increase the differential depth of foundations relative to neighbouring properties?	No. As per the drawing extract included in Section 2.1, the closest parts of any nearby buildings are in excess of 20 m from the proposed basement., such that, there are no neighbouring properties likely to be within the zone of influence of this structure.
14. Is the site over (or within the exclusion zone of) any tunnels, e.g. railway lines?	*Yes. An existing Thames Water Sewer crosses the site. However. whilst the sewer passed beneath the north-eastern corner of the former bowling club, it is understood to be at a distance of more than 3 m from the proposed basement.*

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

Q5 The London Clay is the shallowest strata.
Q6 Existing trees will be removed as part of the proposed development.
Q7 The site is in an area likely to be affected by seasonal shrink-swell.
Q8 The site is within 100 m of a former watercourse.
Q14 A Thames Water Sewer crosses the site.

5.3 Surface Flow and Flooding Screening Assessment

Reference has been made to Appendix E of the Arup document, which includes six questions within a surface flow and flooding screening flowchart. Responses to the questions are tabulated below.

Question	Response for the former Mansfield Bowling Club
1. Is the site within the catchment of the pond chains on Hampstead Heath?	No. Figure 14 of the Arup report 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?	*Yes. The proposals will lead to a net decrease in the amount of hard surfaced / paved areas which will reduce the rate and volume of runoff to be discharged into the Thames Water sewers.* *The basement will be beneath the footprint of the new building, such that the 1m distance between the roof of the basement and ground surface as recommended by section 3.2 of the CPG Basements does not apply across these areas.*
3. Will the proposed basement development result in a change in the proportion of hard surfaced / paved areas?	*Yes. The proposals will lead to a net decrease in the amount of hard surfaced / paved areas.*

Question	Response for the former Mansfield Bowling Club
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?	*Yes. The proposals will lead to a net decrease in the amount of hard surfaced / paved areas which will reduce the rate and volume of runoff to be discharged into the Thames Water sewers.* *The basement will be beneath the footprint of the new building, such that the 1m distance between the roof of the basement and ground surface as recommended by section 3.2 of the CPG Basements does not apply across these areas.*
5. Will the proposed basement result in changes to the quality of surface water being received by adjacent properties or downstream watercourses?	No. The proposed basement is very unlikely to result in any changes to the quality of surface water being received by adjacent properties or downstream watercourses as the surface water drainage regime will be unchanged and the land uses will remain the same.
6. Is the site in an area identified to have surface water flood risk according to either the Local Flood Risk Management Strategy or the Strategic Flood Risk Assessment or is it at risk of flooding, for example because the proposed basement is below the static water level of nearby surface water feature?	*Yes. The Camden Flood Risk Management Strategy dated 2013, together with Figures 4e, 5a and 5b of the SFRA dated 2014, and Environment Agency online flood maps show that the site has a very low flooding risk from sewers, reservoirs (and other artificial sources), groundwater and fluvial/tidal watercourses.* *The Environment Agency online flood maps show that the site has a low to very low flooding risk from surface water.* *Figure 3iii and 3viii of the SFRA shows that there is a very low to high surface water flooding risk across the site.* *It is possible that the basement will be constructed within pockets of perched water and the recommendations outlined in the BIA with regards to water-proofing and tanking of the basement will reduce the risk to acceptable levels.* *In accordance with paragraph 5.11 of the CPG, a positive pumped device will be installed in the basement in order to further protect the site from sewer flooding.* *The site is located within the Critical Drainage Area number GROUP3-001, but not within a Local Flood Risk Zone as identified in the Updated SFRA Figure 6/Rev 2.*

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

Q2 Surface water flows are likely to change.
Q3 The proportion of hard-surfaced / paved areas is likely to decrease.
Q4 The development will result in changes in the profile of inflows of surface water.
Q6 The site is at risk from surface water flooding.

6.0 BASEMENT SCOPING ASSESSMENT

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.

6.1 Subterranean (Groundwater) Flow Scoping Assessment

The following potential impacts have been identified that may have an impact on groundwater flow.

Screening Issue	Potential Impact
The site is within 100 m of a former watercourse.	The basement may alter the groundwater flow regime supporting the watercourse or potential spring line and diverting the groundwater flow route may cause new springs to form or the reactivation of old springs.
Reduction in proportion of hard-standing and paved areas	A reduction in the percentage of impervious areas across the site could lead to an increase in water discharging into the ground.

6.2 Land Stability Scoping Assessment

The following potential impacts have been identified that may have an impact on land stability.

Screening Issue	Potential Impact
The London Clay is the shallowest strata and may be subject to seasonal shrink-swell	Any changes in the availability of moisture in the ground may result in desiccation or heave in close proximity to trees which could ultimately damage nearby buildings.
Trees are to be felled as part of the proposed development.	The removal of established trees may cause heave of underlying clay soils, which could result in damage to the proposed development and neighbouring structures with foundations within the zone of influence of the trees being removed.
The site is within 100 m of a former watercourse.	Seasonal spring lines and changes in groundwater may also affect slope stability.
An existing Thames Water Sewer is located in close proximity to the proposed basement.	Excavation of the basement may result in damage to the sewer.

6.3 Surface Flow and Flooding Scoping Assessment

The following potential impacts have been identified that may have an impact on surface flow and flooding.

Screening Issue	Potential Impact
Surface water flows are likely to change	Surface water runoff must be managed to ensure that they don't impact on adjoining properties or downstream watercourses.
Reduction in proportion of hard-standing and paved areas	A change in the in proportion of hard surfaced or paved areas of a property will affect the way in which rainfall and surface water are transmitted away from a property. This includes changes to the surface water received by the underlying aquifers, adjacent properties and nearby watercourses. Changes could result in decreased flow, which may affect ecosystems or reduce amenity, or increased flow which may

Screening Issue	Potential Impact
	additionally increase the risk of flooding.
The development will result in changes in the profile of inflows of surface water	Changes could result in decreased volume, which may affect ecosystems or reduce amenity, or increased flow which may additionally increase the risk of flooding.
The site is at risk from surface water flooding	The proposed development must ensure that the flood risk is not increased.

7.0 BASEMENT IMPACT ASSESSMENT

Knowledge of the site conditions and proposed development has been used below to review the potential impacts identified by the screening, to assess the likelihood of them occurring and the scope for reasonable engineering mitigation.

7.1 Subterranean (Groundwater) Flow Risk Assessment

The site is located within 100 m of a former river course

A tributary of the River Fleet flowed in a westerly direction, immediately to the north of the site, where it converged with the main course of the Highgate Branch of the River Fleet, and flowed in a southerly direction down York Rise, less than 25 m to the west of the site. However, this feature was perched on the London Clay and historically developed over / culverted.

With the former water course being captured within the existing sewer network, and the site confirmed as being directly underlain by unproductive strata of the London Clay Formation, it is, therefore, unlikely to have any impact on, or be influenced by, the proposed development as excavations within this strata will not alter the groundwater flow regime.

The proposed development is likely to result in a reduction in the overall area of hardstanding

The proposed development is likely to result in an overall decrease in the amount of hard-standing and paved areas, which could potentially result in a greater proportion of water discharging into the ground. However, this will have little effect as the ground is of low permeability and is unable to accept any significant recharge from surface water inflows.

7.2 Land Stability Risk Assessment

The site is underlain by London Clay which would be subject to seasonal shrink-swell.

Shrinkable clay is present within a depth that can be affected by tree roots. Numerous trees are present on the site, and desiccation was noted in one of the previous boreholes understood to have been located in close proximity to existing trees. However, the proposed basement will extend to a depth 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.

Trees will be felled during the development

It is likely that a number of trees will be felled during the proposed development. However, whilst shrinkable soils are present at shallow depth, there are no critical slope angles that are dependent on the presence of the existing trees to aid long term stability.

Due to the distance of the neighbouring structures from the site boundary, it is considered that no nearby foundations are likely to be within the zone of influence of the tree(s) to be removed from the northern side of the proposed care home, whilst the proposed basement beneath this structure will extend to sufficient depth to bypass any potentially desiccated soils.

Felling of these trees is not therefore expected to impact on the proposed development or any of the neighbouring properties.

The site is located within 100 m of a former river course

Whilst the site is located within close proximity of a former water course, it is confirmed as being directly underlain by the London Clay Formation, such that excavations within this strata will not result in any changes in the groundwater flow regime that could affect the stability of any slopes.

A Thames Water Sewer is located in close proximity to the proposed new building and basement.

It is understood that a brick sewer runs across the site and passes beneath the north-eastern corner of the former bowling club building, as shown on the Thames Water map extract included in Section 2.3. The sewer is understood to be 1.1 m by 0.8 m and is present a relatively shallow depth, with reported invert levels of 49.08 m OD and 47.10 m OD, where the sewer passes beneath the site.

The proposed new care home occupies a similar footprint to the former bowling club building, and it is understood that where the proposed new building extends over this feature at ground floor level, the loads form this structure will be distributed to ensure that they do not exceed those applied by the previous building. However, this will need to be agreed with Thames Water and will be subject to a build over agreement and / or diversion of the existing sewer around the proposed structure. In this respect, reference should also be made to the comments in Sections 6.1 to 6.4 of the Utilities Statement for the site prepared by Ardent Consulting Engineers (report ref J671-03A, dated January 2015).

The proposed basement has been restricted to the central and western parts of the proposed building and is therefore set back approximately 15 m from the north-eastern corner, where the sewer passes beneath the corner of the proposed building. Elsewhere, the sewer is understood to be at a distances of more than 5.0 m from the proposed basement structure. As movements associated with the installation and excavation in front of the proposed retaining structures will reduce with both distance and depth from this structure, it is unlikely that the sewer will be subject to any significant movement from the proposed basement construction.

7.3 Surface Flow and Flooding Risk Assessment

Surface water flows are likely to change, the proposed development is likely to result in a reduction in the overall area of hardstanding and the development will result in changes in the profile of inflows of surface water

As the site is underlain by impermeable London Clay, the majority of any surface water flows are presently discharged to the existing sewer system, which will be maintained as part of the proposed development, with the increase in permeable area likely to result in a slight reduction in surface water flow.

In addition, a number of green roofs and permeable surface solutions are proposed to provide sufficient attenuation to ensure peak surface water flows and discharge rates are less than the pre-development condition.

The site has low flooding potential from surface water
Whilst information obtained from the Environment Agency and SFRA indicates that the site is at risk from surface water flooding, the previous FRA for the site concluded that the actual risk of surface water flooding is very low.

The reduction in hard-surface areas and proposed attenuation measures also helping to mitigate any residual risk.

In accordance with paragraph 6.16 of the CPG a positive pumped device and non-return valve will be installed in the basement in order to further protect the site from sewer flooding

8.0 CONCLUSIONS

It is understood that it is proposed to construct a new two-storey to four-storey care home on the footprint of the former Mansfield Bowling Club building (now demolished), which will include a single level basement, extending to a depth of approximately 3.5 m beneath the central and western parts of the new building.

