

# **Desk Study and Ground Investigation Report with Remediation Proposals**

**Arborfield Green District Centre  
Arborfield Garrison  
Wokingham  
Berkshire**

Client

Crest Nicholson Chiltern

J2252

April 2023



|                           |                                                                                                                                        |               |                           |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------|
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### APPENDIX

## **1.0 INTRODUCTION**

The Wilson Bailey Partnership has been commissioned by Crest Nicholson Chiltern to research the environmental setting and history of the site and to carry out a ground investigation of this land parcel that forms the District Centre of the Arborfield Green redevelopment.

### **1.1 Proposed Development**

Consideration is currently being given to the development of the site as part of the wider redevelopment of the former Garrison.

Application is being made for approval of Reserved Matters pursuant to O/2014/2280 for the provision of a new District Centre including 200 dwellings, commercial floorspace (Use Class E), a community centre (including the provision of a nursery, café and associated community facilities), a pre-school, open space, new vehicular, pedestrian and cycle accesses with associated internal roads, parking, landscaping, drainage, substations, plant, bin and cycle storage.

A range of buildings are therefore to be constructed including commercial buildings that are envisaged to comprise a mixture of steel portal frame and traditional masonry, two storey traditional masonry built houses and low rise apartments up to four storeys, together with garages, driveways, areas of hardstanding for car parking, access roads with ancillary areas of planted soft landscaping and areas of private domestic gardens.

### **1.2 Purpose of Work**

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

- to check the history of the site with respect to previous uses of the site and surrounding areas;
- to determine the prevailing near surface ground conditions;
- to investigate and test for the presence of contamination;
- to carry out an appropriate risk assessment with regards to any contamination; and
- to provide advice and recommendations with respect to geotechnical design.

### **1.3 Scope of Work**

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

- a review of readily available geological maps and publically available information provided by the Environment Agency;
- a review of information provided by the Health Protection Agency with regards to radon;
- a review of Ordnance Survey (OS) maps sourced from the Groundsure database;
- a review of anecdotal information and historical maps held by the barracks; and
- a walkover survey of the site.

The physical ground investigation has been carried out in three phases and comprised, in summary, the following activities:

- a post demolition ground investigation comprising a 48 small diameter boreholes drilled to depths of up to 5.45 m below ground level in accessible locations across the site;
- three additional cable percussion drilled boreholes drilled to depths of up to 20m below ground level in locations selected by the Structural Engineers in the southern part of the site;
- laboratory testing of selected soil samples for geotechnical properties;
- laboratory testing of selected soil samples for the presence of contamination;
- monitoring of the installed standpipes for groundwater levels and the presence of routine soil gasses; and
- provision of a report presenting and interpreting the above data, together with our advice and recommendations with respect to the proposed development.

#### 1.4 Limitations

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

## 2.0 THE SITE

### 2.1 Site Description

The site considered as part of this report comprises the District Centre Parcel, which forms an irregular shaped area of sensibly level land. The site is predominantly formed of rough soft landscaping with site access tracks within the northern and central parts of the site and a tarmac surfaced road bisecting the southern part of the site and providing vehicular access to the former MOD library that is now disused and is to be converted into a community centre and early years nursery.

The majority of the eastern part of the site is currently being used for stockpiling of clean and earthworks suitable material arising from construction within other parts of the wider Arborfield Green development. These earthworks suitable fill materials are to be used as part of earthworks on this parcel and also within other parts of the Arborfield Green development site.

The site boundaries are relatively complex for this land parcel; the northern boundary is formed by a brook, that has been locally modified as part of the site wide drainage system, beyond which is an area of soft landscaped open space. The western boundary to the site is formed by

Sheerlands Road, with the southwestern boundary formed by Nine Mile Ride Extension. The western part of the southern boundary is formed by an area of recently completed residential apartments and associated car parking, with the remainder of the southern boundary formed by the extent of Bohunt School and the associated areas of school car parking and the Arborfield Leisure Centre.

No indications of potentially contaminative uses were identified as part of the site walkover.

## 2.2 Site History

The site history has been researched by reference to historical Ordnance Survey (OS) maps sourced from the Groundsure database and supplemented by information provided by the Local Authority environmental enquiry response and historical anecdotal information held by the garrison.

Records indicate that Arborfield Garrison has undergone three main phases of redevelopment during which various buildings have been demolished, cleared and constructed. These records indicate that this part of the Arborfield Garrison site was originally open agricultural land to the south of the main farm buildings and facilities that formed part of the original military base at this site when it was in use as a remount division responsible for providing the army with horses prior to mechanization of the military following World War One.

The second phase of military redevelopment occurred after the Second World War when the site became a training facility for technical apprentices working on military vehicles. As part of this phase of expansion and development this site was developed through the construction of a significant number of primarily accommodation buildings comprising barrack buildings with shared central facilities ('Spider Buildings') with a limited number of office, administration and education buildings in the northern part of this site. Most of the former education buildings and the sports facilities constructed as part of this second phase of redevelopment were located off site to the east of this land parcel.

During the third phase of military redevelopment in the 1970s and 1980s, the former accommodation Spider Buildings and many of the office and administration buildings were demolished and replaced with more modern two and three storey accommodation blocks.

During the early part of the 2000s, following closure of the military establishment at this site, all but one of the former military buildings were demolished and cleared. The former MOD library building was retained and is now located within the central eastern part of the site and is to be refurbished for use as a community centre and early years nursery.

## 2.3 Other Information

Searches of information provided by the Environment Agency have not indicated the presence of any nearby registered historical or current land fill sites. The nearest area of landfilling identified as a former brickwork is approximately 300m to the northwest of the site to the far side of the brook that form the northern boundary of the proposed development area. This former clay extraction pit was used as a landfill and was licensed to accept household, commercial and industrial wastes and following infilling was capped and engineered with a perimeter drainage trench and landfill gas management system.

The searches have also indicated the site to be located in an area where less than 1% of homes may be affected by radon emissions, which is the lowest risk category such that radon protection measures are not required as part of the redevelopment of this site.

The Geological Survey map of the area indicates the site to be underlain by London Clay from the surface, with various tracts of alluvium present in the vicinity of the site. Information provided by the Environment Agency indicates the site to not be underlain by any class of productive strata and to not be located within any class of Source Protection Zone associated with any licensed groundwater abstraction points.

The buildings at this site are not understood to include any substantial basement areas or plant rooms, although the former historical military buildings may have included such features and potentially may have included below ground level air raid shelters.

## 2.4 Preliminary Risk Assessment

The historical use of the site as part of a substantial military barracks may present several sources of historical contamination such as coal stores, oil stores and workshops, although the more recent use of the site as a military training facility is not considered to present a potential for ground contamination. The time that has elapsed since the historical potentially contaminative use may be expected to mitigate the potential risk posed by any relic ground contamination.

There is a potential for asbestos lined underground service trenches to have been installed as part of the former barrack use and there is a potential that the former military buildings at this site may have included potential contaminants including asbestos construction materials and lead based paints.

The presence of assumed low to negligible permeability London Clay soils would be expected to mitigate the potential for any off-site sources of ground contamination, groundwater contamination or soil gasses to impact upon this site.

On the basis of the above information there is considered to be a low to medium risk of potentially significant ground contamination at this site.

## 3.0 SAMPLING STRATEGY

In order to meet the objectives described in Section 1.2 a post demolition ground investigation has been carried out at this comprising a series of 43 exploratory holes to depths of up to 5.00 m below ground level together with three further boreholes extending to 20m below ground level. The locations of the exploratory holes were selected to obtain a general coverage and allow investigation of the prevailing ground conditions within the locally significant restrictions of the ongoing use of the site for materials storage and stockpiling of earthworks suitable site won excavation soils. The locations of the supplementary phase of ground investigation in the southern part of the site were agreed with engineers acting on behalf of the supermarket operator.

Representative samples of the soils encountered were taken to the laboratory for geotechnical testing and contamination analyses. The analytical suite of soil contamination testing was selected to identify concentrations of a wide range of potential contaminants of concern for the purposes of general coverage. For this investigation the analytical suite included a range of metals, speciated total petroleum hydrocarbons (TPHCWG), speciated polycyclic aromatic hydrocarbons (PAH), and monohydric phenols together with routine analyses for pH and organic

content. The contamination analyses were carried out at a MCERTs accredited laboratory and details of the MCERTs accreditation and test methods may be supplied on request.

The borehole records and results of the insitu soil testing and laboratory analyses are appended together with a site plan indicating the exploratory positions.

## **4.0 GROUND CONDITIONS**

The investigation has broadly confirmed the expected ground conditions in that below a variable depth of made ground, firm brown becoming stiff dark bluish grey clay soils of the London Clay that were proved to the full depth of investigation.

### **4.1 Made Ground**

Made ground was encountered in each of the exploratory holes to generally nominal depths of less than about one metre, but locally up to 1.90 m below ground level, which is considered to be consistent with the residual below ground remnants of the former military barracks buildings.

No visual or olfactory indications of ground contamination were noted within the made ground encountered as part of the ground investigation, although localised pockets of ash and tarmac fragments were occasionally noted in several holes.

Representative samples of the made ground and natural soils were recovered from a number of the boreholes from across the land parcels and analysed for a range of contaminants and the results are summarised in Section 4.5. Whilst not every soil sample has been tested it is considered that a suitable coverage of the site has been achieved.

### **4.2 London Clay Formation**

The clay soils of the London Clay Formation were encountered underlying the made ground across the site and proved to the maximum depth of investigation. These clay soils were found to be firm brown generally silty and sandy, locally vey sandy clay soils with occasional partings of fine orange-brown silty sand.

The laboratory geotechnical testing has indicated these clay soils to be of medium volume change potential and medium plasticity.

### **4.3 Soil Contamination**

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

The results of comprehensive laboratory analyses carried out by an MCERTS accredited laboratory on 35 representative soil samples recovered from this site are enclosed.

The assessment of these results is based upon the most sensitive land use proposed at this site, which is Residential with Plant Uptake.

The significance of the measured concentrations of any chemicals of concern have been assessed in relation to the available Environment Agency provided statutory C4SLs, supplemented with the available S4UL values that have been adopted by the Chartered Institute of Environmental Health (CIEH) for a residential with plant uptake end use and a soil organic matter representative of the results of the testing carried out (1%). These values are widely accepted as providing a suitable initial screening value against which measured concentrations of potential contaminants can be assessed to determine the requirement for site specific quantitative risk assessment.

| Determinant                                | Acceptability Criteria<br>(residential with plant uptake) mg/kg | Number of exceedances | Location of exceedances                                                                                                    |
|--------------------------------------------|-----------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|
| Asbestos                                   | No asbestos                                                     | 7 of 35               | BH 4 at 0.50m, BH 19 at 0.50m, BH 21 at 0.25m, BH 28 at 0.50m, BH29 at 1.00m, BH31 at 0.75m, WS01 at 0.50m & WS02 at 0.50m |
| Arsenic (As)                               | 32                                                              | None of 35            | --                                                                                                                         |
| Cadmium (Cd)                               | 10                                                              | None of 35            | --                                                                                                                         |
| Chromium (hex)                             | 4.3                                                             | None of 35            | --                                                                                                                         |
| Chromium (Cr)                              | 3000                                                            | None of 35            | --                                                                                                                         |
| Copper (Cu)                                | 2330                                                            | None of 35            | --                                                                                                                         |
| Lead (Pb)                                  | 200                                                             | None of 35            | --                                                                                                                         |
| Mercury (Hg)                               | 1.0                                                             | None of 35            | --                                                                                                                         |
| Nickel (Ni)                                | 130                                                             | None of 35            | --                                                                                                                         |
| Selenium (Se)                              | 350                                                             | None of 35            | --                                                                                                                         |
| Zinc (Zn)                                  | 3750                                                            | None of 35            | --                                                                                                                         |
| Benzo(a)pyrene                             | 5.0                                                             | None of 35            | --                                                                                                                         |
| Total Phenols (mono)                       | 420                                                             | 6 of 35               | BH 4 at 0.50m, BH 7 at 0.75m, BH 23 at 0.25m, BH42 at 0.25m, WS01 at 0.50m & WS06 at 0.75m                                 |
| Speciated Fuel Relation hydrocarbons (TPH) | Various species-specific values                                 | None of 35            | --                                                                                                                         |

#### 4.4 Groundwater

Groundwater seepages and inflows were encountered in a number of exploratory boreholes at depths consistent with the bottom of the made ground, such that these inflows are considered to be indicative of isolated pockets of perched water within the made ground and are not a consistent piezometric surface.

#### 4.5 Soil Gas

Soil gas monitoring is currently in hand and the results will be provided as an addendum to this report.

Soil gas monitoring carried out as part of ground investigations in the vicinity of the site have not indicated the presence of potentially problematic concentrations of soil gasses.

## 5.0 ADVICE AND RECOMMENDATIONS

The medium strength silty sandy clay soils of the London Clay could be suitable for supporting the anticipated lightly loaded spread foundations associated with traditional two storey houses, although the depth and variability of the made ground may result in some localised deepening of traditional foundations. It is anticipated that the potentially more substantial foundation loads associated with the proposed low rise apartment blocks and potentially the proposed retail store may require recourse to piled foundations, subject to detailed structural design.

### 5.1 Spread Foundations

Moderate width pad or strip foundations are anticipated to be viable for light to moderate foundation loads, where the depth of near surface fill materials has been found to be locally variable but not more than about 1.90 m below ground level. Foundations should bypass the made ground and reworked natural soils and may be designed to found within the medium strength brown variably sandy clay soils of the London Clay at a minimum depth of 1.00 m below ground level and apply a net allowable bearing pressure of 100 kN/m<sup>2</sup>, with a minimum width of 0.60m.

This above assumed net allowable bearing capacity value includes an adequate factor of safety against bearing capacity failure and should ensure that settlement remains within normal tolerable limits. In the unlikely event that heavily or eccentrically loaded foundations are required for proposed traditional two storey housing, a check should be made on the magnitude of settlement once the base sizes are known, as the design bearing pressure is settlement dependent.

Should traditional strip foundations or pad foundation be considered for the proposed low rise apartments and the proposed retail store, detailed settlement calculations and bearing capacity checks should be carried out as part of the structural design to check the viability of potentially wider and closely spaced pad and strip foundations that may be necessary to support the anticipated higher structural loads likely to be associated with these structures.

Foundations will need to be deepened in the vicinity of existing, retained and proposed trees and in accordance with the guidance provided by the National House Building Council (NHBC). Localised additional deepening may also be required in any potential areas of locally deepened made ground that could be present as a result of historical developments on this site.

Where trees are to be removed the required founding depth should be determined on the basis of the existing tree height if it is less than 50% of the mature height and on the basis of full mature height if the current height is more than 50% of the mature height. Where a tree is to be retained the final mature height should be adopted and due allowance should be made for future growth of trees, with particular reference to the relatively dense additional planting that is proposed as part of the ecological mitigation measures. As part of the foundation assessment an allowance for the group effects of trees and dense vegetation should be considered, with further ground investigation and assessment carried out as deemed necessary by the structural engineers.

Notwithstanding NHBC guidelines, all foundations should extend beyond the zone of desiccation; in this respect it would be prudent to have foundation excavations inspected by a suitably experienced engineer. The requirement for compressible material alongside foundations should be determined by reference to the NHBC guidelines.

The results of laboratory geotechnical testing indicate the clay soils to be medium plasticity with a medium volume change potential.

## 5.2 Piled Foundations

If required, piled foundations will need to extend into the London Clay at depth on this site the records of the three deeper cable percussion drilled boreholes may be used by piling contractors at this site to inform the design of piles and the selection of appropriate piling techniques.

It is envisaged that piles installed by means of a continuous flight auger (CFA) may be most suitable at this site. Whilst driven piles could be technically viable, the proximity of the site to existing occupied apartments and a school may present potential restrictions to the use of driven piling techniques due to noise and vibration restrictions.

## 5.3 Excavations

It is likely that across the majority of the site shallow excavations for services and foundations within the near surface soils are likely to remain within the placed earthworks fill materials and as such may be expected to be dry and broadly stable in the short term. Groundwater seepages of perched water may be encountered within the made ground although these should be of limited volume and should be readily controlled by sump pumping.

Where personnel are required to enter excavations, a risk assessment should be carried out and temporary lateral support or battering of the excavation sides considered in order to comply with normal safety requirements.

## 5.4 Ground Floor Slabs

In view of the presence of made ground and medium plasticity clay soils it is anticipated that there will be a requirement for suspended ground floor slabs over a void in accordance with NHBC guidelines at this site.

Consideration could be given to a ground bearing slab for the proposed retail unit following ground preparation comprising removal of the near surface made ground and the replacement with a suitable thickness of suitable crushed aggregate that would require placement and compaction to an earthworks specification that will need to be formulated by the designers in due course.

## 5.5 Pavement Design

The formation level for hard standings and access roads across the majority of the site is likely to be within the near surface clay soils such that pavements may be designed on the basis of an assumed California Bearing Ratio (CBR) of 2%. Where new pavements are required to be constructed within areas of reworked natural ground and historical fill materials, preliminary design may be based upon an assumed CBR of “less than 2%”.

Preliminary CBR testing carried out using a MEXE cone penetrometer carried out as part of the ground investigation supports the suitability of these values for preliminary design, although insitu CBR testing should be carried out as part of the detailed design of new pavements once the layout and levels of the proposed development are known.

Due to the presence of clay soils, earthworks and road formations within winter months may be challenging and the formation level may be expected to degrade rapidly with site traffic and rain.

## 5.6 Buried Services

Precautions to ensure the protection of potentially sensitive underground services, such as drinking water pipes, are not likely to be required based on the results of parcel specific soil contamination testing.

Statutory utility providers do however have a responsibility for ensuring the provision of wholesome water and may insist upon a parcel wide requirement for protected plastic services, particularly due to the former military use and multiple phases of development and redevelopment at this site. Detailed discussions with the utility company should be held as soon as possible in order to discuss the protection of buried potentially sensitive services.

## 5.7 Effect of Sulphates

The results of chemical analyses of selected soil samples for the presence of sulphates have indicated low levels of sulphates such that buried concrete should be designed in accordance with Class DS-1 AC-1s of Table 2 of BRE Special Digest 1: SD1. The guidelines contained in this digest should be followed in the design of foundation concrete.

## 5.8 Surface Water Drainage

Soakage testing did not form part of the brief for this ground investigation work as infiltration based drainage is not considered to present a viable option for the disposal of surface waters due to the predominantly clayey nature of the near surface soils. A scheme has been designed by AECOM for the development wide management of surface water, including attenuation, storage and discharge to the stream that forms the northern boundary to the development parcel

## 5.9 Contamination Risk Assessment

The historical use of the site as part of a post World War Two period military barracks presents the potential for a wide range of potential ground contamination. The ground investigation has identified the presence of asbestos and polyaromatic hydrocarbon contamination that are likely to be associated with former construction materials used in the former buildings that were subsequently demolished that could pose a risk with regards to ground contamination.

One of the requirements of the Environment Act (1995) is that local authorities carry out inspections of their area with a view to identifying sites that may be contaminated. When assessing whether a site is contaminated the local authority will attempt to establish the presence of a 'pollution linkage'. A pollution linkage requires there to be a source of contamination, a sensitive receptor that can be adversely affected by the contamination and a pathway via which contamination can reach the target.

The proposed development of the site will introduce new sensitive receptors in the form of end users and construction workers, together with the formation of new pathways through the creation of areas of private domestic gardens, although within other parts of the development such as areas of car parking and the proposed retail store within the southern part of the site, any contaminated soils would be effectively capped by the proposed extent of hard surfaced car parking and the proposed buildings.

With regards to the specific considerations required under the planning conditions, the risk to the following potentially sensitive receptors has been considered;

### **Human Health (end users) – RESIDENTIAL DEVELOPMENT AREAS**

Potential risks posed to human health have been considered and the results of soil contamination testing indicate that there is a requirement for ground remediation through the placement of a clean capping layer of topsoil and subsoil within areas of proposed private domestic gardens and areas of proposed managed communal access soft landscaping.

It is proposed that this clean capping should be a minimum of 600mm of clean topsoil and subsoil to proposed areas of private domestic gardens, with a requirement for 450mm of clean topsoil and subsoil in areas of managed planting. This capping could be reduced to 300mm in areas of publicly accessible managed lawn and grass.

Subject to the completion of the programme of soil gas monitoring for this site a requirement for soil gas protection to be incorporated into the design of ground floor slabs is not currently anticipated. This assessment is based upon the findings of previous monitoring carried out on adjoining sites together with the assumed low to negligible permeability of the London Clay and the presence of a hydrogeological barrier to potential soil gas migration being present between the nearest landfill site and this development parcel.

As with any brownfield redevelopment site there is a potential for localised ground contamination that should be managed as part of an overall site contaminated land watching brief.

### **Human Health (end users) – COMMERCIAL DEVELOPMENT AREAS**

Potential risks posed to human health have been considered and the results of soil contamination testing indicate that there is not a requirement for ground remediation associated with the commercial redevelopment proposals other than the provision of a suitable depth of clean topsoil and subsoil capping to any in-ground areas of soft landscaping that may be proposed as part of the commercial landscaping scheme. The suitable depth for managed areas of soft landscaping and planting is normally set at 450mm, which is anticipated to be similar to the basic requirements of landscape architects responsible for designing the scheme, noting that this requirement is also likely to be less than the anticipated requirement of 1.00m deep tree pits that are normally specified for standard or mature standard trees used in landscaping schemes.

Once the detailed landscaping proposals have been finalised for the commercial development areas, the requirement for remediation will need to be reviewed and updated.

### **Human Health (site workers and future maintenance workers)**

Precautions with regards to site workers and future maintenance workers are anticipated over and above normal safe working practices such as restricted eating and drinking, regular hand washing and the provision and use of routine PPE in order to ensure protection from any relic asbestos contamination within the existing fill materials.

Task specific risk assessments will need to be carried out by the Contractor to ensure that a safe system of work can be developed for this site.

### **Property (existing or proposed) including buildings, crops, livestock, pets, woodland and service lines and pipes,**

The risk to these potential receptors has been considered and in view of the absence of significant potentially mobile ground contamination, a significant risk warranting further action has not been identified. The requirement for protected services such as drinking water has been considered and should be discussed in detail with the statutory utility provider for potable water.

### **Adjoining land,**

The risk to this potential receptor has been considered and in view of the absence of significant potentially mobile ground contamination, a significant risk warranting further action has not been identified.

### **Groundwaters and surface waters**

The risk to these potential receptors has been considered and in view of the absence of significant potentially mobile ground contamination, or a hydraulically continuous groundwater regime, a significant risk warranting further action has not been identified.

### **Ecological systems**

The risk to this potential receptor has been considered and in view of the absence of significant potentially mobile ground contamination, a significant risk warranting further action has not been identified.

## **5.10 Waste Disposal and Materials Management**

Any spoil arising from excavations or landscaping works will need to be disposed of to a licensed tip. Under the European Waste Directive landfills are classified as accepting Inert, Non-hazardous or Hazardous wastes in accordance with Waste Acceptance Criteria (WAC) which, for Non-hazardous and Inert wastes are based upon the results of CEN method bulk leaching tests or percolation tests.

Based upon the results of the analyses carried out and the technical guidance provided by the Environment Agency<sup>1</sup> it is considered likely that arisings from construction works on this land parcel are likely to be generally classified as Non-Hazardous waste, although arisings from excavations into natural ground may be classified as Inert providing they can be effectively segregated.

The presence of asbestos within the made ground will need to be carefully considered and the measured asbestos concentrations would mean that the arisings of made ground could not be disposed of as Inert wastes, although they are not likely to attract a Hazardous Waste classification.

In the unlikely event that during the course of the ground works soils are found to be stained or have any hydrocarbon odour, they should be stockpiled separately from other soils in order that they may be tested to determine a revised waste classification, as these soils may potentially require classification as Hazardous waste. Any such segregation, stockpiling or on site treatment to reduce or later the likely waste classification will need to be carried out in accordance with a Materials Management Plan that will need to be approved by the Environment Agency prior to commencement of work.

In any case, all waste classifications should be confirmed by the receiving landfill once the soils to be discarded have been identified. In order to finalise an Inert waste classification, it will probably be necessary to carry out further analyses including WAC CEN method bulk leaching tests. Such tests should be carried out upon representative samples from the waste stream once the extent of the materials to be discarded has been established.

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<sup>1</sup> Environment Agency 2003. *Hazardous Waste: Interpretation of the definition and classification of hazardous waste*. Technical Guidance WM2

The local waste regulation department of the Environment Agency (EA) should be contacted to obtain details of tips that are licensed to accept the soil represented by the test results. The tips will be able to provide costs for disposing of this material and the scope of any additional testing that may be required.

## 6.0 REQUIREMENT FOR REMEDIATION

On the basis of the ground investigation works, subject to the completion of the programme of soil gas monitoring, the following requirement for remediation has been identified;

### Requirement for Soil Contamination Remediation

Further remediation above and beyond the provision of a clean capping layer and a routine watching brief for ground contamination is not anticipated to be required.

For residential development areas it is proposed that this clean capping should be a minimum of 600mm of clean topsoil and subsoil to proposed areas of private domestic gardens, with a requirement for 450mm of clean topsoil and subsoil in areas of managed planting. This capping could be reduced to 300mm in areas of publicly accessible managed lawn and grass.

For commercial development areas, should these include any areas of in-ground soft landscaping then a similar clean capping should be provided comprising a reduced 450mm thickness of clean topsoil and subsoil. Should the landscaping scheme comprise above ground planting in raised planters that are effectively isolated from the existing ground, additional precautions are not envisaged to be required.

A watching brief will need to specifically consider parts of the site where access for ground investigation has been restricted / limited / not possible.

Details of the Remediation Validation Plan will need to be agreed in due course and will include testing of topsoil to be used in areas of garden and soft landscaping, together with inspections to confirm the depth of the capping layer and the depth of topsoil.

### Requirement for Groundwater Remediation

The ground investigation works have not indicated the potential for on-site contamination of the groundwater, such that a requirement for groundwater remediation is not envisaged.

### Requirement for Soil Gas Remediation

The desk study research has not identified an increased risk with regards to soil gasses and monitoring carried out in the vicinity of the site previously has not identified a requirement for the development at this site. Confirmatory site specific gas monitoring is currently in hand and will be issued in due course.

## 9.0 FURTHER WORK

As with the development of any site there is the risk of further localised pockets of contamination being encountered as part of the proposed ground works. The development should therefore be carried out in accordance with the requirements of a routine geo-environmental watching brief, whereby should any contaminated or suspicious soils be encountered they may be appropriately

tested, investigated and assessed by Wilson Bailey Partnership in consultation with the Regulatory Authorities before agreeing the scope of any remedial actions as necessary.

A phase of enabling site clearance will be required prior to the redevelopment of this site through the removal and reuse of on-site stockpiles of earthworks suitable materials as part of a Materials Management Plan. A watching brief should also be maintained during this phase of works to check for the presence of any localised ground contamination that may require further investigation and assessment.

Any reuse of materials on this site should be carried out under a Materials Management Plan and any placement should be carried out in accordance with a Earthworks Specification that will need to be developed for this site.

A Remediation Validation Plan will need to be formulated to set out the requirements of the report that will need to be presented to demonstrate the completion of the capping works at this site and the importation of suitably clean earthworks suitable materials and topsoil.

## APPENDIX

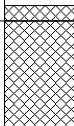
Borehole Records

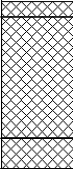
Soil Geotechnical Laboratory Analyses

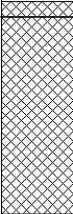
Soil Chemical Analyses

Selected Historical Ordnance Survey Maps

Site Plan

|                                                                                                                                                     |                |                 |               |                     |                       |                                                                                   |  |                                                                                     |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|---------------|---------------------|-----------------------|-----------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|-------|
| <div> <b>WILSON BAILEY</b><br/>GEOTECHNICAL &amp; ENVIROMENTAL</div> |                |                 |               |                     |                       | Site<br>Arborfield District Centre                                                |  | Number<br><b>BH1</b>                                                                |       |
| Excavation Method<br>Drive-in Windowless Sampler                                                                                                    |                | Dimensions      |               | Ground Level (mOD)  |                       | Client<br>Crest Nicholson Chiltern                                                |  | Job Number<br>J202252                                                               |       |
|                                                                                                                                                     |                | Location        |               | Dates<br>02/12/2022 |                       | Engineer<br>DPB                                                                   |  | Sheet<br>1/1                                                                        |       |
| Depth (m)                                                                                                                                           | Sample / Tests | Water Depth (m) | Field Records | Level (mOD)         | Depth (m) (Thickness) | Description                                                                       |  | Legend                                                                              | Water |
| 0.50                                                                                                                                                | D1             |                 |               |                     | 0.10                  | MADE GROUND (reworked topsoil)                                                    |  |  |       |
|                                                                                                                                                     |                |                 |               |                     | (0.70)                | MADE GROUND (reworked brown clay with gravel and brick)                           |  |                                                                                     |       |
| 1.00-1.45<br>1.00                                                                                                                                   | SPT N=7<br>D2  |                 | 1,1/1,2,2,2   |                     | 0.80                  | Reworked silty sandy CLAY with scattered fine flint gravel - possible made ground |  |  |       |
| 1.50                                                                                                                                                | D3             |                 |               |                     | (1.30)                |                                                                                   |  |  |       |
| 2.00-2.45<br>2.00                                                                                                                                   | SPT N=11<br>D4 |                 |               |                     | 2.10                  | Firm brown with pale grey mottled slightly silty fissured CLAY                    |  |  |       |
| 2.50                                                                                                                                                | D5             |                 |               |                     | (0.90)                |                                                                                   |  |  |       |
| 3.00-3.45<br>3.00                                                                                                                                   | SPT N=12<br>D6 |                 |               |                     | 3.00                  | Complete at 3.00m                                                                 |  |  |       |
| Remarks<br>Groundwater not encountered. Standpipe installed with a response zone from 1.00m to 3.00m.                                               |                |                 |               |                     |                       | Scale (approx)<br>1:50                                                            |  | Logged By                                                                           |       |
|                                                                                                                                                     |                |                 |               |                     |                       | Figure No.<br>J202252.BH1                                                         |  |                                                                                     |       |

|                                                                                                                                     |                       |                        |                           |                            |                                                                                              |                                                                                     |                                                                                     |                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------------------|----------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|--|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                           |                            | <b>Site</b><br>Arborfield District Centre                                                    |                                                                                     | <b>Number</b><br><b>BH10</b>                                                        |                              |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                           | <b>Ground Level (mOD)</b>  |                                                                                              | <b>Client</b><br>Crest Nicholson Chiltern                                           |                                                                                     | <b>Job Number</b><br>J202252 |  |
|                                                                                                                                     |                       | <b>Location</b>        |                           | <b>Dates</b><br>02/12/2022 |                                                                                              | <b>Engineer</b><br>DPB                                                              |                                                                                     | <b>Sheet</b><br>1/1          |  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>                                                                 | <b>Description</b>                                                                  | <b>Legend</b>                                                                       | <b>Water</b>                 |  |
| 0.50                                                                                                                                | D1                    |                        | Water strike(1) at 0.90m. |                            | 0.10<br>(0.80)                                                                               | MADE GROUND (reworked topsoil)<br>MADE GROUND (reworked clay with brick and gravel) |  | V1                           |  |
| 1.00                                                                                                                                | D2                    |                        |                           | 0.90<br>(0.20)<br>1.10     | MADE GROUND (flint gravel)<br>Firm brown with pale grey mottled slightly silty fissured CLAY |                                                                                     |                                                                                     |                              |  |
| 1.50                                                                                                                                | D3                    |                        |                           |                            |                                                                                              |                                                                                     |                                                                                     |                              |  |
| 2.00                                                                                                                                | D4                    |                        |                           |                            | (1.90)                                                                                       |                                                                                     |                                                                                     |                              |  |
| 2.50                                                                                                                                | D5                    |                        |                           |                            |                                                                                              |                                                                                     |                                                                                     |                              |  |
| 3.00                                                                                                                                | D6                    |                        |                           |                            | 3.00                                                                                         | Complete at 3.00m                                                                   |                                                                                     |                              |  |
| <b>Remarks</b><br>Groundwater encountered at 0.9m                                                                                   |                       |                        |                           |                            |                                                                                              | <b>Scale (approx)</b><br>1:50                                                       |                                                                                     | <b>Logged By</b>             |  |
|                                                                                                                                     |                       |                        |                           |                            |                                                                                              | <b>Figure No.</b><br>J202252.BH10                                                   |                                                                                     |                              |  |

|                                                                                                                                     |                       |                        |                      |                            |                              |                                                                                                     |  |                                                                                     |              |
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|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            |                              | <b>Site</b><br>Arborfield District Centre                                                           |  | <b>Number</b><br><b>BH11</b>                                                        |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                              | <b>Client</b><br>Crest Nicholson Chiltern                                                           |  | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                              | <b>Engineer</b><br>DPB                                                                              |  | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b> | <b>Description</b>                                                                                  |  | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | 0.10                         | MADE GROUND (reworked topsoil)                                                                      |  |  |              |
|                                                                                                                                     |                       |                        |                      |                            | (1.30)                       | MADE GROUND (reworked clay with occasional fine brick and gravel and partings of fine sandy gravel) |  |                                                                                     |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            |                              |                                                                                                     |  |                                                                                     |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            | 1.40                         | Firm brown with grey mottled slightly silty fissured CLAY                                           |  | —                                                                                   |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            |                              |                                                                                                     |  | —                                                                                   |              |
|                                                                                                                                     |                       |                        |                      |                            | (1.60)                       |                                                                                                     |  | —                                                                                   |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                              |                                                                                                     |  | —                                                                                   |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                         | Complete at 3.00m                                                                                   |  | —                                                                                   |              |
| <b>Remarks</b><br>Groundwater not encountered.                                                                                      |                       |                        |                      |                            |                              | <b>Scale (approx)</b><br><br>1:50                                                                   |  | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                              |                                                                                                     |  |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>02/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness)  | Description                                                                                                                                                        | Legend                                                                              | Water |
|-----------|----------------|-----------------|---------------|-------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| 0.50      | D1             |                 |               |             | 0.10<br>(0.50)<br>0.60 | MADE GROUND (reworked topsoil)<br>MADE GROUND (reworked brown sandy clay with fine flint gravel)<br>Firm brown with pale grey mottled slightly silty fissured CLAY |  |       |
| 1.00      | D2             |                 |               |             |                        |                                                                                                                                                                    |  |       |
| 1.50      | D3             |                 |               |             |                        |                                                                                                                                                                    |  |       |
| 2.00      | D4             |                 |               |             | (2.40)                 |                                                                                                                                                                    |  |       |
| 2.50      | D5             |                 |               |             |                        |                                                                                                                                                                    |  |       |
| 3.00      | D6             |                 |               |             | 3.00                   | Complete at 3.00m                                                                                                                                                  |  |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH12 |                  |