The development is also understood to include a community garden, children's playground and tennis courts on the northern part of the site.

8.1 Construction Considerations

Formation level for the proposed basement is likely to be within the stiff clay of the London Clay, which should provide an eminently suitable bearing stratum for spread foundations. Excavations for the proposed basement structure will require temporary support to maintain stability and to prevent any excessive ground movements.

The London Clay is unable to support a water table and the absence of any significant or persistent groundwater inflows has been confirmed by the previous investigation, such that a requirement for groundwater control is not anticipated.

8.2 Contamination Risk Assessment

On this basis of the desk study research it is considered that there is a LOW RISK of there being a significant contaminant linkage at this site that could result in any requirement for any remediation work. It would, however, be prudent to carry out chemical analyses on samples of the near surface soil in order to determine whether any contaminants are present and to provide an assessment of classification for waste disposal purposes.

8.3 Basement Impact Assessment

A Basement Impact Assessment has been carried out following the information and guidance published by the London Borough of Camden. A number of potential impacts were identified as a result of the screening exercise. It has been concluded that all potential impacts can be mitigated by appropriate design and standard construction practice.

Formation level for the proposed basement is likely to be in the London Clay and groundwater inflows are unlikely to be encountered.

Standard safe working practices and measures that will be adopted to construct the basement mean that the proposed development is unlikely to result in any specific groundwater or land or slope stability issues.

The proposed basement is expected to extend to a depth of approximately 4.0 m, such that ground movements as a result of the proposed excavations would be expected to reduce to zero at a distance of approximately 16 m, corresponding to four times the retained height, based on the CIRIA ground movement curve for an 'excavation in front of a stiff wall in stiff clay' (Fig 6.15a of CIRIA C760[5]). As the closest buildings are in excess of 20 m from the proposed excavations, there are therefore no nearby properties within the likely zone of influence of the proposed basement construction.

Further consultation is likely to be required with Thames Water to safeguard the existing sewer present ion the site, and whist it is unlikely that it will be significant impacted by the proposed basement construction, Thames Water may require further assessment of the potential movements to confirm this.

[5] Gaba, A, Hardy, S, Powrie, W, Doughty, L and Selemetas, D (2017) *Embedded retaining walls – guidance for economic design* CIRIA Report C760.

APPENDIX

Development Proposals

Envirocheck Report and Extracts

Historical Maps

Risk Assessment Description

Risk Assessment Classification

Notes:

N

2 0 2 4 6 8 10
SCALE 1:250 m

Site boundary

Land under same ownership

Rev	Description	Date	Drwn	Ckd
A	Minor amendments added	22/07/22	MD	EW
0	First Issue	11/07/22	MD	AG

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status:

PLANNING

project:
Mansfield Bowling Club
London

drawing title:
Proposed Site Plan

date: **10/13/20**

scale: **1 : 250**

dwg no: **1962-PL-0198**

rev no: **A**

Room Types

- Amenity
- Ancillary
- Circulation
- Services
- Staff
- Studios

Notes:

1 0 1 2 3 4 5
SCALE 1:100 m

Rev	Description	Date	Drwn	Ckd
B	Coordination amendments	01/08/22	MD	EW
A	Minor amendments added	22/07/22	MD	EW
0	First Issue	11/07/22	MD	AG

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status:
PLANNING

project:
Mansfield Bowling Club
London

drawing title:
Proposed Lower Ground Floor

date: **07/09/21**
scale: **1 : 100**

dwg no: **1962-PL-0199**
rev no: **B**

Proposed Lower Ground Floor
1 : 100

B-B
PL-0220

A-A
PL-0220

Bridge Link
Above

Hair & Beauty
Activity Room 1
Activity Room 2
Lift
Lift
Dining / Lounge
Hall
Hall
Hall
GF-01
27 m²
GF-02
22 m²
GF-03
22 m²
Store
GF-04
23 m²
GF-05
24 m²
Lift
Lobby
Post / Staff Room
Great Room
Great Room
GF-15
27 m²
GF-14
22 m²
Nurse
WC
Drug Store
Assisted Bath
GF-06
25 m²
Stair
Hall
Stair
Lobby
GF-13
23 m²
Store
Lift
Hall
GF-12
22 m²
GF-07
26 m²
Lobby
WC
WC
C.R
Admin
Foyer
GF-11
23 m²
Sitting Area
GF-10
23 m²
Manager
Concierge
GF-08
23 m²
Library
Quiet Room
GF-09
23 m²

Room Types

- Amenity
- Ancillary
- Circulation
- Services
- Staff
- Studios

Notes:

1 0 1 2 3 4 5
SCALE 1:100 m

Rev	Description	Date	Drwn	Ckd
B	Coordination amendments	01/08/22	MD	EW
A	Minor amendments added	22/07/22	MD	EW
0	First Issue	11/07/22	MD	AG

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status:
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project:
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London

drawing title:
Proposed Ground Floor

date: **07/09/21**
scale: **1 : 100**
dwg no: **1962-PL-0200**
rev no: **B**

Proposed Ground Floor
1 : 100

Notes:

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SCALE 1:100 m

Proposed Section A-A
1 : 100

Proposed Section B-B
1 : 100

Rev	Description	Date	Drwn	Ckd
0	First Issue	11/07	MD	AG

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status:
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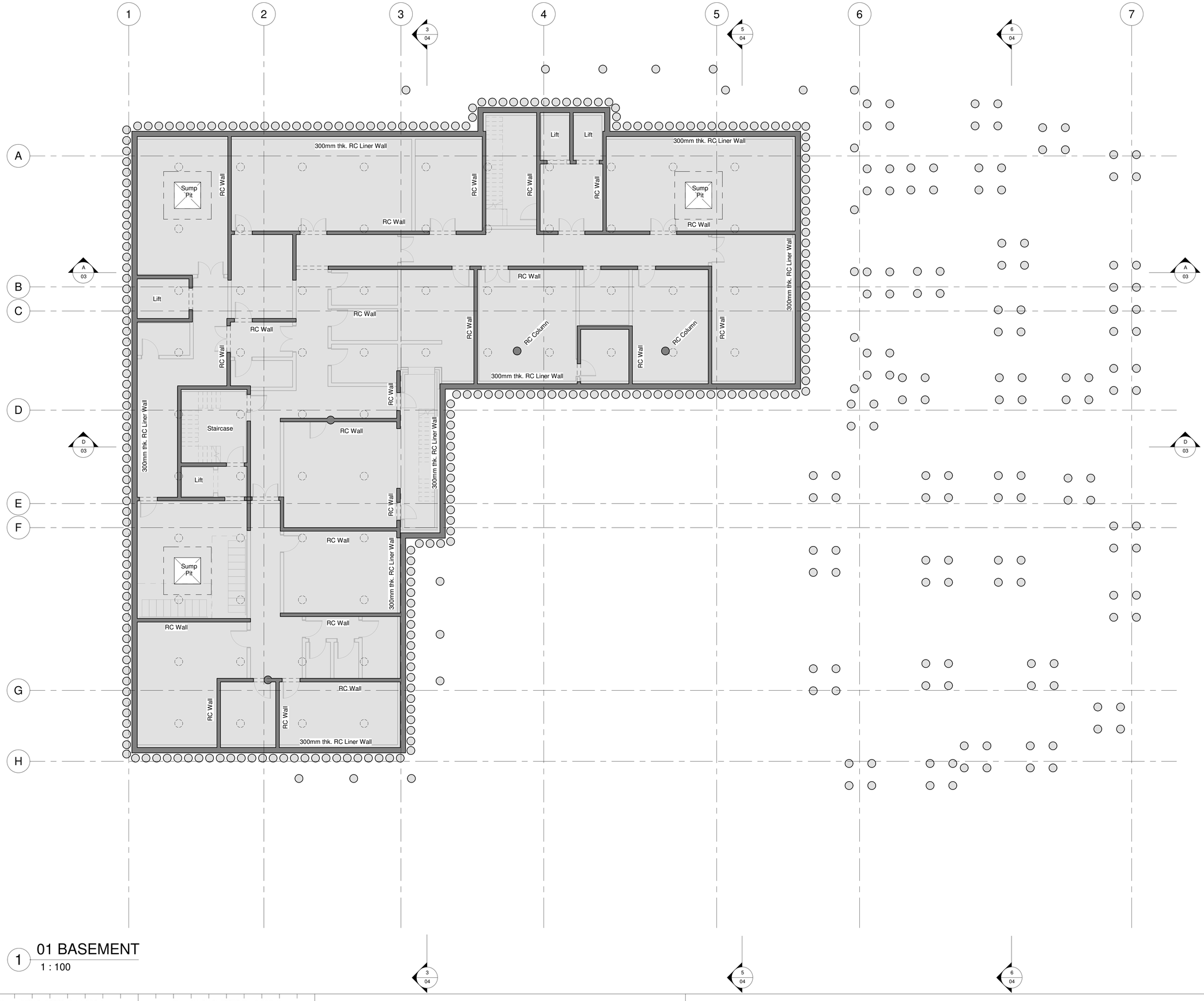
project:
Mansfield Bowling Club
London

drawing title:
Proposed Sections

date: **10/15/21**
scale: **1 : 100**
dwg no: **1962-PL-0220**
rev no: **0**



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PRELIMINARY

Architect
WOLFF ARCHITECTS

Project Title
MANSFIELD BOWLING CLUB
LONDON NW5 1EP

Drawing Title
BASEMENT
GENERAL ARRANGEMENT

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Drawn	
SH	JUL 2022
Checked	
JMcS	JUL 2022
Scale	Size
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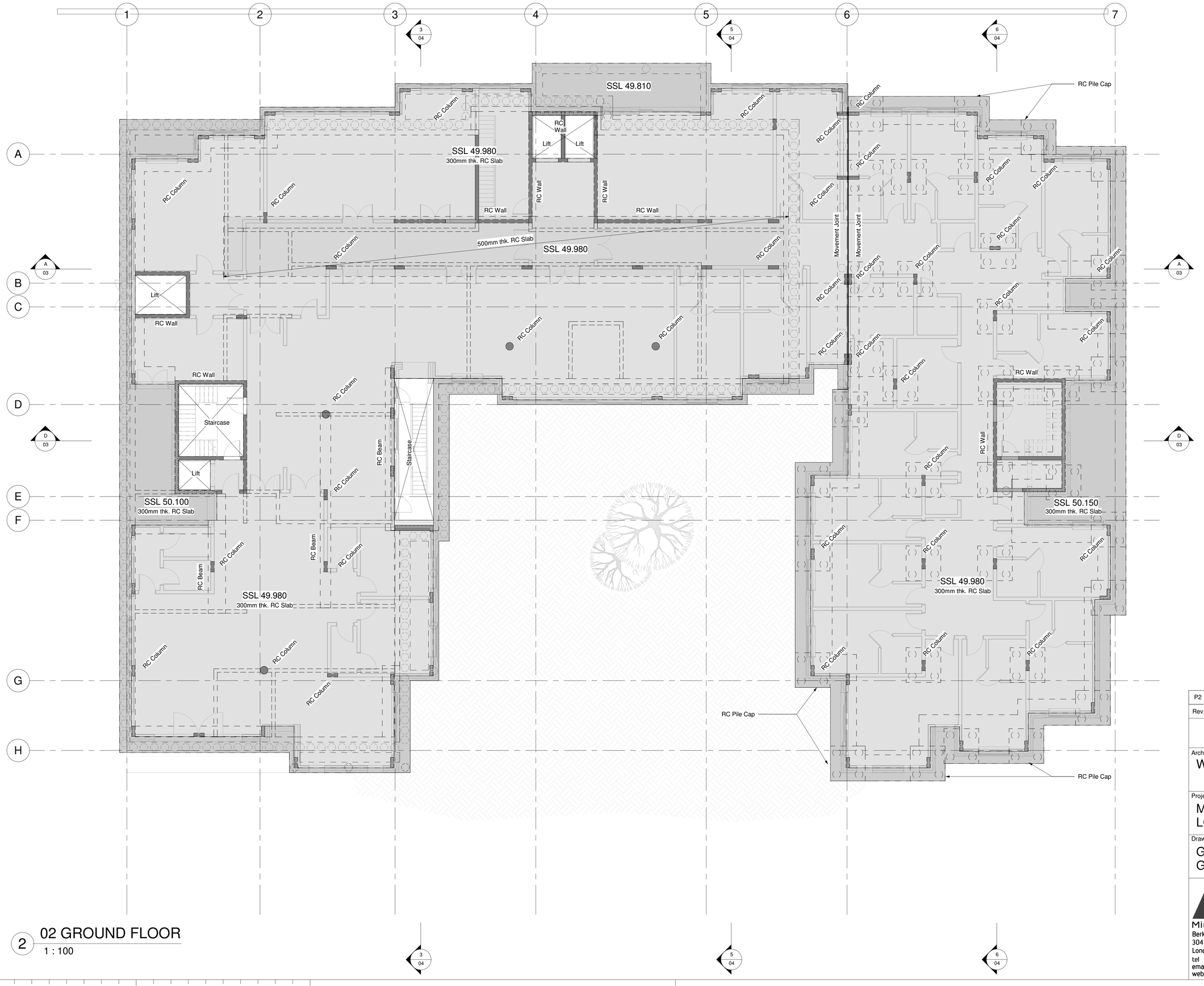
1 : 200	A3
Project No.	Drawing No.	Rev.
P5176	01	P2



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Rev.	Date	Description	By
P2	11.08.2022	ISSUED FOR PLANNING APPLICATION	SH

PRELIMINARY

Architect
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Project Title
MANSFIELD BOWLING CLUB
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Drawn		Checked	
SH	JUL 2022	JMcS	JUL 2022

Scale	Size
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1 : 200	A3

Project No.	Drawing No.	Rev.
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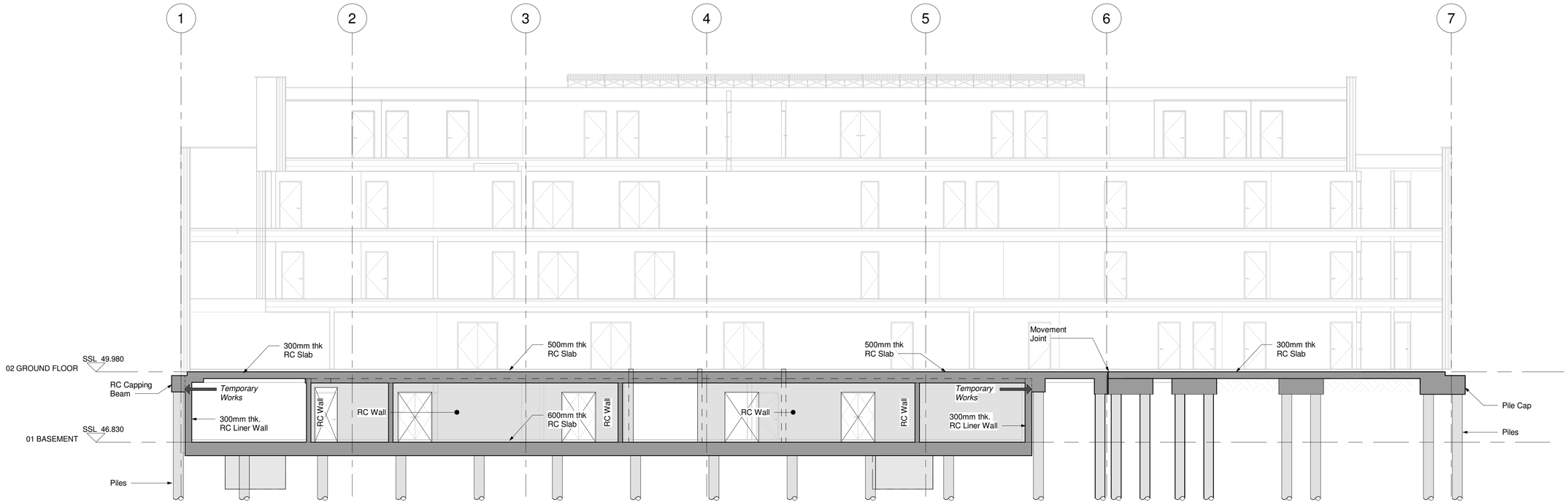

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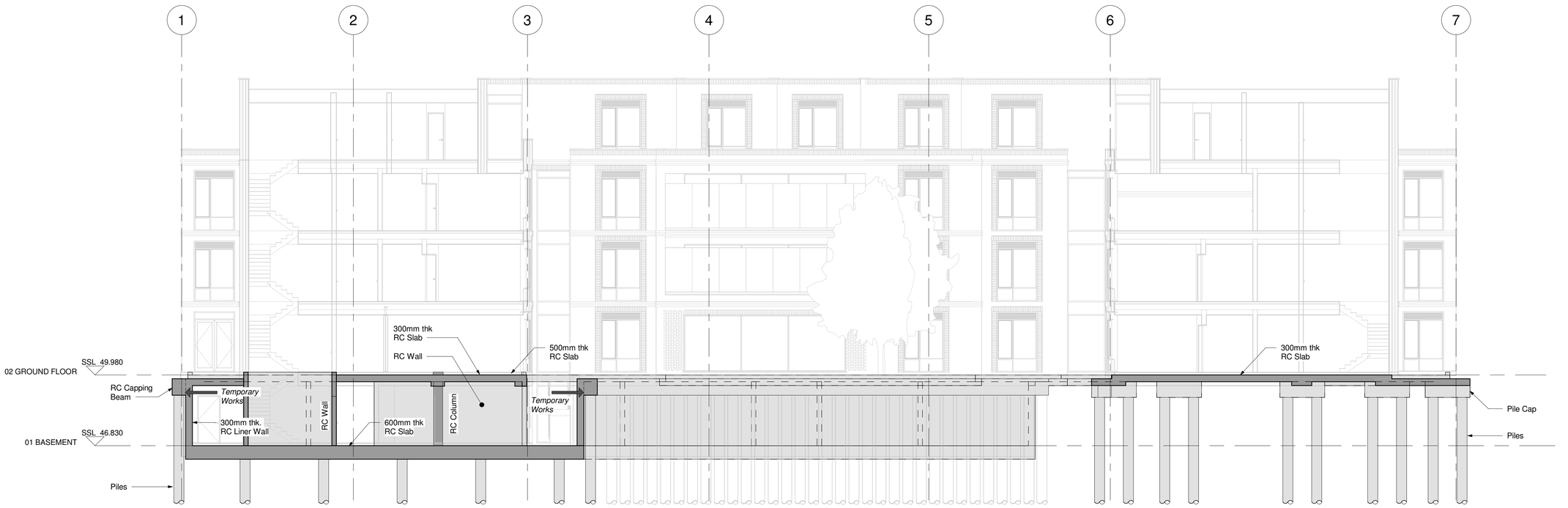

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Rev.	Date	Description	By
P2	11.08.2022	ISSUED FOR PLANNING APPLICATION	SH

PRELIMINARY

Architect
WOLFF ARCHITECTS

Project Title
MANSFIELD BOWLING CLUB
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Drawing Title
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Drawn		Checked	
SH	JUL 2022	JMcS	JUL 2022

Scale	Size
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Project No.	Drawing No.	Rev.
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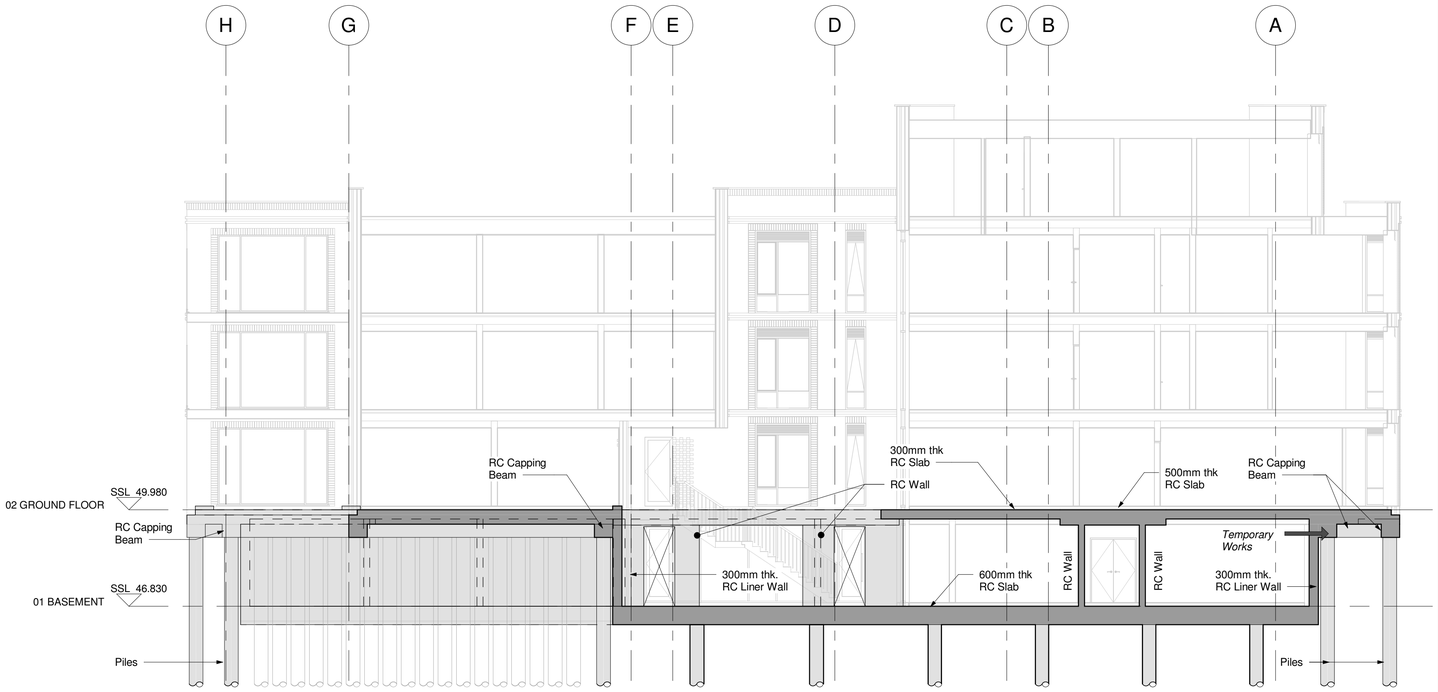