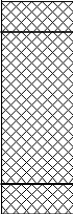
|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>02/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                    | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|----------------------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | 0.10                  | MADE GROUND (reworked topsoil)                                 |        |       |
|                   |                |                 |               |             | (0.80)                | MADE GROUND (reworked brown clay with brick and gravel)        |        |       |
|                   |                |                 |               |             | 0.90                  | Firm brown with pale grey mottled slightly silty fissured CLAY |        |       |
| 1.00-1.45<br>1.00 | SPT N=8<br>D2  |                 | 1,1/2,2,2,2   |             |                       |                                                                |        |       |
| 1.50              | D3             |                 |               |             |                       |                                                                |        |       |
| 2.00-2.45<br>2.00 | SPT N=9<br>D4  |                 | 2,2/2,2,2,3   |             | (2.10)                |                                                                |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                                |        |       |
| 3.00-3.45<br>3.00 | SPT N=12<br>D6 |                 | 2,3/3,2,3,4   |             | 3.00                  | Complete at 3.00m                                              |        |       |

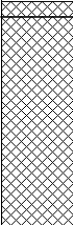
|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH13 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>02/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records             | Level (mOD) | Depth (m) (Thickness)  | Description                                           | Legend                                                                              | Water |
|-----------|----------------|-----------------|---------------------------|-------------|------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-------|
| 0.50      | D1             |                 | Water strike(1) at 1.20m. |             | (0.20)<br>0.20         | MADE GROUND (reworked topsoil)                        |  | V1    |
|           |                |                 |                           |             |                        | MADE GROUND (reworked brown clay and gravel)          |                                                                                     |       |
| 1.00      | D2             |                 |                           |             | (1.00)                 |                                                       |                                                                                     |       |
|           |                |                 |                           |             | 1.20<br>(0.20)<br>1.40 | MADE GROUND (shingle)                                 |                                                                                     |       |
| 1.50      | D3             |                 |                           |             |                        | Firm brown with pale grey mottled slightly silty CLAY |                                                                                     |       |
| 2.00      | D4             |                 |                           |             | (1.60)                 |                                                       |                                                                                     |       |
| 2.50      | D5             |                 |                           |             |                        |                                                       |                                                                                     |       |
| 3.00      | D6             |                 |                           |             | 3.00                   | Complete at 3.00m                                     |                                                                                     |       |

|                                                     |                                   |                  |
|-----------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater encountered at 1.20m. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                     | <b>Figure No.</b><br>J202252.BH14 |                  |
|                                                     |                                   |                  |

|                                                                                                                                     |                       |                        |                      |                            |                              |                                                 |  |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|------------------------------|-------------------------------------------------|--|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            |                              | <b>Site</b><br>Arborfield District Centre       |  | <b>Number</b><br><b>BH15</b>                                                        |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                              | <b>Client</b><br>Crest Nicholson Chiltern       |  | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                              | <b>Engineer</b><br>DPB                          |  | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b> | <b>Description</b>                              |  | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | 0.10                         | MADE GROUND (reworked topsoil)                  |  |  |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | (1.40)                       | MADE GROUND (dark brown sandy clay with gravek) |  |                                                                                     |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            | 1.50                         | Firm brown and pale grey mottled silty CLAY     |  |  |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            | (1.50)                       |                                                 |  |                                                                                     |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                              |                                                 |  |                                                                                     |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                         | Complete at 3.00m                               |  |                                                                                     |              |
| <b>Remarks</b><br>Groundwater not encountered. Standpipe installed with a response zone from 1.00m to 3.00m.                        |                       |                        |                      |                            |                              | <b>Scale (approx)</b><br><br>1:50               |  | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                              | <b>Figure No.</b><br>J202252.BH15               |  |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>02/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness)            | Description                                                     | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|----------------------------------|-----------------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.30)<br>0.30<br>(0.30)<br>0.60 | MADE GROUND (reworked topsoil)                                  |        |       |
|           |                |                 |               |             |                                  | Firm dark brown slightly silty CLAY                             |        |       |
|           |                |                 |               |             |                                  | Firm brown with pale grey mottled slightly tsilty fissured CLAY |        |       |
| 1.00      | D2             |                 |               |             |                                  |                                                                 |        |       |
| 1.50      | D3             |                 |               |             |                                  |                                                                 |        |       |
| 2.00      | D4             |                 |               |             | (2.40)                           |                                                                 |        |       |
| 2.50      | D5             |                 |               |             |                                  |                                                                 |        |       |
| 3.00      | D6             |                 |               |             | 3.00                             | Complete at 3.00m                                               |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Grounwdater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH16 |                  |

|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |                                                                                       |                  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|------------------------------------------|----------------------------|------------------------------|------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|------------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                                          |                            |                              | <b>Site</b><br>Arborfield District Centre                                          |  | <b>Number</b><br><b>BH17</b>                                                          |                  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                                          | <b>Ground Level (mOD)</b>  |                              | <b>Client</b><br>Crest Nicholson Chiltern                                          |  | <b>Job Number</b><br>J202252                                                          |                  |
|                                                                                                                                     |                       |                        |                                          |                            |                              | <b>Engineer</b><br>DPB                                                             |  | <b>Sheet</b><br>1/1                                                                   |                  |
|                                                                                                                                     |                       | <b>Location</b>        |                                          | <b>Dates</b><br>02/12/2022 |                              |                                                                                    |  |                                                                                       |                  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>                     | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b> | <b>Description</b>                                                                 |  | <b>Legend</b>                                                                         | <b>Water</b>     |
| 0.50                                                                                                                                | D1                    |                        |                                          |                            | (0.40)<br>0.40               | MADE GROUND (with crush)                                                           |  |    |                  |
| 1.00                                                                                                                                | D2                    |                        |                                          |                            | 0.40                         | Yellowish orange-brown silty sandy fine to medium flint GRAVEL                     |  |    |                  |
| 1.00-1.45                                                                                                                           | SPT N=10              |                        | Water strike(1) at 1.00m.<br>2,2/3,3,2,2 |                            | (0.65)                       |                                                                                    |  |                                                                                       |                  |
| 1.50                                                                                                                                | D3                    |                        |                                          |                            | 1.05                         | Soft pake grey and brown silty sandy CLAY with fine flint gravel                   |  |    |                  |
| 2.00-2.45                                                                                                                           | SPT N=13              |                        | 2,2/3,4,3,3                              |                            | (0.25)                       |                                                                                    |  |                                                                                       |                  |
| 2.00                                                                                                                                | D4                    |                        |                                          |                            | 1.30                         | Firm brown silty CLAY with occasional partings of orange-brown silty fissured sand |  |    |                  |
| 2.50                                                                                                                                | D5                    |                        |                                          |                            |                              |                                                                                    |  |    |                  |
| 3.00-3.45                                                                                                                           | SPT N=13              |                        | 3,4/4,3,3,3                              |                            | (1.70)                       |                                                                                    |  |    |                  |
| 3.00                                                                                                                                | D6                    |                        |                                          |                            | 3.00                         | Complete at 3.00m                                                                  |  |    |                  |
|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |    |                  |
|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |    |                  |
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|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |  |                  |
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|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |  |                  |
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|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |  |                  |
|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |  |                  |
| <b>Remarks</b>                                                                                                                      |                       |                        |                                          |                            |                              |                                                                                    |  | <b>Scale (approx)</b><br>1:50                                                         | <b>Logged By</b> |
|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  | <b>Figure No.</b><br>J202252.BH17                                                     |                  |
|                                                                                                                                     |                       |                        |                                          |                            |                              |                                                                                    |  |                                                                                       |                  |

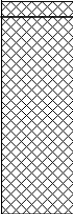
|                                                                                                                                     |                       |                        |                           |                            |                                           |                                                                         |                              |                                                                                     |                |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------------------|----------------------------|-------------------------------------------|-------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|----------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                           |                            | <b>Site</b><br>Arborfield District Centre |                                                                         | <b>Number</b><br><b>BH18</b> |                                                                                     |                |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                           | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                               |                              | <b>Job Number</b><br>J202252                                                        |                |
|                                                                                                                                     |                       | <b>Location</b>        |                           | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                                  |                              | <b>Sheet</b><br>1/1                                                                 |                |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                                      |                              | <b>Legend</b>                                                                       | <b>Water</b>   |
| 0.50                                                                                                                                | D1                    |                        | Water strike(1) at 1.20m. |                            | (0.60)                                    | MADE GROUND (brown sandy clay with brick)                               |                              |  | V <sub>1</sub> |
| 1.00                                                                                                                                | D2                    |                        |                           |                            | 0.60<br>(0.70)                            | MADE GROUND (brown sandy fine ot medium flint gravel with glass shards) |                              |  |                |
| 1.50                                                                                                                                | D3                    |                        |                           |                            | 1.30                                      | Firm brown and grey mottled silty CLAY                                  |                              |  |                |
| 2.00                                                                                                                                | D4                    |                        |                           |                            | (1.70)                                    |                                                                         |                              |  |                |
| 2.50                                                                                                                                | D5                    |                        |                           |                            |                                           |                                                                         |                              |  |                |
| 3.00                                                                                                                                | D6                    |                        |                           |                            | 3.00                                      | Complete at 3.00m                                                       |                              |  |                |
| <b>Remarks</b><br>Groundwater encountered at 1.20m.                                                                                 |                       |                        |                           |                            |                                           | <b>Scale (approx)</b><br>1:50                                           |                              | <b>Logged By</b>                                                                    |                |
|                                                                                                                                     |                       |                        |                           |                            |                                           | <b>Figure No.</b><br>J202252.BH18                                       |                              |                                                                                     |                |

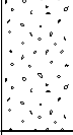


|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>02/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records             | Level (mOD) | Depth (m) (Thickness) | Description                                                  | Legend | Water |
|-----------|----------------|-----------------|---------------------------|-------------|-----------------------|--------------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 | Water strike(1) at 0.00m. |             | (0.60)                | MADE GROUND (brown sandy clay with gravel and brick)         |        | ▽1    |
| 1.00      | D2             |                 |                           |             | 0.60 (0.60)           | Pale yellowish brown silty sandy fine to medium flint GRAVEL |        |       |
| 1.50      | D3             |                 |                           |             | 1.20                  | Firm brown with pale grey mottled silty CLAY                 |        |       |
| 2.00      | D4             |                 |                           |             | (1.80)                |                                                              |        |       |
| 2.50      | D5             |                 |                           |             |                       |                                                              |        |       |
| 3.00      | D6             |                 |                           |             | 3.00                  | Complete at 3.00m                                            |        |       |

|                                                     |                                   |                  |
|-----------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater encountered at 0.80m. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                     | <b>Figure No.</b><br>J202252.BH19 |                  |

|                                                                                                                                     |                       |                        |                           |                            |                                           |                                                           |                                                                                     |                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------------------|----------------------------|-------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|--|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                           |                            | <b>Site</b><br>Arborfield District Centre |                                                           | <b>Number</b><br><b>BH2</b>                                                         |                              |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                           | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                 |                                                                                     | <b>Job Number</b><br>J202252 |  |
|                                                                                                                                     |                       | <b>Location</b>        |                           | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                    |                                                                                     | <b>Sheet</b><br>1/1          |  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                        | <b>Legend</b>                                                                       | <b>Water</b>                 |  |
| 0.50                                                                                                                                | D1                    |                        | Water strike(1) at 1.00m. |                            | 0.10                                      | MADE GROUND (reworked topsoil)                            |  | V1                           |  |
|                                                                                                                                     |                       |                        |                           | (1.30)                     | MADE GROUND (crushed concrete and sand)   |                                                           |                                                                                     |                              |  |
| 1.00                                                                                                                                | D2                    |                        |                           |                            | 1.40                                      | Soft dark grey silty CLAY with scatteed fine flint gravel |  |                              |  |
| 1.50                                                                                                                                | D3                    |                        |                           |                            | (0.40)                                    |                                                           |  |                              |  |
| 2.00                                                                                                                                | D4                    |                        |                           |                            | 1.80                                      | Firm brown fissured slightly silty CLAY                   |  |                              |  |
| 2.50                                                                                                                                | D5                    |                        |                           |                            | (1.20)                                    |                                                           |  |                              |  |
| 3.00                                                                                                                                | D6                    |                        |                           |                            | 3.00                                      | Complete at 3.00m                                         |  |                              |  |
| <b>Remarks</b><br>Groundwater encountered at 1.00m. Borehole sides unstable in crushed concrete - poor recovery 1.00m to 2.00m.     |                       |                        |                           |                            |                                           | <b>Scale (approx)</b><br>1:50                             |                                                                                     | <b>Logged By</b>             |  |
|                                                                                                                                     |                       |                        |                           |                            |                                           | <b>Figure No.</b><br>J202252.BH2                          |                                                                                     |                              |  |

|                                                                                                                                     |                       |                        |                           |                            |                                                              |                                                                                     |                                                                                     |                              |  |
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|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                           |                            |                                                              | <b>Site</b><br>Arborfield District Centre                                           |                                                                                     | <b>Number</b><br><b>BH20</b> |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                           | <b>Ground Level (mOD)</b>  |                                                              | <b>Client</b><br>Crest Nicholson Chiltern                                           |                                                                                     | <b>Job Number</b><br>J202252 |  |
|                                                                                                                                     |                       | <b>Location</b>        |                           | <b>Dates</b><br>02/12/2022 |                                                              | <b>Engineer</b><br>DPB                                                              |                                                                                     | <b>Sheet</b><br>1/1          |  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>                                 | <b>Description</b>                                                                  | <b>Legend</b>                                                                       | <b>Water</b>                 |  |
| 0.50                                                                                                                                | D1                    |                        | Water strike(1) at 1.00m. |                            | (0.40)<br>0.40                                               | MADE GROUND (brown sandy clay with abundant gravel and brick)                       |  | V1                           |  |
| 1.00                                                                                                                                | D2                    |                        |                           | (0.90)<br>1.30             | Pale yellowish brown silty sandy fine to medium flint GRAVEL |  |                                                                                     |                              |  |
| 1.50                                                                                                                                | D3                    |                        |                           |                            | Firm brown with pale grey mottled silty CLAY                 |  |                                                                                     |                              |  |
| 2.00                                                                                                                                | D4                    |                        |                           | (1.70)                     |                                                              |                                                                                     |                                                                                     |                              |  |
| 2.50                                                                                                                                | D5                    |                        |                           |                            |                                                              |                                                                                     |                                                                                     |                              |  |
| 3.00                                                                                                                                | D6                    |                        |                           | 3.00                       | Complete at 3.00m                                            |                                                                                     |                                                                                     |                              |  |
| <b>Remarks</b><br>Groundwater encounrered at 1.00m.                                                                                 |                       |                        |                           |                            |                                                              | <b>Scale (approx)</b><br>1:50                                                       |                                                                                     | <b>Logged By</b>             |  |
|                                                                                                                                     |                       |                        |                           |                            |                                                              | <b>Figure No.</b><br>J202252.BH20                                                   |                                                                                     |                              |  |

|                                                                                                                                                                                                                                                             |                       |                        |                      |                            |                                           |                                                                                        |                              |                                                                                     |              |
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|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL                                                                                                                         |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                                                        | <b>Number</b><br><b>BH21</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                                                                                                                                                     |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                                              |                              | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                                                                                                                                             |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                                                 |                              | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                                                                                                                                            | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                                                     |                              | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                                                                                                                                        | D1                    |                        |                      |                            | 0.60                                      | MADE GROUND (brick rubble with brown clay)                                             |                              |  |              |
| 1.00-1.45<br>1.00                                                                                                                                                                                                                                           | SPT N=10<br>D2        |                        | 2,3/3,2,2,3          |                            | 0.60<br>(0.20)<br>0.80                    | Soft brown and grey sandy CLAY with scattered fine flint gravel - possible made ground |                              |  |              |
| 1.50                                                                                                                                                                                                                                                        | D3                    |                        |                      |                            |                                           | Firm brown slightly silty CLAY                                                         |                              |  |              |
| 2.00-2.45<br>2.00                                                                                                                                                                                                                                           | SPT N=9<br>D4         |                        | 3,2/2,3,2,2          |                            | (2.20)                                    |                                                                                        |                              |  |              |
| 2.50                                                                                                                                                                                                                                                        | D5                    |                        |                      |                            |                                           |                                                                                        |                              |  |              |
| 3.00-3.45<br>3.00                                                                                                                                                                                                                                           | SPT N=14<br>D6        |                        | 4,4/4,3,3,4          |                            | 3.00                                      | Complete at 3.00m                                                                      |                              |  |              |
| <div> <div> <b>Remarks</b><br/>           Groudwater not encountered.         </div> <div> <b>Scale (approx)</b><br/>           1:50         </div> <div> <b>Logged By</b> </div> <div> <b>Figure No.</b><br/>           J202252.BH21         </div> </div> |                       |                        |                      |                            |                                           |                                                                                        |                              |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|--------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.40)<br>0.40        | MADE GROUND (reworked brown sandy clay)    |        |       |
| 1.00      | D2             |                 |               |             |                       | Firm brown mottled pale grey fissured CLAY |        |       |
| 1.50      | D3             |                 |               |             | (2.60)                |                                            |        |       |
| 2.00      | D4             |                 |               |             |                       |                                            |        |       |
| 2.50      | D5             |                 |               |             |                       |                                            |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                          |        |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH22 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                   | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|---------------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.50)                | MADE GROUND (crushed concrete, brick and soil)                |        |       |
| 1.00      | D2             |                 |               |             | (0.50)                | MADE GROUND (reworked brown sandy clay with gravel and brick) |        |       |
| 1.50      | D3             |                 |               |             |                       | Firm brown with pale grey mottled fissured CLAY               |        |       |
| 2.00      | D4             |                 |               |             | (2.35)                |                                                               |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                               |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                             |        |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH23 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                 | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|-------------------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | 0.10                  | MADE GROUND (reworked topsoil)                              |        |       |
|                   |                |                 |               |             | (0.70)                | MADE GROUND 9reworked brown sandy clay with abundant brick) |        |       |
|                   |                |                 |               |             | 0.80                  | Firm brown silty fissured CLAY                              |        |       |
| 1.00-1.45<br>1.00 | SPT N=6<br>D2  |                 | 1,1/1,1,2,2   |             |                       |                                                             |        |       |
| 1.50              | D3             |                 |               |             |                       |                                                             |        |       |
| 2.00-2.45<br>2.00 | SPT N=9<br>D4  |                 | 2,2/1,2,3,3   |             | (2.20)                |                                                             |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                             |        |       |
| 3.00              | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                           |        |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH24 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records             | Level (mOD) | Depth (m) (Thickness) | Description                                     | Legend | Water |
|-------------------|----------------|-----------------|---------------------------|-------------|-----------------------|-------------------------------------------------|--------|-------|
| 0.50              | D1             |                 | Water strike(1) at 0.00m. |             | (0.70)                | MADE GROUND (reworked clay and sand with brick) |        | ▽1    |
| 1.00-1.45<br>1.00 | SPT N=8<br>D2  |                 | 1,1/2,2,2,2               |             | 0.70                  | Firm brown silty fissured CLAY                  |        |       |
| 1.50              | D3             |                 |                           |             | (2.30)                |                                                 |        |       |
| 2.00-2.45<br>2.00 | SPT N=11<br>D4 |                 | 2,2/3,3,2,3               |             |                       |                                                 |        |       |
| 2.50              | D5             |                 |                           |             |                       |                                                 |        |       |
| 3.00              | D6             |                 |                           |             | 3.00                  | Complete at 3.00m                               |        |       |

|                                                    |                                   |                  |
|----------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groudwater encountered at 0.30m. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                    | <b>Figure No.</b><br>J202252.BH25 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                           | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|-------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.30)<br>0.30        | MADE GROUND (reworked topsoil)                        |        |       |
|           |                |                 |               |             | (0.50)<br>0.80        | MADE GROUND (reworked brown sandy clay with concrete) |        |       |
| 1.00      | D2             |                 |               |             |                       | Firm brown with pale grey mottled CLAY                |        |       |
| 1.50      | D3             |                 |               |             |                       |                                                       |        |       |
| 2.00      | D4             |                 |               |             | (2.20)                |                                                       |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                       |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                     |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH26 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness)                        | Description                                                                                                                                               | Legend                                                                                                                                                                                                                                                                                                                                                   | Water |
|-----------|----------------|-----------------|---------------|-------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 0.50      | D1             |                 |               |             | (0.20)<br>(0.20)<br>(0.20)<br>(0.30)<br>0.70 | MNDE GROUND (reworked topsoil with clay)<br>MADE GROUND (shingle)<br>MADE GROUND (reworked brown sand and clay)<br>Firm brown with pale grey mottled CLAY | <br><br><br> |       |
| 1.00      | D2             |                 |               |             |                                              |                                                                                                                                                           |                                                                                                                                                                                                                                                                       |       |
| 1.50      | D3             |                 |               |             |                                              |                                                                                                                                                           |                                                                                                                                                                                                                                                                       |       |
| 2.00      | D4             |                 |               |             | (2.30)                                       |                                                                                                                                                           |                                                                                                                                                                                                                                                                       |       |
| 2.50      | D5             |                 |               |             |                                              |                                                                                                                                                           |                                                                                                                                                                                                                                                                       |       |
| 3.00      | D6             |                 |               |             | 3.00                                         | Complete at 3.00m                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                          |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH27 |                  |

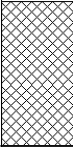


|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness)            | Description                                                                                                                 | Legend   | Water |
|-------------------|----------------|-----------------|---------------|-------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------|-------|
| 0.50              | D1             |                 |               |             | (0.20)<br>0.20<br>(0.20)<br>0.40 | MADE GROUND (reworked topsoil)<br>MADE GROUND (brown sand with dark grey sandy gravel)<br>Firm brown mottled pale grey CLAY | <br><br> |       |
| 1.00-1.45<br>1.00 | SPT N=8<br>D2  |                 | 1,1/2,2,2,2   |             |                                  |                                                                                                                             |          |       |
| 1.50              | D3             |                 |               |             | (2.60)                           |                                                                                                                             |          |       |
| 2.00-2.45<br>2.00 | SPT N=11<br>D4 |                 | 1,2/2,3,3,3   |             |                                  |                                                                                                                             |          |       |
| 2.50              | D5             |                 |               |             |                                  |                                                                                                                             |          |       |
| 3.00              | D6             |                 |               |             | 3.00                             | Complete at 3.00m                                                                                                           |          |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH28 |                  |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                             |                              |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|-------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                             | <b>Number</b><br><b>BH29</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                   |                              | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>05/12/2022 |                                           | <b>Engineer</b><br>DPB                                      |                              | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                          |                              | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | (0.50)                                    | MADE GROUND (reworked brown sandy gravel and crushed brick) |                              |  |              |
|                                                                                                                                     |                       |                        |                      |                            | 0.50                                      | MADE GROUND (reworked clay with brick)                      |                              |  |              |
| 1.00-1.45<br>1.00                                                                                                                   | SPT N=5<br>D2         |                        | 1,0/0,1,2,2          |                            | (0.90)                                    |                                                             |                              |  |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            | 1.40<br>(0.20)<br>1.60                    | MADE GROUND (shingle)                                       |                              |  |              |
| 2.00-2.45<br>2.00                                                                                                                   | SPT N=8<br>D4         |                        | 2,2/2,2,2,2          |                            | (1.40)                                    | Firm brown silty fissured CLAY                              |                              |  |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                                           |                                                             |                              |                                                                                     |              |
| 3.00-3.45<br>3.00                                                                                                                   | SPT N=8<br>D6         |                        | 1,1/2,2,2,2          |                            | 3.00                                      | Complete at 3.00m                                           |                              |                                                                                     |              |
| <b>Remarks</b><br>Groundwater not encountered.                                                                                      |                       |                        |                      |                            |                                           | <b>Scale (approx)</b>                                       |                              | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           | 1:50                                                        |                              |                                                                                     |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                             |                              |                                                                                     |              |
| J202252.BH29                                                                                                                        |                       |                        |                      |                            |                                           |                                                             |                              |                                                                                     |              |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                              |                             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|--------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                              | <b>Number</b><br><b>BH3</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                    |                             | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                       |                             | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                           |                             | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | (0.95)                                    | MADE GROUND (crushed concrete and clay)                      |                             |  |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | 0.95                                      | Firm becoming stiff brown fissured slightly silty sandy CLAY |                             |                                                                                     |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            |                                           |                                                              |                             |                                                                                     |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            | (2.05)                                    |                                                              |                             |                                                                                     |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                                           |                                                              |                             |                                                                                     |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                            |                             |                                                                                     |              |
| <b>Remarks</b><br>Groundwater not encountered.                                                                                      |                       |                        |                      |                            |                                           | <b>Scale (approx)</b><br>1:50                                |                             | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           | <b>Figure No.</b><br>J202252.BH3                             |                             |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                     | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|-----------------------------------------------------------------|--------|-------|
| 0.50      | D0             |                 |               |             | (0.60)                | MADE GROUND (crushed soil and brick)                            |        |       |
| 0.75      | D1             |                 |               |             | 0.60                  |                                                                 |        |       |
| 1.00-1.45 | SPT N=6        |                 | 1,1/1,2,2,1   |             | (0.50)                | MADE GROUND (reworked brown clay, brick and gravel)             |        |       |
| 1.00      | D2             |                 |               |             | 1.10                  |                                                                 |        |       |
| 1.50      | D3             |                 |               |             |                       | Firm pale brown and pale grey mottled silty slightly sandy CLAY |        |       |
| 2.00-2.45 | SPT N=8        |                 | 1,2/2,2,2,2   |             | (1.90)                |                                                                 |        |       |
| 2.00      | D4             |                 |               |             |                       |                                                                 |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                                 |        |       |
| 3.00-3.45 | SPT N=15       |                 | 2,3/3,4,4,4   |             | 3.00                  |                                                                 |        |       |
| 3.00      | D6             |                 |               |             |                       | Complete at 3.00m                                               |        |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH30 |                  |

|                                                                                                                                     |                       |                        |                      |                            |                              |                                           |  |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|------------------------------|-------------------------------------------|--|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            |                              | <b>Site</b><br>Arborfield District Centre |  | <b>Number</b><br><b>BH31</b>                                                        |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                              | <b>Client</b><br>Crest Nicholson Chiltern |  | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>05/12/2022 |                              | <b>Engineer</b><br>DPB                    |  | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b> | <b>Description</b>                        |  | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | 0.50                         | MADE GROUND (brown sandy clay with brick) |  |  |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            |                              | Firm brown slightly silty CLAY            |  |  |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            |                              |                                           |  |  |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            |                              |                                           |  |  |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                              |                                           |  |  |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                         | Complete at 3.00m                         |  |  |              |
| <b>Remarks</b><br>Groundwater not encountered. Standpipe installed with a response zone from 1.00m to 3.00m.                        |                       |                        |                      |                            |                              | <b>Scale (approx)</b>                     |  | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                              | 1:50                                      |  |                                                                                     |              |
|                                                                                                                                     |                       |                        |                      |                            |                              | <b>Figure No.</b><br>J202252.BH31         |  |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                         | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|-----------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.60)<br>0.60        | MADE GROUND (reworked brown sandy clay with gravel) |        |       |
| 1.00      | D2             |                 |               |             |                       | Firm brown silty CLAY                               |        |       |
| 1.50      | D3             |                 |               |             |                       |                                                     |        |       |
| 2.00      | D4             |                 |               |             | (2.40)                |                                                     |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                     |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                   |        |       |

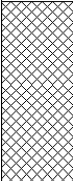
|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH32 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                             | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|-----------------------------------------|--------|-------|
| 0.50      | D0             |                 |               |             | (0.50)                | MADE GROUND (crush)                     |        |       |
| 0.75      | D1             |                 |               |             | 0.50 (0.45)           | MADE GROUND (reworked clay with gravel) |        |       |
| 1.00-1.45 | SPT N=6 D2     |                 | 1,1/2,2,1,1   |             | 0.95                  | Firm brown silty fissured CLAY          |        |       |
| 1.50      | D3             |                 |               |             |                       |                                         |        |       |
| 2.00-2.45 | SPT N=12 D4    |                 | 2,2/3,3,3,3   |             | (2.05)                |                                         |        |       |
| 2.50      | D5             |                 |               |             |                       |                                         |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                       |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH33 |                  |

|                                                                                                                                                               |                |                       |               |                     |                             |                                                               |                                                                                     |                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------|---------------|---------------------|-----------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|--|
| <div><div><b>WILSON BAILEY</b><br/>GEOTECHNICAL &amp; ENVIROMENTAL</div></div> |                |                       |               |                     |                             | Site<br>Arborfield District Centre                            |                                                                                     | Number<br><b>BH34</b> |  |
| Excavation Method<br>Drive-in Windowless Sampler                                                                                                              |                | Dimensions            |               | Ground Level (mOD)  |                             | Client<br>Crest Nicholson Chiltern                            |                                                                                     | Job Number<br>J202252 |  |
|                                                                                                                                                               |                | Location              |               | Dates<br>05/12/2022 |                             | Engineer<br>DPB                                               |                                                                                     | Sheet<br>1/1          |  |
| Depth<br>(m)                                                                                                                                                  | Sample / Tests | Water<br>Depth<br>(m) | Field Records | Level<br>(mOD)      | Depth<br>(m)<br>(Thickness) | Description                                                   | Legend                                                                              | Water                 |  |
| 0.50                                                                                                                                                          | D1             |                       |               |                     | (1.20)                      | MADE GROUND (reworked brown sandy clay with brick and gravel) |  |                       |  |
| 1.00-1.45<br>1.00                                                                                                                                             | SPT N=4<br>D2  |                       | 0,0/0,0,2,2   |                     | 1.20                        | Firm bown silty CLAY                                          |  |                       |  |
| 1.50                                                                                                                                                          | D3             |                       |               |                     |                             |                                                               |                                                                                     |                       |  |
| 2.00-2.45<br>2.00                                                                                                                                             | SPT N=10<br>D4 |                       | 2,2/2,3,2,3   |                     | (1.80)                      |                                                               |                                                                                     |                       |  |
| 2.50                                                                                                                                                          | D5             |                       |               |                     |                             |                                                               |                                                                                     |                       |  |
| 3.00                                                                                                                                                          | D6             |                       |               |                     | 3.00                        | Complete at 3.00m                                             |                                                                                     |                       |  |
| Remarks                                                                                                                                                       |                |                       |               |                     |                             |                                                               | Scale<br>(approx)                                                                   | Logged<br>By          |  |
|                                                                                                                                                               |                |                       |               |                     |                             |                                                               | 1:50                                                                                |                       |  |
|                                                                                                                                                               |                |                       |               |                     |                             |                                                               | Figure No.<br>J202252.BH34                                                          |                       |  |

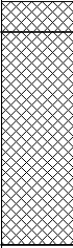
|                                                                                                                                                                        |                       |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                                                                                                            |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL                                    |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                                                                                        | <b>Number</b><br><b>BH35</b> |                                                                                                                                                                            |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                                                                |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                                                                              |                              | <b>Job Number</b><br>J202252                                                                                                                                               |              |
|                                                                                                                                                                        |                       | <b>Location</b>        |                      | <b>Dates</b><br>05/12/2022 |                                           | <b>Engineer</b><br>DPB                                                                                                 |                              | <b>Sheet</b><br>1/1                                                                                                                                                        |              |
| <b>Depth (m)</b>                                                                                                                                                       | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                                                                                     |                              | <b>Legend</b>                                                                                                                                                              | <b>Water</b> |
| 0.50                                                                                                                                                                   | D1                    |                        |                      |                            | (0.20)<br>0.20<br>(0.30)<br>0.50          | MADE GROUND (reworked topsoil)<br>MADE GROUND (reworked brown sandy clay with brick)<br>Firm brown slightly silty CLAY |                              | <br> |              |
| 1.00                                                                                                                                                                   | D2                    |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                         |              |
| 1.50                                                                                                                                                                   | D3                    |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                         |              |
| 2.00                                                                                                                                                                   | D4                    |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                         |              |
| 2.50                                                                                                                                                                   | D5                    |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                         |              |
| 3.00                                                                                                                                                                   | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                                                                                      |                              |                                                                                         |              |
| <div> <div>Remarks</div> <div> <div>Scale (approx)</div> <div>1:50</div> </div> <div> <div>Logged By</div> <div>Figure No.</div> <div>J202252.BH35</div> </div> </div> |                       |                        |                      |                            |                                           |                                                                                                                        |                              |                                                                                                                                                                            |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                       | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|-------------------------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | (0.40)<br>0.40        | MADE GROUND (reworked brown sandy clay with brick, sand and clay) |        |       |
| 1.00-1.45<br>1.00 | SPT N=8<br>D2  |                 | 2,2/2,2,2,2   |             |                       | Firm brown slightly silty CLAY                                    |        |       |
| 1.50              | D3             |                 |               |             | (2.60)                |                                                                   |        |       |
| 2.00-2.45<br>2.00 | SPT N=11<br>D4 |                 | 2,2/3,3,2,3   |             |                       |                                                                   |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                                   |        |       |
| 3.00              | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                                 |        |       |

|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH36 |                  |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                           |                              |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|-------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                           | <b>Number</b><br><b>BH37</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern |                              | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>05/12/2022 |                                           | <b>Engineer</b><br>DPB                    |                              | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                        |                              | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | 0.20                                      | MADE GROUND (reworked crush and tarmac)   |                              |  |              |
|                                                                                                                                     |                       |                        |                      |                            | 0.20                                      | MADE GROUBD (reworked brown sandy clay)   |                              |                                                                                     |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | (1.40)                                    |                                           |                              |                                                                                     |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            | 1.60                                      | Firm brown slightly silty CLAY            |                              | —                                                                                   |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            |                                           |                                           |                              | —                                                                                   |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            | (1.40)                                    |                                           |                              | —                                                                                   |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                         |                              | —                                                                                   |              |
| <b>Remarks</b>                                                                                                                      |                       |                        |                      |                            |                                           | <b>Scale (approx)</b><br>1:50             |                              | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           |                                           |                              |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                      | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|--------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | (0.40)                | MADE GROUND (reworked clay)                      |        |       |
|                   |                |                 |               |             | 0.40 (0.20)           | MADE GROUND (black ashy sand)                    |        |       |
|                   |                |                 |               |             | 0.60 (0.40)           | MADE GROUND (concrete)                           |        |       |
|                   |                |                 |               |             | 0.80                  | MADE GROUND (reworked clay with brick)           |        |       |
| 1.00-1.45<br>1.00 | SPT N=7<br>D2  |                 | 1,1/1,2,2,2   |             |                       | Firm pale brown and pale grey mottled silty CLAY |        |       |
| 1.50              | D3             |                 |               |             |                       |                                                  |        |       |
| 2.00-2.45<br>2.00 | SPT N=10<br>D4 |                 | 2,2/2,3,2,3   |             | (2.20)                |                                                  |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                  |        |       |
| 3.00              | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                |        |       |