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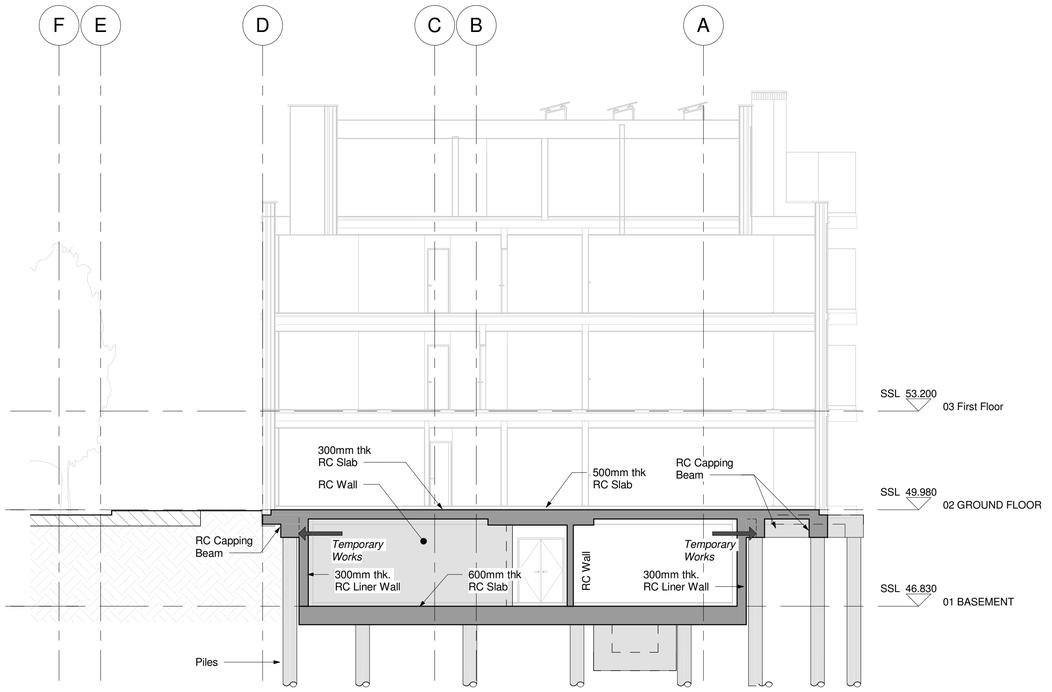

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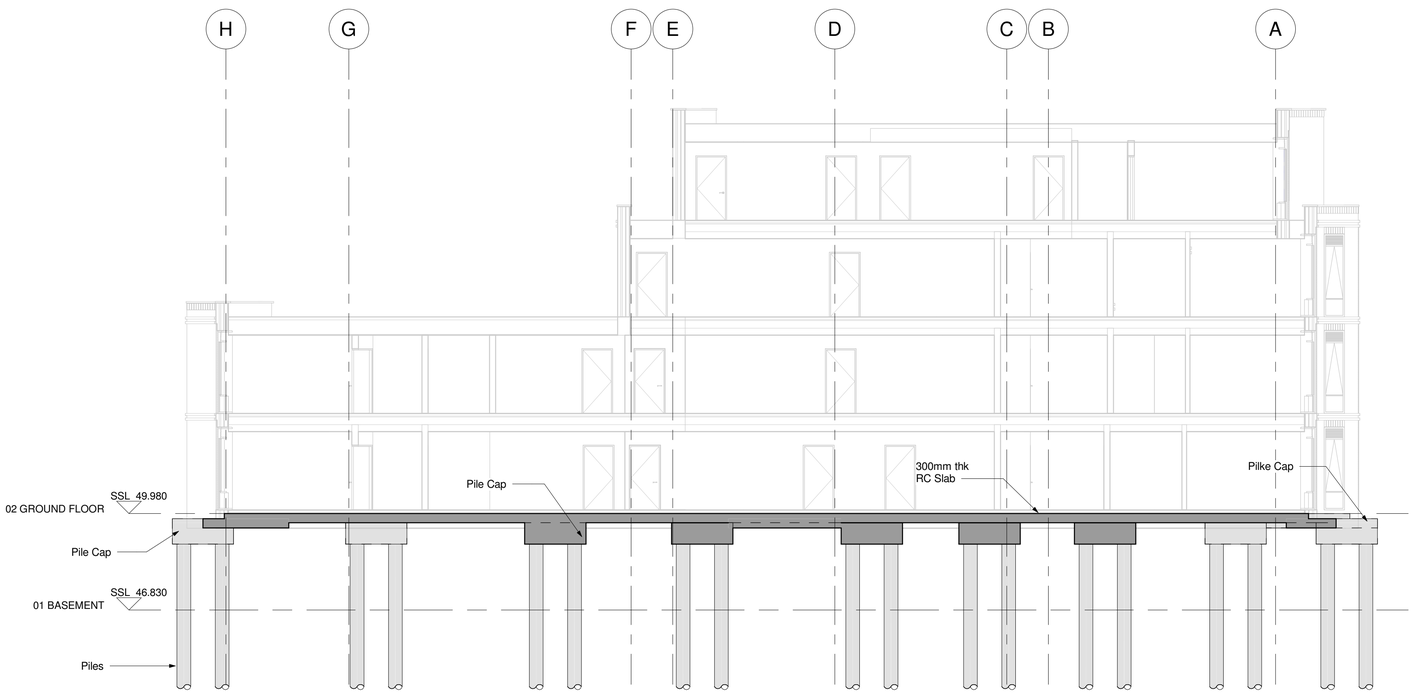

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Rev.	Date	Description	By
P2	11.08.2022	ISSUED FOR PLANNING APPLICATION	SH

PRELIMINARY

Architect
WOLFF ARCHITECTS

Project Title
MANSFIELD BOWLING CLUB
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SH	JUL 2022	JMcS	JUL 2022

Scale	Size
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Project No.	Drawing No.	Rev.
P5176	04	P2

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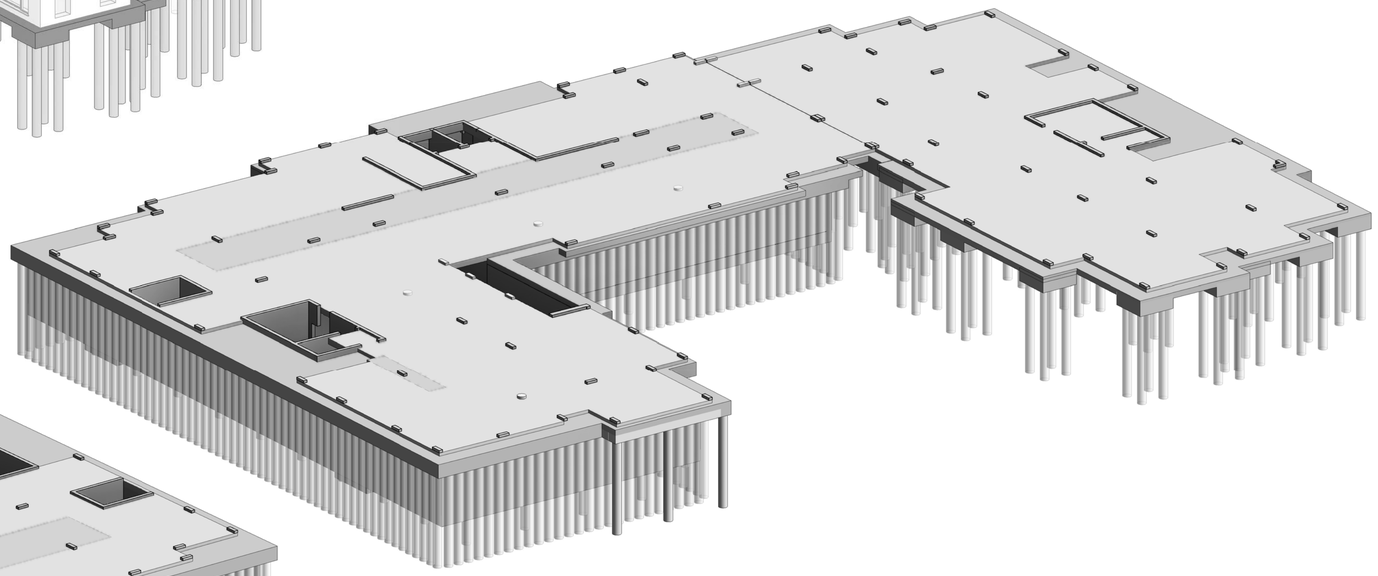

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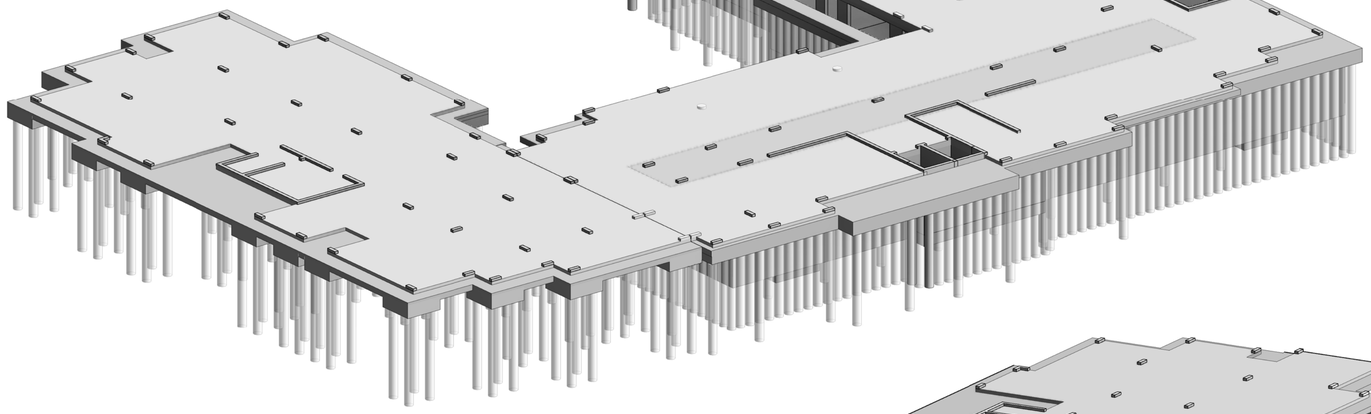