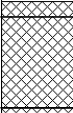
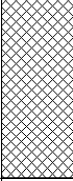
|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH38 |                  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                  | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|----------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | (1.40)                | MADE GROUND (reworked brown clay with brick) |        |       |
| 1.00-1.45<br>1.00 | SPT N=7<br>D2  |                 | 1,1/2,2,1,2   |             | 1.40                  | Firm brown silty CLAY                        |        |       |
| 1.50              | D3             |                 |               |             |                       |                                              |        |       |
| 2.00-2.45<br>2.00 | SPT N=10<br>D4 |                 | 2,2/3,3,2,2   |             | (1.60)                |                                              |        |       |
| 2.50              | D5             |                 |               |             |                       |                                              |        |       |
| 3.00-3.45<br>3.00 | SPT N=10<br>D6 |                 | 3,3/2,2,3,3   |             | 3.00                  | Complete at 3.00m                            |        |       |

|                                                                                                             |                                   |                  |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. Standpipe installed with a reponse zone from 1.00m to 3.00m. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                                                                             | <b>Figure No.</b><br>J202252.BH39 |                  |
|                                                                                                             |                                   |                  |

|                                                                                                                                                                                                                         |                       |                        |                      |                            |                                           |                                                            |                                                                                     |                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|--|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL                                                                                     |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                            | <b>Number</b><br><b>BH4</b>                                                         |                              |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                                                                                                                 |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                  |                                                                                     | <b>Job Number</b><br>J202252 |  |
|                                                                                                                                                                                                                         |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                     |                                                                                     | <b>Sheet</b><br>1/1          |  |
| <b>Depth (m)</b>                                                                                                                                                                                                        | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                         | <b>Legend</b>                                                                       | <b>Water</b>                 |  |
| 0.50                                                                                                                                                                                                                    | D1                    |                        |                      |                            | 0.10                                      | MADE GROUND (reworked topsoil)                             |  |                              |  |
|                                                                                                                                                                                                                         |                       |                        |                      |                            | (0.60)                                    | MADE GROUND (crushed concrete and clay)                    |                                                                                     |                              |  |
|                                                                                                                                                                                                                         |                       |                        |                      |                            | 0.70                                      | MADE GROUND (crushed concrete with sand and gravel)        |                                                                                     |                              |  |
| 1.00                                                                                                                                                                                                                    | D2                    |                        |                      |                            | (1.20)                                    |                                                            |  |                              |  |
| 1.50                                                                                                                                                                                                                    | D3                    |                        |                      |                            |                                           |                                                            |                                                                                     |                              |  |
| 2.00                                                                                                                                                                                                                    | D4                    |                        |                      |                            | 1.90                                      | Soft dark grey silty sandy CLAY with scatterd flint gravel |                                                                                     |                              |  |
|                                                                                                                                                                                                                         |                       |                        |                      |                            | (0.40)                                    |                                                            |                                                                                     |                              |  |
| 2.50                                                                                                                                                                                                                    | D5                    |                        |                      |                            | 2.30                                      | Firm brown fissured CLAY                                   |                                                                                     |                              |  |
|                                                                                                                                                                                                                         |                       |                        |                      |                            | (0.70)                                    |                                                            |                                                                                     |                              |  |
| 3.00                                                                                                                                                                                                                    | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                          |                                                                                     |                              |  |
| <div> <div> <b>Remarks</b><br/>           Groundwater not encountered. Poor recovery 1.00m to 2.00m.         </div> <div> <b>Scale (approx)</b><br/>           1:50         </div> <div> <b>Logged By</b> </div> </div> |                       |                        |                      |                            |                                           |                                                            |                                                                                     |                              |  |
| <b>Figure No.</b><br>J202252.BH4                                                                                                                                                                                        |                       |                        |                      |                            |                                           |                                                            |                                                                                     |                              |  |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                             | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|---------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (1.20)                | MADE GROUND (reworked brown clay with brick and gravel) |        |       |
| 1.00      | D2             |                 |               |             | 1.20                  | Firm brown silty CLAY                                   |        |       |
| 1.50      | D3             |                 |               |             |                       |                                                         |        |       |
| 2.00      | D4             |                 |               |             | (1.80)                |                                                         |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                         |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                       |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH40 |                  |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                    |                              |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|----------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                    | <b>Number</b><br><b>BH41</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern          |                              | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>05/12/2022 |                                           | <b>Engineer</b><br>DPB                             |                              | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                 |                              | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | (0.60)                                    | MADE GROUND (crushed brick, tarmac and concrete)   |                              |  |              |
|                                                                                                                                     |                       |                        |                      |                            | 0.60                                      | MADE GROUND (reworked brown sandy clay with brick) |                              |                                                                                     |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | (0.80)                                    |                                                    |                              |  |              |
|                                                                                                                                     |                       |                        |                      |                            | 1.40                                      | Firm brown silty CLAY                              |                              |                                                                                     |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            |                                           |                                                    |                              |  |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            | (1.60)                                    |                                                    |                              |                                                                                     |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                                           |                                                    |                              |                                                                                     |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                  |                              |                                                                                     |              |
| <b>Remarks</b>                                                                                                                      |                       |                        |                      |                            |                                           | <b>Scale (approx)</b><br>1:50                      |                              | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           | <b>Figure No.</b><br>J202252.BH41                  |                              |                                                                                     |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                    |                              |                                                                                     |              |



|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

| Depth (m) | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                               | Legend | Water |
|-----------|----------------|-----------------|---------------|-------------|-----------------------|---------------------------------------------------------------------------|--------|-------|
| 0.50      | D1             |                 |               |             | (0.60)                | MADE GROUND (reworked brick, concrete crush, tarmac and brown sandy clay) |        |       |
| 1.00-1.45 | SPT N=7        |                 | 0,1/1,2,2,2   |             | 0.60                  | Firm brown slightly silty CLAY                                            |        |       |
| 1.00      | D2             |                 |               |             |                       |                                                                           |        |       |
| 1.50      | D3             |                 |               |             | (2.40)                |                                                                           |        |       |
| 2.00-2.45 | SPT N=9        |                 | 1,2/2,2,2,3   |             |                       |                                                                           |        |       |
| 2.00      | D4             |                 |               |             |                       |                                                                           |        |       |
| 2.50      | D5             |                 |               |             |                       |                                                                           |        |       |
| 3.00      | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                                         |        |       |

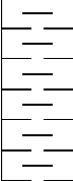
|                |                                   |                  |
|----------------|-----------------------------------|------------------|
| <b>Remarks</b> | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                | <b>Figure No.</b><br>J202252.BH42 |                  |

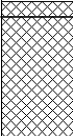


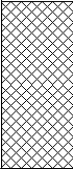
|                                                         |                   |                            |                                           |                              |
|---------------------------------------------------------|-------------------|----------------------------|-------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson Chiltern | <b>Job Number</b><br>J202252 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>05/12/2022 | <b>Engineer</b><br>DPB                    | <b>Sheet</b><br>1/1          |

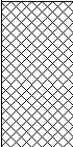
| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                                           | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|---------------------------------------------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | (0.70)                | MADE GROUND (crushed concrete, brick and brown sand)                                  |        |       |
| 1.00-1.45<br>1.00 | SPT N=6<br>D2  |                 | 2,2/1,1,2,2   |             | 0.70                  | Firm pale yellowish brown and orange-brown with pale grey mottled slightly silty CLAY |        |       |
| 1.50              | D3             |                 |               |             | (2.30)                |                                                                                       |        |       |
| 2.00-2.45<br>2.00 | SPT N=10<br>D4 |                 | 2,3/3,2,2,3   |             |                       |                                                                                       |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                                                       |        |       |
| 3.00              | D6             |                 |               |             | 3.00                  | Complete at 3.00m                                                                     |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH43 |                  |

|                                                                                                                                     |                       |                        |                                           |                            |                              |                                           |                                                                                     |                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|-------------------------------------------|----------------------------|------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|--|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                                           |                            |                              | <b>Site</b><br>Arborfield District Centre |                                                                                     | <b>Number</b><br><b>BH5</b>      |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                                           | <b>Ground Level (mOD)</b>  |                              | <b>Client</b><br>Crest Nicholson Chiltern |                                                                                     | <b>Job Number</b><br>J202252     |  |
|                                                                                                                                     |                       | <b>Location</b>        |                                           | <b>Dates</b><br>02/12/2022 |                              | <b>Engineer</b><br>DPB                    |                                                                                     | <b>Sheet</b><br>1/1              |  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>                      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b> | <b>Description</b>                        | <b>Legend</b>                                                                       | <b>Water</b>                     |  |
| 0.50                                                                                                                                | D1                    |                        |                                           |                            | (0.60)                       | MADE GROUND (reworked brown clay)         |  | V1                               |  |
| 1.00                                                                                                                                | D2                    |                        | Water strike(1) at 1.00m.<br>3,8/10,6,6,4 |                            | 0.60<br>(0.35)               | MADE GROUND (crushed concrete)]           |                                                                                     |                                  |  |
| 1.00-1.45                                                                                                                           | SPT N=26              |                        |                                           |                            | 0.95<br>(0.80)               | MADE GROUND (gravel and clay)             |                                                                                     |                                  |  |
| 1.50                                                                                                                                | D3                    |                        |                                           |                            | 1.75                         | Firm brown fissured slightly silty CLAY   |  |                                  |  |
| 2.00-2.45                                                                                                                           | SPT N=11<br>D4        |                        | 2,2/2,3,3,3                               |                            | (1.25)                       |                                           |                                                                                     |                                  |  |
| 2.00                                                                                                                                |                       |                        |                                           |                            |                              |                                           |                                                                                     |                                  |  |
| 2.50                                                                                                                                | D5                    |                        |                                           |                            | 3.00                         | Complete at 3.00m                         |                                                                                     |                                  |  |
| 3.00-3.45                                                                                                                           | SPT N=12<br>D6        |                        | 2,2/3,3,3,3                               |                            |                              |                                           |                                                                                     |                                  |  |
| 3.00                                                                                                                                |                       |                        |                                           |                            |                              |                                           |                                                                                     |                                  |  |
| <b>Remarks</b><br>Groundwater encountered at 1.00m.                                                                                 |                       |                        |                                           |                            |                              |                                           |                                                                                     | <b>Scale (approx)</b><br>1:50    |  |
|                                                                                                                                     |                       |                        |                                           |                            |                              |                                           |                                                                                     | <b>Logged By</b>                 |  |
|                                                                                                                                     |                       |                        |                                           |                            |                              |                                           |                                                                                     | <b>Figure No.</b><br>J202252.BH5 |  |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                                                            |                                                                                     |                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|--|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                                                            | <b>Number</b><br><b>BH6</b>                                                         |                              |  |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                                                  |                                                                                     | <b>Job Number</b><br>J202252 |  |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                                                     |                                                                                     | <b>Sheet</b><br>1/1          |  |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                                                         | <b>Legend</b>                                                                       | <b>Water</b>                 |  |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | 0.10<br>(0.80)                            | MADE GROUND (topsoil)<br>MADE GROUND (reworked crush and tarmac with brown sand and chalk) |  |                              |  |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | 0.90<br>(0.40)                            | Soft dark grey silty sandy CLAY                                                            |  |                              |  |
| 1.50                                                                                                                                | D3                    |                        |                      |                            | 1.30                                      | Firm becoming stiff brown silty CLAY                                                       |  |                              |  |
| 2.00                                                                                                                                | D4                    |                        |                      |                            | (1.70)                                    |                                                                                            |  |                              |  |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                                           |                                                                                            |  |                              |  |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                                                          |  |                              |  |
| <b>Remarks</b><br>Groundwater not encountered.                                                                                      |                       |                        |                      |                            |                                           | <b>Scale (approx)</b><br>1:50                                                              |                                                                                     | <b>Logged By</b>             |  |
|                                                                                                                                     |                       |                        |                      |                            |                                           | <b>Figure No.</b><br>J202252.BH6                                                           |                                                                                     |                              |  |

|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                      |                             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|----------------------|----------------------------|-------------------------------------------|------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                      |                            | <b>Site</b><br>Arborfield District Centre |                                                      | <b>Number</b><br><b>BH7</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                      | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern            |                             | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                      | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                               |                             | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b> | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                   |                             | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        |                      |                            | (1.10)                                    | MADE GROUND (crushed concrete, brick, clay and sand) |                             |  |              |
| 1.00                                                                                                                                | D2                    |                        |                      |                            | 1.10<br>1.15                              | Soft dark grey sandy CLAY                            |                             |  |              |
| 1.50                                                                                                                                | D3                    |                        |                      |                            |                                           | Firm brown slightly silty fissured CLAY              |                             |  |              |
| 2.00                                                                                                                                | D4                    |                        |                      |                            | (1.85)                                    |                                                      |                             |  |              |
| 2.50                                                                                                                                | D5                    |                        |                      |                            |                                           |                                                      |                             |  |              |
| 3.00                                                                                                                                | D6                    |                        |                      |                            | 3.00                                      | Complete at 3.00m                                    |                             |  |              |
| <b>Remarks</b><br>Groundwater not enciountered.                                                                                     |                       |                        |                      |                            |                                           | <b>Scale (approx)</b><br><br>1:50                    |                             | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           | <b>Figure No.</b><br>J202252.BH7                     |                             |                                                                                     |              |
|                                                                                                                                     |                       |                        |                      |                            |                                           |                                                      |                             |                                                                                     |              |

|                                                                                                                                     |                       |                        |                           |                            |                                           |                                                           |                             |                                                                                     |              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------------|---------------------------|----------------------------|-------------------------------------------|-----------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------|--------------|
|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                       |                        |                           |                            | <b>Site</b><br>Arborfield District Centre |                                                           | <b>Number</b><br><b>BH8</b> |                                                                                     |              |
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                       | <b>Dimensions</b>      |                           | <b>Ground Level (mOD)</b>  |                                           | <b>Client</b><br>Crest Nicholson Chiltern                 |                             | <b>Job Number</b><br>J202252                                                        |              |
|                                                                                                                                     |                       | <b>Location</b>        |                           | <b>Dates</b><br>02/12/2022 |                                           | <b>Engineer</b><br>DPB                                    |                             | <b>Sheet</b><br>1/1                                                                 |              |
| <b>Depth (m)</b>                                                                                                                    | <b>Sample / Tests</b> | <b>Water Depth (m)</b> | <b>Field Records</b>      | <b>Level (mOD)</b>         | <b>Depth (m) (Thickness)</b>              | <b>Description</b>                                        |                             | <b>Legend</b>                                                                       | <b>Water</b> |
| 0.50                                                                                                                                | D1                    |                        | Water strike(1) at 1.20m. |                            | (1.00)                                    | MADE GROUND (crushed concrete, brick and clay)            |                             |  | V1           |
| 1.00                                                                                                                                | D2                    |                        |                           |                            | 1.00<br>(0.20)<br>1.20                    | Brown silty sandy very clayey fine to medium flint GRAVEL |                             |  |              |
| 1.50                                                                                                                                | D3                    |                        |                           |                            |                                           | Firm brown slightly silty fissured CLAY                   |                             |  |              |
| 2.00                                                                                                                                | D4                    |                        |                           |                            | (1.80)                                    |                                                           |                             |  |              |
| 2.50                                                                                                                                | D5                    |                        |                           |                            |                                           |                                                           |                             |  |              |
| 3.00                                                                                                                                | D6                    |                        |                           |                            | 3.00                                      | Complete at 3.00m                                         |                             |  |              |
| <b>Remarks</b><br>Groundwater seepage at 1.20m. Standpipe installed with a response zone from 1.00m to 3.00m.                       |                       |                        |                           |                            |                                           | <b>Scale (approx)</b><br>1:50                             |                             | <b>Logged By</b>                                                                    |              |
|                                                                                                                                     |                       |                        |                           |                            |                                           | <b>Figure No.</b><br>J202252.BH8                          |                             |                                                                                     |              |



|                                                         |  |                   |  |                            |  |                                           |  |                              |  |
|---------------------------------------------------------|--|-------------------|--|----------------------------|--|-------------------------------------------|--|------------------------------|--|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler |  | <b>Dimensions</b> |  | <b>Ground Level (mOD)</b>  |  | <b>Client</b><br>Crest Nicholson Chiltern |  | <b>Job Number</b><br>J202252 |  |
|                                                         |  | <b>Location</b>   |  | <b>Dates</b><br>02/12/2022 |  | <b>Engineer</b><br>DPB                    |  | <b>Sheet</b><br>1/1          |  |

| Depth (m)         | Sample / Tests | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                              | Legend | Water |
|-------------------|----------------|-----------------|---------------|-------------|-----------------------|----------------------------------------------------------|--------|-------|
| 0.50              | D1             |                 |               |             | (0.20)<br>0.20        | MADE GROUND (crushed concrete)                           |        |       |
|                   |                |                 |               |             |                       | Firm grey and brown silty sandy CLAY                     |        |       |
| 1.00-1.45<br>1.00 | SPT N=8<br>D2  |                 | 1,1/2,2,2,2   |             | (0.90)                |                                                          |        |       |
| 1.50              | D3             |                 |               |             | 1.10                  | Firm brown with pale grey mottled slightly fissured CLAY |        |       |
| 2.00-2.45<br>2.00 | SPT N=8<br>D4  |                 | 1,2/2,2,2,2   |             | (1.90)                |                                                          |        |       |
| 2.50              | D5             |                 |               |             |                       |                                                          |        |       |
| 3.00-3.45<br>3.00 | SPT N=11<br>D6 |                 | 2,2/2,3,3,3   |             | 3.00                  | Complete at 3.00m                                        |        |       |

|                                                |                                   |                  |
|------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. | <b>Scale (approx)</b><br><br>1:50 | <b>Logged By</b> |
|                                                | <b>Figure No.</b><br>J202252.BH9  |                  |

| <div> <b>WILSON BAILEY</b><br/>GEOTECHNICAL &amp; ENVIROMENTAL</div> |                |                        |                 |                           |                            |                       | <b>Site</b><br>Arborfield District Centre (Supermarket) |                                                                                       | <b>Borehole Number</b><br><b>CP01</b> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|-----------------|---------------------------|----------------------------|-----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|--|
| <b>Boring Method</b><br>Cable Percussion                                                                                                            |                | <b>Casing Diameter</b> |                 |                           | <b>Ground Level (mOD)</b>  |                       | <b>Client</b><br>Crest Nicholson                        |                                                                                       | <b>Job Number</b><br>J202302          |  |
|                                                                                                                                                     |                | <b>Location</b>        |                 |                           | <b>Dates</b><br>20/02/2023 |                       | <b>Engineer</b><br>DPB                                  |                                                                                       | <b>Sheet</b><br>1/2                   |  |
| Depth (m)                                                                                                                                           | Sample / Tests | Casing Depth (m)       | Water Depth (m) | Field Records             | Level (mOD)                | Depth (m) (Thickness) | Description                                             | Legend                                                                                | Water                                 |  |
| 0.50                                                                                                                                                | B1             |                        |                 |                           |                            | (0.30)                | MADE GROUND (brick, rubble and soil fill)               |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.30                  | MADE GROUND (plastic membrane)                          |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.40                  | MADE GROUND (orange-brown grey clayey fill)             |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.60                  | Grey silty sandy CLAY                                   |    |                                       |  |
| 1.00                                                                                                                                                | B2             |                        |                 |                           |                            | (0.60)                |                                                         |                                                                                       |                                       |  |
| 1.20-1.65                                                                                                                                           | SPT N=7        |                        |                 | 1,1/1,1,2,3               |                            | 1.20                  | Orange-brown grey silty sandy CLAY                      |    |                                       |  |
| 1.20                                                                                                                                                | D3             |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 2.00                                                                                                                                                | U4             |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 2.45                                                                                                                                                | D5             |                        |                 |                           |                            | (2.70)                |                                                         |                                                                                       |                                       |  |
| 3.00-3.45                                                                                                                                           | SPT N=15       |                        |                 | 2,2/3,3,4,5               |                            |                       |                                                         |                                                                                       |                                       |  |
| 3.00                                                                                                                                                | D6             |                        |                 | Water strike(1) at 3.40m. |                            |                       |                                                         |                                                                                       | ▽1                                    |  |
| 4.00                                                                                                                                                | U7             |                        |                 |                           |                            | 3.90                  | Grey silty CLAY                                         |  |                                       |  |
| 4.45                                                                                                                                                | D8             |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 5.00-5.45                                                                                                                                           | SPT N=23       |                        |                 | 2,3/5,5,6,7               |                            |                       |                                                         |                                                                                       |                                       |  |
| 5.00                                                                                                                                                | D9             |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 6.00                                                                                                                                                | D10            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 6.50                                                                                                                                                | U11            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 6.95                                                                                                                                                | D12            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 7.50                                                                                                                                                | D13            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 8.00-8.45                                                                                                                                           | SPT N=26       |                        |                 | 3,4/6,6,6,8               |                            |                       |                                                         |                                                                                       |                                       |  |
| 8.00                                                                                                                                                | D14            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 9.00                                                                                                                                                | D15            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| 9.50                                                                                                                                                | U16            |                        |                 |                           |                            |                       |                                                         |                                                                                       |                                       |  |
| <b>Remarks</b><br>1 hour dnad digging inspection pit to 1.20m. Slight water seepage at 3.40m - no rise.                                             |                |                        |                 |                           |                            |                       |                                                         | <b>Scale (approx)</b><br><br>1:50                                                     | <b>Logged By</b>                      |  |
|                                                                                                                                                     |                |                        |                 |                           |                            |                       |                                                         | <b>Figure No.</b><br>J202302.CP01                                                     |                                       |  |



|                                          |                        |  |                            |                                  |                              |
|------------------------------------------|------------------------|--|----------------------------|----------------------------------|------------------------------|
| <b>Boring Method</b><br>Cable Percussion | <b>Casing Diameter</b> |  | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson | <b>Job Number</b><br>J202302 |
|                                          | <b>Location</b>        |  | <b>Dates</b><br>20/02/2023 | <b>Engineer</b><br>DPB           | <b>Sheet</b><br>2/2          |

| Depth (m)            | Sample / Tests  | Casing Depth (m) | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
|----------------------|-----------------|------------------|-----------------|---------------|-------------|-----------------------|-------------|--------|-------|
| 9.95                 | D17             |                  |                 |               |             |                       |             |        |       |
| 10.50                | D18             |                  |                 |               |             |                       |             |        |       |
| 11.00-11.45<br>11.00 | SPT N=28<br>D19 |                  |                 | 3,4/5,7,7,9   |             |                       |             |        |       |
| 12.00                | D20             |                  |                 |               |             | (16.10)               |             |        |       |
| 12.50                | U21             |                  |                 |               |             |                       |             |        |       |
| 12.95                | D22             |                  |                 |               |             |                       |             |        |       |
| 13.50                | D23             |                  |                 |               |             |                       |             |        |       |
| 14.00-14.45<br>14.00 | SPT N=35<br>D24 |                  |                 | 3,6/8,8,9,10  |             |                       |             |        |       |
| 15.00                | D25             |                  |                 |               |             |                       |             |        |       |
| 15.50                | U26             |                  |                 |               |             |                       |             |        |       |
| 15.95                | D27             |                  |                 |               |             |                       |             |        |       |
| 16.50                | D28             |                  |                 |               |             |                       |             |        |       |
| 17.00-17.45<br>17.00 | SPT N=40<br>D29 |                  |                 | 4,6/7,9,9,15  |             |                       |             |        |       |
| 18.00                | D30             |                  |                 |               |             |                       |             |        |       |
| 18.50                | U31             |                  |                 |               |             |                       |             |        |       |
| 18.90                | D32             |                  |                 |               |             |                       |             |        |       |
| 19.50-19.95<br>19.50 | SPT N=39<br>D33 |                  |                 | 4,5/8,8,9,14  |             |                       |             |        |       |
|                      |                 |                  |                 |               |             | 20.00                 |             |        |       |

|                                                                                                         |                                   |                  |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>1 hour dnad digging inspection pit to 1.20m. Slight water seepage at 3.40m - no rise. | <b>Scale (approx)</b>             | <b>Logged By</b> |
|                                                                                                         | 1:50                              |                  |
|                                                                                                         | <b>Figure No.</b><br>J202302.CP01 |                  |

| <div> <b>WILSON BAILEY</b><br/>GEOTECHNICAL &amp; ENVIROMENTAL</div> |                |                        |                 |                           |                            |                       | <b>Site</b><br>Arborfield District Centre (Supermarket) |                                                                                       | <b>Borehole Number</b><br><b>CP02</b> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|-----------------|---------------------------|----------------------------|-----------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------|--|
| <b>Boring Method</b><br>Cable Percussion                                                                                                            |                | <b>Casing Diameter</b> |                 |                           | <b>Ground Level (mOD)</b>  |                       | <b>Client</b><br>Crest Nicholson                        |                                                                                       | <b>Job Number</b><br>J202302          |  |
|                                                                                                                                                     |                |                        |                 |                           |                            |                       | <b>Engineer</b><br>DPB                                  |                                                                                       | <b>Sheet</b><br>1/2                   |  |
|                                                                                                                                                     |                | <b>Location</b>        |                 |                           | <b>Dates</b><br>21/02/2023 |                       |                                                         |                                                                                       |                                       |  |
| Depth (m)                                                                                                                                           | Sample / Tests | Casing Depth (m)       | Water Depth (m) | Field Records             | Level (mOD)                | Depth (m) (Thickness) | Description                                             | Legend                                                                                | Water                                 |  |
| 0.50                                                                                                                                                | B1             |                        |                 |                           |                            | (0.30)                | MADE GROUND (gravel, brick rubblle and soil fill)       |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.30                  | MADE GROUND (plastic membrane)                          |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.40                  | MADE GROUND (orange-brown grey clay fill)               |    |                                       |  |
|                                                                                                                                                     |                |                        |                 |                           |                            | 0.60                  | Grey silty sandy CLAY                                   |    |                                       |  |
| 1.00                                                                                                                                                | B2             |                        |                 |                           |                            | 1.10                  | Orange-browbn grey silty sandy CLAY                     |    |                                       |  |
| 1.20                                                                                                                                                | U3             |                        |                 |                           |                            |                       |                                                         |    |                                       |  |
| 1.65                                                                                                                                                | D4             |                        |                 |                           |                            |                       |                                                         |    |                                       |  |
| 2.00-2.45                                                                                                                                           | SPT N=9        |                        |                 | 1,1/2,2,2,3               |                            |                       |                                                         |    |                                       |  |
| 2.00                                                                                                                                                | D5             |                        |                 |                           |                            | (2.20)                |                                                         |    |                                       |  |
| 3.00                                                                                                                                                | U6             |                        |                 |                           |                            |                       |                                                         |    |                                       |  |
| 3.45                                                                                                                                                | D7             |                        |                 | Water strike(1) at 3.30m. |                            | 3.30                  | Grey silty CLAY                                         |    | ▽1                                    |  |
| 4.00-4.45                                                                                                                                           | SPT N=20       |                        |                 | 2,3/4,4,6,6               |                            |                       |                                                         |   |                                       |  |
| 4.00                                                                                                                                                | D8             |                        |                 |                           |                            | (2.15)                |                                                         |  |                                       |  |
| 5.00                                                                                                                                                | U9             |                        |                 |                           |                            |                       |                                                         |  |                                       |  |
| 5.45                                                                                                                                                | D10            |                        |                 |                           |                            | 5.45                  | CLAYSTONE band                                          |  |                                       |  |
| 6.00                                                                                                                                                | D11            |                        |                 |                           |                            |                       |                                                         |  |                                       |  |
| 6.50-6.95                                                                                                                                           | SPT N=24       |                        |                 | 2,3/5,6,6,7               |                            |                       |                                                         |  |                                       |  |
| 6.50                                                                                                                                                | D12            |                        |                 |                           |                            | (2.95)                |                                                         |  |                                       |  |
| 7.50                                                                                                                                                | D13            |                        |                 |                           |                            |                       |                                                         |  |                                       |  |
| 8.00                                                                                                                                                | U14            |                        |                 |                           |                            |                       |                                                         |  |                                       |  |
| 8.40                                                                                                                                                | D15            |                        |                 | Water strike(2) at 8.40m. |                            | 8.40                  | CLAYSTONE                                               |  | ▽2                                    |  |
| 8.80                                                                                                                                                | B16            |                        |                 |                           |                            | (0.40)                |                                                         |  |                                       |  |
| 9.00                                                                                                                                                | D17            |                        |                 |                           |                            | 8.80                  | Grey silty CLAY                                         |  |                                       |  |
| 9.50-9.95                                                                                                                                           | SPT N=31       |                        |                 | 3,4/6,7,8,10              |                            |                       |                                                         |  |                                       |  |
| 9.50                                                                                                                                                | D18            |                        |                 |                           |                            |                       |                                                         |  |                                       |  |
| <b>Remarks</b><br>1 hour hand digging inspection pit to 1.20m. Water seepage at 3.30m and 8.40m - no rise.                                          |                |                        |                 |                           |                            |                       |                                                         | <b>Scale (approx)</b><br><br>1:50                                                     | <b>Logged By</b>                      |  |
|                                                                                                                                                     |                |                        |                 |                           |                            |                       |                                                         | <b>Figure No.</b><br>J202302.CP02                                                     |                                       |  |



|                                          |                        |  |  |                            |                                  |                              |
|------------------------------------------|------------------------|--|--|----------------------------|----------------------------------|------------------------------|
| <b>Boring Method</b><br>Cable Percussion | <b>Casing Diameter</b> |  |  | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson | <b>Job Number</b><br>J202302 |
|                                          | <b>Location</b>        |  |  | <b>Dates</b><br>21/02/2023 | <b>Engineer</b><br>DPB           | <b>Sheet</b><br>2/2          |

| Depth (m)            | Sample / Tests  | Casing Depth (m) | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description | Legend | Water |
|----------------------|-----------------|------------------|-----------------|---------------|-------------|-----------------------|-------------|--------|-------|
| 10.00                | D19             |                  |                 |               |             |                       |             |        |       |
| 11.00                | U20             |                  |                 |               |             |                       |             |        |       |
| 11.45                | D21             |                  |                 |               |             |                       |             |        |       |
| 12.00                | D22             |                  |                 |               |             |                       |             |        |       |
| 12.50-12.95<br>12.50 | SPT N=34<br>D23 |                  |                 | 3,5/7,8,9,10  |             |                       |             |        |       |
| 13.50                | D24             |                  |                 |               |             |                       |             |        |       |
| 14.00                | U25             |                  |                 |               |             |                       |             |        |       |
| 14.45                | D26             |                  |                 |               |             | (11.20)               |             |        |       |
| 15.00                | D27             |                  |                 |               |             |                       |             |        |       |
| 15.50-15.95<br>15.50 | SPT N=37<br>D28 |                  |                 | 3,4/7,9,9,12  |             |                       |             |        |       |
| 16.50                | D29             |                  |                 |               |             |                       |             |        |       |
| 17.00                | U30             |                  |                 |               |             |                       |             |        |       |
| 17.45                | D31             |                  |                 |               |             |                       |             |        |       |
| 18.00                | D32             |                  |                 |               |             |                       |             |        |       |
| 18.50-18.95<br>18.50 | SPT N=37<br>D33 |                  |                 | 4,6/7,9,10,11 |             |                       |             |        |       |
| 19.50                | U34             |                  |                 |               |             |                       |             |        |       |
| 19.95                | D35             |                  |                 |               |             | 20.00                 |             |        |       |

|                                                                                                            |                                   |                  |
|------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>1 hour hand digging inspection pit to 1.20m. Water seepage at 3.30m and 8.40m - no rise. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                                                                            | <b>Figure No.</b><br>J202302.CP02 |                  |
|                                                                                                            |                                   |                  |



|                                          |                        |  |                            |                                  |                              |
|------------------------------------------|------------------------|--|----------------------------|----------------------------------|------------------------------|
| <b>Boring Method</b><br>Cable Percussion | <b>Casing Diameter</b> |  | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson | <b>Job Number</b><br>J202302 |
|                                          | <b>Location</b>        |  | <b>Dates</b><br>22/02/2023 | <b>Engineer</b><br>DPB           | <b>Sheet</b><br>1/2          |

| Depth (m) | Sample / Tests  | Casing Depth (m) | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                 | Legend | Water |
|-----------|-----------------|------------------|-----------------|---------------|-------------|-----------------------|---------------------------------------------|--------|-------|
| 0.50      | B1              |                  |                 |               |             | 0.10                  | MADE GROUND (grass and soil)                |        |       |
|           |                 |                  |                 |               |             | (1.10)                | MADE GROUND (brick, gravel and clayey fill) |        |       |
| 1.00      | B2              |                  |                 |               |             | 1.20                  | Orange-brown grey silty sandy CLAY          |        |       |
| 1.20-1.65 | SPT N=5<br>D3   |                  |                 | 1,1/1,1,1,2   |             |                       |                                             |        |       |
| 1.20      |                 |                  |                 |               |             |                       |                                             |        |       |
| 2.00      | U4              |                  |                 |               |             |                       |                                             |        |       |
| 2.45      | D5              |                  |                 |               |             | (2.60)                |                                             |        |       |
| 3.00-3.45 | SPT N=9<br>D6   |                  |                 | 1,1/2,2,2,3   |             |                       |                                             |        |       |
| 3.00      |                 |                  |                 |               |             |                       |                                             |        |       |
| 4.00      | U7              |                  |                 |               |             | 3.80                  | Grey silty CLAY                             |        |       |
| 4.45      | D8              |                  |                 |               |             |                       |                                             |        |       |
| 5.00-5.45 | SPT N=19<br>D9  |                  |                 | 2,3/4,5,5,5   |             |                       |                                             |        |       |
| 5.00      |                 |                  |                 |               |             |                       |                                             |        |       |
| 6.00      | D10             |                  |                 |               |             |                       |                                             |        |       |
| 6.50      | U11             |                  |                 |               |             |                       |                                             |        |       |
| 6.95      | D12             |                  |                 |               |             |                       |                                             |        |       |
| 7.50      | D13             |                  |                 |               |             |                       |                                             |        |       |
| 8.00-8.45 | SPT N=27<br>D14 |                  |                 | 3,4/5,7,7,8   |             | (8.70)                |                                             |        |       |
| 8.00      |                 |                  |                 |               |             |                       |                                             |        |       |
| 9.00      | D15             |                  |                 |               |             |                       |                                             |        |       |
| 9.50      | U16             |                  |                 |               |             |                       |                                             |        |       |

|                                                                |                                   |                  |
|----------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>1 hour hand digging inspection pit to 1.20m. | <b>Scale (approx)</b>             | <b>Logged By</b> |
|                                                                | 1:50                              |                  |
|                                                                | <b>Figure No.</b><br>J202302.CP03 |                  |

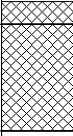


|                                          |                        |  |                            |                                  |                              |
|------------------------------------------|------------------------|--|----------------------------|----------------------------------|------------------------------|
| <b>Boring Method</b><br>Cable Percussion | <b>Casing Diameter</b> |  | <b>Ground Level (mOD)</b>  | <b>Client</b><br>Crest Nicholson | <b>Job Number</b><br>J202302 |
|                                          | <b>Location</b>        |  | <b>Dates</b><br>22/02/2023 | <b>Engineer</b><br>DPB           | <b>Sheet</b><br>2/2          |

| Depth (m)            | Sample / Tests  | Casing Depth (m) | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description     | Legend | Water |
|----------------------|-----------------|------------------|-----------------|---------------|-------------|-----------------------|-----------------|--------|-------|
| 9.95                 | D17             |                  |                 |               |             |                       |                 |        |       |
| 10.50                | D18             |                  |                 |               |             |                       |                 |        |       |
| 11.00-11.45<br>11.00 | SPT N=30<br>D19 |                  |                 | 3,4/6,7,8,9   |             |                       |                 |        |       |
| 12.00                | D20             |                  |                 |               |             |                       |                 |        |       |
| 12.50                | U21             |                  |                 |               |             | 12.50 (0.30)          | CLAYSTONE       |        |       |
| 12.75                | D22             |                  |                 |               |             | 12.80                 | Grey silty CLAY |        |       |
| 13.50                | D23             |                  |                 |               |             |                       |                 |        |       |
| 14.00-14.45<br>14.00 | SPT N=35<br>D24 |                  |                 | 3,5/7,8,9,11  |             |                       |                 |        |       |
| 15.00                | D25             |                  |                 |               |             |                       |                 |        |       |
| 15.50                | U26             |                  |                 |               |             |                       |                 |        |       |
| 15.95                | D27             |                  |                 |               |             |                       |                 |        |       |
| 16.50                | D28             |                  |                 |               |             | (7.20)                |                 |        |       |
| 17.00-17.45<br>17.00 | SPT N=39<br>D29 |                  |                 | 4,6/8,8,10,13 |             |                       |                 |        |       |
| 18.00                | D30             |                  |                 |               |             |                       |                 |        |       |
| 18.50                | U31             |                  |                 |               |             |                       |                 |        |       |
| 18.95                | D32             |                  |                 |               |             |                       |                 |        |       |
| 19.50-19.95<br>19.50 | SPT N=41<br>D33 |                  |                 | 4,6/8,9,10,14 |             |                       |                 |        |       |
|                      |                 |                  |                 |               |             | 20.00                 |                 |        |       |

|                                                                |                                   |                  |
|----------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>1 hour hand digging inspection pit to 1.20m. | <b>Scale (approx)</b>             | <b>Logged By</b> |
|                                                                | 1:50                              |                  |
|                                                                | <b>Figure No.</b><br>J202302.CP03 |                  |

|                                                                                                                                                     |                |                 |                           |                     |                       |                                                             |                                                                                     |                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|---------------------------|---------------------|-----------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------|--|
| <div> <b>WILSON BAILEY</b><br/>GEOTECHNICAL &amp; ENVIROMENTAL</div> |                |                 |                           |                     |                       | Site<br>Arborfield District Centre - Sainsburys Land Parcel |                                                                                     | Number<br><b>WS01</b> |  |
| Excavation Method<br>Drive-in Windowless Sampler                                                                                                    |                | Dimensions      |                           | Ground Level (mOD)  |                       | Client                                                      |                                                                                     | Job Number<br>J202306 |  |
|                                                                                                                                                     |                | Location        |                           | Dates<br>15/03/2023 |                       | Engineer<br>DPB                                             |                                                                                     | Sheet<br>1/1          |  |
| Depth (m)                                                                                                                                           | Sample / Tests | Water Depth (m) | Field Records             | Level (mOD)         | Depth (m) (Thickness) | Description                                                 | Legend                                                                              | Water                 |  |
| 0.50                                                                                                                                                | D1             |                 | Water strike(1) at 0.70m. |                     | 0.10                  | MADE GROUND (reworked topsoil)                              |  | V1                    |  |
|                                                                                                                                                     |                |                 |                           |                     | (0.60)                | MADE GROUND (reworked brown sandy clay with gravel)         |                                                                                     |                       |  |
| 1.00-1.45                                                                                                                                           | SPT N=5        |                 | 1,1/1,1,1,2               |                     | 0.70                  | MADE GROUND (crushed brick and tarmac)                      |  |                       |  |
| 1.00                                                                                                                                                | D2             |                 |                           |                     | (0.80)                | Firm dark bluish grey silty slightly sandy CLAY             |                                                                                     |                       |  |
| 1.50                                                                                                                                                | D3             |                 | 1,1/2,2,2,3               |                     | 0.95                  | Firm orange-brown and brown silty sandy CLAY                |  |                       |  |
| 2.00-2.45                                                                                                                                           | SPT N=9        |                 |                           |                     | (2.45)                |                                                             |                                                                                     |                       |  |
| 2.00                                                                                                                                                | D4             |                 | 2,2/3,3,4,4               |                     |                       |                                                             |  |                       |  |
| 2.50                                                                                                                                                | D5             |                 |                           |                     |                       |                                                             |                                                                                     |                       |  |
| 3.00-3.45                                                                                                                                           | SPT N=14       |                 | 3,4/4,5,5,6               |                     |                       |                                                             |  |                       |  |
| 3.00                                                                                                                                                | D6             |                 |                           |                     |                       |                                                             |                                                                                     |                       |  |
| 3.50                                                                                                                                                | D7             |                 | 4,4/4,4,6,6               |                     | 3.40                  | Firm becoming stiff dark bluish grey slightly silty CLAY    |  |                       |  |
| 4.00-4.45                                                                                                                                           | SPT N=20       |                 |                           |                     | (2.05)                |                                                             |                                                                                     |                       |  |
| 4.00                                                                                                                                                | D8             |                 |                           |                     |                       |                                                             |  |                       |  |
| 4.50                                                                                                                                                | D9             |                 |                           |                     |                       |                                                             |                                                                                     |                       |  |
| 5.00-5.45                                                                                                                                           | SPT N=20       |                 |                           |                     |                       |                                                             |  |                       |  |
| 5.00                                                                                                                                                | D10            |                 |                           |                     |                       |                                                             |                                                                                     |                       |  |
| 5.45                                                                                                                                                | D11            |                 |                           |                     | 5.45                  | Complete at 5.45m                                           |  |                       |  |
| Remarks<br>Groundwater seepage at 0.70m. Standpipe installed with a response zone form 1.00m to 5.00m.                                              |                |                 |                           |                     |                       |                                                             | Scale (approx)<br>1:50                                                              | Logged By             |  |
|                                                                                                                                                     |                |                 |                           |                     |                       |                                                             | Figure No.<br>J202306.WS01                                                          |                       |  |

|  <b>WILSON BAILEY</b><br>GEOTECHNICAL & ENVIROMENTAL |                 |                   |               |                            |                       | <b>Site</b><br>Arborfield District Centre - Sainsburys Land Parcel                |                                                                                     | <b>Number</b><br><b>WS02</b> |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|---------------|----------------------------|-----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler                                                                             |                 | <b>Dimensions</b> |               | <b>Ground Level (mOD)</b>  |                       | <b>Client</b>                                                                     |                                                                                     | <b>Job Number</b><br>J202306 |
|                                                                                                                                     |                 | <b>Location</b>   |               | <b>Dates</b><br>15/03/2023 |                       | <b>Engineer</b><br>DPB                                                            |                                                                                     | <b>Sheet</b><br>1/1          |
| Depth (m)                                                                                                                           | Sample / Tests  | Water Depth (m)   | Field Records | Level (mOD)                | Depth (m) (Thickness) | Description                                                                       | Legend                                                                              | Water                        |
| 0.50                                                                                                                                | D1              |                   |               |                            | (0.15)<br>0.15        | MADE GROUND (reworked topsoil)                                                    |  |                              |
|                                                                                                                                     |                 |                   |               |                            | (0.70)                | MADE GROUND (brown sandy clay with bricks, concrete and gravel)                   |                                                                                     |                              |
| 1.00-1.45<br>1.00                                                                                                                   | SPT N=6<br>D2   |                   | 1,1/1,1,2,2   |                            | 0.85                  | Firm pale brown with pale grey and orange-brown mottled silty slightly sandy CLAY |  |                              |
| 1.50                                                                                                                                | D3              |                   |               |                            |                       |                                                                                   |  |                              |
| 2.00-2.45<br>2.00                                                                                                                   | SPT N=10<br>D4  |                   | 2,2/2,2,3,3   |                            | (2.75)                |                                                                                   |  |                              |
| 2.50                                                                                                                                | D5              |                   |               |                            |                       |                                                                                   |  |                              |
| 3.00-3.45<br>3.00                                                                                                                   | SPT N=17<br>D6  |                   | 3,3/4,4,4,5   |                            |                       |                                                                                   |  |                              |
| 3.50                                                                                                                                | D7              |                   |               |                            | 3.60                  | Firm becoming stiff dark bluish grey CLAY                                         |  |                              |
| 4.00-4.45<br>4.00                                                                                                                   | SPT N=17<br>D8  |                   | 3,4/4,4,5,4   |                            | (1.85)                |                                                                                   |  |                              |
| 4.50                                                                                                                                | D9              |                   |               |                            |                       |                                                                                   |  |                              |
| 5.00-5.45<br>5.00                                                                                                                   | SPT N=18<br>D10 |                   | 4,4/4,4,5,5   |                            | 5.45                  |                                                                                   |  |                              |
| 5.45                                                                                                                                | D11             |                   |               |                            |                       | Complete at 5.45m                                                                 |                                                                                     |                              |
| <b>Remarks</b><br>Groundwater not encountered. Standpipe installed with a response zone from 1.00m to 5.00m.                        |                 |                   |               |                            |                       |                                                                                   | <b>Scale (approx)</b><br><br>1:50                                                   | <b>Logged By</b>             |
|                                                                                                                                     |                 |                   |               |                            |                       |                                                                                   | <b>Figure No.</b><br>J202306.WS02                                                   |                              |



**Site**

Arborfield District Centre - Sainsburys Land Parcel

**Number**  
**WS03**

**Excavation Method**

Drive-in Windowless Sampler

**Dimensions**

**Location**

**Ground Level (mOD)**

**Dates**

15/03/2023

**Client**

**Engineer**

DPB

**Job Number**  
J202306

**Sheet**  
1/1

| Depth (m)         | Sample / Tests  | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                                                                                          | Legend | Water |
|-------------------|-----------------|-----------------|---------------|-------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------|-------|
| 0.50              | D1              |                 |               |             | (0.20)<br>0.20        | MADE GROUND (reworked topsoil)                                                                                                       |        |       |
|                   |                 |                 |               |             | (0.75)                | MADE GROUND (reworked brown sandy clay with bricks and brick fragments)                                                              |        |       |
| 1.00-1.45<br>1.00 | SPT N=6<br>D2   |                 | 1,1/1,1,2,2   |             | 0.95                  | Firm brown with pale orange-brown and pale grey mottled slightly silty CLAY with occasional partings of orange-brown silty fine sand |        |       |
| 1.50              | D3              |                 |               |             |                       |                                                                                                                                      |        |       |
| 2.00-2.45<br>2.00 | SPT N=9<br>D4   |                 | 1,1/2,2,2,3   |             | (2.75)                |                                                                                                                                      |        |       |
| 2.50              | D5              |                 |               |             |                       |                                                                                                                                      |        |       |
| 3.00-3.45<br>3.00 | SPT N=13<br>D6  |                 | 2,2/3,3,3,4   |             |                       |                                                                                                                                      |        |       |
| 3.50              | D7              |                 |               |             | 3.70                  | Firm becoming stiff dark grey slightly silty CLAY                                                                                    |        |       |
| 4.00-4.45<br>4.00 | SPT N=18<br>D8  |                 | 3,3/4,4,5,5   |             | (1.75)                |                                                                                                                                      |        |       |
| 4.50              | D9              |                 |               |             |                       |                                                                                                                                      |        |       |
| 5.00-5.45<br>5.00 | SPT N=22<br>D10 |                 | 3,4/4,5,6,7   |             | 5.45                  | Complete at 5.45m                                                                                                                    |        |       |
| 5.45              | D11             |                 |               |             |                       |                                                                                                                                      |        |       |

**Remarks**

Gorundwater not encountered. Standpipe installed with a response zone form 1.00m to 5.00m.

**Scale (approx)**

1:50

**Logged By**

**Figure No.**

J202306.WS03



|                                                         |                   |                            |                        |                              |
|---------------------------------------------------------|-------------------|----------------------------|------------------------|------------------------------|
| <b>Excavation Method</b><br>Drive-in Windowless Sampler | <b>Dimensions</b> | <b>Ground Level (mOD)</b>  | <b>Client</b>          | <b>Job Number</b><br>J202306 |
|                                                         | <b>Location</b>   | <b>Dates</b><br>15/03/2023 | <b>Engineer</b><br>DPB | <b>Sheet</b><br>1/1          |

| Depth (m)         | Sample / Tests  | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                                                                | Legend | Water |
|-------------------|-----------------|-----------------|---------------|-------------|-----------------------|------------------------------------------------------------------------------------------------------------|--------|-------|
| 0.50              | D1              |                 |               |             | (0.35)<br>0.35        | MADE GROUND (reworked topsoil with brick and gravel)                                                       |        |       |
| 1.00-1.45<br>1.00 | SPT N=13<br>D2  |                 | 1,2/2,4,3,4   |             | (0.45)<br>0.80        | Soft pale yellowish brown and pale grye silty sandy CLAY with occassional decayed rootlets to 0.70m        |        |       |
| 1.50              | D3              |                 |               |             |                       | Firm brown silty CLAY with occasional pale grey mottled and occasional partings of orange-brown silty sand |        |       |
| 2.00-2.45<br>2.00 | SPT N=8<br>D4   |                 | 2,2/2,2,2,2   |             | (2.60)                |                                                                                                            |        |       |
| 2.50              | D5              |                 |               |             |                       |                                                                                                            |        |       |
| 3.00-3.45<br>3.00 | SPT N=19<br>D6  |                 | 4,4/3,6,5,5   |             | 3.40                  | Firm becoming stiff dakr bluish grey slightly silty CLAY                                                   |        |       |
| 3.50              | D7              |                 |               |             |                       |                                                                                                            |        |       |
| 4.00-4.45<br>4.00 | SPT N=20<br>D8  |                 | 3,4/5,5,5,5   |             | (2.05)                |                                                                                                            |        |       |
| 4.50              | D9              |                 |               |             |                       |                                                                                                            |        |       |
| 5.00-5.45<br>5.00 | SPT N=27<br>D10 |                 | 3,4/5,6,7,9   |             | 5.45                  | Complete at 5.45m                                                                                          |        |       |
| 5.45              | D11             |                 |               |             |                       |                                                                                                            |        |       |

|                                                                                                             |                                   |                  |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------|
| <b>Remarks</b><br>Groundwater not encountered. Standpipe installed with a resonse zone from 1.00m to 5.00m. | <b>Scale (approx)</b><br>1:50     | <b>Logged By</b> |
|                                                                                                             | <b>Figure No.</b><br>J202306.WS04 |                  |
|                                                                                                             |                                   |                  |



**Site**

Arborfield District Centre - Sainsburys Land Parcel

**Number**  
**WS05**

**Excavation Method**

Drive-in Windowless Sampler

**Dimensions**

**Ground Level (mOD)**

**Client**

**Job Number**  
J202306

**Location**

**Dates**

15/03/2023

**Engineer**

DPB

**Sheet**  
1/1

| Depth (m)         | Sample / Tests  | Water Depth (m) | Field Records | Level (mOD) | Depth (m) (Thickness) | Description                                                                         | Legend | Water |
|-------------------|-----------------|-----------------|---------------|-------------|-----------------------|-------------------------------------------------------------------------------------|--------|-------|
| 0.50              | D1              |                 |               |             | (0.20)<br>0.20        | MADE GROUND (crushed concrete and brown clay)                                       |        |       |
|                   |                 |                 |               |             | (0.40)                | MADE GROUND (reworked brown sandy clay)                                             |        |       |
|                   |                 |                 |               |             | 0.60                  |                                                                                     |        |       |
|                   |                 |                 |               |             | (0.45)                | MADE GROUND (dark brown and black silty sand with ash, clinker, brick and concrete) |        |       |
| 1.00-1.45<br>1.00 | SPT N=9<br>D2   |                 | 1,2/2,2,2,3   |             | 1.05<br>(0.30)        | Firm dark brown silty slightly sandy CLAY                                           |        |       |
| 1.50              | D3              |                 |               |             | 1.35                  | Firm brown with occasional pale grey mottled slightly silty CLAY                    |        |       |
| 2.00-2.45<br>2.00 | SPT N=10<br>D4  |                 | 1,2/2,2,3,3   |             |                       |                                                                                     |        |       |
| 2.50              | D5              |                 |               |             | (2.35)                |                                                                                     |        |       |
| 3.00-3.45<br>3.00 | SPT N=15<br>D6  |                 | 2,3/3,4,4,4   |             |                       |                                                                                     |        |       |
| 3.50              | D7              |                 |               |             | 3.70                  | Firm becoming stiff dark bluish grey slightly silty CLAY                            |        |       |
| 4.00-4.45<br>4.00 | SPT N=16<br>D8  |                 | 3,4/3,4,4,5   |             | (1.75)                |                                                                                     |        |       |
| 4.50              | D9              |                 |               |             |                       |                                                                                     |        |       |
| 5.00-5.45<br>5.00 | SPT N=21<br>D10 |                 | 4,5/5,5,5,6   |             | 5.45                  | Complete at 5.45m                                                                   |        |       |
| 5.45              | D11             |                 |               |             |                       |                                                                                     |        |       |

**Remarks**

Groundwater not encountered.

**Scale (approx)**

1:50

**Logged By**

**Figure No.**

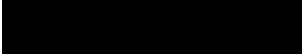
J202306.WS05

|  |        |               |           |      | Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results                                                       |                   |                       |            |         |         |         |
|-----------------------------------------------------------------------------------|--------|---------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|------------|---------|---------|---------|
| Job No.                                                                           |        | Project Name  |           |      |                                                                                                                                   | Programme         |                       |            |         |         |         |
| 32832                                                                             |        | Arborfield DC |           |      |                                                                                                                                   | Samples received  |                       | 06/12/2022 |         |         |         |
| Project No.                                                                       |        | Client        |           |      |                                                                                                                                   | Schedule received |                       | 07/12/2022 |         |         |         |
| 32832                                                                             |        |               |           |      |                                                                                                                                   | Project started   |                       | 07/12/2022 |         |         |         |
|                                                                                   |        |               |           |      |                                                                                                                                   | Testing Started   |                       | 13/01/2023 |         |         |         |
| Hole No.                                                                          | Sample |               |           |      | Soil Description                                                                                                                  | NMC<br>%          | Passing<br>425µm<br>% | LL<br>%    | PL<br>% | PI<br>% | Remarks |
|                                                                                   | Ref    | Top<br>m      | Base<br>m | Type |                                                                                                                                   |                   |                       |            |         |         |         |
| BH1                                                                               | -      | 1.50          | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded) | 23                | 95                    | 42         | 18      | 24      |         |
| BH1                                                                               | -      | 2.50          | -         | D    | Orangish brown slightly mottled grey sandy silty CLAY                                                                             | 26                | 100                   | 45         | 22      | 23      |         |
| BH3                                                                               | -      | 1.50          | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY with rare fine gravel                                              | 24                | 99                    | 53         | 21      | 32      |         |
| BH7                                                                               | -      | 1.50          | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                                                                    | 26                | 100                   | 51         | 22      | 29      |         |
| BH8                                                                               | -      | 1.50          | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy silty CLAY                                                             | 27                | 100                   | 51         | 21      | 30      |         |
| BH12                                                                              | -      | 1.00          | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy silty CLAY                                                             | 25                | 100                   | 52         | 22      | 30      |         |
| BH12                                                                              | -      | 2.00          | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                                                                    | 25                | 100                   | 43         | 21      | 22      |         |
| BH12                                                                              | -      | 3.00          | -         | D    | Dark grey slightly mottled orangish brown slightly sandy silty CLAY                                                               | 24                | 100                   | 46         | 21      | 25      |         |
| BH23                                                                              | -      | 2.00          | -         | D    | Orangish brown slightly mottled grey sandy silty CLAY                                                                             | 24                | 100                   | 39         | 20      | 19      |         |
| BH33                                                                              | -      | 1.00          | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded) | 27                | 95                    | 51         | 21      | 30      |         |
| BH33                                                                              | -      | 2.00          | -         | D    | Orangish brown slightly mottled grey and dark grey slightly sandy silty CLAY with rare fine gravel                                | 23                | 99                    | 45         | 21      | 24      |         |
|                                                                                   |        |               |           |      |                                                                                                                                   |                   |                       |            |         |         |         |

|                                                                                     |                                                                                                                                                                                    |                                                                                                                                                                                                     |                                                                                |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|  | <b>Test Methods: BS1377: Part 2: 1990:</b><br>Natural Moisture Content : clause 3.2<br>Atterberg Limits: clause 4.3 and 5.0<br><i>These results only apply to the items tested</i> | <b>Test Report by K4 SOILS LABORATORY</b><br>Unit 8 Olds Close Olds Approach<br>Watford Herts WD18 9RU<br><div style="background-color: black; width: 100px; height: 15px; margin-top: 5px;"></div> | <b>Checked and Approved</b><br><br>Initials <b>J.P</b><br><br>Date: 16/01/2023 |
|                                                                                     | NOTE: The report shall not be reproduced except in full without authority of the laboratory                                                                                        |                                                                                                                                                                                                     |                                                                                |
|                                                                                     | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)                                                                                                                       |                                                                                                                                                                                                     | MSF-5-R1(b)                                                                    |

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|  |        |                                          |           |      | Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results                                    |                   |                       |            |         |         |         |
|-----------------------------------------------------------------------------------|--------|------------------------------------------|-----------|------|----------------------------------------------------------------------------------------------------------------|-------------------|-----------------------|------------|---------|---------|---------|
| Job No.                                                                           |        | Project Name                             |           |      |                                                                                                                | Programme         |                       |            |         |         |         |
| 33076                                                                             |        | Arborfield District Centre (Supermarket) |           |      |                                                                                                                | Samples received  |                       | 01/03/2023 |         |         |         |
| Project No.                                                                       |        | Client                                   |           |      |                                                                                                                | Schedule received |                       | 02/03/2023 |         |         |         |
| -                                                                                 |        | Wilson Bailey                            |           |      |                                                                                                                | Project started   |                       | 02/03/2023 |         |         |         |
|                                                                                   |        |                                          |           |      |                                                                                                                | Testing Started   |                       | 09/03/2023 |         |         |         |
| Hole No.                                                                          | Sample |                                          |           |      | Soil Description                                                                                               | NMC<br>%          | Passing<br>425µm<br>% | LL<br>%    | PL<br>% | PI<br>% | Remarks |
|                                                                                   | Ref    | Top<br>m                                 | Base<br>m | Type |                                                                                                                |                   |                       |            |         |         |         |
| BH01                                                                              | -      | 2.00                                     | -         | U    | Medium strength brown, orangish brown and grey fine sandy silty CLAY                                           | 24                | 100                   | 41         | 21      | 20      |         |
| BH01                                                                              | -      | 9.50                                     | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments               | 23                | 100                   | 56         | 24      | 32      |         |
| BH01                                                                              | -      | 18.50                                    | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                    | 25                | 100                   | 70         | 29      | 41      |         |
| BH02                                                                              | -      | 5.00                                     | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with occasional pockets of fmc claystone fragments | 21                | 100                   | 45         | 20      | 25      |         |
| BH02                                                                              | -      | 14.00                                    | -         | U    | Extremely high strength dark grey slightly fine sandy silty CLAY                                               | 23                | 100                   | 58         | 23      | 35      |         |
| BH03                                                                              | -      | 2.00                                     | -         | U    | Medium strength orangish brown mottled grey fine sandy silty CLAY                                              | 28                | 100                   | 45         | 22      | 23      |         |
| BH03                                                                              | -      | 9.50                                     | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments               | 21                | 100                   | 53         | 23      | 30      |         |
| BH03                                                                              | -      | 18.50                                    | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                    | 24                | 100                   | 60         | 25      | 35      |         |
|                                                                                   |        |                                          |           |      |                                                                                                                |                   |                       |            |         |         |         |
|                                                                                   |        |                                          |           |      |                                                                                                                |                   |                       |            |         |         |         |
|                                                                                   |        |                                          |           |      |                                                                                                                |                   |                       |            |         |         |         |
|                                                                                   |        |                                          |           |      |                                                                                                                |                   |                       |            |         |         |         |

|                                                                                     |                                                                                                                                                                                    |                                                                                                                                                                                                |                                                                        |             |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------|
|  | <b>Test Methods: BS1377: Part 2: 1990:</b><br>Natural Moisture Content : clause 3.2<br>Atterberg Limits: clause 4.3 and 5.0<br><i>These results only apply to the items tested</i> | <b>Test Report by K4 SOILS LABORATORY</b><br>Unit 8 Olds Close Olds Approach<br>Watford Herts WD18 9RU<br> | <b>Checked and Approved</b><br>Initials <b>J.P</b><br>Date: 15/03/2023 |             |
|                                                                                     | NOTE: The report shall not be reproduced except in full without authority of the laboratory                                                                                        |                                                                                                                                                                                                |                                                                        |             |
|                                                                                     | 2519                                                                                                                                                                               |                                                                                                                                                                                                | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)           | MSF-5-R1(b) |
|                                                                                     |                                                                                                                                                                                    |                                                                                                                                                                                                |                                                                        |             |

|                                                                                                                                                                                                                                                                                          |        | Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results |           |      |                                                                                          |                                                                                                                                                                                                |                       |                   |         |            |         |                                                                                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------|-----------|------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|---------|------------|---------|-------------------------------------------------------------------------------------|--|
| Job No.<br>33160                                                                                                                                                                                                                                                                                                                                                          |        | Project Name<br>Arborfield DC Sains                                         |           |      |                                                                                          |                                                                                                                                                                                                |                       | Programme         |         |            |         |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                             |           |      |                                                                                          |                                                                                                                                                                                                |                       | Samples received  |         | 15/03/2023 |         |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                             |           |      |                                                                                          |                                                                                                                                                                                                |                       | Schedule received |         | 16/03/2023 |         |                                                                                     |  |
| Project No.<br>-                                                                                                                                                                                                                                                                                                                                                          |        | Client<br>Wilson Bailey                                                     |           |      |                                                                                          |                                                                                                                                                                                                |                       | Project started   |         | 17/03/2023 |         |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                           |        |                                                                             |           |      |                                                                                          |                                                                                                                                                                                                |                       | Testing Started   |         | 28/03/2023 |         |                                                                                     |  |
| Hole No.                                                                                                                                                                                                                                                                                                                                                                  | Sample |                                                                             |           |      | Soil Description                                                                         | NMC<br>%                                                                                                                                                                                       | Passing<br>425µm<br>% | LL<br>%           | PL<br>% | PI<br>%    | Remarks |                                                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                                           | Ref    | Top<br>m                                                                    | Base<br>m | Type |                                                                                          |                                                                                                                                                                                                |                       |                   |         |            |         |                                                                                     |  |
| WS01                                                                                                                                                                                                                                                                                                                                                                      | -      | 1.50                                                                        | -         | D    | Brown, orangish brown and bluish grey mottled slightly sandy silty CLAY                  | 27                                                                                                                                                                                             | 100                   | 49                | 22      | 27         |         |                                                                                     |  |
| WS01                                                                                                                                                                                                                                                                                                                                                                      | -      | 2.50                                                                        | -         | D    | Brown slightly mottled orangish brown slightly fine sandy silty CLAY                     | 22                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
| WS01                                                                                                                                                                                                                                                                                                                                                                      | -      | 3.50                                                                        | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                           | 25                                                                                                                                                                                             | 100                   | 38                | 20      | 18         |         |                                                                                     |  |
| WS01                                                                                                                                                                                                                                                                                                                                                                      | -      | 4.50                                                                        | -         | D    | Grey slightly fine sandy silty CLAY                                                      | 20                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
| WS02                                                                                                                                                                                                                                                                                                                                                                      | -      | 1.50                                                                        | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                           | 26                                                                                                                                                                                             | 100                   | 42                | 20      | 22         |         |                                                                                     |  |
| WS02                                                                                                                                                                                                                                                                                                                                                                      | -      | 2.50                                                                        | -         | D    | Brown slightly sandy silty CLAY                                                          | 23                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
| WS02                                                                                                                                                                                                                                                                                                                                                                      | -      | 3.50                                                                        | -         | D    | Dark grey and occasional brown sandy silty CLAY                                          | 21                                                                                                                                                                                             | 100                   | 39                | 19      | 20         |         |                                                                                     |  |
| WS02                                                                                                                                                                                                                                                                                                                                                                      | -      | 4.50                                                                        | -         | D    | Grey slightly fine sandy silty CLAY                                                      | 21                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
| WS03                                                                                                                                                                                                                                                                                                                                                                      | -      | 1.00                                                                        | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy silty CLAY                    | 27                                                                                                                                                                                             | 99                    | 47                | 20      | 27         |         |                                                                                     |  |
| WS03                                                                                                                                                                                                                                                                                                                                                                      | -      | 2.00                                                                        | -         | D    | Orangish brown and light grey mottled slightly fine sandy silty CLAY                     | 23                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
| WS03                                                                                                                                                                                                                                                                                                                                                                      | -      | 3.50                                                                        | -         | D    | Orangish brown mottled grey slightly sandy silty CLAY                                    | 22                                                                                                                                                                                             | 100                   | 38                | 18      | 20         |         |                                                                                     |  |
| WS04                                                                                                                                                                                                                                                                                                                                                                      | -      | 0.50                                                                        | -         | D    | Orangish brown and light grey mottled sandy silty CLAY with traces of roots and rootlets | 21                                                                                                                                                                                             |                       |                   |         |            |         |                                                                                     |  |
|  <b>Test Methods: BS1377: Part 2: 1990:</b><br>Natural Moisture Content : clause 3.2<br>Atterberg Limits: clause 4.3 and 5.0<br><i>These results only apply to the items tested</i><br><br>NOTE: The report shall not be reproduced except in full without authority of the laboratory |        |                                                                             |           |      |                                                                                          | <b>Test Report by K4 SOILS LABORATORY</b><br>Unit 8 Olds Close Olds Approach<br>Watford Herts WD18 9RU<br> |                       |                   |         |            |         | <b>Checked and Approved</b><br><br>Initials      J.P<br><br>Date:        31/03/2023 |  |
| 2519                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                             |           |      |                                                                                          | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)                                                                                                                                   |                       |                   |         |            |         | MSF-5-R1(b)                                                                         |  |