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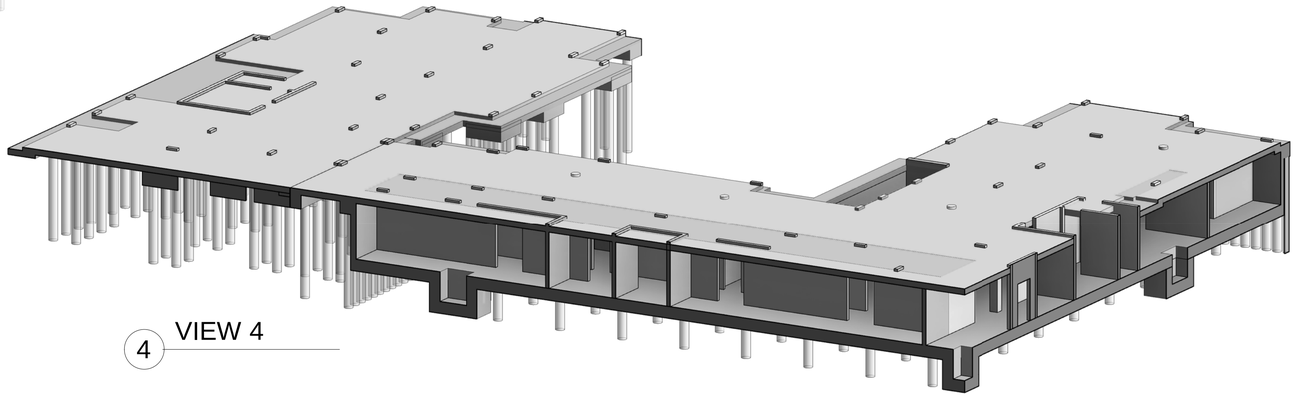

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Rev.	Date	Description	By
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PRELIMINARY

Architect
WOLFF ARCHITECTS

Project Title
MANSFIELD BOWLING CLUB
LONDON NW5 1EP

Drawing Title
3D VIEWS

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Drawn	SH	JUL 2022
Checked	JMcS	JUL 2022
Scale	1 : 200	Size A1 A3
Project No.	Drawing No.	Rev.
P5176	05	P2

0 *100mm WHEN PLOTTED @ 1:1 FOR A1* 100 *50mm WHEN PLOTTED @ 1:2 FOR A3* 200

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
285576290_1_1

Customer Reference:
J21288

National Grid Reference:
528740, 186270

Slice:
A

Site Area (Ha):
0.87

Search Buffer (m):
1000

Site Details:

Former Mansfield Bowling Club
Croftdown Road
London
NW5 1SB

Client Details:

Mr S Branch
GEA Ltd
Widbury Barn
Widbury Hill
Ware
Herts
SG12 7QE

GEA

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

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility					n/a
Contaminated Land Register Entries and Notices	pg 1				6
Discharge Consents	pg 1		1		
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 1		1	3	9
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					
Registered Radioactive Substances	pg 3				16
River Quality					
River Quality Biology Sampling Points					
Substantiated Pollution Incident Register	pg 6				1
River Quality Chemistry Sampling Points					
Water Abstractions	pg 6				(*6)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 8	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 8		1	2	10

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage		1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 10				3
Potentially Infilled Land (Water)	pg 10		3		4
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 10				1
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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 11	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry					
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry	pg 11	Yes		Yes	Yes
BGS Urban Soil Chemistry Averages	pg 14	Yes			
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 14	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 14	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 14	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 15		6	31	141
Fuel Station Entries	pg 29			2	
Points of Interest - Commercial Services	pg 30			5	21
Points of Interest - Education and Health	pg 32				6
Points of Interest - Manufacturing and Production	pg 32	1		6	36
Points of Interest - Public Infrastructure	pg 36			2	31
Points of Interest - Recreational and Environmental	pg 39			13	45
Gas Pipelines					
Underground Electrical Cables	pg 43		4	3	19

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	**Contaminated Land Register Entries and Notices** Location: Even Numbers 2-10 Ascham Street, Odd Numbers 15-31 Falkland Road And Even Numbers 34-48 Leverton Street, London, Nw5 Notice Type: Environmental Protection Act (1990) Section 78A(2) And 78(B) Determination That Land Is Contaminated Reference: Not Supplied Dated: 12th September 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	868	2	529104 185405
2	**Contaminated Land Register Entries and Notices** Location: Even Numbers 14-20 Ascham Street, Odd Numbers 15-33 Lady Margaret Road, And Odd Numbers 37-41 Falkland Road, London, Nw5 Notice Type: Environmental Protection Act (1990) Section 78A(2) And 78(B) Determination That Land Is Contaminated Reference: Not Supplied Dated: 12th September 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	900	2	529154 185395
3	**Contaminated Land Register Entries and Notices** Location: 29 Falkland Road, London, Nw5 2pu Notice Type: Environmental Protection Act (1990) Section 78A(2) And 78(B) Determination That Land Is Contaminated Reference: Not Supplied Dated: 31st July 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	921	2	529131 185360
4	**Contaminated Land Register Entries and Notices** Location: 31 Falkland Road, London, Nw5 2pu Notice Type: Environmental Protection Act (1990) Section 78A(2) And 78(B) Determination That Land Is Contaminated Reference: Not Supplied Dated: 31st July 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	924	2	529136 185359
5	**Contaminated Land Register Entries and Notices** Location: 33 Falkland Road, London, Nw5 2pu Notice Type: Environmental Protection Act (1990) Section 78A(2) And 78(B) Determination That Land Is Contaminated Reference: Not Supplied Dated: 12th September 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	928	2	529142 185358
6	**Contaminated Land Register Entries and Notices** Location: 35 Falkland Road, London, Nw5 2pu Notice Type: Update on Remediation Statement - Remediation Work Completed Reference: Not Supplied Dated: 31st July 2005 Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A9SW (SE)	932	2	529149 185357
7	**Discharge Consents** Operator: Thames Water Utilities Ltd Property Type: WTW/WATER COLLECTION/TREATMENT/SUPPLY Location: Maiden Lane Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0179 Permit Version: 1 Effective Date: 15th September 1989 Issued Date: 15th September 1989 Revocation Date: 5th October 2000 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: River Thames **Status:** **Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	218	3	528900 186500
8	**Local Authority Pollution Prevention and Controls** Name: The Choice Dry Cleaners Location: 62 Chetwynd Road, London, Nw5 1dj Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC40 Dated: 24th 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 (S)	214	2	528810 185992

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	**Local Authority Pollution Prevention and Controls** Name: Asf Garage Ltd Location: 138 Highgate Road, London, NW5 1PB Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC22 Dated: 1st April 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A8NW (S)	400	2	528633 185810
10	**Local Authority Pollution Prevention and Controls** Name: Perfect Dry Cleaners Location: 151 Highgate Road, London, Nw5 1lj Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC31 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	A8NW (S)	436	2	528588 185787
11	**Local Authority Pollution Prevention and Controls** Name: Whittington Service Station (Esso) Location: 213-217 Junction Road, LONDON, N19 5QA Authority: London Borough of Islington, Environmental Health Department Permit Reference: Epa-Auth-020 Dated: 18th December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Manually positioned to the address or location	A14SW (E)	446	4	529214 186115
12	**Local Authority Pollution Prevention and Controls** Name: Sun Dry Cleaners Location: 167 Fortress Road, London, Nw5 2hr Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC46 Dated: 28th 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	A9NW (SE)	511	2	529132 185860
13	**Local Authority Pollution Prevention and Controls** Name: M & A Coachworks Location: 135 Highgate Road, CAMDEN, NW5 1LE Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC5 Dated: 6th September 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A8NW (S)	520	2	528600 185695
14	**Local Authority Pollution Prevention and Controls** Name: J Murphy & Sons Ltd Location: 81 Highgate Road, London, Nw5 1ts Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC10 Dated: 1st March 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A8NW (S)	599	2	528642 185605
15	**Local Authority Pollution Prevention and Controls** Name: Quicksilver Dry Cleaners Location: 63 Junction Road, London Authority: London Borough of Islington, Environmental Health Department Permit Reference: PPC/DC33/07 Dated: 5th 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	A19SW (NE)	641	4	529352 186636

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	**Local Authority Pollution Prevention and Controls** Name: M & A Coachworks Location: 36/52 Fortress Road, LONDON, NW5 1AD Authority: London Borough of Camden, Pollution Projects Team Permit Reference: NOT GIVEN Dated: 15th May 1997 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles **Status:** **Authorisation revoked** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	807	2	529036 185443
16	**Local Authority Pollution Prevention and Controls** Name: M & A Coachworks Location: Fortess Grove, London, Nw5 2HE Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC3 Dated: 15th May 1997 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status:** **Permitted** Positional Accuracy: Manually positioned to the address or location	A8SE (S)	832	2	529031 185415
16	**Local Authority Pollution Prevention and Controls** Name: Perk Clean Location: 20 Fortress Road, London, Nw5 2hb Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC21 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	A8SE (S)	861	2	529004 185375
17	**Local Authority Pollution Prevention and Controls** Name: Golden Dry Cleaners Location: 649 Holloway Road, London Authority: London Borough of Islington, Environmental Health Department Permit Reference: PPC/DC25/07 Dated: 5th 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	A19SE (NE)	852	4	529543 186728
18	**Local Authority Pollution Prevention and Controls** Name: Zappeo Dry Cleaners Location: 310 Kentish Town Road, London, Nw5 2th Authority: London Borough of Camden, Pollution Projects Team Permit Reference: PPC/DC2 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	A8SE (S)	976	2	529009 185256
	Nearest Surface Water Feature	A13NW (W)	121	-	528555 186301
19	**Pollution Incidents to Controlled Waters** Property Type: Not Given Location: Beddington Stw Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 14th April 1989 Incident Reference: SE890125 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	A18SE (N)	481	3	528800 186800
20	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: St. Marys Wing, Highgate Hill, LONDON, Greater London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: AQ7909 Dated: 18th October 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	726	3	529136 186949