|    |        | Summary of Natural Moisture Content, Liquid Limit and Plastic Limit Results                                                                                                                                                                                                           |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|---------|---------------------------------------------------------------------------------------|---------|
| Job No.                                                                             |        | Project Name                                                                                                                                                                                                                                                                          |           |      |                                                                         |                                                                                                                                                                                                    |                       | Programme         |         |                                                                                       |         |
| 33160                                                                               |        | Arborfield DC Sains                                                                                                                                                                                                                                                                   |           |      |                                                                         |                                                                                                                                                                                                    |                       | Samples received  |         | 15/03/2023                                                                            |         |
| Project No.                                                                         |        | Client                                                                                                                                                                                                                                                                                |           |      |                                                                         |                                                                                                                                                                                                    |                       | Schedule received |         | 16/03/2023                                                                            |         |
| -                                                                                   |        | Wilson Bailey                                                                                                                                                                                                                                                                         |           |      |                                                                         |                                                                                                                                                                                                    |                       | Project started   |         | 17/03/2023                                                                            |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       | Testing Started   |         | 28/03/2023                                                                            |         |
| Hole No.                                                                            | Sample |                                                                                                                                                                                                                                                                                       |           |      | Soil Description                                                        | NMC<br>%                                                                                                                                                                                           | Passing<br>425µm<br>% | LL<br>%           | PL<br>% | PI<br>%                                                                               | Remarks |
|                                                                                     | Ref    | Top<br>m                                                                                                                                                                                                                                                                              | Base<br>m | Type |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
| WS04                                                                                | -      | 1.00                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown slightly sandy silty CLAY                                | 24                                                                                                                                                                                                 | 100                   | 38                | 20      | 18                                                                                    |         |
| WS04                                                                                | -      | 1.75                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown and light grey slightly fine sandy silty CLAY            | 23                                                                                                                                                                                                 |                       |                   |         |                                                                                       |         |
| WS04                                                                                | -      | 2.50                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY          | 24                                                                                                                                                                                                 | 100                   | 41                | 20      | 21                                                                                    |         |
| WS04                                                                                | -      | 4.00                                                                                                                                                                                                                                                                                  | -         | D    | Grey slightly fine sandy silty CLAY                                     | 20                                                                                                                                                                                                 |                       |                   |         |                                                                                       |         |
| WS05                                                                                | -      | 1.50                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown, brown and bluish grey mottled slightly sandy silty CLAY | 26                                                                                                                                                                                                 | 100                   | 43                | 20      | 23                                                                                    |         |
| WS05                                                                                | -      | 2.00                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown and light grey mottled slightly fine sandy silty CLAY    | 24                                                                                                                                                                                                 |                       |                   |         |                                                                                       |         |
| WS05                                                                                | -      | 3.50                                                                                                                                                                                                                                                                                  | -         | D    | Orangish brown mottled grey slightly sandy silty CLAY                   | 24                                                                                                                                                                                                 | 100                   | 38                | 19      | 19                                                                                    |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|                                                                                     |        |                                                                                                                                                                                                                                                                                       |           |      |                                                                         |                                                                                                                                                                                                    |                       |                   |         |                                                                                       |         |
|  |        | <b>Test Methods: BS1377: Part 2: 1990:</b><br>Natural Moisture Content : clause 3.2<br>Atterberg Limits: clause 4.3 and 5.0<br><i>These results only apply to the items tested</i><br><br>NOTE: The report shall not be reproduced except in full without authority of the laboratory |           |      |                                                                         | <b>Test Report by K4 SOILS LABORATORY</b><br>Unit 8 Olds Close Olds Approach<br>Watford Herts WD18 9RU<br><br> |                       |                   |         | <b>Checked and Approved</b><br><br>Initials      J.P<br><br>Date:          31/03/2023 |         |
| 2519                                                                                |        | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)                                                                                                                                                                                                                          |           |      |                                                                         |                                                                                                                                                                                                    |                       | MSF-5-R1(b)       |         |                                                                                       |         |

|     |        | Unconsolidated Undrained Triaxial Compression tests without measurement of pore pressure<br>Summary of Results                             |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     |                   |                |           |                                                               |                                                       |         |
|-------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------|--------|----------|-----|-------------------|----------------|-----------|---------------------------------------------------------------|-------------------------------------------------------|---------|
| Job No.<br>33076                                                                    |        | Project Name<br>Arborfield Disctrict Centre (Supermarket)                                                                                  |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     | Programme         |                |           |                                                               |                                                       |         |
|                                                                                     |        |                                                                                                                                            |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     | Samples received  |                |           | 01/03/2023                                                    |                                                       |         |
|                                                                                     |        |                                                                                                                                            |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     | Schedule received |                |           | 02/03/2023                                                    |                                                       |         |
| Project No.<br>-                                                                    |        | Client<br>Wilson Bailey                                                                                                                    |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     | Project started   |                |           | 02/03/2023                                                    |                                                       |         |
|                                                                                     |        |                                                                                                                                            |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     | Testing Started   |                |           | 07/03/2023                                                    |                                                       |         |
| Hole No.                                                                            | Sample |                                                                                                                                            |           |      | Soil Description                                                                                                                  | Test Type | Density                                                                                                   |      | w                                                               | Length | Diameter | σ3  | At failure        |                |           |                                                               |                                                       | Remarks |
|                                                                                     | Ref    | Top<br>m                                                                                                                                   | Base<br>m | Type |                                                                                                                                   |           | bulk<br>Mg/m3                                                                                             | dry  |                                                                 |        |          |     | Axial strain<br>% | σ1 - σ3<br>kPa | CU<br>kPa | Mode                                                          |                                                       |         |
| BH01                                                                                | -      | 2.00                                                                                                                                       | -         | U    | Medium strength brown, orangish brown and grey fine sandy silty CLAY                                                              | UU        | 2.02                                                                                                      | 1.61 | 25                                                              | 198    | 103      | 40  | 19                | 142            | 71        | P                                                             |                                                       |         |
| BH01                                                                                | -      | 4.00                                                                                                                                       | -         | U    | Very high strength dark grey fine sandy silty CLAY                                                                                | UU        | 2.09                                                                                                      | 1.72 | 22                                                              | 198    | 103      | 80  | 19                | 303            | 152       | C                                                             |                                                       |         |
| BH01                                                                                | -      | 6.50                                                                                                                                       | -         | U    | Very high strength dark grey fine sandy silty CLAY                                                                                | UU        | 2.08                                                                                                      | 1.73 | 21                                                              | 198    | 103      | 130 | 11                | 471            | 236       | C                                                             |                                                       |         |
| BH01                                                                                | -      | 9.50                                                                                                                                       | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments                                  | UU        | 2.05                                                                                                      | 1.64 | 25                                                              | 198    | 103      | 190 | 13                | 524            | 262       | C                                                             |                                                       |         |
| BH01                                                                                | -      | 12.50                                                                                                                                      | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                                       | UU        | 2.07                                                                                                      | 1.69 | 23                                                              | 198    | 103      | 250 | 12                | 426            | 213       | C                                                             |                                                       |         |
| BH01                                                                                | -      | 15.50                                                                                                                                      | -         | U    | Very high strength dark grey fine sandy silty CLAY                                                                                | UU        | 2.03                                                                                                      | 1.67 | 22                                                              | 198    | 103      | 310 | 11                | 568            | 284       | B                                                             |                                                       |         |
| BH01                                                                                | -      | 18.50                                                                                                                                      | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                                       | UU        | 2.05                                                                                                      | 1.64 | 25                                                              | 198    | 103      | 370 | 11                | 383            | 192       | B                                                             |                                                       |         |
| BH02                                                                                | -      | 1.20                                                                                                                                       | -         | U    | Low strength orangish brown, brown and grey slightly fine sandy silty CLAY with occasional black flecks                           | UU        | 1.85                                                                                                      | 1.47 | 26                                                              | 198    | 103      | 25  | 15                | 72             | 36        | C                                                             |                                                       |         |
| BH02                                                                                | -      | 3.00                                                                                                                                       | -         | U    | Low strength brown slightly mottled orangish brown silty CLAY with occasional fmc claystone fragments and occasional black flecks | UU        | 1.91                                                                                                      | 1.43 | 33                                                              | 198    | 103      | 60  | 20                | 74             | 37        | P                                                             | Sample slightly softened, partially remoulded at base |         |
| BH02                                                                                | -      | 5.00                                                                                                                                       | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with occasional pockets of fmc claystone fragments                    | UU        | 2.09                                                                                                      | 1.70 | 23                                                              | 198    | 103      | 100 | 20                | 334            | 167       | C                                                             |                                                       |         |
| BH02                                                                                | -      | 8.00                                                                                                                                       | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                                       | UU        | 2.14                                                                                                      | 1.76 | 21                                                              | 198    | 103      | 160 | 9.1               | 510            | 255       | B                                                             |                                                       |         |
| BH02                                                                                | -      | 11.00                                                                                                                                      | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                                       | UU        | 2.05                                                                                                      | 1.69 | 22                                                              | 198    | 103      | 220 | 13                | 588            | 294       | C                                                             |                                                       |         |
| BH02                                                                                | -      | 14.00                                                                                                                                      | -         | U    | Extremely high strength dark grey slightly fine sandy silty CLAY                                                                  | UU        | 2.01                                                                                                      | 1.63 | 23                                                              | 198    | 103      | 280 | 8.1               | 651            | 325       | B                                                             |                                                       |         |
| Legend                                                                              |        | UU - single stage test (single and multiple specimens)<br>UUM - Multistage test on a single specimen<br>suffix R - remoulded or recompactd |           |      |                                                                                                                                   |           | σ3 Cell pressure<br>σ1 - σ3 Maximum corrected deviator stress<br>cu Undrained shear strength, ½ (σ1 - σ3) |      | Mode of failure ;<br>B - Brittle<br>P - Plastic<br>C - Compound |        |          |     |                   |                |           |                                                               |                                                       |         |
|  |        | Test Report by K4 SOILS LABORATORY<br>Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU<br><div></div>                                |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     |                   |                |           | Checked and Approved<br><br>Initials: J.P<br>Date: 15/03/2023 |                                                       |         |
| 2519                                                                                |        | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)                                                                               |           |      |                                                                                                                                   |           |                                                                                                           |      |                                                                 |        |          |     |                   |                |           | MSF-5-R7b                                                     |                                                       |         |

|  |        | <b>Unconsolidated Undrained Triaxial Compression tests without measurement of pore pressure</b><br><b>Summary of Results</b> |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
|----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------|-----------|------|--------------------------------------------------------------------------------------------------|-----------|---------------------------|------|----|--------|----------|------------|-------------------|------------------------------|-----------|------------|-------------------------------------------|--|--|
|                                                                                  |        | <b>Tests carried out in accordance with BS1377:Part 7 : 1990 clause 8 or 9 as appropriate to test</b>                        |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
| Job No.                                                                          |        | Project Name                                                                                                                 |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   | Programme                    |           |            |                                           |  |  |
| 33076                                                                            |        | Arborfield District Centre (Supermarket)                                                                                     |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   | Samples received             |           | 01/03/2023 |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   | Schedule received            |           | 02/03/2023 |                                           |  |  |
| Project No.                                                                      |        | Client                                                                                                                       |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   | Project started              |           | 02/03/2023 |                                           |  |  |
| -                                                                                |        | Wilson Bailey                                                                                                                |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   | Testing Started              |           | 07/03/2023 |                                           |  |  |
| Hole No.                                                                         | Sample |                                                                                                                              |           |      | Soil Description                                                                                 | Test Type | Density                   |      | w  | Length | Diameter | $\sigma_3$ | At failure        |                              |           |            | Remarks                                   |  |  |
|                                                                                  | Ref    | Top<br>m                                                                                                                     | Base<br>m | Type |                                                                                                  |           | bulk<br>Mg/m <sup>3</sup> | dry  |    |        |          |            | Axial strain<br>% | $\sigma_1 - \sigma_3$<br>kPa | cu<br>kPa | Mode       |                                           |  |  |
| BH02                                                                             | -      | 17.00                                                                                                                        | -         | U    | Extremely high strength dark grey slightly fine sandy silty CLAY                                 | UU        | 2.07                      | 1.71 | 21 | 198    | 103      | 340        | 5.6               | 746                          | 373       | B          |                                           |  |  |
| BH02                                                                             | -      | 19.50                                                                                                                        | -         | U    | Very high strength dark grey silty CLAY                                                          | UU        | 2.04                      | 1.65 | 24 | 198    | 103      | 390        | 9.6               | 474                          | 237       | B          |                                           |  |  |
| BH03                                                                             | -      | 2.00                                                                                                                         | -         | U    | Medium strength orangish brown mottled grey fine sandy silty CLAY                                | UU        | 1.97                      | 1.57 | 26 | 198    | 103      | 40         | 20                | 109                          | 55        | P          |                                           |  |  |
| BH03                                                                             | -      | 4.00                                                                                                                         | -         | U    | Very high strength dark grey fine sandy silty CLAY                                               | UU        | 2.09                      | 1.73 | 21 | 198    | 103      | 80         | 13                | 350                          | 175       | C          |                                           |  |  |
| BH03                                                                             | -      | 6.50                                                                                                                         | -         | U    | Very high strength dark grey fine sandy silty CLAY                                               | UU        | 2.03                      | 1.68 | 21 | 198    | 103      | 130        | 17                | 412                          | 206       | C          |                                           |  |  |
| BH03                                                                             | -      | 9.50                                                                                                                         | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments | UU        | 2.05                      | 1.68 | 22 | 198    | 103      | 190        | 12                | 458                          | 229       | C          |                                           |  |  |
| BH03                                                                             | -      | 12.50                                                                                                                        | -         | U    | Very high strength dark grey fine sandy silty CLAY with rare coarse claystone fragments          | UU        | 2.02                      | 1.65 | 22 | 150    | 103      | 250        | 19                | 543                          | 271       | C          | Short sample, claystone fragments removed |  |  |
| BH03                                                                             | -      | 15.50                                                                                                                        | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                      | UU        | 1.99                      | 1.60 | 24 | 198    | 103      | 310        | 6.1               | 450                          | 225       | B          |                                           |  |  |
| BH03                                                                             | -      | 18.50                                                                                                                        | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                      | UU        | 2.08                      | 1.68 | 24 | 198    | 102      | 370        | 20                | 447                          | 223       | C          |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |
|                                                                                  |        |                                                                                                                              |           |      |                                                                                                  |           |                           |      |    |        |          |            |                   |                              |           |            |                                           |  |  |

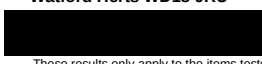
Legend
UU - single stage test (single and multiple specimens)
UUM - Multistage test on a single specimen
suffix R - remoulded or recompacted

$\sigma_3$  Cell pressure
 $\sigma_1 - \sigma_3$  Maximum corrected deviator stress
cu Undrained shear strength,  $\frac{1}{2}(\sigma_1 - \sigma_3)$

Mode of failure ;
B - Brittle
P - Plastic
C - Compound

|                                                                                     |                                                                                                                                     |                                                              |                                                                      |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------|
|  | <b>Test Report by K4 SOILS LABORATORY</b><br><b>Unit 8 Olds Close Olds Approach Watford Herts WD18 9RU</b><br><div></div>           |                                                              | <b>Checked and Approved</b><br><br>Initials: J.P<br>Date: 15/03/2023 |
|                                                                                     | These results only apply to the items tested. The report shall not be reproduced except in full without authority of the laboratory |                                                              |                                                                      |
|                                                                                     | 2519                                                                                                                                | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr) |                                                                      |

MSF-5-R7b

|    |        | <b>Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results</b><br><b>Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 &amp; Clause 12</b> |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|-------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------|-------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |        | Job No.<br>32832                                                                                                                                                                                  |           |      |                                                                                                                                   |                                 |                        | Project Name<br>Arborfield DC |                                                           | Programme<br>Samples received 06/12/2022<br>Schedule received 07/12/2022<br>Project started 07/12/2022<br>Testing Started 13/01/2023 |
| Project No.<br>32832                                                                |        | Client                                                                                                                                                                                            |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
| Hole No.                                                                            | Sample |                                                                                                                                                                                                   |           |      | Soil description                                                                                                                  | Dry Mass<br>passing<br>2mm<br>% | SO4<br>Content<br>mg/l | pH                            | Remarks                                                   |                                                                                                                                      |
|                                                                                     | Ref    | Top<br>m                                                                                                                                                                                          | Base<br>m | Type |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
| BH1                                                                                 | -      | 1.50                                                                                                                                                                                              | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded) | 98                              | 300                    | 7.2                           |                                                           |                                                                                                                                      |
| BH7                                                                                 | -      | 1.50                                                                                                                                                                                              | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                                                                    | 100                             | 320                    | 7.1                           |                                                           |                                                                                                                                      |
| BH12                                                                                | -      | 2.00                                                                                                                                                                                              | -         | D    | Orangish brown slightly mottled grey slightly sandy silty CLAY                                                                    | 100                             | 50                     | 7.2                           |                                                           |                                                                                                                                      |
| BH33                                                                                | -      | 1.00                                                                                                                                                                                              | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy slightly gravelly silty CLAY (gravel is fm and sub-angular to rounded) | 98                              | 60                     | 7.1                           |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|                                                                                     |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |
|  |        | Test Report by K4 SOILS LABORATORY<br>Unit 8 Olds Close Olds Approach<br>Watford Herts WD18 9RU<br>            |           |      |                                                                                                                                   |                                 |                        |                               | Checked and Approved<br>Initials J.P.<br>Date: 16/01/2023 |                                                                                                                                      |
|                                                                                     |        | NOTE: The report shall not be reproduced except in full without authority of the laboratory<br>Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)                                       |           |      |                                                                                                                                   |                                 |                        |                               | MSF-5-R29                                                 |                                                                                                                                      |
| 2519                                                                                |        |                                                                                                                                                                                                   |           |      |                                                                                                                                   |                                 |                        |                               |                                                           |                                                                                                                                      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                              |           |      | <b>Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results</b><br><b>Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 &amp; Clause 12</b> |                                 |                                                                                                                                      |           |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------|-----------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|---------|
| Job No.<br>33076                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | Project Name<br>Arborfield District Centre (Supermarket)     |           |      |                                                                                                                                                                                                   |                                 | Programme<br>Samples received 01/03/2023<br>Schedule received 02/03/2023<br>Project started 02/03/2023<br>Testing Started 13/03/2023 |           |         |
| Project No.<br>-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        | Client<br>Wilson Bailey                                      |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
| Hole No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample |                                                              |           |      | Soil description                                                                                                                                                                                  | Dry Mass<br>passing<br>2mm<br>% | SO4<br>Content<br>mg/l                                                                                                               | pH        | Remarks |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Ref    | Top<br>m                                                     | Base<br>m | Type |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
| BH01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 2.00                                                         | -         | U    | Medium strength brown, orangish brown and grey fine sandy silty CLAY                                                                                                                              | 100                             | 340                                                                                                                                  | 7.8       |         |
| BH01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 9.50                                                         | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments                                                                                                  | 100                             | 640                                                                                                                                  | 7.6       |         |
| BH02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 5.00                                                         | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with occasional pockets of fmc claystone fragments                                                                                    | 98                              | 670                                                                                                                                  | 7.7       |         |
| BH02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 14.00                                                        | -         | U    | Extremely high strength dark grey slightly fine sandy silty CLAY                                                                                                                                  | 100                             | 710                                                                                                                                  | 7.7       |         |
| BH03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 2.00                                                         | -         | U    | Medium strength orangish brown mottled grey fine sandy silty CLAY                                                                                                                                 | 100                             | 210                                                                                                                                  | 7.8       |         |
| BH03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 9.50                                                         | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY with rare decomposed shell fragments                                                                                                  | 100                             | 630                                                                                                                                  | 7.5       |         |
| BH03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -      | 18.50                                                        | -         | U    | Very high strength dark grey slightly fine sandy silty CLAY                                                                                                                                       | 100                             | 640                                                                                                                                  | 7.5       |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                              |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                              |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                              |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                                              |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  </div> <div> <b>Test Report by K4 SOILS LABORATORY</b><br/> <b>Unit 8 Olds Close Olds Approach</b><br/> <b>Watford Herts WD18 9RU</b><br/> <div style="background-color: black; width: 150px; height: 20px; margin: 5px auto;"></div> </div> <div style="text-align: right;"> <b>Checked and Approved</b><br/> <b>Initials J.P</b><br/><br/> <b>Date: 15/03/2023</b> </div> </div> <p style="font-size: small; text-align: center;">       These results only apply to the items tested<br/>       NOTE: The report shall not be reproduced except in full without authority of the laboratory     </p> |        |                                                              |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      |           |         |
| 2519                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        | Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr) |           |      |                                                                                                                                                                                                   |                                 |                                                                                                                                      | MSF-5-R29 |         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        | <b>Sulphate Content (Gravimetric Method) for 2:1 Soil: Water Extract and pH Value - Summary of Results</b><br><b>Tested in accordance with BS1377 : Part 3 : 2018, Clause 7.6 &amp; Clause 12</b> |           |      |                                                                         |                                 |                        |                   |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------------------------------------------------------------------|---------------------------------|------------------------|-------------------|------------|
| Job No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        | Project Name                                                                                                                                                                                      |           |      |                                                                         |                                 |                        | Programme         |            |
| 33160                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        | Arborfield DC Sains                                                                                                                                                                               |           |      |                                                                         |                                 |                        | Samples received  | 15/03/2023 |
| Project No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        | Client                                                                                                                                                                                            |           |      |                                                                         |                                 |                        | Schedule received | 16/03/2023 |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        | Wilson Bailey                                                                                                                                                                                     |           |      |                                                                         |                                 |                        | Project started   | 17/03/2023 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        | Testing Started   | 28/03/2023 |
| Hole No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Sample |                                                                                                                                                                                                   |           |      | Soil description                                                        | Dry Mass<br>passing<br>2mm<br>% | SO4<br>Content<br>mg/l | pH                | Remarks    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ref    | Top<br>m                                                                                                                                                                                          | Base<br>m | Type |                                                                         |                                 |                        |                   |            |
| WS01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -      | 1.50                                                                                                                                                                                              | -         | D    | Brown, orangish brown and bluish grey mottled slightly sandy silty CLAY | 100                             | 190                    | 7.7               |            |
| WS02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -      | 2.50                                                                                                                                                                                              | -         | D    | Brown slightly sandy silty CLAY                                         | 100                             | 240                    | 7.6               |            |
| WS03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -      | 1.00                                                                                                                                                                                              | -         | D    | Orangish brown slightly mottled bluish grey slightly sandy silty CLAY   | 100                             | 220                    | 7.6               |            |
| WS04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -      | 1.00                                                                                                                                                                                              | -         | D    | Orangish brown slightly sandy silty CLAY                                | 100                             | 240                    | 7.7               |            |
| WS05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -      | 1.50                                                                                                                                                                                              | -         | D    | Orangish brown, brown and bluish grey mottled slightly sandy silty CLAY | 100                             | 230                    | 7.7               |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  </div> <div> <b>Test Report by K4 SOILS LABORATORY</b><br/> <b>Unit 8 Olds Close Olds Approach</b><br/> <div style="background-color: black; width: 200px; height: 30px; margin: 5px auto;"></div> </div> <div style="text-align: right;"> <b>Checked and Approved</b><br/> <b>Initials J.P</b><br/><br/> <b>Date: 31/03/2023</b> </div> </div> |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div>2519</div> <div> <small>These results only apply to the items tested</small><br/> <small>NOTE: The report shall not be reproduced except in full without authority of the laboratory</small><br/> <b>Approved Signatories: K.Phaure (Tech.Mgr) J.Phaure (Lab.Mgr)</b> </div> <div>MSF-5-R29</div> </div>                                                                                                                                                         |        |                                                                                                                                                                                                   |           |      |                                                                         |                                 |                        |                   |            |



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## **DETS Report No: 22-10295**

**Site Reference:** Arb DC

**Project / Job Ref:** None Supplied

**Order No:** None Supplied

**Sample Receipt Date:** 07/12/2022

**Sample Scheduled Date:** 07/12/2022

**Report Issue Number:** 1

**Reporting Date:** 16/12/2022

**Authorised by:**

Ela Mysiara  
Quality Manager

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH1                 | BH2                 | BH4                 | BH5                 | BH7                 |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 1.20                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623350 <sup>A</sup> | 623351 <sup>A</sup> | 623352 <sup>A</sup> | 623353 <sup>A</sup> | 623354 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation | (n)          |              |                                                  |              |              |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|--------------------------------------------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Detected                                         | Not Detected | Not Detected |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              | Chrysotile present in microscopic bitumen debris |              |              |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              | Chrysotile                                       |              |              |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              | 0.284                                            |              |              |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.1          | 10.3         | 9.3                                              | 10.1         | 11.2         |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 2.9          | 0.4          | 0.9                                              | 0.2          | 0.4          |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 7            | 5            | 5                                                | 24           | 9            |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1                                              | < 1          | < 1          |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | < 0.2        | < 0.2                                            | < 0.2        | < 0.2        |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 12           | 15           | 13                                               | 20           | 16           |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2                                              | < 2          | < 2          |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 20           | 7            | 26                                               | 28           | 24           |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 56           | 66           | 48                                               | 9            | 21           |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1                                              | < 1          | < 1          |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 9            | 7            | 11                                               | 11           | 8            |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3                                              | < 3          | < 3          |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 88           | 21           | 41                                               | 50           | 49           |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | 2.6          | < 2          | < 2                                              | < 2          | < 2          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion

Subcontracted analysis (S)

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

A - No Sampling Date Provided



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**Tel : 01622 850410**



| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH9                 | BH9                 | BH10                | BH11                | BH13                |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.25                | 0.75                | 0.50                | 1.00                | 0.50                |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623355 <sup>A</sup> | 623356 <sup>A</sup> | 623357 <sup>A</sup> | 623358 <sup>A</sup> | 623359 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation |              |              |              |              |              |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              |              |              |              |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              |              |              |              |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              |              |              |              |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.1          | 6.3          | 7.7          | 8.2          | 8.0          |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 1.7          | 0.5          | 0.4          | 1.1          | 0.6          |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 9            | 4            | 5            | 8            | 7            |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 17           | 7            | 17           | 21           | 15           |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 23           | < 4          | 7            | 6            | 12           |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 28           | 7            | 19           | 15           | 20           |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 11           | < 3          | 8            | 8            | 7            |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3          | < 3          | < 3          |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 54           | 11           | 29           | 36           | 58           |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
 Subcontracted analysis (S)



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| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH16                | BH18                | BH19                | BH21                | BH23                |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623360 <sup>A</sup> | 623361 <sup>A</sup> | 623362 <sup>A</sup> | 623363 <sup>A</sup> | 623364 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation | (n)          |              |                       |                                   |              |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|-----------------------|-----------------------------------|--------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Detected              | Detected                          | Not Detected |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              | bundles of chrysotile | bundles of chrysotile and amosite |              |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              | Chrysotile            | Chrysotile Amosite                |              |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              | < 0.001               | < 0.001                           |              |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.6          | 7.6          | 7.9                   | 7.6                               | 9.8          |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 0.6          | 0.6          | 1.2                   | 0.8                               | 0.8          |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 5            | 6            | 8                     | 8                                 | 7            |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1                   | < 1                               | < 1          |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | < 0.2        | 0.2                   | < 0.2                             | 0.3          |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 11           | 10           | 16                    | 15                                | 15           |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2                   | < 2                               | < 2          |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 4            | 4            | 18                    | 11                                | 16           |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 13           | 11           | 55                    | 27                                | 25           |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1                   | < 1                               | < 1          |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 3            | 3            | 7                     | 6                                 | 9            |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3                   | < 3                               | < 3          |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 20           | 24           | 213                   | 133                               | 43           |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | < 2          | < 2          | < 2                   | < 2                               | < 2          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
 Subcontracted analysis (S)



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| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH26                | BH28                | BH28                | BH29                | BH31                |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.50                | 0.25                | 0.50                | 1.00                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623365 <sup>A</sup> | 623366 <sup>A</sup> | 623367 <sup>A</sup> | 623368 <sup>A</sup> | 623369 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation |              |              |                                                                                                 |                   |                                                       |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|-------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Detected                                                                                        | Detected          | Detected                                              |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              | amosite present in microscopic sheeting board debris and bundles. chrysotile present as bundles | bundle of amosite | chrysotile in microscopic bitumen. bundles of amosite |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              | Amosite Chrysotile                                                                              | Amosite           | Chrysotile Amosite                                    |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              | 0.001                                                                                           | < 0.001           | 0.002                                                 |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.9          | 7.9          | 7.5                                                                                             | 7.4               | 8.2                                                   |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 0.6          | 1.1          | 1.5                                                                                             | 0.5               | 0.4                                                   |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 8            | 16           | 9                                                                                               | 8                 | 7                                                     |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1                                                                                             | < 1               | < 1                                                   |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | 0.2          | < 0.2                                                                                           | < 0.2             | < 0.2                                                 |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 17           | 26           | 17                                                                                              | 16                | 13                                                    |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2                                                                                             | < 2               | < 2                                                   |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 9            | 245          | 30                                                                                              | 10                | 10                                                    |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 21           | 140          | 46                                                                                              | 15                | 23                                                    |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1                                                                                             | < 1               | < 1                                                   |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 10           | 25           | 12                                                                                              | 12                | 7                                                     |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3                                                                                             | < 3               | < 3                                                   |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 111          | 217          | 125                                                                                             | 39                | 55                                                    |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | < 2          | < 2          | < 2                                                                                             | < 2               | < 2                                                   |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
 Subcontracted analysis (S)



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| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |                     |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH33                | BH37                | BH37                | BH38                | BH39                |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.75                | 0.50                | 1.50                | 0.50                | 0.50                |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623370 <sup>A</sup> | 623371 <sup>A</sup> | 623372 <sup>A</sup> | 623373 <sup>A</sup> | 623374 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation |              |              |              |              |              |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected | Not Detected |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              |              |              |              |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              |              |              |              |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              |              |              |              |
| pH                                     | pH Units      | N/a     | MCERTS        | 6.8          | 6.9          | 5.9          | 6.8          | 7.7          |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 0.3          | 0.9          | 0.3          | 1.8          | 0.5          |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 4            | 8            | 11           | 19           | 11           |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1          | < 1          | < 1          |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | < 0.2        | < 0.2        | < 0.2        | < 0.2        |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 11           | 14           | 21           | 16           | 20           |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | < 4          | 13           | 8            | 62           | 16           |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 8            | 21           | 8            | 40           | 22           |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1          | < 1          | < 1          |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 3            | 11           | 13           | 48           | 10           |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3          | < 3          | < 3          |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 18           | 40           | 34           | 60           | 48           |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | < 2          | < 2          | < 2          | < 2          | < 2          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)



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| Soil Analysis Certificate                                 |                        |                     |                     |                     |                     |  |
|-----------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|--|
| <b>DETS Report No: 22-10295</b>                           | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| <b>Site Reference: Arb DC</b>                             | <b>TP / BH No</b>      | BH40                | BH42                | BH42                | BH43                |  |
| <b>Project / Job Ref: None Supplied</b>                   | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| <b>Order No: None Supplied</b>                            | <b>Depth (m)</b>       | 0.50                | 0.25                | 0.75                | 0.75                |  |
| <b>Reporting Date: 16/12/2022</b>                         | <b>DETS Sample No</b>  | 623375 <sup>A</sup> | 623376 <sup>A</sup> | 623377 <sup>A</sup> | 623378 <sup>A</sup> |  |

| Determinand                            | Unit          | RL      | Accreditation |              |              |              |              |  |
|----------------------------------------|---------------|---------|---------------|--------------|--------------|--------------|--------------|--|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected | Not Detected | Not Detected | Not Detected |  |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |              |              |              |  |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |              |              |              |  |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |              |              |              |  |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.8          | 7.9          | 6.1          | 7.2          |  |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 0.5          | 1.5          | 0.7          | 0.4          |  |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 7            | 11           | 5            | 7            |  |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          | < 1          | < 1          | < 1          |  |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        | < 0.2        | < 0.2        | < 0.2        |  |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 12           | 15           | 11           | 12           |  |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          | < 2          | < 2          | < 2          |  |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 16           | 39           | 6            | 6            |  |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 29           | 94           | 14           | 13           |  |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          | < 1          | < 1          | < 1          |  |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 10           | 18           | 4            | 4            |  |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 3          | < 3          | < 3          | < 3          |  |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 51           | 70           | 20           | 28           |  |
| Total Phenols (monohydric)             | mg/kg         | < 1     | NONE          | < 2          | < 2          | < 2          | < 2          |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
 Subcontracted analysis (S)



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| Soil Analysis Certificate - Speciated PAHs              |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH1                 | BH2                 | BH4                 | BH5                 | BH7                 |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 1.20                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623350 <sup>A</sup> | 623351 <sup>A</sup> | 623352 <sup>A</sup> | 623353 <sup>A</sup> | 623354 <sup>A</sup> |

| Determinand            | Unit  | RL    | Accreditation | (n)   |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.13  | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 6.52  | < 0.1 | 2.17  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 4.15  | < 0.1 | 2.51  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.36  | 0.20  | 50.50 | < 0.1 | 26    |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.13  | 15.30 | < 0.1 | 5.46  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 1.03  | 0.79  | 119   | < 0.1 | 40.60 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.90  | 1.06  | 103   | < 0.1 | 31.60 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 0.53  | 0.39  | 54.70 | < 0.1 | 16.50 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 0.59  | 0.42  | 50.60 | < 0.1 | 10.70 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.79  | 0.44  | 63.40 | < 0.1 | 19.10 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.24  | 0.14  | 15.30 | < 0.1 | 4.20  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 0.53  | 0.30  | 51    | < 0.1 | 13.40 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.36  | 0.20  | 27.90 | < 0.1 | 7.44  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 5.28  | < 0.1 | 1.69  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 0.32  | 0.17  | 22.10 | < 0.1 | 6.12  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 5.7   | 4.2   | 590   | < 1.6 | 188   |

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

A - No Sampling Date Provided



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| Soil Analysis Certificate - Speciated PAHs   |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH9                 | BH9                 | BH10                | BH11                | BH13                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.25                | 0.75                | 0.50                | 1.00                | 0.50                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623355 <sup>A</sup> | 623356 <sup>A</sup> | 623357 <sup>A</sup> | 623358 <sup>A</sup> | 623359 <sup>A</sup> |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.66  | < 0.1 | 0.75  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.36  | < 0.1 | 0.22  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 0.19  | < 0.1 | 3.20  | < 0.1 | 2.55  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.16  | < 0.1 | 2.96  | < 0.1 | 2.17  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.33  | < 0.1 | 1.65  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.57  | < 0.1 | 1.70  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.16  | < 0.1 | 1.25  | < 0.1 | 2.63  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.35  | < 0.1 | 0.70  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.07  | < 0.1 | 2.22  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.61  | < 0.1 | 1.67  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.14  | < 0.1 | 0.38  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.43  | < 0.1 | 1.40  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | < 1.6 | 13.9  | < 1.6 | 18    |



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| Soil Analysis Certificate - Speciated PAHs              |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH16                | BH18                | BH19                | BH21                | BH23                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623360 <sup>A</sup> | 623361 <sup>A</sup> | 623362 <sup>A</sup> | 623363 <sup>A</sup> | 623364 <sup>A</sup> |

| Determinand            | Unit  | RL    | Accreditation | (n)   |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.58  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | 0.41  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.79  | 0.14  | 6.45  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.23  | < 0.1 | 1.77  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 2.11  | 0.32  | 14.20 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.85  | 0.29  | 10.70 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.09  | 0.15  | 6.06  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.23  | 0.15  | 5.05  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.65  | 0.21  | 6.66  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.67  | < 0.1 | 2.27  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 1.51  | 0.17  | 6.26  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.98  | 0.14  | 2.96  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.20  | < 0.1 | 0.67  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.81  | < 0.1 | 2.12  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | < 1.6 | 13.1  | < 1.6 | 66.2  |