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	**Registered Radioactive Substances** Name: Whittington Hospital NHS Trust Location: St. Marys Wing, Highgate Hill, LONDON, Greater London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: AQ7925 Dated: 19th October 1995 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	730	3	529146 186949
20	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: St. Marys Wing, Highgate Hill, London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: Bk8648 Dated: 29th June 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	732	3	529141 186954
20	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: St. Marys Wing, Highgate Hill, London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: Bk8630 Dated: 29th June 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	732	3	529141 186954
20	**Registered Radioactive Substances** Name: Bloomsbury And Islington Health Authority Location: Whittington Hospital, St. Marys Wing, Highgate Hill, LONDON, Greater London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: AF3872 Dated: 31st July 1992 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 variation** Positional Accuracy: Unknown	A19NW (NE)	732	3	529141 186954
20	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: St. Marys Wing, Highgate Hill, LONDON, Greater London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: AD3049 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	735	3	529146 186954
20	**Registered Radioactive Substances** Name: Whittington Hospital NHS Trust Location: St. Marys Wing, Highgate Hill, LONDON, Greater London, N19 5NF Authority: Environment Agency, Thames Region Permit Reference: AW7673 Dated: 17th June 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Initial variation to an authorisation under RSA **Status: Authorisation superseded by a substantial or non substantial variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	739	3	529146 186959

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: Magdala Avenue, Highgate Hill, London, N19 5nf Authority: Environment Agency, Thames Region Permit Reference: Bw7139 Dated: 6th November 2014 Process Type: Not Supplied Description: Not Supplied **Status: Replaced** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	756	3	529100 187000
21	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: Magdala Avenue, Highgate Hill, London, N19 5nf Authority: Environment Agency, Thames Region Permit Reference: BZ9014 Dated: 6th November 2014 Process Type: Not Supplied Description: Not Supplied **Status: Replaced** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	756	3	529100 187000
21	**Registered Radioactive Substances** Name: Whittington Hospital Nhs Trust Location: Magdala Avenue, Highgate Hill, London, N19 5nf Authority: Environment Agency, Thames Region Permit Reference: TB3295DJ Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Located by supplier to within 100m	A19NW (NE)	756	3	529100 187000
22	**Registered Radioactive Substances** Name: University College London Location: University College London ;school Of Med, Whittington Hospital, Archway Road, LONDON, N19 3UA Authority: Environment Agency, Thames Region Permit Reference: BB6793 Dated: 5th February 1999 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	822	3	529293 186965
22	**Registered Radioactive Substances** Name: University College London Location: University College London School Of Medicine,Archway Wing, Whittington Hospital,Archway Road, LONDON, N19 3UA Authority: Environment Agency, Thames Region Permit Reference: Bz9740 Dated: 1st February 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 variation** Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	825	3	529292 186969
22	**Registered Radioactive Substances** Name: University College London Location: Archway Wing, Archway Road, London, N19 3UA Authority: Environment Agency, Thames Region Permit Reference: Bw7473 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	826	3	529293 186970
22	**Registered Radioactive Substances** Name: University College London Location: University College London School Of Medicine, Archway Wing, Whittington Hospital, LONDON, N19 3UA Authority: Environment Agency, Thames Region Permit Reference: AS3170 Dated: 19th October 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 variation** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	826	3	529293 186970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Registered Radioactive Substances** Name: University College London Location: School Of Medicine, The Archway Wing, Whittington Hospital, Archway Road, London, N19 3ua Authority: Environment Agency, Thames Region Permit Reference: BF4504 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	838	3	529285 186990
22	**Registered Radioactive Substances** Name: University College London Location: School Of Medicine, The Archway Wing, Whittington Hospital, Archway Road, London, N19 3ua Authority: Environment Agency, Thames Region Permit Reference: CB0021 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied **Status: Application has been determined by the EA** Positional Accuracy: Automatically positioned to the address	A19NW (NE)	838	3	529285 186990
23	**Substantiated Pollution Incident Register** Authority: Environment Agency - Thames Region, North East Area Incident Date: 22nd July 2004 Incident Reference: 252851 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable Materials and WastesAlgae	A12NW (W)	867	3	527851 186553
	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	A3SE (S)	1496	3	528800 184700
	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	A3SE (S)	1496	3	528800 184700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A3SE (S)	1496	3	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	A3SE (S)	1496	3	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	A3SE (S)	1496	3	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: 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	A3SE (S)	1496	3	528800 184700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Vulnerability: Unproductive Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (SW)	0	5	528742 186266
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A13NE (SW)	0	5	528742 186266
	Superficial Aquifer Designations No Data Available				
	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				
24	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A13NW (W)	123	6	528552 186300
25	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 100.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (SE)	349	6	528911 185889
26	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 81.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A8NE (S)	362	6	528900 185869
27	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 141.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A12NW (W)	670	6	528005 186331

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.6 Watercourse Level: Underground Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A12NW (W)	734	6	527963 186462
29	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 159.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A12NW (W)	760	6	527940 186477
30	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 43.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	910	6	527808 186559
31	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 25.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A12NW (W)	910	6	527808 186559
32	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 44.1 Watercourse Level: Underground Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A12NW (W)	927	6	527798 186583
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	947	6	527766 186549
34	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 157.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Highgate Ponds Catchment Name: Thames Primacy: 1	A17SW (W)	949	6	527791 186627
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	958	6	527752 186541
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 119.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	958	6	527752 186541

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	7	528742 186266
	Local Authority Landfill Coverage Name: London Borough of Islington - Has no landfill data to supply		154	4	528957 186269
	Local Authority Landfill Coverage Name: London Borough of Haringey - Has supplied landfill data		898	8	528840 187216
37	**Potentially Infilled Land (Non-Water)** Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A7NE (SW)	714	10	528295 185637
38	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A19NW (NE)	780	10	529164 186996
39	**Potentially Infilled Land (Non-Water)** Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A19NW (NE)	892	10	529282 187056
40	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A13NW (N)	20	10	528739 186344
41	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A13NW (N)	23	10	528738 186347
42	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A13NW (N)	100	10	528719 186421
43	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A8NW (SW)	644	10	528462 185616
44	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A14SE (E)	783	10	529577 186175
45	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1896	A18NE (N)	790	10	528744 187113
46	**Potentially Infilled Land (Water)** Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1876	A14NE (E)	844	10	529644 186383
47	**Registered Waste Transfer Sites** Licence Holder: Wharf & Jetty Services Ltd Licence Reference: DL098 Site Location: BR Goods Depot, Gordon House Road, CAMDEN, London, NW5 Operator Location: As Site Address Authority: Environment Agency - Thames Region, North East Area Site Category: Transfer Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1982 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Commercial Waste Construction And Demolition Wastes Prohibited Waste: Biodegradable/Putrescible Waste Clinical Wastes Notifiable Wastes Special Wastes	A7NE (SW)	671	3	528350 185650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13NE (SW)	0	1	528742 186266
	BGS Estimated Soil Chemistry No data available				
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528741, 186234 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.70 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 69.80 mg/kg Lead Measured Concentration: 314.00 mg/kg Nickel Measured Concentration: 26.00 mg/kg	A13SE (S)	0	1	528741 186234
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528248, 186291 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.80 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 88.40 mg/kg Lead Measured Concentration: 202.30 mg/kg Nickel Measured Concentration: 22.80 mg/kg	A12NE (W)	426	1	528248 186291
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528658, 186810 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.20 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 82.70 mg/kg Lead Measured Concentration: 148.90 mg/kg Nickel Measured Concentration: 29.10 mg/kg	A18SW (N)	493	1	528658 186810
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528670, 185654 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 28.70 mg/kg Cadmium Measured Concentration: 0.50 mg/kg Chromium Measured Concentration: 107.00 mg/kg Lead Measured Concentration: 320.30 mg/kg Nickel Measured Concentration: 50.10 mg/kg	A8NW (S)	546	1	528670 185654

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: 529381, 186297 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.50 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 44.70 mg/kg Lead Measured Concentration: 474.20 mg/kg Nickel Measured Concentration: 21.70 mg/kg	A14NW (E)	577	1	529381 186297
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529179, 186780 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.00 mg/kg Cadmium Measured Concentration: 13.50 mg/kg Chromium Measured Concentration: 149.50 mg/kg Lead Measured Concentration: 332.00 mg/kg Nickel Measured Concentration: 53.10 mg/kg	A19SW (NE)	606	1	529179 186780
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528324, 185717 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 19.50 mg/kg Cadmium Measured Concentration: 0.60 mg/kg Chromium Measured Concentration: 78.00 mg/kg Lead Measured Concentration: 340.30 mg/kg Nickel Measured Concentration: 28.40 mg/kg	A7NE (SW)	634	1	528324 185717
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 528310, 186810 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 16.90 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 121.40 mg/kg Lead Measured Concentration: 205.10 mg/kg Nickel Measured Concentration: 23.20 mg/kg	A17SE (NW)	643	1	528310 186810
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529189, 185724 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 38.10 mg/kg Cadmium Measured Concentration: 1.00 mg/kg Chromium Measured Concentration: 89.70 mg/kg Lead Measured Concentration: 1348.20 mg/kg Nickel Measured Concentration: 55.20 mg/kg	A9NW (SE)	649	1	529189 185724

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: 528669, 187173 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 13.30 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 72.20 mg/kg Lead Measured Concentration: 148.70 mg/kg Nickel Measured Concentration: 12.90 mg/kg	A18NW (N)	852	1	528669 187173
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 527758, 186258 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 17.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 103.40 mg/kg Lead Measured Concentration: 230.10 mg/kg Nickel Measured Concentration: 21.30 mg/kg	A12SW (W)	916	1	527758 186258
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529687, 186654 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 20.30 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 98.60 mg/kg Lead Measured Concentration: 851.20 mg/kg Nickel Measured Concentration: 50.70 mg/kg	A19SE (E)	950	1	529687 186654
	BGS Measured Urban Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Grid: 529294, 187146 Soil Sample Type: Topsoil Sample Area: London Arsenic Measured Concentration: 20.40 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 81.10 mg/kg Lead Measured Concentration: 367.10 mg/kg Nickel Measured Concentration: 31.90 mg/kg	A19NW (NE)	974	1	529294 187146

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages Source: British Geological Survey, National Geoscience Information Service Sample Area: London Count Id: 7209 Arsenic Minimum Concentration: 1.00 mg/kg Arsenic Average Concentration: 17.00 mg/kg Arsenic Maximum Concentration: 161.00 mg/kg Cadmium Minimum Concentration: 0.10 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	A13NE (SW)	0	1	528742 186266
	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	A13NE (SW)	0	1	528742 186266
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	215	1	529018 186284
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NE (SW)	0	1	528742 186266