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| Soil Analysis Certificate - Speciated PAHs   |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH26                | BH28                | BH28                | BH29                | BH31                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.25                | 0.50                | 1.00                | 0.75                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623365 <sup>A</sup> | 623366 <sup>A</sup> | 623367 <sup>A</sup> | 623368 <sup>A</sup> | 623369 <sup>A</sup> |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.28  | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.13  | 0.55  | 0.33  | < 0.1 | < 0.1 |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.12  | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 0.32  | 1.72  | 1.42  | 0.32  | < 0.1 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 0.29  | 1.59  | 1.25  | 0.27  | < 0.1 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 0.17  | 0.78  | 0.73  | 0.17  | < 0.1 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 0.20  | 0.92  | 0.88  | 0.18  | < 0.1 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.25  | 1.13  | 1.18  | 0.17  | < 0.1 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.33  | 0.43  | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 0.18  | 0.91  | 0.96  | 0.14  | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.14  | 0.59  | 0.70  | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.14  | 0.14  | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.44  | 0.56  | < 0.1 | < 0.1 |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 1.7   | 9.5   | 8.6   | < 1.6 | < 1.6 |



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| Soil Analysis Certificate - Speciated PAHs              |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH33                | BH37                | BH37                | BH38                | BH39                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.75                | 0.50                | 1.50                | 0.50                | 0.50                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623370 <sup>A</sup> | 623371 <sup>A</sup> | 623372 <sup>A</sup> | 623373 <sup>A</sup> | 623374 <sup>A</sup> |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.24  | < 0.1 | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.21  | < 0.1 | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | 2.10  | < 0.1 | 0.20  | 0.14  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.68  | < 0.1 | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | 6.07  | < 0.1 | 0.81  | 0.84  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | < 0.1 | 5.20  | < 0.1 | 0.73  | 0.81  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | 3.45  | < 0.1 | 0.46  | 0.58  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | 2.61  | < 0.1 | 0.51  | 0.55  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | 4.16  | < 0.1 | 0.80  | 0.74  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | < 0.1 | 1.44  | < 0.1 | 0.29  | 0.22  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | 4.13  | < 0.1 | 0.61  | 0.66  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | < 0.1 | 2.44  | < 0.1 | 0.53  | 0.53  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.51  | < 0.1 | 0.11  | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | < 0.1 | 1.94  | < 0.1 | 0.41  | 0.42  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | < 1.6 | 35.2  | < 1.6 | 5.5   | 5.5   |



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| Soil Analysis Certificate - Speciated PAHs   |                 |                     |                     |                     |                     |  |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|--|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Site Reference: Arb DC                       | TP / BH No      | BH40                | BH42                | BH42                | BH43                |  |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.25                | 0.75                | 0.75                |  |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623375 <sup>A</sup> | 623376 <sup>A</sup> | 623377 <sup>A</sup> | 623378 <sup>A</sup> |  |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |  |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|--|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 |  |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.11  | < 0.1 | < 0.1 |  |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.37  | < 0.1 | < 0.1 |  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | 0.31  | < 0.1 | < 0.1 |  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.93  | 3.79  | < 0.1 | < 0.1 |  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | 0.27  | 1.36  | < 0.1 | < 0.1 |  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 3.01  | 18.70 | < 0.1 | 0.22  |  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 2.79  | 16.20 | < 0.1 | 0.21  |  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 1.75  | 9.28  | < 0.1 | 0.14  |  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 1.60  | 7.88  | < 0.1 | 0.13  |  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 2.20  | 14.70 | < 0.1 | 0.16  |  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.71  | 4.65  | < 0.1 | < 0.1 |  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 1.96  | 13.30 | < 0.1 | 0.15  |  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 1.25  | 7.01  | < 0.1 | < 0.1 |  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | 0.29  | 1.62  | < 0.1 | < 0.1 |  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 0.99  | 5.23  | < 0.1 | < 0.1 |  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 17.7  | 105   | < 1.6 | < 1.6 |  |



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH1                 | BH2                 | BH4                 | BH5                 | BH7                 |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 1.20                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623350 <sup>A</sup> | 623351 <sup>A</sup> | 623352 <sup>A</sup> | 623353 <sup>A</sup> | 623354 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation | (n)    |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | 24     | < 2    | 7      | 7      |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | < 3    | < 3    | 199    | < 3    | 65     | 65     |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | < 10   | < 10   | 319    | < 10   | 88     | 88     |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | < 21   | < 21   | 542    | < 21   | 160    | 160    |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | < 42   | 542    | < 42   | 160    | 160    |

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

A - No Sampling Date Provided



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH9                 | BH9                 | BH10                | BH11                | BH13                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.25                | 0.75                | 0.50                | 1.00                | 0.50                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623355 <sup>A</sup> | 623356 <sup>A</sup> | 623357 <sup>A</sup> | 623358 <sup>A</sup> | 623359 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | < 3    | < 3    | 6      | < 3    | < 3    |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | < 42   |



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH16                | BH18                | BH19                | BH21                | BH23                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623360 <sup>A</sup> | 623361 <sup>A</sup> | 623362 <sup>A</sup> | 623363 <sup>A</sup> | 623364 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation | (n)    |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | 4      |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | < 3    | < 3    | 4      | < 3    | 33     |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | < 10   | < 10   | 43     | < 10   | 45     |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | < 21   | < 21   | 47     | < 21   | 82     |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | < 42   | 47     | < 42   | 82     |



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH26                | BH28                | BH28                | BH29                | BH31                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.25                | 0.50                | 1.00                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623365 <sup>A</sup> | 623366 <sup>A</sup> | 623367 <sup>A</sup> | 623368 <sup>A</sup> | 623369 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | 4      | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | < 3    | 11     | 6      | < 3    | < 3    |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | < 10   | 15     | 19     | < 10   | < 10   |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | < 21   | 29     | 25     | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | < 42   |



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH33                | BH37                | BH37                | BH38                | BH39                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.75                | 0.50                | 1.50                | 0.50                | 0.50                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623370 <sup>A</sup> | 623371 <sup>A</sup> | 623372 <sup>A</sup> | 623373 <sup>A</sup> | 623374 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | 3      | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | < 3    | 31     | < 3    | 3      | 3      |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | < 10   | 69     | < 10   | < 10   | 13     |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | < 21   | 103    | < 21   | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | 103    | < 42   | < 42   | < 42   |



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                         |                        |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH40                | BH42                | BH42                | BH43                |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.25                | 0.75                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623375 <sup>A</sup> | 623376 <sup>A</sup> | 623377 <sup>A</sup> | 623378 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | 13     | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | 12     | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | 24     | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | 4      | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 16     | 63     | < 3    | < 3    |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 39     | 147    | < 10   | < 10   |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 55     | 214    | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | 55     | 238    | < 42   | < 42   |



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| Soil Analysis Certificate - BTEX / MTBE                 |                        |                     |                     |                     |                     |                     |
|---------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 22-10295</b>                         | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental L</b> | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arb DC</b>                           | <b>TP / BH No</b>      | BH1                 | BH2                 | BH4                 | BH5                 | BH7                 |
| <b>Project / Job Ref: None Supplied</b>                 | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                          | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 1.20                | 0.75                |
| <b>Reporting Date: 16/12/2022</b>                       | <b>DETS Sample No</b>  | 623350 <sup>A</sup> | 623351 <sup>A</sup> | 623352 <sup>A</sup> | 623353 <sup>A</sup> | 623354 <sup>A</sup> |

| Determinand  | Unit  | RL  | Accreditation | (n) |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |

(n) Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation

A - No Sampling Date Provided



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH9                 | BH9                 | BH10                | BH11                | BH13                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.25                | 0.75                | 0.50                | 1.00                | 0.50                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623355 <sup>A</sup> | 623356 <sup>A</sup> | 623357 <sup>A</sup> | 623358 <sup>A</sup> | 623359 <sup>A</sup> |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH16                | BH18                | BH19                | BH21                | BH23                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623360 <sup>A</sup> | 623361 <sup>A</sup> | 623362 <sup>A</sup> | 623363 <sup>A</sup> | 623364 <sup>A</sup> |

| Determinand  | Unit  | RL  | Accreditation | (n) |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH26                | BH28                | BH28                | BH29                | BH31                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.25                | 0.50                | 1.00                | 0.75                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623365 <sup>A</sup> | 623366 <sup>A</sup> | 623367 <sup>A</sup> | 623368 <sup>A</sup> | 623369 <sup>A</sup> |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arb DC                       | TP / BH No      | BH33                | BH37                | BH37                | BH38                | BH39                |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.75                | 0.50                | 1.50                | 0.50                | 0.50                |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623370 <sup>A</sup> | 623371 <sup>A</sup> | 623372 <sup>A</sup> | 623373 <sup>A</sup> | 623374 <sup>A</sup> |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |  |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|--|
| DETS Report No: 22-10295                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Site Reference: Arb DC                       | TP / BH No      | BH40                | BH42                | BH42                | BH43                |  |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       |  |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.25                | 0.75                | 0.75                |  |
| Reporting Date: 16/12/2022                   | DETS Sample No  | 623375 <sup>A</sup> | 623376 <sup>A</sup> | 623377 <sup>A</sup> | 623378 <sup>A</sup> |  |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |



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### Soil Analysis Certificate - Sample Descriptions

|                                                           |
|-----------------------------------------------------------|
| <b>DETS Report No: 22-10295</b>                           |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b> |
| <b>Site Reference: Arb DC</b>                             |
| <b>Project / Job Ref: None Supplied</b>                   |
| <b>Order No: None Supplied</b>                            |
| <b>Reporting Date: 16/12/2022</b>                         |

| DETS Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description                    |
|----------------|------------|-----------------|-----------|----------------------|----------------------------------------------|
| ^ 623350       | BH1        | None Supplied   | 0.50      | 17.5                 | Brown sandy clay                             |
| ^ 623351       | BH2        | None Supplied   | 0.50      | 13.6                 | Brown sandy gravel with stones and concrete  |
| ^ 623352       | BH4        | None Supplied   | 0.50      | 8.4                  | Brown gravelly sand with stones and concrete |
| ^ 623353       | BH5        | None Supplied   | 1.20      | 12.8                 | Brown gravelly sand with stones              |
| ^ 623354       | BH7        | None Supplied   | 0.75      | 11.8                 | Brown sandy gravel with stones and concrete  |
| ^ 623355       | BH9        | None Supplied   | 0.25      | 17.4                 | Brown sandy clay with stones                 |
| ^ 623356       | BH9        | None Supplied   | 0.75      | 10                   | Brown sandy clay                             |
| ^ 623357       | BH10       | None Supplied   | 0.50      | 13.5                 | Brown sandy clay                             |
| ^ 623358       | BH11       | None Supplied   | 1.00      | 19.7                 | Brown sandy clay with stones                 |
| ^ 623359       | BH13       | None Supplied   | 0.50      | 10.1                 | Brown sandy clay                             |
| ^ 623360       | BH16       | None Supplied   | 0.50      | 12.7                 | Brown sandy clay with stones                 |
| ^ 623361       | BH18       | None Supplied   | 0.50      | 13.9                 | Brown sandy clay with stones                 |
| ^ 623362       | BH19       | None Supplied   | 0.50      | 13.1                 | Brown sandy clay with stones and concrete    |
| ^ 623363       | BH21       | None Supplied   | 0.25      | 13.1                 | Brown sandy clay with stones                 |
| ^ 623364       | BH23       | None Supplied   | 0.25      | 10.7                 | Brown sandy gravel with stones and concrete  |
| ^ 623365       | BH26       | None Supplied   | 0.50      | 13.2                 | Brown sandy clay with stones and brick       |
| ^ 623366       | BH28       | None Supplied   | 0.25      | 15.7                 | Brown sandy clay with stones and concrete    |
| ^ 623367       | BH28       | None Supplied   | 0.50      | 19                   | Brown sandy clay with stones                 |
| ^ 623368       | BH29       | None Supplied   | 1.00      | 15.2                 | Brown sandy clay with stones                 |
| ^ 623369       | BH31       | None Supplied   | 0.75      | 12.4                 | Brown sandy clay with stones                 |
| ^ 623370       | BH33       | None Supplied   | 0.75      | 13.3                 | Brown sandy clay                             |
| ^ 623371       | BH37       | None Supplied   | 0.50      | 13.1                 | Brown sandy clay                             |
| ^ 623372       | BH37       | None Supplied   | 1.50      | 19.7                 | Brown sandy clay                             |
| ^ 623373       | BH38       | None Supplied   | 0.50      | 11.5                 | Black sandy clay with stones and concrete    |
| ^ 623374       | BH39       | None Supplied   | 0.50      | 16.5                 | Brown sandy clay with stones                 |
| ^ 623375       | BH40       | None Supplied   | 0.50      | 12.6                 | Brown sandy clay with stones and brick       |
| ^ 623376       | BH42       | None Supplied   | 0.25      | 12.4                 | Black sandy clay with stones and concrete    |
| ^ 623377       | BH42       | None Supplied   | 0.75      | 10.7                 | Brown sandy clay with stones                 |
| ^ 623378       | BH43       | None Supplied   | 0.75      | 14.4                 | Brown sandy clay                             |

*Moisture content is part of procedure E003 & is not an accredited test*

Insufficient Sample <sup>1/5</sup>

Unsuitable Sample <sup>1/5</sup>

^ no sampling date provided; unable to confirm if samples are within acceptable holding times



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| <b>Soil Analysis Certificate - Methodology &amp; Miscellaneous Information</b> |  |
|--------------------------------------------------------------------------------|--|
| <b>DETS Report No: 22-10295</b>                                                |  |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b>                      |  |
| <b>Site Reference: Arb DC</b>                                                  |  |
| <b>Project / Job Ref: None Supplied</b>                                        |  |
| <b>Order No: None Supplied</b>                                                 |  |
| <b>Reporting Date: 16/12/2022</b>                                              |  |

| Matrix | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                             | Method No |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Soil   | D           | Boron - Water Soluble                                                                                                                           | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES                                                            | E012      |
| Soil   | AR          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                             | E001      |
| Soil   | D           | Cations                                                                                                                                         | Determination of cations in soil by aqua-regia digestion followed by ICP-OES                                                                         | E002      |
| Soil   | D           | Chloride - Water Soluble (2:1)                                                                                                                  | Determination of chloride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | AR          | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016      |
| Soil   | AR          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                             | E015      |
| Soil   | AR          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                                | E015      |
| Soil   | AR          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                               | E015      |
| Soil   | D           | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through extraction with cyclohexane                                                                                       | E011      |
| Soil   | AR          | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of hexane/acetone extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement                             | E022      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of water followed by electrometric measurement                                                  | E023      |
| Soil   | D           | Elemental Sulphur                                                                                                                               | Determination of elemental sulphur by solvent extraction followed by GC-MS                                                                           | E020      |
| Soil   | AR          | EPH (C10 - C40)                                                                                                                                 | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH Product ID                                                                                                                                  | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                                        | E004      |
| Soil   | D           | Fluoride - Water Soluble                                                                                                                        | Determination of Fluoride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Fraction Organic Carbon (FOC)                                                                                                                   | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | Organic Matter (SOM)                                                                                                                            | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | TOC (Total Organic Carbon)                                                                                                                      | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | AR          | Exchangeable Ammonium                                                                                                                           | Determination of ammonium by discrete analyser.                                                                                                      | E029      |
| Soil   | D           | FOC (Fraction Organic Carbon)                                                                                                                   | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate                     | E010      |
| Soil   | D           | Loss on Ignition @ 450oC                                                                                                                        | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                                       | E019      |
| Soil   | D           | Magnesium - Water Soluble                                                                                                                       | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                                | E025      |
| Soil   | D           | Metals                                                                                                                                          | Determination of metals by aqua-regia digestion followed by ICP-OES                                                                                  | E002      |
| Soil   | AR          | Mineral Oil (C10 - C40)                                                                                                                         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | Moisture Content                                                                                                                                | Moisture content; determined gravimetrically                                                                                                         | E003      |
| Soil   | D           | Nitrate - Water Soluble (2:1)                                                                                                                   | Determination of nitrate by extraction with water & analysed by ion chromatography                                                                   | E009      |
| Soil   | D           | Organic Matter                                                                                                                                  | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards                | E005      |
| Soil   | AR          | PCB - 7 Congeners                                                                                                                               | Determination of PCB by extraction with acetone and hexane followed by GC-MS                                                                         | E008      |
| Soil   | D           | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through extraction with petroleum ether                                                                                   | E011      |
| Soil   | AR          | pH                                                                                                                                              | Determination of pH by addition of water followed by electrometric measurement                                                                       | E007      |
| Soil   | AR          | Phenols - Total (monohydric)                                                                                                                    | Determination of phenols by distillation followed by colorimetry                                                                                     | E021      |
| Soil   | D           | Phosphate - Water Soluble (2:1)                                                                                                                 | Determination of phosphate by extraction with water & analysed by ion chromatography                                                                 | E009      |
| Soil   | D           | Sulphate (as SO4) - Total                                                                                                                       | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES                                                                       | E013      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of sulphate by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of water soluble sulphate by extraction with water followed by ICP-OES                                                                 | E014      |
| Soil   | AR          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                                    | E018      |
| Soil   | D           | Sulphur - Total                                                                                                                                 | Determination of total sulphur by extraction with aqua-regia followed by ICP-OES                                                                     | E024      |
| Soil   | AR          | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS                                               | E006      |
| Soil   | AR          | Thiocyanate (as SCN)                                                                                                                            | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry  | E017      |
| Soil   | D           | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through extraction with toluene                                                                                           | E011      |
| Soil   | D           | Total Organic Carbon (TOC)                                                                                                                      | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                                       | E001      |
| Soil   | AR          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                            | E001      |

**D Dried**  
**AR As Received**



Dominic Brightman  
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Kent  
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t: 01622 850410

## **DETS Report No: 23-04394**

**Site Reference:** Arborfield District Centre Sainsburys

**Project / Job Ref:** None Supplied

**Order No:** None Supplied

**Sample Receipt Date:** 29/03/2023

**Sample Scheduled Date:** 29/03/2023

**Report Issue Number:** 1

**Reporting Date:** 05/04/2023

**Authorised by:**

Kevin Old  
Operations Director

Dates of laboratory activities for each tested analyte are available upon request.

Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.



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**Maidstone**  
**Kent ME17 2JN**  
**Tel : 01622 850410**



| Soil Analysis Certificate                                    |                        |                     |                     |                     |                     |                     |
|--------------------------------------------------------------|------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>DETS Report No: 23-04394</b>                              | <b>Date Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Wilson Bailey Geotechnical &amp; Environmental Ltd</b>    | <b>Time Sampled</b>    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Site Reference: Arborfield District Centre Sainsburys</b> | <b>TP / BH No</b>      | WS01                | WS02                | WS03                | WS04                | WS05                |
| <b>Project / Job Ref: None Supplied</b>                      | <b>Additional Refs</b> | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| <b>Order No: None Supplied</b>                               | <b>Depth (m)</b>       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| <b>Reporting Date: 05/04/2023</b>                            | <b>DETS Sample No</b>  | 643929 <sup>A</sup> | 643930 <sup>A</sup> | 643931 <sup>A</sup> | 643932 <sup>A</sup> | 643933 <sup>A</sup> |

| Determinand                            | Unit          | RL      | Accreditation |                               |                               |              |              |              |
|----------------------------------------|---------------|---------|---------------|-------------------------------|-------------------------------|--------------|--------------|--------------|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Detected                      | Detected                      | Not Detected | Not Detected | Not Detected |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          | Chrysotile present in bundles | Chrysotile present in bundles |              |              |              |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      | Chrysotile                    | Chrysotile                    |              |              |              |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      | < 0.001                       | < 0.001                       |              |              |              |
| pH                                     | pH Units      | N/a     | MCERTS        | 8.0                           | 8.0                           | 7.9          | 7.3          | 7.8          |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 2                             | 1.9                           | 0.7          | 2.1          | 0.4          |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 10                            | 11                            | 7            | 7            | 9            |
| W/S Boron                              | mg/kg         | < 1     | NONE          | 1.2                           | < 1                           | < 1          | < 1          | < 1          |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2                         | 0.5                           | 0.2          | < 0.2        | < 0.2        |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 18                            | 16                            | 17           | 15           | 21           |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2                           | < 2                           | < 2          | < 2          | < 2          |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 22                            | 65                            | 44           | 11           | 11           |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 54                            | 99                            | 54           | 36           | 16           |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1                           | < 1                           | < 1          | < 1          | < 1          |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 11                            | 10                            | 9            | 6            | 18           |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 2                           | < 2                           | < 2          | < 2          | < 2          |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 91                            | 193                           | 82           | 70           | 44           |
| Total Phenols (monohydric)             | mg/kg         | < 2     | NONE          | < 2                           | < 2                           | < 2          | < 2          | < 2          |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)  
A - No Sampling Date Provided



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| Soil Analysis Certificate                             |                 |                     |  |  |  |  |
|-------------------------------------------------------|-----------------|---------------------|--|--|--|--|
| DETS Report No: 23-04394                              | Date Sampled    | None Supplied       |  |  |  |  |
| Wilson Bailey Geotechnical & Environmental Ltd        | Time Sampled    | None Supplied       |  |  |  |  |
| Site Reference: Arborfield District Centre Sainsburys | TP / BH No      | WS05                |  |  |  |  |
| Project / Job Ref: None Supplied                      | Additional Refs | None Supplied       |  |  |  |  |
| Order No: None Supplied                               | Depth (m)       | 0.75                |  |  |  |  |
| Reporting Date: 05/04/2023                            | DETS Sample No  | 643934 <sup>A</sup> |  |  |  |  |

| Determinand                            | Unit          | RL      | Accreditation |              |  |  |  |
|----------------------------------------|---------------|---------|---------------|--------------|--|--|--|
| Asbestos Screen <sup>(S)</sup>         | N/a           | N/a     | ISO17025      | Not Detected |  |  |  |
| Sample Matrix <sup>(S)</sup>           | Material Type | N/a     | NONE          |              |  |  |  |
| Asbestos Type <sup>(S)</sup>           | PLM Result    | N/a     | ISO17025      |              |  |  |  |
| Asbestos Quantification <sup>(S)</sup> | %             | < 0.001 | ISO17025      |              |  |  |  |
| pH                                     | pH Units      | N/a     | MCERTS        | 7.4          |  |  |  |
| TOC (Total Organic Carbon)             | %             | < 0.1   | MCERTS        | 2.9          |  |  |  |
| Arsenic (As)                           | mg/kg         | < 2     | MCERTS        | 7            |  |  |  |
| W/S Boron                              | mg/kg         | < 1     | NONE          | < 1          |  |  |  |
| Cadmium (Cd)                           | mg/kg         | < 0.2   | MCERTS        | < 0.2        |  |  |  |
| Chromium (Cr)                          | mg/kg         | < 2     | MCERTS        | 16           |  |  |  |
| Chromium (hexavalent)                  | mg/kg         | < 2     | NONE          | < 2          |  |  |  |
| Copper (Cu)                            | mg/kg         | < 4     | MCERTS        | 11           |  |  |  |
| Lead (Pb)                              | mg/kg         | < 3     | MCERTS        | 19           |  |  |  |
| Mercury (Hg)                           | mg/kg         | < 1     | MCERTS        | < 1          |  |  |  |
| Nickel (Ni)                            | mg/kg         | < 3     | MCERTS        | 7            |  |  |  |
| Selenium (Se)                          | mg/kg         | < 2     | MCERTS        | < 2          |  |  |  |
| Zinc (Zn)                              | mg/kg         | < 3     | MCERTS        | 29           |  |  |  |
| Total Phenols (monohydric)             | mg/kg         | < 2     | NONE          | < 2          |  |  |  |

Analytical results are expressed on a dry weight basis where samples are assisted-dried at less than 30°C. The Method Description page describes if the test is performed on the dried or as-received portion  
Subcontracted analysis (S)



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| Soil Analysis Certificate - Speciated PAHs   |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 23-04394                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arborfield District Centre   | TP / BH No      | WS01                | WS02                | WS03                | WS04                | WS05                |
| Sainsburys                                   | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Project / Job Ref: None Supplied             | Depth (m)       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| Order No: None Supplied                      | DETS Sample No  | 643929 <sup>A</sup> | 643930 <sup>A</sup> | 643931 <sup>A</sup> | 643932 <sup>A</sup> | 643933 <sup>A</sup> |
| Reporting Date: 05/04/2023                   |                 |                     |                     |                     |                     |                     |

| Determinand            | Unit  | RL    | Accreditation |       |       |       |       |       |
|------------------------|-------|-------|---------------|-------|-------|-------|-------|-------|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.18  | < 0.1 | < 0.1 |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | < 0.1 | < 0.1 | 0.13  | < 0.1 | < 0.1 |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 0.77  | 0.17  | 1.84  | < 0.1 | < 0.1 |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | 0.30  | < 0.1 | 0.45  | < 0.1 | < 0.1 |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 2.90  | 0.71  | 1.89  | 0.42  | < 0.1 |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 2.75  | 0.66  | 1.44  | 0.37  | < 0.1 |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 1.64  | 0.41  | 0.69  | 0.19  | < 0.1 |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 1.45  | 0.46  | 0.62  | 0.21  | < 0.1 |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 2.01  | 0.78  | 0.57  | 0.24  | < 0.1 |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.74  | 0.26  | 0.21  | < 0.1 | < 0.1 |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 1.81  | 0.64  | 0.47  | 0.19  | < 0.1 |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.96  | 0.47  | 0.24  | < 0.1 | < 0.1 |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | 0.18  | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 0.82  | 0.41  | 0.19  | < 0.1 | < 0.1 |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 16.3  | 5     | 8.9   | 1.6   | < 1.6 |

A - No Sampling Date Provided



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| Soil Analysis Certificate - Speciated PAHs   |                 |                     |  |  |  |  |
|----------------------------------------------|-----------------|---------------------|--|--|--|--|
| DETS Report No: 23-04394                     | Date Sampled    | None Supplied       |  |  |  |  |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       |  |  |  |  |
| Site Reference: Arborfield District Centre   | TP / BH No      | WS05                |  |  |  |  |
| Sainsburys                                   | Additional Refs | None Supplied       |  |  |  |  |
| Project / Job Ref: None Supplied             | Depth (m)       | 0.75                |  |  |  |  |
| Order No: None Supplied                      | DETS Sample No  | 643934 <sup>A</sup> |  |  |  |  |
| Reporting Date: 05/04/2023                   |                 |                     |  |  |  |  |

| Determinand            | Unit  | RL    | Accreditation |       |  |  |  |
|------------------------|-------|-------|---------------|-------|--|--|--|
| Naphthalene            | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Acenaphthylene         | mg/kg | < 0.1 | MCERTS        | < 0.1 |  |  |  |
| Acenaphthene           | mg/kg | < 0.1 | MCERTS        | 0.15  |  |  |  |
| Fluorene               | mg/kg | < 0.1 | MCERTS        | 0.14  |  |  |  |
| Phenanthrene           | mg/kg | < 0.1 | MCERTS        | 1.15  |  |  |  |
| Anthracene             | mg/kg | < 0.1 | MCERTS        | 0.41  |  |  |  |
| Fluoranthene           | mg/kg | < 0.1 | MCERTS        | 3.32  |  |  |  |
| Pyrene                 | mg/kg | < 0.1 | MCERTS        | 2.59  |  |  |  |
| Benzo(a)anthracene     | mg/kg | < 0.1 | MCERTS        | 1.59  |  |  |  |
| Chrysene               | mg/kg | < 0.1 | MCERTS        | 1.49  |  |  |  |
| Benzo(b)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 1.97  |  |  |  |
| Benzo(k)fluoranthene   | mg/kg | < 0.1 | MCERTS        | 0.64  |  |  |  |
| Benzo(a)pyrene         | mg/kg | < 0.1 | MCERTS        | 1.60  |  |  |  |
| Indeno(1,2,3-cd)pyrene | mg/kg | < 0.1 | MCERTS        | 0.99  |  |  |  |
| Dibenz(a,h)anthracene  | mg/kg | < 0.1 | MCERTS        | 0.23  |  |  |  |
| Benzo(ghi)perylene     | mg/kg | < 0.1 | MCERTS        | 0.90  |  |  |  |
| Total EPA-16 PAHs      | mg/kg | < 1.6 | MCERTS        | 17.2  |  |  |  |



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# Soil Analysis Certificate - TPH CWG Banded

|                                              |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 23-04394                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arborfield District Centre   | TP / BH No      | WS01                | WS02                | WS03                | WS04                | WS05                |
| Sainsburys                                   |                 |                     |                     |                     |                     |                     |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Order No: None Supplied                      | Depth (m)       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| Reporting Date: 05/04/2023                   | DETS Sample No  | 643929 <sup>A</sup> | 643930 <sup>A</sup> | 643931 <sup>A</sup> | 643932 <sup>A</sup> | 643933 <sup>A</sup> |

| Determinand          | Unit  | RL     | Accreditation |        |        |        |        |        |
|----------------------|-------|--------|---------------|--------|--------|--------|--------|--------|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    | < 3    | < 3    | < 3    | < 3    |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   | < 10   | < 10   | < 10   | < 10   |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   | < 21   | < 21   | < 21   | < 21   |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    | < 2    | < 2    | < 2    | < 2    |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 8      | < 3    | 7      | < 3    | < 3    |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 22     | 31     | < 10   | < 10   | < 10   |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 30     | 31     | < 21   | < 21   | < 21   |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   | < 42   | < 42   | < 42   | < 42   |

A - No Sampling Date Provided



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**Soil Analysis Certificate - TPH CWG Banded**

|                                                       |                 |                     |  |  |  |  |
|-------------------------------------------------------|-----------------|---------------------|--|--|--|--|
| DETS Report No: 23-04394                              | Date Sampled    | None Supplied       |  |  |  |  |
| Wilson Bailey Geotechnical & Environmental L          | Time Sampled    | None Supplied       |  |  |  |  |
| Site Reference: Arborfield District Centre Sainsburys | TP / BH No      | WS05                |  |  |  |  |
| Project / Job Ref: None Supplied                      | Additional Refs | None Supplied       |  |  |  |  |
| Order No: None Supplied                               | Depth (m)       | 0.75                |  |  |  |  |
| Reporting Date: 05/04/2023                            | DETS Sample No  | 643934 <sup>A</sup> |  |  |  |  |

| Determinand          | Unit  | RL     | Accreditation |        |  |  |  |
|----------------------|-------|--------|---------------|--------|--|--|--|
| Aliphatic >C5 - C6   | mg/kg | < 0.01 | NONE          | < 0.01 |  |  |  |
| Aliphatic >C6 - C8   | mg/kg | < 0.05 | NONE          | < 0.05 |  |  |  |
| Aliphatic >C8 - C10  | mg/kg | < 2    | MCERTS        | < 2    |  |  |  |
| Aliphatic >C10 - C12 | mg/kg | < 2    | MCERTS        | < 2    |  |  |  |
| Aliphatic >C12 - C16 | mg/kg | < 3    | MCERTS        | < 3    |  |  |  |
| Aliphatic >C16 - C21 | mg/kg | < 3    | MCERTS        | < 3    |  |  |  |
| Aliphatic >C21 - C34 | mg/kg | < 10   | MCERTS        | < 10   |  |  |  |
| Aliphatic (C5 - C34) | mg/kg | < 21   | NONE          | < 21   |  |  |  |
| Aromatic >C5 - C7    | mg/kg | < 0.01 | NONE          | < 0.01 |  |  |  |
| Aromatic >C7 - C8    | mg/kg | < 0.05 | NONE          | < 0.05 |  |  |  |
| Aromatic >C8 - C10   | mg/kg | < 2    | MCERTS        | < 2    |  |  |  |
| Aromatic >C10 - C12  | mg/kg | < 2    | MCERTS        | < 2    |  |  |  |
| Aromatic >C12 - C16  | mg/kg | < 2    | MCERTS        | < 2    |  |  |  |
| Aromatic >C16 - C21  | mg/kg | < 3    | MCERTS        | 6      |  |  |  |
| Aromatic >C21 - C35  | mg/kg | < 10   | MCERTS        | 20     |  |  |  |
| Aromatic (C5 - C35)  | mg/kg | < 21   | NONE          | 27     |  |  |  |
| Total >C5 - C35      | mg/kg | < 42   | NONE          | < 42   |  |  |  |



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |                     |                     |                     |                     |
|----------------------------------------------|-----------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| DETS Report No: 23-04394                     | Date Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Site Reference: Arborfield District Centre   | TP / BH No      | WS01                | WS02                | WS03                | WS04                | WS05                |
| Sainsburys                                   | Additional Refs | None Supplied       | None Supplied       | None Supplied       | None Supplied       | None Supplied       |
| Project / Job Ref: None Supplied             | Depth (m)       | 0.50                | 0.50                | 0.50                | 0.25                | 0.25                |
| Order No: None Supplied                      | DETS Sample No  | 643929 <sup>A</sup> | 643930 <sup>A</sup> | 643931 <sup>A</sup> | 643932 <sup>A</sup> | 643933 <sup>A</sup> |
| Reporting Date: 05/04/2023                   |                 |                     |                     |                     |                     |                     |

| Determinand  | Unit  | RL  | Accreditation |     |     |     |     |     |
|--------------|-------|-----|---------------|-----|-----|-----|-----|-----|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 | < 2 | < 2 | < 2 | < 2 |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 | < 5 | < 5 | < 5 | < 5 |

A - No Sampling Date Provided



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| Soil Analysis Certificate - BTEX / MTBE      |                 |                     |  |  |  |  |
|----------------------------------------------|-----------------|---------------------|--|--|--|--|
| DETS Report No: 23-04394                     | Date Sampled    | None Supplied       |  |  |  |  |
| Wilson Bailey Geotechnical & Environmental L | Time Sampled    | None Supplied       |  |  |  |  |
| Site Reference: Arborfield District Centre   | TP / BH No      | WS05                |  |  |  |  |
| Sainsburys                                   |                 |                     |  |  |  |  |
| Project / Job Ref: None Supplied             | Additional Refs | None Supplied       |  |  |  |  |
| Order No: None Supplied                      | Depth (m)       | 0.75                |  |  |  |  |
| Reporting Date: 05/04/2023                   | DETS Sample No  | 643934 <sup>A</sup> |  |  |  |  |

| Determinand  | Unit  | RL  | Accreditation |     |  |  |  |
|--------------|-------|-----|---------------|-----|--|--|--|
| Benzene      | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |
| Toluene      | ug/kg | < 5 | MCERTS        | < 5 |  |  |  |
| Ethylbenzene | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |
| p & m-xylene | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |
| o-xylene     | ug/kg | < 2 | MCERTS        | < 2 |  |  |  |
| MTBE         | ug/kg | < 5 | MCERTS        | < 5 |  |  |  |



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#### Soil Analysis Certificate - Sample Descriptions

DETS Report No: 23-04394

Wilson Bailey Geotechnical & Environmental Ltd

Site Reference: Arborfield District Centre Sainsburys

Project / Job Ref: None Supplied

Order No: None Supplied

Reporting Date: 05/04/2023

| DETS Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description              |
|----------------|------------|-----------------|-----------|----------------------|----------------------------------------|
| ^ 643929       | WS01       | None Supplied   | 0.50      | 14.4                 | Brown sandy clay with stones           |
| ^ 643930       | WS02       | None Supplied   | 0.50      | 12.6                 | Brown sandy clay with brick            |
| ^ 643931       | WS03       | None Supplied   | 0.50      | 11.1                 | Brown sandy clay with stones and brick |
| ^ 643932       | WS04       | None Supplied   | 0.25      | 24.4                 | Brown sandy clay with vegetation       |
| ^ 643933       | WS05       | None Supplied   | 0.25      | 16                   | Brown sandy clay with stones           |
| ^ 643934       | WS05       | None Supplied   | 0.75      | 13.2                 | Brown sandy clay with stones           |

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample <sup>1/5</sup>

Unsuitable Sample <sup>u/s</sup>

^ no sampling date provided; unable to confirm if samples are within acceptable holding times



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# **Soil Analysis Certificate - Methodology & Miscellaneous Information**

**DETS Report No: 23-04394**

**Wilson Bailey Geotechnical & Environmental Ltd**

**Site Reference: Arborfield District Centre Sainsburys**

**Project / Job Ref: None Supplied**

**Order No: None Supplied**

**Reporting Date: 05/04/2023**

| Matrix | Analysed On | Determinand                                                                                                                                     | Brief Method Description                                                                                                                             | Method No |
|--------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Soil   | D           | Boron - Water Soluble                                                                                                                           | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES                                                            | E012      |
| Soil   | AR          | BTEX                                                                                                                                            | Determination of BTEX by headspace GC-MS                                                                                                             | E001      |
| Soil   | D           | Cations                                                                                                                                         | Determination of cations in soil by aqua-regia digestion followed by ICP-OES                                                                         | E002      |
| Soil   | D           | Chloride - Water Soluble (2:1)                                                                                                                  | Determination of chloride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | AR          | Chromium - Hexavalent                                                                                                                           | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016      |
| Soil   | AR          | Cyanide - Complex                                                                                                                               | Determination of complex cyanide by distillation followed by colorimetry                                                                             | E015      |
| Soil   | AR          | Cyanide - Free                                                                                                                                  | Determination of free cyanide by distillation followed by colorimetry                                                                                | E015      |
| Soil   | AR          | Cyanide - Total                                                                                                                                 | Determination of total cyanide by distillation followed by colorimetry                                                                               | E015      |
| Soil   | D           | Cyclohexane Extractable Matter (CEM)                                                                                                            | Gravimetrically determined through extraction with cyclohexane                                                                                       | E011      |
| Soil   | AR          | Diesel Range Organics (C10 - C24)                                                                                                               | Determination of hexane/acetone extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement                             | E022      |
| Soil   | AR          | Electrical Conductivity                                                                                                                         | Determination of electrical conductivity by addition of water followed by electrometric measurement                                                  | E023      |
| Soil   | D           | Elemental Sulphur                                                                                                                               | Determination of elemental sulphur by solvent extraction followed by GC-MS                                                                           | E020      |
| Soil   | AR          | EPH (C10 - C40)                                                                                                                                 | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH Product ID                                                                                                                                  | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH TEXAS (C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C40)                                                                                   | Determination of acetone/hexane extractable hydrocarbons by GC-FID for C8 to C40. C6 to C8 by headspace GC-MS                                        | E004      |
| Soil   | D           | Fluoride - Water Soluble                                                                                                                        | Determination of Fluoride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Fraction Organic Carbon (FOC)                                                                                                                   | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | Organic Matter (SOM)                                                                                                                            | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | D           | TOC (Total Organic Carbon)                                                                                                                      | Determination of TOC by combustion analyser.                                                                                                         | E027      |
| Soil   | AR          | Exchangeable Ammonium                                                                                                                           | Determination of ammonium by discrete analyser.                                                                                                      | E029      |
| Soil   | D           | FOC (Fraction Organic Carbon)                                                                                                                   | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate                     | E010      |
| Soil   | D           | Loss on Ignition @ 450oC                                                                                                                        | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                                       | E019      |
| Soil   | D           | Magnesium - Water Soluble                                                                                                                       | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                                | E025      |
| Soil   | D           | Metals                                                                                                                                          | Determination of metals by aqua-regia digestion followed by ICP-OES                                                                                  | E002      |
| Soil   | AR          | Mineral Oil (C10 - C40)                                                                                                                         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | Moisture Content                                                                                                                                | Moisture content; determined gravimetrically                                                                                                         | E003      |
| Soil   | D           | Nitrate - Water Soluble (2:1)                                                                                                                   | Determination of nitrate by extraction with water & analysed by ion chromatography                                                                   | E009      |
| Soil   | D           | Organic Matter                                                                                                                                  | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | PAH - Speciated (EPA 16)                                                                                                                        | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards                | E005      |
| Soil   | AR          | PCB - 7 Congeners                                                                                                                               | Determination of PCB by extraction with acetone and hexane followed by GC-MS                                                                         | E008      |
| Soil   | D           | Petroleum Ether Extract (PEE)                                                                                                                   | Gravimetrically determined through extraction with petroleum ether                                                                                   | E011      |
| Soil   | AR          | pH                                                                                                                                              | Determination of pH by addition of water followed by electrometric measurement                                                                       | E007      |
| Soil   | AR          | Phenols - Total (monohydric)                                                                                                                    | Determination of phenols by distillation followed by colorimetry                                                                                     | E021      |
| Soil   | D           | Phosphate - Water Soluble (2:1)                                                                                                                 | Determination of phosphate by extraction with water & analysed by ion chromatography                                                                 | E009      |
| Soil   | D           | Sulphate (as SO4) - Total                                                                                                                       | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES                                                                       | E013      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of sulphate by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1)                                                                                                         | Determination of water soluble sulphate by extraction with water followed by ICP-OES                                                                 | E014      |
| Soil   | AR          | Sulphide                                                                                                                                        | Determination of sulphide by distillation followed by colorimetry                                                                                    | E018      |
| Soil   | D           | Sulphur - Total                                                                                                                                 | Determination of total sulphur by extraction with aqua-regia followed by ICP-OES                                                                     | E024      |
| Soil   | AR          | SVOC                                                                                                                                            | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS                                               | E006      |
| Soil   | AR          | Thiocyanate (as SCN)                                                                                                                            | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry  | E017      |
| Soil   | D           | Toluene Extractable Matter (TEM)                                                                                                                | Gravimetrically determined through extraction with toluene                                                                                           | E011      |
| Soil   | D           | Total Organic Carbon (TOC)                                                                                                                      | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | TPH CWG (ali: C5- C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C34, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35)         | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C35. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | TPH LQM (ali: C5-C6, C6-C8, C8-C10, C10-C12, C12-C16, C16-C35, C35-C44, aro: C5-C7, C7-C8, C8-C10, C10-C12, C12-C16, C16-C21, C21-C35, C35-C44) | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge for C8 to C44. C5 to C8 by headspace GC-MS       | E004      |
| Soil   | AR          | VOCs                                                                                                                                            | Determination of volatile organic compounds by headspace GC-MS                                                                                       | E001      |
| Soil   | AR          | VPH (C6-C8 & C8-C10)                                                                                                                            | Determination of hydrocarbons C6-C8 by headspace GC-MS & C8-C10 by GC-FID                                                                            | E001      |

**D Dried**  
**AR As Received**

ARBORFIELD DISTRICT CENTRE, SHEERLANDS ROAD, ARBORFIELD, RG2 9GB

## Order Details

**Date:** 30/08/2022

**Your ref:** db\_CN

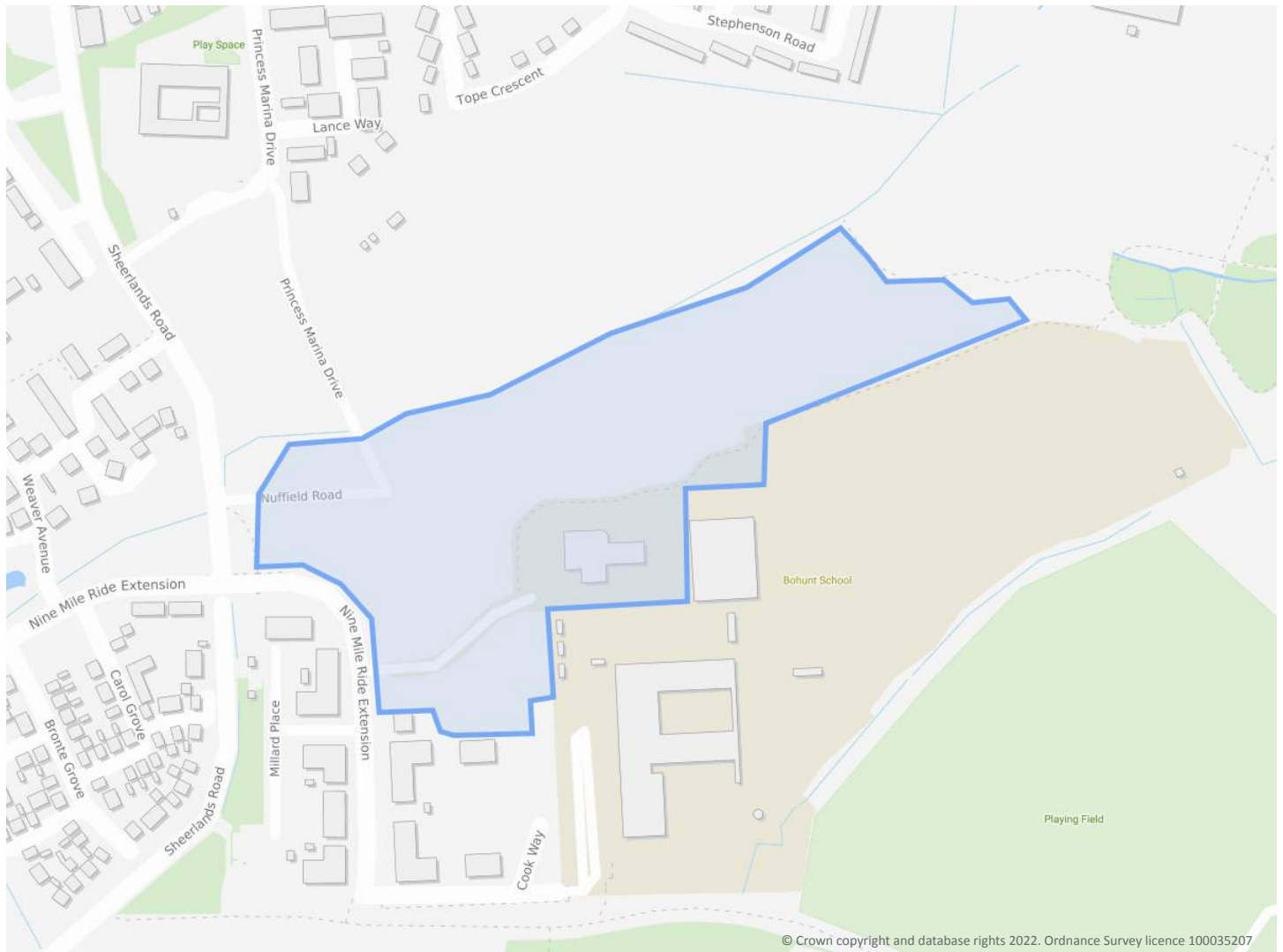
**Our Ref:** GS-9016313

## Site Details

**Location:** 477009 165199

**Area:** 7.16 ha

**Authority:** [Wokingham Borough Council](#)



**Summary of findings**

p. 2 **Aerial image**

p. 8

**OS MasterMap site plan**

p.13 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

## Summary of findings

| Page      | Section    | Past land use                                          | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|-----------|------------|--------------------------------------------------------|---------|-------|---------|----------|-----------|
| <b>14</b> | <b>1.1</b> | <b><u>Historical industrial land uses</u></b>          | 1       | 3     | 10      | 9        | -         |
| <b>15</b> | <b>1.2</b> | <b><u>Historical tanks</u></b>                         | 4       | 0     | 11      | 7        | -         |
| <b>17</b> | <b>1.3</b> | <b><u>Historical energy features</u></b>               | 0       | 0     | 3       | 5        | -         |
| 17        | 1.4        | Historical petrol stations                             | 0       | 0     | 0       | 0        | -         |
| 18        | 1.5        | Historical garages                                     | 0       | 0     | 0       | 0        | -         |
| 18        | 1.6        | Historical military land                               | 0       | 0     | 0       | 0        | -         |
| Page      | Section    | Past land use - un-grouped                             | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>19</b> | <b>2.1</b> | <b><u>Historical industrial land uses</u></b>          | 1       | 5     | 13      | 12       | -         |
| <b>21</b> | <b>2.2</b> | <b><u>Historical tanks</u></b>                         | 7       | 0     | 18      | 13       | -         |
| <b>22</b> | <b>2.3</b> | <b><u>Historical energy features</u></b>               | 0       | 0     | 5       | 9        | -         |
| 23        | 2.4        | Historical petrol stations                             | 0       | 0     | 0       | 0        | -         |
| 23        | 2.5        | Historical garages                                     | 0       | 0     | 0       | 0        | -         |
| Page      | Section    | Waste and landfill                                     | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 24        | 3.1        | Active or recent landfill                              | 0       | 0     | 0       | 0        | -         |
| 24        | 3.2        | Historical landfill (BGS records)                      | 0       | 0     | 0       | 0        | -         |
| <b>25</b> | <b>3.3</b> | <b><u>Historical landfill (LA/mapping records)</u></b> | 0       | 0     | 0       | 1        | -         |
| <b>25</b> | <b>3.4</b> | <b><u>Historical landfill (EA/NRW records)</u></b>     | 0       | 0     | 0       | 3        | -         |
| 26        | 3.5        | Historical waste sites                                 | 0       | 0     | 0       | 0        | -         |
| 26        | 3.6        | Licensed waste sites                                   | 0       | 0     | 0       | 0        | -         |
| <b>26</b> | <b>3.7</b> | <b><u>Waste exemptions</u></b>                         | 0       | 0     | 2       | 11       | -         |
| Page      | Section    | Current industrial land use                            | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>28</b> | <b>4.1</b> | <b><u>Recent industrial land uses</u></b>              | 1       | 0     | 7       | -        | -         |
| 29        | 4.2        | Current or recent petrol stations                      | 0       | 0     | 0       | 0        | -         |
| 29        | 4.3        | Electricity cables                                     | 0       | 0     | 0       | 0        | -         |
| 29        | 4.4        | Gas pipelines                                          | 0       | 0     | 0       | 0        | -         |
| 30        | 4.5        | Sites determined as Contaminated Land                  | 0       | 0     | 0       | 0        | -         |



| 30        | 4.6         | Control of Major Accident Hazards (COMAH)              | 0                        | 0     | 0       | 0        | -         |
|-----------|-------------|--------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 30        | 4.7         | Regulated explosive sites                              | 0                        | 0     | 0       | 0        | -         |
| 30        | 4.8         | Hazardous substance storage/usage                      | 0                        | 0     | 0       | 0        | -         |
| 30        | 4.9         | Historical licensed industrial activities (IPC)        | 0                        | 0     | 0       | 0        | -         |
| 31        | 4.10        | Licensed industrial activities (Part A(1))             | 0                        | 0     | 0       | 0        | -         |
| <b>31</b> | <b>4.11</b> | <b><u>Licensed pollutant release (Part A(2)/B)</u></b> | 0                        | 0     | 0       | 1        | -         |
| 31        | 4.12        | Radioactive Substance Authorisations                   | 0                        | 0     | 0       | 0        | -         |
| <b>31</b> | <b>4.13</b> | <b><u>Licensed Discharges to controlled waters</u></b> | 0                        | 0     | 0       | 1        | -         |
| 32        | 4.14        | Pollutant release to surface waters (Red List)         | 0                        | 0     | 0       | 0        | -         |
| 32        | 4.15        | Pollutant release to public sewer                      | 0                        | 0     | 0       | 0        | -         |
| 32        | 4.16        | List 1 Dangerous Substances                            | 0                        | 0     | 0       | 0        | -         |
| 32        | 4.17        | List 2 Dangerous Substances                            | 0                        | 0     | 0       | 0        | -         |
| <b>33</b> | <b>4.18</b> | <b><u>Pollution Incidents (EA/NRW)</u></b>             | 0                        | 0     | 0       | 1        | -         |
| 33        | 4.19        | Pollution inventory substances                         | 0                        | 0     | 0       | 0        | -         |
| 33        | 4.20        | Pollution inventory waste transfers                    | 0                        | 0     | 0       | 0        | -         |
| 33        | 4.21        | Pollution inventory radioactive waste                  | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrogeology                                           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>34</b> | <b>5.1</b>  | <b><u>Superficial aquifer</u></b>                      | Identified (within 500m) |       |         |          |           |
| <b>35</b> | <b>5.2</b>  | <b><u>Bedrock aquifer</u></b>                          | Identified (within 500m) |       |         |          |           |
| <b>37</b> | <b>5.3</b>  | <b><u>Groundwater vulnerability</u></b>                | Identified (within 50m)  |       |         |          |           |
| 39        | 5.4         | Groundwater vulnerability- soluble rock risk           | None (within 0m)         |       |         |          |           |
| 39        | 5.5         | Groundwater vulnerability- local information           | None (within 0m)         |       |         |          |           |
| <b>40</b> | <b>5.6</b>  | <b><u>Groundwater abstractions</u></b>                 | 0                        | 0     | 0       | 0        | 2         |
| 41        | 5.7         | Surface water abstractions                             | 0                        | 0     | 0       | 0        | 0         |
| 41        | 5.8         | Potable abstractions                                   | 0                        | 0     | 0       | 0        | 0         |
| 42        | 5.9         | Source Protection Zones                                | 0                        | 0     | 0       | 0        | -         |
| 42        | 5.10        | Source Protection Zones (confined aquifer)             | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrology                                              | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>43</b> | <b>6.1</b>  | <b><u>Water Network (OS MasterMap)</u></b>             | 0                        | 10    | 31      | -        | -         |



| 47   | 6.2     | <u>Surface water features</u>                      | 0                                            | 5     | 20      | -        | -         |
|------|---------|----------------------------------------------------|----------------------------------------------|-------|---------|----------|-----------|
| 47   | 6.3     | <u>WFD Surface water body catchments</u>           | 1                                            | -     | -       | -        | -         |
| 47   | 6.4     | <u>WFD Surface water bodies</u>                    | 0                                            | 0     | 0       | -        | -         |
| 48   | 6.5     | WFD Groundwater bodies                             | 0                                            | -     | -       | -        | -         |
| Page | Section | River and coastal flooding                         | On site                                      | 0-50m | 50-250m | 250-500m | 500-2000m |
| 49   | 7.1     | Risk of flooding from rivers and the sea           | None (within 50m)                            |       |         |          |           |
| 49   | 7.2     | Historical Flood Events                            | 0                                            | 0     | 0       | -        | -         |
| 49   | 7.3     | Flood Defences                                     | 0                                            | 0     | 0       | -        | -         |
| 50   | 7.4     | Areas Benefiting from Flood Defences               | 0                                            | 0     | 0       | -        | -         |
| 50   | 7.5     | Flood Storage Areas                                | 0                                            | 0     | 0       | -        | -         |
| 51   | 7.6     | Flood Zone 2                                       | None (within 50m)                            |       |         |          |           |
| 51   | 7.7     | Flood Zone 3                                       | None (within 50m)                            |       |         |          |           |
| Page | Section | Surface water flooding                             |                                              |       |         |          |           |
| 52   | 8.1     | <u>Surface water flooding</u>                      | 1 in 30 year, Greater than 1.0m (within 50m) |       |         |          |           |
| Page | Section | Groundwater flooding                               |                                              |       |         |          |           |
| 54   | 9.1     | <u>Groundwater flooding</u>                        | Moderate (within 50m)                        |       |         |          |           |
| Page | Section | Environmental designations                         | On site                                      | 0-50m | 50-250m | 250-500m | 500-2000m |
| 55   | 10.1    | <u>Sites of Special Scientific Interest (SSSI)</u> | 0                                            | 0     | 0       | 0        | 1         |
| 56   | 10.2    | Conserved wetland sites (Ramsar sites)             | 0                                            | 0     | 0       | 0        | 0         |
| 56   | 10.3    | Special Areas of Conservation (SAC)                | 0                                            | 0     | 0       | 0        | 0         |
| 56   | 10.4    | Special Protection Areas (SPA)                     | 0                                            | 0     | 0       | 0        | 0         |
| 56   | 10.5    | National Nature Reserves (NNR)                     | 0                                            | 0     | 0       | 0        | 0         |
| 57   | 10.6    | <u>Local Nature Reserves (LNR)</u>                 | 0                                            | 0     | 0       | 0        | 1         |
| 57   | 10.7    | <u>Designated Ancient Woodland</u>                 | 0                                            | 0     | 1       | 3        | 53        |
| 60   | 10.8    | Biosphere Reserves                                 | 0                                            | 0     | 0       | 0        | 0         |
| 61   | 10.9    | Forest Parks                                       | 0                                            | 0     | 0       | 0        | 0         |
| 61   | 10.10   | Marine Conservation Zones                          | 0                                            | 0     | 0       | 0        | 0         |
| 61   | 10.11   | Green Belt                                         | 0                                            | 0     | 0       | 0        | 0         |
| 61   | 10.12   | Proposed Ramsar sites                              | 0                                            | 0     | 0       | 0        | 0         |



| 61        | 10.13        | Possible Special Areas of Conservation (pSAC)  | 0                        | 0        | 0         | 0        | 0         |
|-----------|--------------|------------------------------------------------|--------------------------|----------|-----------|----------|-----------|
| 62        | 10.14        | Potential Special Protection Areas (pSPA)      | 0                        | 0        | 0         | 0        | 0         |
| 62        | 10.15        | Nitrate Sensitive Areas                        | 0                        | 0        | 0         | 0        | 0         |
| <b>62</b> | <b>10.16</b> | <b><u>Nitrate Vulnerable Zones</u></b>         | <b>1</b>                 | <b>0</b> | <b>0</b>  | <b>0</b> | <b>1</b>  |
| <b>63</b> | <b>10.17</b> | <b><u>SSSI Impact Risk Zones</u></b>           | <b>2</b>                 | <b>-</b> | <b>-</b>  | <b>-</b> | <b>-</b>  |
| <b>65</b> | <b>10.18</b> | <b><u>SSSI Units</u></b>                       | <b>0</b>                 | <b>0</b> | <b>0</b>  | <b>0</b> | <b>2</b>  |
| Page      | Section      | Visual and cultural designations               | On site                  | 0-50m    | 50-250m   | 250-500m | 500-2000m |
| 66        | 11.1         | World Heritage Sites                           | 0                        | 0        | 0         | -        | -         |
| 67        | 11.2         | Area of Outstanding Natural Beauty             | 0                        | 0        | 0         | -        | -         |
| 67        | 11.3         | National Parks                                 | 0                        | 0        | 0         | -        | -         |
| 67        | 11.4         | Listed Buildings                               | 0                        | 0        | 0         | -        | -         |
| <b>67</b> | <b>11.5</b>  | <b><u>Conservation Areas</u></b>               | <b>1</b>                 | <b>0</b> | <b>0</b>  | <b>-</b> | <b>-</b>  |
| <b>68</b> | <b>11.6</b>  | <b><u>Scheduled Ancient Monuments</u></b>      | <b>0</b>                 | <b>0</b> | <b>2</b>  | <b>-</b> | <b>-</b>  |
| 68        | 11.7         | Registered Parks and Gardens                   | 0                        | 0        | 0         | -        | -         |
| Page      | Section      | Agricultural designations                      | On site                  | 0-50m    | 50-250m   | 250-500m | 500-2000m |
| <b>69</b> | <b>12.1</b>  | <b><u>Agricultural Land Classification</u></b> | Grade 3 (within 250m)    |          |           |          |           |
| 70        | 12.2         | Open Access Land                               | 0                        | 0        | 0         | -        | -         |
| 70        | 12.3         | Tree Felling Licences                          | 0                        | 0        | 0         | -        | -         |
| 70        | 12.4         | Environmental Stewardship Schemes              | 0                        | 0        | 0         | -        | -         |
| 71        | 12.5         | Countryside Stewardship Schemes                | 0                        | 0        | 0         | -        | -         |
| Page      | Section      | Habitat designations                           | On site                  | 0-50m    | 50-250m   | 250-500m | 500-2000m |
| <b>72</b> | <b>13.1</b>  | <b><u>Priority Habitat Inventory</u></b>       | <b>0</b>                 | <b>0</b> | <b>10</b> | <b>-</b> | <b>-</b>  |
| 73        | 13.2         | Habitat Networks                               | 0                        | 0        | 0         | -        | -         |
| 73        | 13.3         | Open Mosaic Habitat                            | 0                        | 0        | 0         | -        | -         |
| 73        | 13.4         | Limestone Pavement Orders                      | 0                        | 0        | 0         | -        | -         |
| Page      | Section      | Geology 1:10,000 scale                         | On site                  | 0-50m    | 50-250m   | 250-500m | 500-2000m |
| <b>74</b> | <b>14.1</b>  | <b><u>10k Availability</u></b>                 | Identified (within 500m) |          |           |          |           |
| <b>75</b> | <b>14.2</b>  | <b><u>Artificial and made ground (10k)</u></b> | <b>0</b>                 | <b>0</b> | <b>1</b>  | <b>4</b> | <b>-</b>  |
| <b>77</b> | <b>14.3</b>  | <b><u>Superficial geology (10k)</u></b>        | <b>0</b>                 | <b>1</b> | <b>0</b>  | <b>0</b> | <b>-</b>  |

| 78         | 14.4        | Landslip (10k)                                    | 0                        | 0     | 0       | 0        | -         |
|------------|-------------|---------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <b>79</b>  | <b>14.5</b> | <b><u>Bedrock geology (10k)</u></b>               | 2                        | 0     | 1       | 0        | -         |
| 80         | 14.6        | Bedrock faults and other linear features (10k)    | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Geology 1:50,000 scale                            | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>81</b>  | <b>15.1</b> | <b><u>50k Availability</u></b>                    | Identified (within 500m) |       |         |          |           |
| <b>82</b>  | <b>15.2</b> | <b><u>Artificial and made ground (50k)</u></b>    | 0                        | 0     | 1       | 1        | -         |
| 83         | 15.3        | Artificial ground permeability (50k)              | 0                        | 0     | -       | -        | -         |
| <b>84</b>  | <b>15.4</b> | <b><u>Superficial geology (50k)</u></b>           | 0                        | 1     | 0       | 0        | -         |
| <b>85</b>  | <b>15.5</b> | <b><u>Superficial permeability (50k)</u></b>      | Identified (within 50m)  |       |         |          |           |
| 85         | 15.6        | Landslip (50k)                                    | 0                        | 0     | 0       | 0        | -         |
| 85         | 15.7        | Landslip permeability (50k)                       | None (within 50m)        |       |         |          |           |
| <b>86</b>  | <b>15.8</b> | <b><u>Bedrock geology (50k)</u></b>               | 1                        | 0     | 1       | 0        | -         |
| <b>87</b>  | <b>15.9</b> | <b><u>Bedrock permeability (50k)</u></b>          | Identified (within 50m)  |       |         |          |           |
| 87         | 15.10       | Bedrock faults and other linear features (50k)    | 0                        | 0     | 0       | 0        | -         |
| Page       | Section     | Boreholes                                         | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>88</b>  | <b>16.1</b> | <b><u>BGS Boreholes</u></b>                       | 12                       | 0     | 16      | -        | -         |
| Page       | Section     | Natural ground subsidence                         |                          |       |         |          |           |
| <b>90</b>  | <b>17.1</b> | <b><u>Shrink swell clays</u></b>                  | Low (within 50m)         |       |         |          |           |
| <b>91</b>  | <b>17.2</b> | <b><u>Running sands</u></b>                       | Low (within 50m)         |       |         |          |           |
| <b>93</b>  | <b>17.3</b> | <b><u>Compressible deposits</u></b>               | Moderate (within 50m)    |       |         |          |           |
| <b>95</b>  | <b>17.4</b> | <b><u>Collapsible deposits</u></b>                | Very low (within 50m)    |       |         |          |           |
| <b>96</b>  | <b>17.5</b> | <b><u>Landslides</u></b>                          | Very low (within 50m)    |       |         |          |           |
| <b>97</b>  | <b>17.6</b> | <b><u>Ground dissolution of soluble rocks</u></b> | Negligible (within 50m)  |       |         |          |           |
| Page       | Section     | Mining, ground workings and natural cavities      | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 98         | 18.1        | Natural cavities                                  | 0                        | 0     | 0       | 0        | -         |
| <b>99</b>  | <b>18.2</b> | <b><u>BritPits</u></b>                            | 0                        | 0     | 0       | 2        | -         |
| <b>99</b>  | <b>18.3</b> | <b><u>Surface ground workings</u></b>             | 0                        | 5     | 8       | -        | -         |
| 100        | 18.4        | Underground workings                              | 0                        | 0     | 0       | 0        | 0         |
| <b>100</b> | <b>18.5</b> | <b><u>Historical Mineral Planning Areas</u></b>   | 0                        | 0     | 1       | 0        | -         |



| 101               | 18.6               | Non-coal mining                                       | 0                        | 0     | 0       | 0        | 0         |
|-------------------|--------------------|-------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 101               | 18.7               | Mining cavities                                       | 0                        | 0     | 0       | 0        | 0         |
| 101               | 18.8               | JPB mining areas                                      | None (within 0m)         |       |         |          |           |
| 101               | 18.9               | Coal mining                                           | None (within 0m)         |       |         |          |           |
| 101               | 18.10              | Brine areas                                           | None (within 0m)         |       |         |          |           |
| 102               | 18.11              | Gypsum areas                                          | None (within 0m)         |       |         |          |           |
| 102               | 18.12              | Tin mining                                            | None (within 0m)         |       |         |          |           |
| 102               | 18.13              | Clay mining                                           | None (within 0m)         |       |         |          |           |
| Page              | Section            | Radon                                                 |                          |       |         |          |           |
| <b><u>103</u></b> | <b><u>19.1</u></b> | <b><u>Radon</u></b>                                   | Less than 1% (within 0m) |       |         |          |           |
| Page              | Section            | Soil chemistry                                        | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b><u>104</u></b> | <b><u>20.1</u></b> | <b><u>BGS Estimated Background Soil Chemistry</u></b> | 5                        | 5     | -       | -        | -         |
| 105               | 20.2               | BGS Estimated Urban Soil Chemistry                    | 0                        | 0     | -       | -        | -         |
| 105               | 20.3               | BGS Measured Urban Soil Chemistry                     | 0                        | 0     | -       | -        | -         |
| Page              | Section            | Railway infrastructure and projects                   | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 106               | 21.1               | Underground railways (London)                         | 0                        | 0     | 0       | -        | -         |
| 106               | 21.2               | Underground railways (Non-London)                     | 0                        | 0     | 0       | -        | -         |
| 106               | 21.3               | Railway tunnels                                       | 0                        | 0     | 0       | -        | -         |
| 106               | 21.4               | Historical railway and tunnel features                | 0                        | 0     | 0       | -        | -         |
| 106               | 21.5               | Royal Mail tunnels                                    | 0                        | 0     | 0       | -        | -         |
| 107               | 21.6               | Historical railways                                   | 0                        | 0     | 0       | -        | -         |
| 107               | 21.7               | Railways                                              | 0                        | 0     | 0       | -        | -         |
| 107               | 21.8               | Crossrail 1                                           | 0                        | 0     | 0       | 0        | -         |
| 107               | 21.9               | Crossrail 2                                           | 0                        | 0     | 0       | 0        | -         |
| 107               | 21.10              | HS2                                                   | 0                        | 0     | 0       | 0        | -         |