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	**Contemporary Trade Directory Entries** Name: Sonya Winner Studio Location: 14, York Rise, London, NW5 1ST Classification: Carpets & Rugs - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (S)	170	-	528806 186037
48	**Contemporary Trade Directory Entries** Name: The Choice Location: 62, Chetwynd Road, London, NW5 1DJ Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (S)	213	-	528808 185993
49	**Contemporary Trade Directory Entries** Name: Progetti Charles Khoo Location: 109, Chetwynd Road, London, NW5 1DA Classification: Builders' Merchants **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	195	-	528921 186099
50	**Contemporary Trade Directory Entries** Name: Susie Figgis Ltd Location: 19, Spencer Rise, London, NW5 1AR Classification: Die-Casting Equipment & Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	240	-	528899 186013
50	**Contemporary Trade Directory Entries** Name: Simon Grosvenor Location: 29, Spencer Rise, London, NW5 1AR Classification: Cabinet Makers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13SE (SE)	248	-	528922 186023
51	**Contemporary Trade Directory Entries** Name: Pack Line (Uk) Ltd Location: Flat 1, Hylda Court, 3-5, St. Albans Road, London, NW5 1RE Classification: Packaging & Wrapping Equipment & Supplies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A13NW (W)	246	-	528429 186288
52	**Contemporary Trade Directory Entries** Name: Kemet Creatives Location: 12a, St. Albans Road, London, NW5 1RD Classification: Clothing & Fabrics - Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (W)	270	-	528418 186368
53	**Contemporary Trade Directory Entries** Name: Norlux Ltd Location: 74, Chester Road, London, N19 5BZ Classification: Laundries & Launderettes **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	324	-	528792 186643
53	**Contemporary Trade Directory Entries** Name: Sweet Fa Uk Ltd Location: 62, Chester Road, London, N19 5BZ Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A18SE (N)	324	-	528792 186643
54	**Contemporary Trade Directory Entries** Name: Cleaners Kentish Town Location: 2, Chetwynd Road, London, NW5 1BU Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8NW (S)	331	-	528667 185873
55	**Contemporary Trade Directory Entries** Name: Liquivite Vet Foods Location: 3, Bromwich Avenue, London, N6 6QH Classification: Pet Foods & Animal Feeds **Status: Active** Positional Accuracy: Automatically positioned to the address	A13NW (NW)	341	-	528467 186551
56	**Contemporary Trade Directory Entries** Name: Consulting Rooms Location: West Hill House,6c Swains Lane, Camden, London, N6 6QS Classification: Hospitals **Status: Active** Positional Accuracy: Automatically positioned to the address	A12NE (W)	355	-	528328 186358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	**Points of Interest - Commercial Services** Name: Mail Boxes Etc (UK) Ltd Location: 4 Fortess Road, London, NW5 2ES Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8SE (S)	926	9	528992 185303
147	**Points of Interest - Commercial Services** Name: Car Valeting Centre Location: 369-377 Kentish Town Road, London, NW5 2TJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A3NE (S)	986	9	528985 185239
147	**Points of Interest - Commercial Services** Name: Kentish Valeting Service Location: 369-377 Kentish Town Road, Camden, London, NW5 2TJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A3NE (S)	986	9	528985 185239
148	**Points of Interest - Education and Health** Name: Whittington Hospital Location: Highgate Hill, London, N19 5NX Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A18SE (NE)	662	9	529057 186916
148	**Points of Interest - Education and Health** Name: Whittington Hospital Location: St. Marys Wing, Magdala Avenue, London, N19 5NF Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19SW (NE)	683	9	529078 186930
149	**Points of Interest - Education and Health** Name: Whittington Hospital Location: St. Marys Wing, Highgate Hill, London, N19 5NF Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	732	9	529141 186954
149	**Points of Interest - Education and Health** Name: The Whittington Hospital Location: St. Marys Wing, Magdala Avenue, London, N19 5NF Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A19NW (NE)	732	9	529141 186954
149	**Points of Interest - Education and Health** Name: The Whittington Hospital Location: St. Marys Wing, Magdala Avenue, London, N19 5NF Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A19NW (NE)	732	9	529141 186954
149	**Points of Interest - Education and Health** Name: Whittington Hospital Location: St. Marys Wing, Magdala Avenue, London, N19 5NF Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A19NW (NE)	763	9	529144 186987
150	**Points of Interest - Manufacturing and Production** Name: Tank Location: NW5 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	0	9	528719 186232
151	**Points of Interest - Manufacturing and Production** Name: West Hill House Business Centre Location: 6 Swains Lane, London, N6 6QS Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A12NE (W)	354	9	528328 186358
151	**Points of Interest - Manufacturing and Production** Name: West Hill House Location: West Hill House 6, Swains Lane, London, N6 6QS Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A12NE (W)	355	9	528328 186358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	**Points of Interest - Recreational and Environmental** Name: Playground Location: Savernake Road, NW3 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A7NW (SW)	950	9	527840 185823
212	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	952	9	527841 185818
213	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	974	9	529035 185266
213	**Points of Interest - Recreational and Environmental** Name: Playground Location: Leverton Street, NW5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8SE (S)	974	9	529037 185267
214	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A9SE (SE)	978	9	529467 185536
214	**Points of Interest - Recreational and Environmental** Name: Playground Location: Anson Road, N19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A9SE (SE)	984	9	529480 185540
215	**Points of Interest - Recreational and Environmental** Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	981	9	528291 185324
215	**Points of Interest - Recreational and Environmental** Name: Play Area Location: NW5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A7SE (SW)	983	9	528288 185324
216	**Points of Interest - Recreational and Environmental** Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	992	9	529394 187102
216	**Points of Interest - Recreational and Environmental** Name: Playground Location: Henfield Close, N19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19NW (NE)	993	9	529394 187103
217	**Points of Interest - Recreational and Environmental** Name: Play Area Location: NW5 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	997	9	528481 185233
218	**Underground Electrical Cables** Unique Feature Identifier: 10006397 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A13NE (E)	159	10	528963 186269

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	**Underground Electrical Cables** Unique Feature Identifier: 10005830 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A13NE (E)	164	10	528963 186263
220	**Underground Electrical Cables** Unique Feature Identifier: 10006398 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A13NE (NE)	219	10	528982 186432
221	**Underground Electrical Cables** Unique Feature Identifier: 10005829 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A13SE (E)	231	10	529007 186177
222	**Underground Electrical Cables** Unique Feature Identifier: 10006399 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A18SE (NE)	366	10	528972 186629
223	**Underground Electrical Cables** Unique Feature Identifier: 10005828 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A14SW (SE)	382	10	529135 186091
224	**Underground Electrical Cables** Unique Feature Identifier: 10005827 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A14SW (E)	494	10	529258 186097
225	**Underground Electrical Cables** Unique Feature Identifier: 10006605 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A18SE (N)	531	10	528944 186816
226	**Underground Electrical Cables** Unique Feature Identifier: 10006632 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A14SW (SE)	640	10	529374 185994
227	**Underground Electrical Cables** Unique Feature Identifier: 10006634 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A18NE (N)	701	10	528913 187003
228	**Underground Electrical Cables** Unique Feature Identifier: 10006665 Cable Status: Electrically Decommissioned Cable Type: Cable Unknown Record Last Updated: 9th July 2018	A9NE (SE)	804	10	529481 185841

Data Suppliers

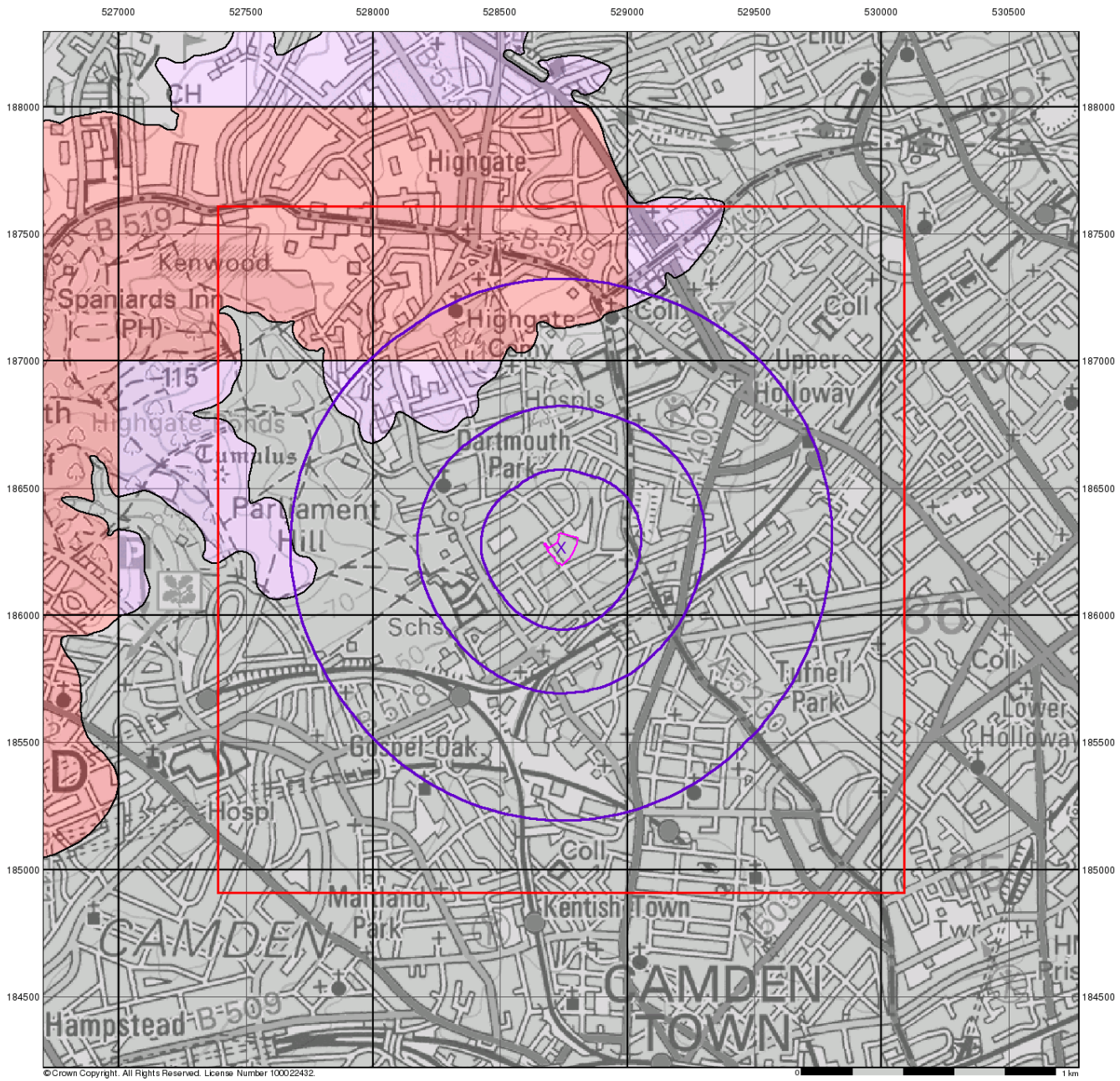
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**London Borough of Camden - Pollution Projects Team** Seventh Floor, Town Hall Extension, Argyle Street, London, WC1H 8EQ	Telephone: 020 7278 4444 Fax: 020 7860 5713 Website: www.camden.gov.uk
3	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	**London Borough of Islington - Environmental Health Department** 159 Upper Street, Islington, London, N1 1RE	Telephone: 020 7527 2000 Fax: 020 7477 3057 Website: www.islington.gov.uk
5	**Environment Agency - Head Office** Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
7	**London Borough of Camden** Town Hall, Judd Street, London, WC1H 9JE	Telephone: 020 7974 4444 Fax: 020 7974 6866 Email: info@camden.gov.uk Website: www.camden.gov.uk
8	**London Borough of Haringey - Planning Department** Civic Centre, 639 High Road, Tottenham, London, N17 8BD	Website: www.haringey.gov.uk
9	**PointX** 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
11	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	**Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards** Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	**Landmark Information Group Limited** Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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



GEA

Groundwater Vulnerability

General

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

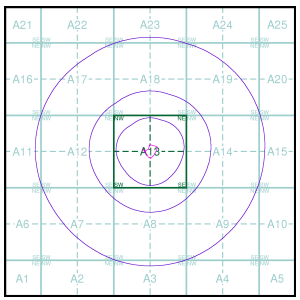
Agency and Hydrological

Bedrock Aquifers	Superficial Aquifers
High Vulnerability, Principal Aquifer	High Vulnerability, Principal Aquifer
High Vulnerability, Secondary Aquifer	High Vulnerability, Secondary Aquifer
Medium Vulnerability, Principal Aquifer	Medium Vulnerability, Principal Aquifer
Medium Vulnerability, Secondary Aquifer	Medium Vulnerability, Secondary Aquifer
Low Vulnerability, Principal Aquifer	Low Vulnerability, Principal Aquifer
Low Vulnerability, Secondary Aquifer	Low Vulnerability, Secondary Aquifer

Unproductive Aquifer

Soluble Rock

Site Sensitivity Context Map - Slice A



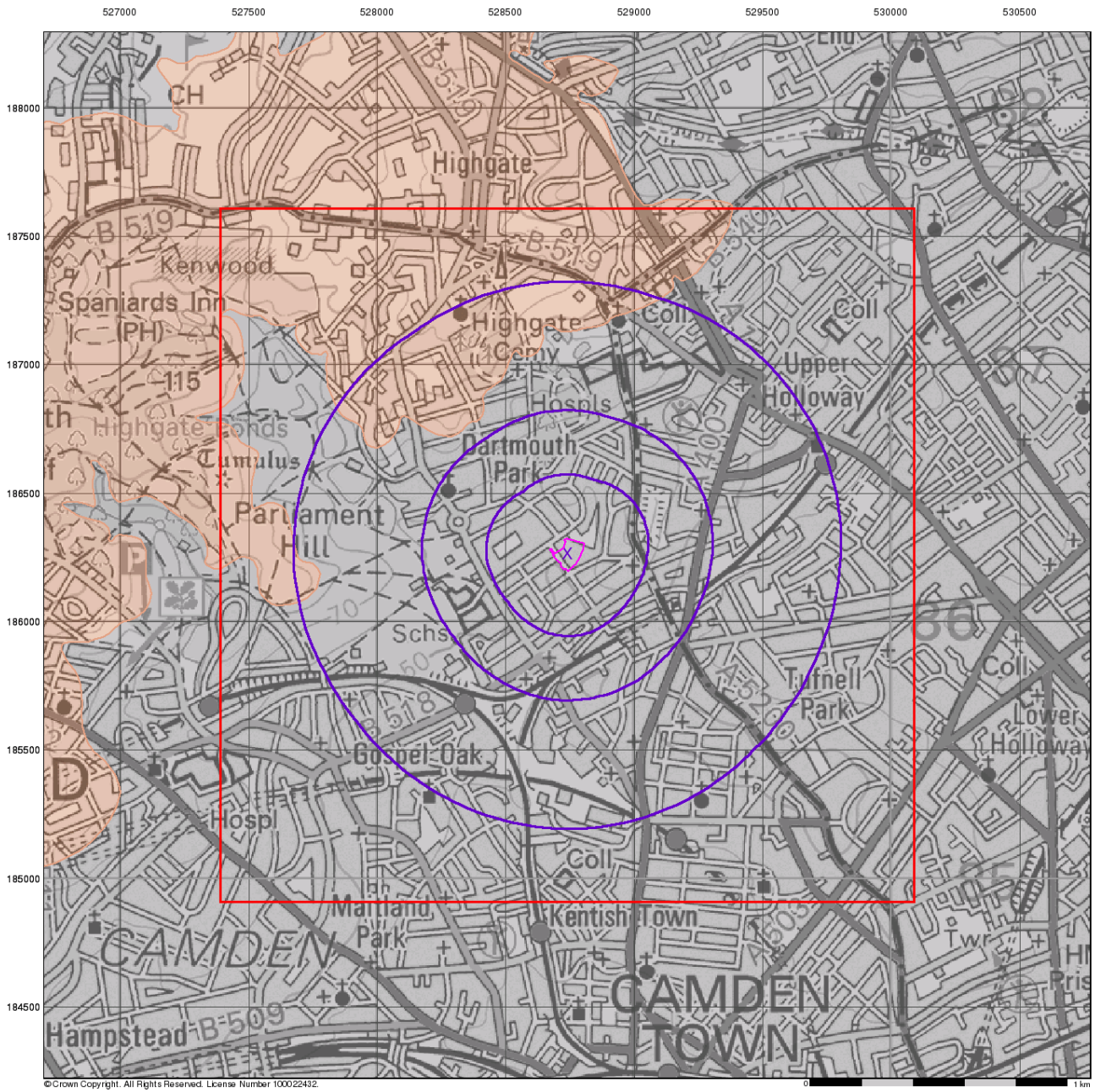
Order Details

Order Number:	285576290_1_1
Customer Ref:	J21288
National Grid Reference:	528740, 186270
Slice:	A
Site Area (Ha):	0.87
Search Buffer (m):	1000

Site Details

Former Mansfield Bowling Club, Croftdown Road, London, NW5 1SB

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



GEA

Bedrock Aquifer Designation

General

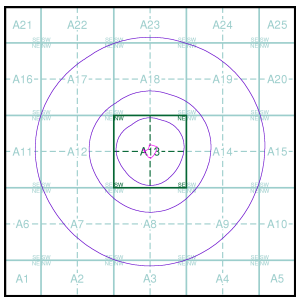
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

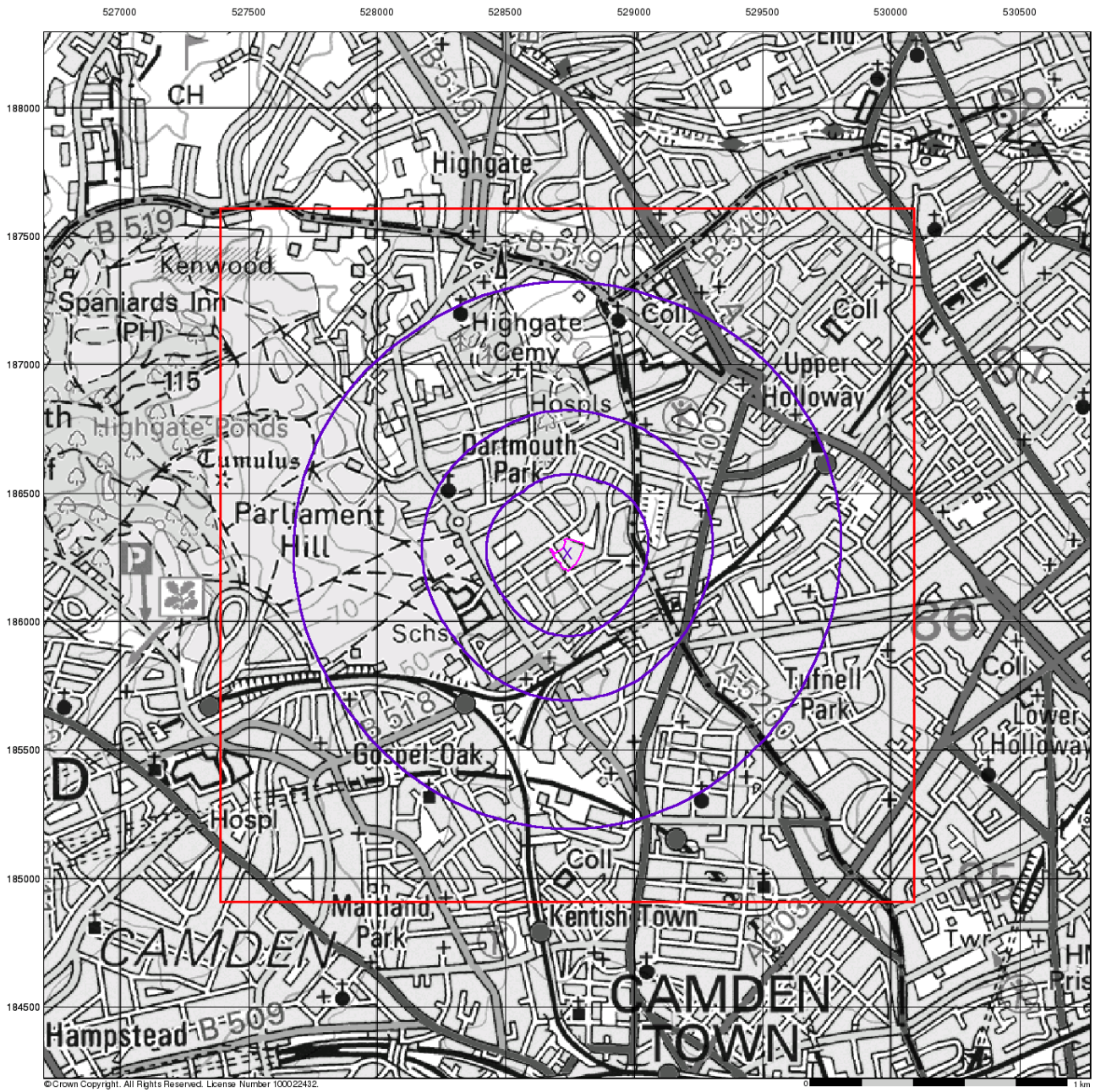


Order Details

Order Number:	285576290_1_1
Customer Ref:	J21288
National Grid Reference:	528740, 186270
Slice:	A
Site Area (Ha):	0.87
Search Buffer (m):	1000

Site Details

Former Mansfield Bowling Club, Croftdown Road, London, NW5 1SB



GEA

Superficial Aquifer Designation

General

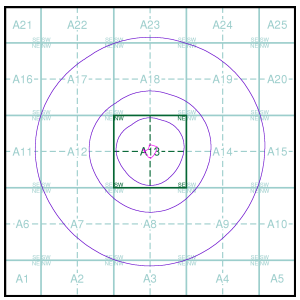
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number:	285576290_1_1
Customer Ref:	J21288
National Grid Reference:	528740, 186270
Slice:	A
Site Area (Ha):	0.87
Search Buffer (m):	1000

Site Details

Former Mansfield Bowling Club, Croftdown Road, London, NW5 1SB