## Recent aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2022. All Rights Reserved.

Capture Date: 29/06/2019

Site Area: 7.16ha



## Recent site history - 2013 aerial photograph



Capture Date: 11/07/2013

Site Area: 7.16ha



## Recent site history - 2010 aerial photograph



Capture Date: 25/09/2010

Site Area: 7.16ha



## Recent site history - 2005 aerial photograph

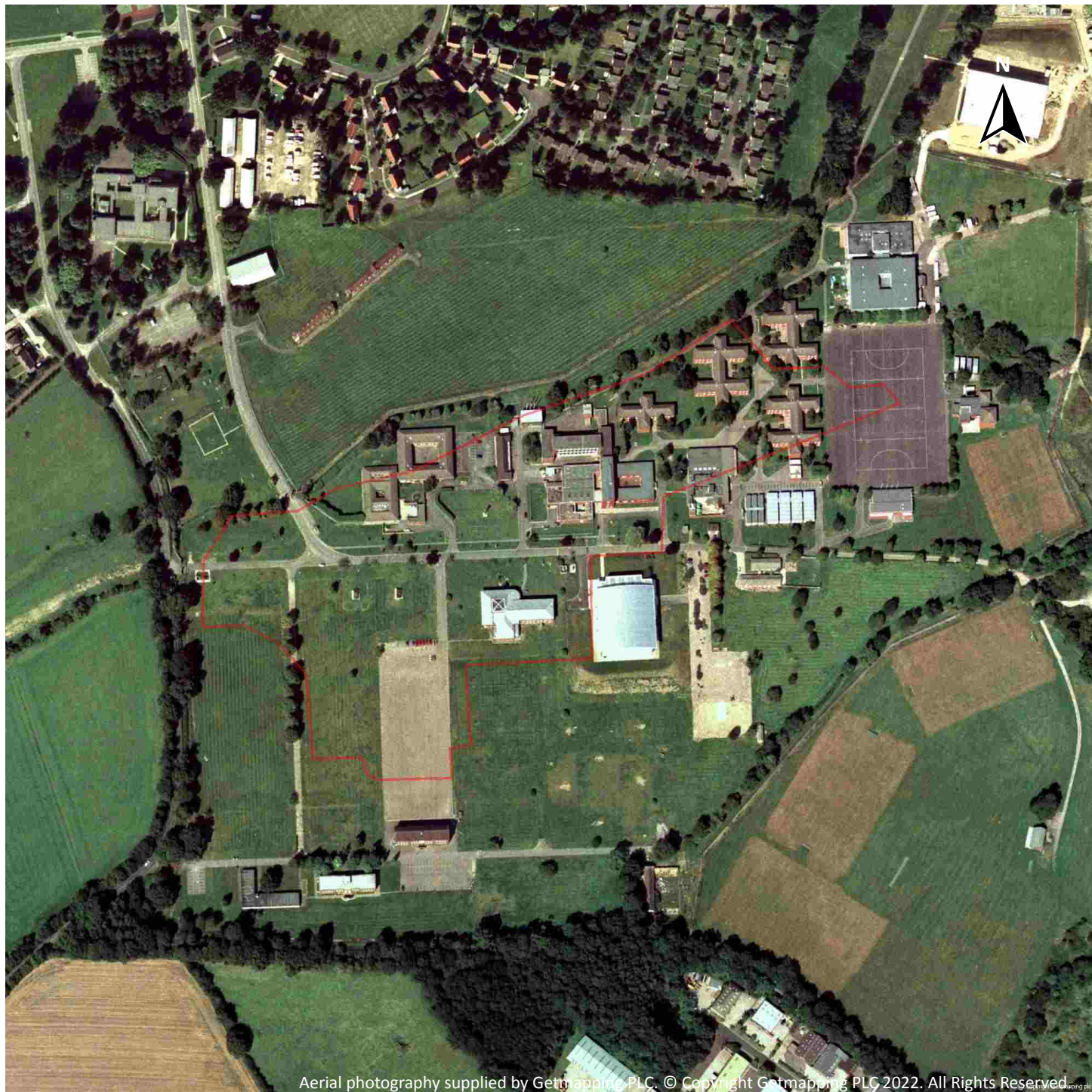


Capture Date: 19/06/2005

Site Area: 7.16ha



## Recent site history - 1999 aerial photograph



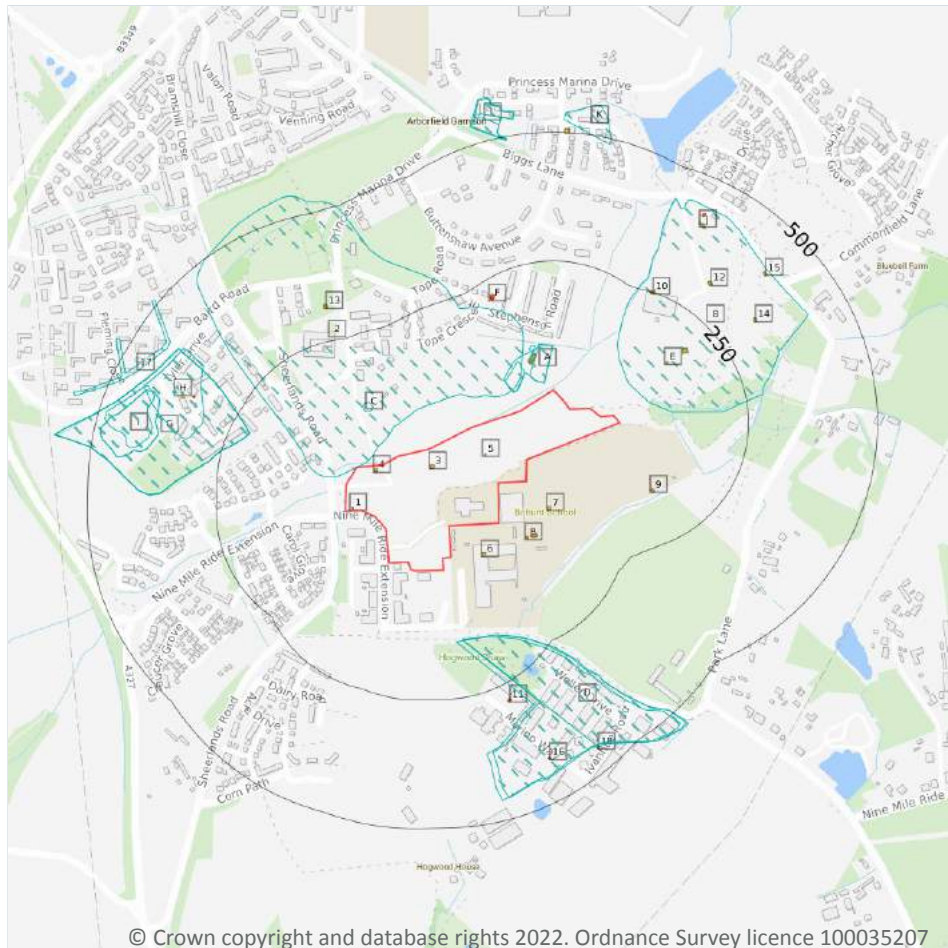
Capture Date: 04/09/1999

Site Area: 7.16ha





## 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

### 1.1 Historical industrial land uses

#### Records within 500m

23

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use          | Dates present | Group ID |
|----|----------|-------------------|---------------|----------|
| 2  | On site  | Unspecified Depot | 1932 - 1938   | 1954008  |



| ID | Location | Land use                    | Dates present | Group ID |
|----|----------|-----------------------------|---------------|----------|
| A  | 21m NW   | Filter Beds                 | 1932          | 1946823  |
| A  | 21m NW   | Filter Beds                 | 1938          | 1941389  |
| A  | 37m NW   | Filter Beds                 | 1932          | 1967547  |
| 8  | 65m NE   | Barracks                    | 1969 - 1978   | 1946287  |
| A  | 68m NW   | Sewage Tanks                | 1932          | 1961930  |
| A  | 68m NW   | Sewage Tanks                | 1938          | 1901209  |
| C  | 103m NW  | Unspecified Tank            | 1910          | 1858191  |
| D  | 139m S   | Unspecified Works           | 1977          | 1947109  |
| D  | 141m S   | Brick Works                 | 1938          | 1864663  |
| D  | 142m S   | Unspecified Works           | 1960          | 1935454  |
| G  | 211m NW  | Unspecified Works           | 1961          | 1860403  |
| G  | 211m NW  | Brick and Tile Works        | 1988          | 1949529  |
| G  | 211m NW  | Brick and Tile Works        | 1969 - 1978   | 1957247  |
| H  | 303m NW  | Brick Works                 | 1938          | 1864662  |
| H  | 375m NW  | Chimney                     | 1988          | 1874980  |
| I  | 376m W   | Clay Pit                    | 1969 - 1978   | 1914380  |
| I  | 376m W   | Clay Pit                    | 1988          | 1957770  |
| I  | 391m W   | Unspecified Pit             | 1961          | 1879811  |
| 17 | 433m NW  | Unspecified Ground Workings | 1969          | 1852449  |
| K  | 489m N   | Unspecified Heap            | 1988          | 1869657  |
| L  | 492m N   | Filter Beds                 | 1938          | 1933731  |
| L  | 493m N   | Filter Beds                 | 1932          | 1889897  |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

### Records within 500m

22

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID       | Location       | Land use                | Dates present      | Group ID      |
|----------|----------------|-------------------------|--------------------|---------------|
| <b>1</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967 - 1975</b> | <b>326326</b> |
| <b>3</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967 - 1975</b> | <b>318089</b> |
| <b>4</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967 - 1975</b> | <b>315737</b> |
| <b>5</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967</b>        | <b>305633</b> |
| 6        | 56m S          | Unspecified Tank        | 1967 - 1975        | 322997        |
| B        | 59m SE         | Unspecified Tank        | 1975               | 305634        |
| 7        | 65m SE         | Unspecified Tank        | 1967 - 1975        | 319239        |
| A        | 65m NW         | Sewage Tanks            | 1933               | 309568        |
| B        | 66m E          | Tanks                   | 1987               | 327383        |
| B        | 68m E          | Tanks                   | 1967 - 1975        | 314282        |
| C        | 96m N          | Unspecified Tank        | 1911               | 305637        |
| 9        | 142m SE        | Unspecified Tank        | 1967               | 305631        |
| E        | 143m NE        | Unspecified Tank        | 1967               | 305632        |
| E        | 180m NE        | Unspecified Tank        | 1975 - 1993        | 320020        |
| 10       | 246m N         | Unspecified Tank        | 1967 - 1975        | 320743        |
| 12       | 313m NE        | Unspecified Tank        | 1967 - 1975        | 318968        |
| 13       | 314m N         | Unspecified Tank        | 1967               | 305638        |
| 14       | 326m NE        | Unspecified Tank        | 1967 - 1975        | 315253        |
| H        | 357m NW        | Unspecified Tank        | 1967               | 305636        |
| 15       | 399m NE        | Unspecified Tank        | 1967 - 1975        | 328207        |
| J        | 402m NE        | Unspecified Tank        | 1967 - 1975        | 326990        |
| K        | 498m N         | Unspecified Tank        | 1967 - 1993        | 319933        |

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

#### Records within 500m

**8**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| F  | 210m NW  | Electricity Substation | 1987          | 193342   |
| F  | 211m NW  | Electricity Substation | 1967 - 1975   | 194997   |
| F  | 212m NW  | Electricity Substation | 1993          | 207257   |
| 11 | 279m SE  | Electricity Substation | 1991          | 189552   |
| H  | 338m NW  | Electricity Substation | 1999          | 189551   |
| 16 | 416m SE  | Electricity Substation | 1987 - 1991   | 197329   |
| J  | 423m NE  | Electricity Substation | 1975          | 189553   |
| 18 | 453m SE  | Electricity Substation | 1987 - 1991   | 202196   |

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.4 Historical petrol stations

#### Records within 500m

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.5 Historical garages

**Records within 500m****0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

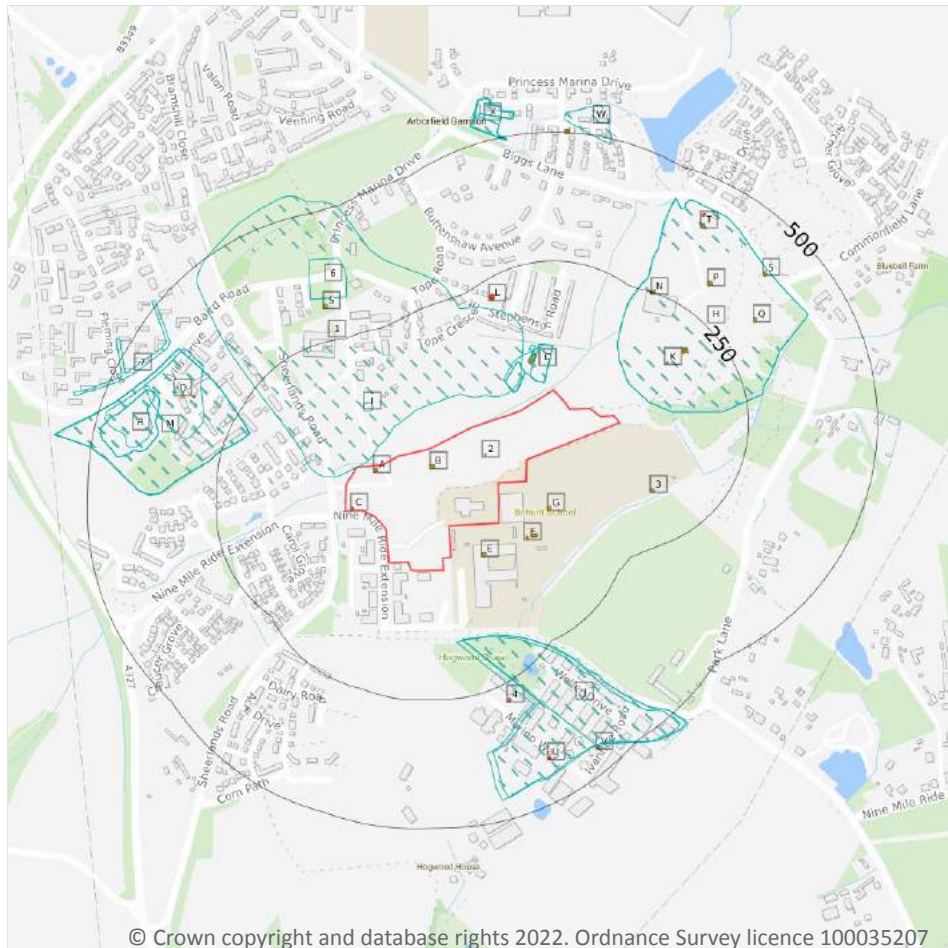
## 1.6 Historical military land

**Records within 500m****0**

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*

## 2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

### 2.1 Historical industrial land uses

Records within 500m

31

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

| ID       | Location       | Land Use                 | Date        | Group ID       |
|----------|----------------|--------------------------|-------------|----------------|
| <b>1</b> | <b>On site</b> | <b>Unspecified Depot</b> | <b>1938</b> | <b>1954008</b> |
| D        | 21m NW         | Filter Beds              | 1932        | 1946823        |
| D        | 21m NW         | Filter Beds              | 1932        | 1946823        |

| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| D  | 21m NW   | Filter Beds                 | 1938 | 1941389  |
| D  | 37m NW   | Filter Beds                 | 1932 | 1967547  |
| D  | 37m NW   | Filter Beds                 | 1932 | 1967547  |
| H  | 65m NE   | Barracks                    | 1969 | 1946287  |
| H  | 65m NE   | Barracks                    | 1978 | 1946287  |
| D  | 68m NW   | Sewage Tanks                | 1932 | 1961930  |
| D  | 68m NW   | Sewage Tanks                | 1932 | 1961930  |
| D  | 68m NW   | Sewage Tanks                | 1938 | 1901209  |
| I  | 103m NW  | Unspecified Tank            | 1910 | 1858191  |
| J  | 139m S   | Unspecified Works           | 1977 | 1947109  |
| J  | 141m S   | Brick Works                 | 1938 | 1864663  |
| J  | 142m S   | Unspecified Works           | 1960 | 1935454  |
| M  | 211m NW  | Brick and Tile Works        | 1988 | 1949529  |
| M  | 211m NW  | Brick and Tile Works        | 1969 | 1957247  |
| M  | 211m NW  | Brick and Tile Works        | 1978 | 1957247  |
| M  | 211m NW  | Unspecified Works           | 1961 | 1860403  |
| O  | 303m NW  | Brick Works                 | 1938 | 1864662  |
| 6  | 325m N   | Unspecified Depot           | 1932 | 1954008  |
| O  | 375m NW  | Chimney                     | 1988 | 1874980  |
| R  | 376m W   | Clay Pit                    | 1988 | 1957770  |
| R  | 376m W   | Clay Pit                    | 1969 | 1914380  |
| R  | 376m W   | Clay Pit                    | 1978 | 1914380  |
| R  | 391m W   | Unspecified Pit             | 1961 | 1879811  |
| 7  | 433m NW  | Unspecified Ground Workings | 1969 | 1852449  |
| W  | 489m N   | Unspecified Heap            | 1988 | 1869657  |
| X  | 492m N   | Filter Beds                 | 1938 | 1933731  |
| X  | 493m N   | Filter Beds                 | 1932 | 1889897  |
| X  | 493m N   | Filter Beds                 | 1932 | 1889897  |

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.2 Historical tanks

### Records within 500m

**38**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

| ID       | Location       | Land Use                | Date        | Group ID      |
|----------|----------------|-------------------------|-------------|---------------|
| <b>2</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967</b> | <b>305633</b> |
| <b>A</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1975</b> | <b>315737</b> |
| <b>A</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967</b> | <b>315737</b> |
| <b>B</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1975</b> | <b>318089</b> |
| <b>B</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967</b> | <b>318089</b> |
| <b>C</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1975</b> | <b>326326</b> |
| <b>C</b> | <b>On site</b> | <b>Unspecified Tank</b> | <b>1967</b> | <b>326326</b> |
| E        | 56m S          | Unspecified Tank        | 1975        | 322997        |
| E        | 56m S          | Unspecified Tank        | 1967        | 322997        |
| F        | 59m SE         | Unspecified Tank        | 1975        | 305634        |
| G        | 65m SE         | Unspecified Tank        | 1975        | 319239        |
| G        | 65m SE         | Unspecified Tank        | 1967        | 319239        |
| D        | 65m NW         | Sewage Tanks            | 1933        | 309568        |
| F        | 66m E          | Tanks                   | 1987        | 327383        |
| F        | 68m E          | Tanks                   | 1975        | 314282        |
| F        | 68m E          | Tanks                   | 1967        | 314282        |
| I        | 96m N          | Unspecified Tank        | 1911        | 305637        |
| <b>3</b> | <b>142m SE</b> | <b>Unspecified Tank</b> | <b>1967</b> | <b>305631</b> |
| K        | 143m NE        | Unspecified Tank        | 1967        | 305632        |
| K        | 180m NE        | Unspecified Tank        | 1987        | 320020        |
| K        | 183m NE        | Unspecified Tank        | 1993        | 320020        |
| K        | 183m NE        | Unspecified Tank        | 1993        | 320020        |
| K        | 184m NE        | Unspecified Tank        | 1975        | 320020        |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| N  | 246m N   | Unspecified Tank | 1967 | 320743   |
| N  | 249m N   | Unspecified Tank | 1975 | 320743   |
| P  | 313m NE  | Unspecified Tank | 1975 | 318968   |
| P  | 313m NE  | Unspecified Tank | 1967 | 318968   |
| 5  | 314m N   | Unspecified Tank | 1967 | 305638   |
| Q  | 326m NE  | Unspecified Tank | 1975 | 315253   |
| Q  | 326m NE  | Unspecified Tank | 1967 | 315253   |
| O  | 357m NW  | Unspecified Tank | 1967 | 305636   |
| S  | 399m NE  | Unspecified Tank | 1975 | 328207   |
| S  | 399m NE  | Unspecified Tank | 1967 | 328207   |
| T  | 402m NE  | Unspecified Tank | 1975 | 326990   |
| T  | 402m NE  | Unspecified Tank | 1967 | 326990   |
| W  | 498m N   | Unspecified Tank | 1975 | 319933   |
| W  | 498m N   | Unspecified Tank | 1967 | 319933   |
| W  | 499m N   | Unspecified Tank | 1987 | 319933   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

### Records within 500m

14

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| L  | 210m NW  | Electricity Substation | 1987 | 193342   |
| L  | 211m NW  | Electricity Substation | 1975 | 194997   |
| L  | 211m NW  | Electricity Substation | 1967 | 194997   |
| L  | 212m NW  | Electricity Substation | 1993 | 207257   |
| L  | 212m NW  | Electricity Substation | 1993 | 207257   |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| 4  | 279m SE  | Electricity Substation | 1991 | 189552   |
| O  | 338m NW  | Electricity Substation | 1999 | 189551   |
| U  | 416m SE  | Electricity Substation | 1987 | 197329   |
| U  | 416m SE  | Electricity Substation | 1988 | 197329   |
| U  | 416m SE  | Electricity Substation | 1991 | 197329   |
| T  | 423m NE  | Electricity Substation | 1975 | 189553   |
| V  | 453m SE  | Electricity Substation | 1987 | 202196   |
| V  | 453m SE  | Electricity Substation | 1988 | 202196   |
| V  | 453m SE  | Electricity Substation | 1991 | 202196   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

**Records within 500m**

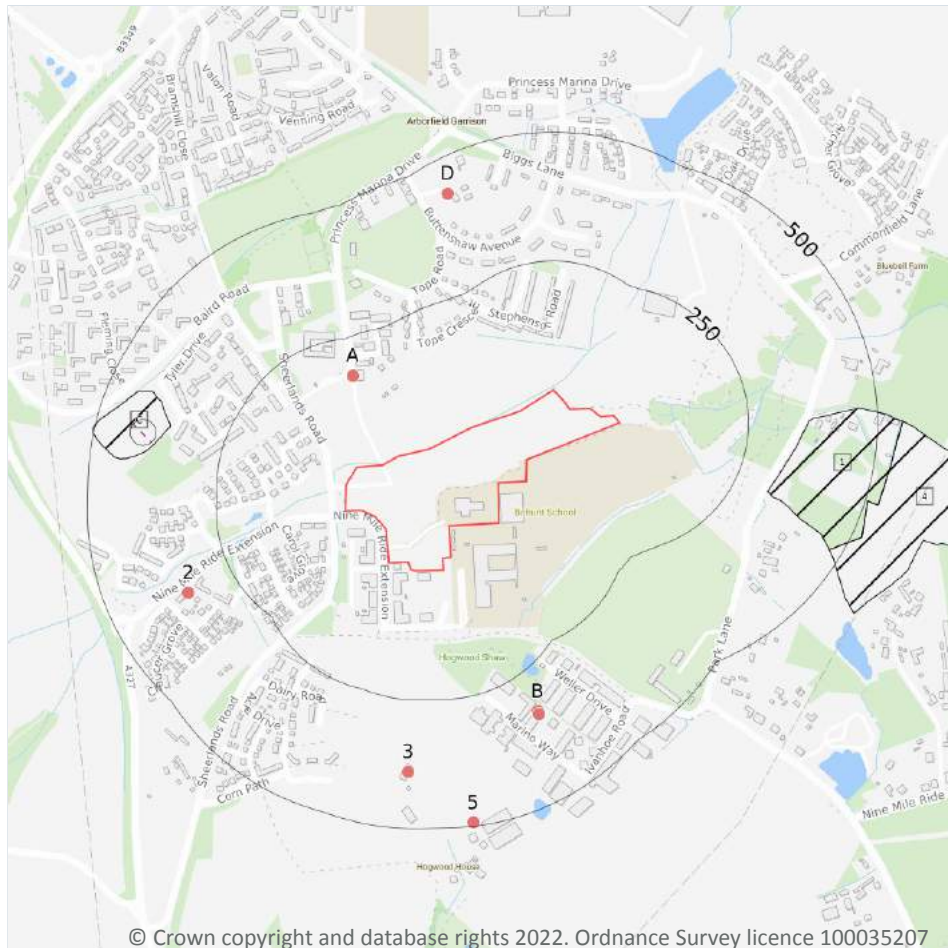
**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Waste exemptions

### 3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*



### 3.3 Historical landfill (LA/mapping records)

#### Records within 500m

**1**

Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 24**

| ID | Location | Site address                      | Source          | Data type |
|----|----------|-----------------------------------|-----------------|-----------|
| C  | 381m W   | Whitehall Brick works, Arborfield | Historical Maps | Point     |

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

#### Records within 500m

**3**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 24**

| ID | Location | Details                                                                     |                                                                                                                                                                                                                       |                                                                                                                                  |
|----|----------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 1  | 316m SE  | Site Address: Moor Farm, Finchampstead<br>Licence Holder Address: -         | Waste Licence: Yes<br>Site Reference: 54/12/4/230, WOK27<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 31/03/1988<br>Licence Surrender: 25/04/1994  | Operator: -<br>Licence Holder: T N Chivers Esquire<br>First Recorded 31/12/1987<br>Last Recorded: 25/04/1994                     |
| C  | 358m W   | Site Address: Whitehall Brickworks, Arborfield<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: 54/12/5/8, WOK12<br>Waste Type: Inert, Industrial, Commercial, Household<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: -<br>Licence Holder: -<br>First Recorded 31/12/1981<br>Last Recorded: 31/12/1982                                       |
| 4  | 475m SE  | Site Address: Coleshill Farm, Finchampstead<br>Licence Holder Address: -    | Waste Licence: Yes<br>Site Reference: WOK25, 54/12/4/188<br>Waste Type: Inert, Industrial<br>Environmental Permitting Regulations (Waste) Reference: -<br>Licence Issue: 14/09/1984<br>Licence Surrender: 23/10/1990  | Operator: -<br>Licence Holder: D R Walker Plant Hire (Reading) Limited<br>First Recorded 31/12/1984<br>Last Recorded: 31/12/1989 |



*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.5 Historical waste sites

**Records within 500m**

**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

**Records within 500m**

**0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 3.7 Waste exemptions

**Records within 500m**

**13**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 24**

| ID | Location | Site                                                                               | Reference         | Category                 | Sub-Category                | Description                           |
|----|----------|------------------------------------------------------------------------------------|-------------------|--------------------------|-----------------------------|---------------------------------------|
| A  | 177m N   | -                                                                                  | WEX156500         | Treating waste exemption | Not on a Farm               | Screening and blending of waste       |
| A  | 177m N   | -                                                                                  | WEX156500         | Using waste exemption    | Not on a Farm               | Use of waste in construction          |
| B  | 329m SE  | B6 Falcon Business Park 28 Ivanhoe Road Wokingham RG40 4QQ                         | EPR/BE5442HT/A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in secure containers |
| B  | 329m SE  | B6 Falcon Business Park 28 Ivanhoe Road Wokingham RG40 4QQ                         | EPR/BE5442HT/A001 | Storing waste exemption  | Non-Agricultural Waste Only | Storage of waste in a secure place    |
| B  | 334m SE  | 28-29, IVANHOE ROAD, HOGWOOD INDUSTRIAL ESTATE, FINCHAMPSTEAD, WOKINGHAM, RG40 4QQ | WEX259782         | Storing waste exemption  | Not on a farm               | Storage of waste in secure containers |

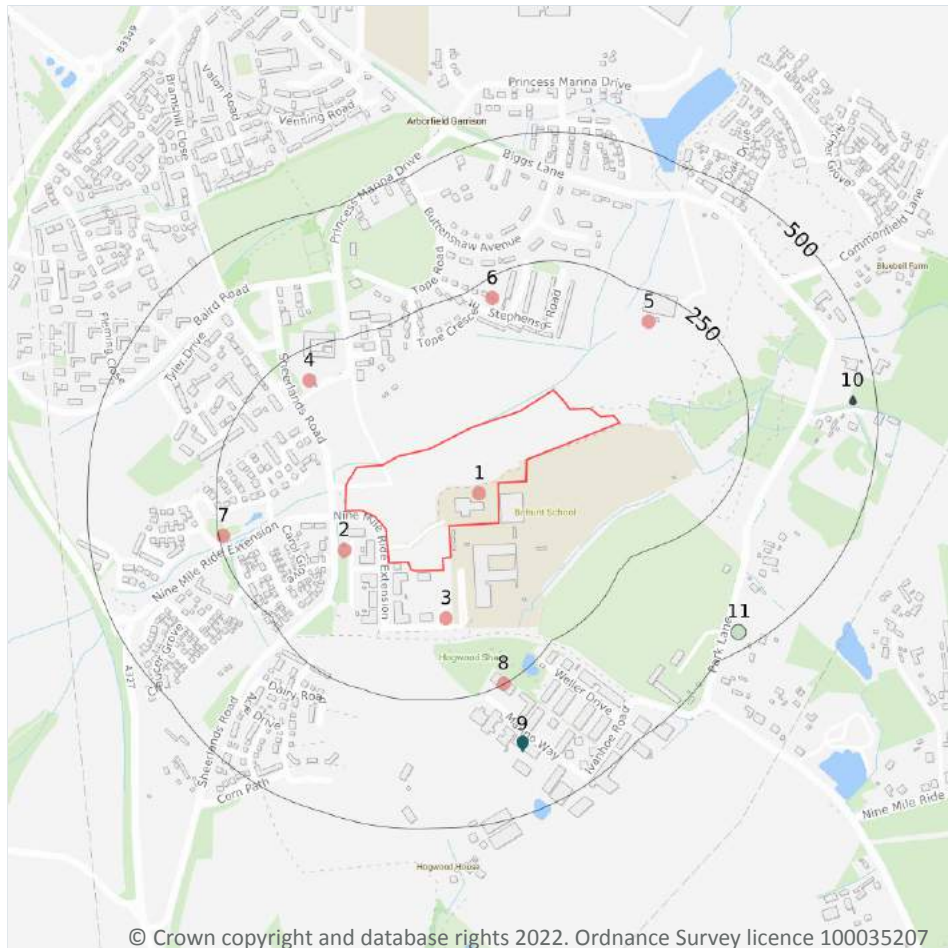


| ID | Location | Site                                                                                          | Reference | Category                    | Sub-Category  | Description                              |
|----|----------|-----------------------------------------------------------------------------------------------|-----------|-----------------------------|---------------|------------------------------------------|
| B  | 334m SE  | 28-29, IVANHOE ROAD,<br>HOGWOOD INDUSTRIAL<br>ESTATE, FINCHAMPSTEAD,<br>WOKINGHAM, RG40 4QQ   | WEX259782 | Storing waste<br>exemption  | Not on a farm | Storage of waste in a<br>secure place    |
| B  | 334m SE  | 28-29, IVANHOE ROAD,<br>HOGWOOD INDUSTRIAL<br>ESTATE, FINCHAMPSTEAD,<br>WOKINGHAM, RG40 4QQ   | WEX118800 | Storing waste<br>exemption  | Not on a farm | Storage of waste in<br>secure containers |
| B  | 334m SE  | 28-29, IVANHOE ROAD,<br>HOGWOOD INDUSTRIAL<br>ESTATE, FINCHAMPSTEAD,<br>WOKINGHAM, RG40 4QQ   | WEX118800 | Storing waste<br>exemption  | Not on a farm | Storage of waste in a<br>secure place    |
| 2  | 344m SW  | -                                                                                             | WEX263765 | Using waste<br>exemption    | Not on a farm | Use of waste in<br>construction          |
| 3  | 390m S   | -                                                                                             | WEX270761 | Using waste<br>exemption    | Not on a farm | Use of waste in<br>construction          |
| D  | 432m NW  | Natta Building Company,<br>Biggs Lane, Arborfield,<br>RG29LN                                  | WEX152659 | Treating waste<br>exemption | Not on a farm | Screening and blending<br>of waste       |
| D  | 432m NW  | Natta Building Company,<br>Biggs Lane, Arborfield,<br>Rg29Ln                                  | WEX136429 | Using waste<br>exemption    | Not on a farm | Use of waste in<br>construction          |
| 5  | 494m S   | HOGWOOD FARM, THE<br>FARM HOUSE,<br>SHEERLANDS ROAD,<br>FINCHAMPSTEAD,<br>WOKINGHAM, RG40 4QY | WEX154784 | Using waste<br>exemption    | Not on a Farm | Use of waste in<br>construction          |

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

Records within 250m

8

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Company                 | Address        | Activity            | Category                      |
|----|----------|-------------------------|----------------|---------------------|-------------------------------|
| 1  | On site  | Electricity Sub Station | Berkshire, RG2 | Electrical Features | Infrastructure and Facilities |
| 2  | 77m S    | Electricity Sub Station | Berkshire, RG2 | Electrical Features | Infrastructure and Facilities |
| 3  | 93m S    | Electricity Sub Station | Berkshire, RG2 | Electrical Features | Infrastructure and Facilities |



| ID | Location | Company                       | Address                                                         | Activity              | Category                      |
|----|----------|-------------------------------|-----------------------------------------------------------------|-----------------------|-------------------------------|
| 4  | 192m NW  | Electricity Sub Station       | Berkshire, RG2                                                  | Electrical Features   | Infrastructure and Facilities |
| 5  | 194m N   | Tank                          | Berkshire, RG2                                                  | Tanks (Generic)       | Industrial Features           |
| 6  | 214m NW  | Electricity Sub Station       | Berkshire, RG2                                                  | Electrical Features   | Infrastructure and Facilities |
| 7  | 241m W   | Electricity Sub Station       | Berkshire, RG2                                                  | Electrical Features   | Infrastructure and Facilities |
| 8  | 248m SE  | Broadband Technology 2000 Ltd | Units 17 and 19, Marino Way, Finchampstead, Berkshire, RG40 4RF | Electrical Components | Industrial Products           |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

**Records within 500m****0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

**Records within 500m****0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

**Records within 500m****0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

**Records within 500m****0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m****0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

1

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Address                                                                                             | Details                                                                                     |                                                                                                                                |
|----|----------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 9  | 370m SE  | Kumarlo Bodyworks Ltd, Unit 1,<br>Ivanhoe Rd, Hogwood Industrial<br>Estate, Finchampstead, RG40 4QQ | Process: Respraying of Road<br>Vehicles<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements<br>Notified<br>Comment: No Enforcements Notified |

*This data is sourced from Local Authority records.*

#### 4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.13 Licensed Discharges to controlled waters

Records within 500m

1

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Address                                                                                     | Details                                                                                                                                                                    |                                                                                                                                        |
|----|----------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 10 | 453m E   | PARK LANE SAWMILLS, PARK LANE, FINC, PARK LANE SAWMILLS PARK LANE F, INCHAMPSTEAD BERKSHIRE | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: CATM.2539<br>Permit Version: 1<br>Receiving Water: TRIB OF LONGMOOR STREAM | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 28/11/1996<br>Effective Date: 28/11/1996<br>Revocation Date: - |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.14 Pollutant release to surface waters (Red List)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.15 Pollutant release to public sewer

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of Special Category Effluents to the public sewer.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.16 List 1 Dangerous Substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.17 List 2 Dangerous Substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.18 Pollution Incidents (EA/NRW)

Records within 500m

1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 28**

| ID | Location | Details                                                                                                                                         |                                                                                                               |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 11 | 466m SE  | Incident Date: 05/04/2002<br>Incident Identification: 69193<br>Pollutant: Contaminated Water<br>Pollutant Description: Other Contaminated Water | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.19 Pollution inventory substances

Records within 500m

0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

Records within 500m

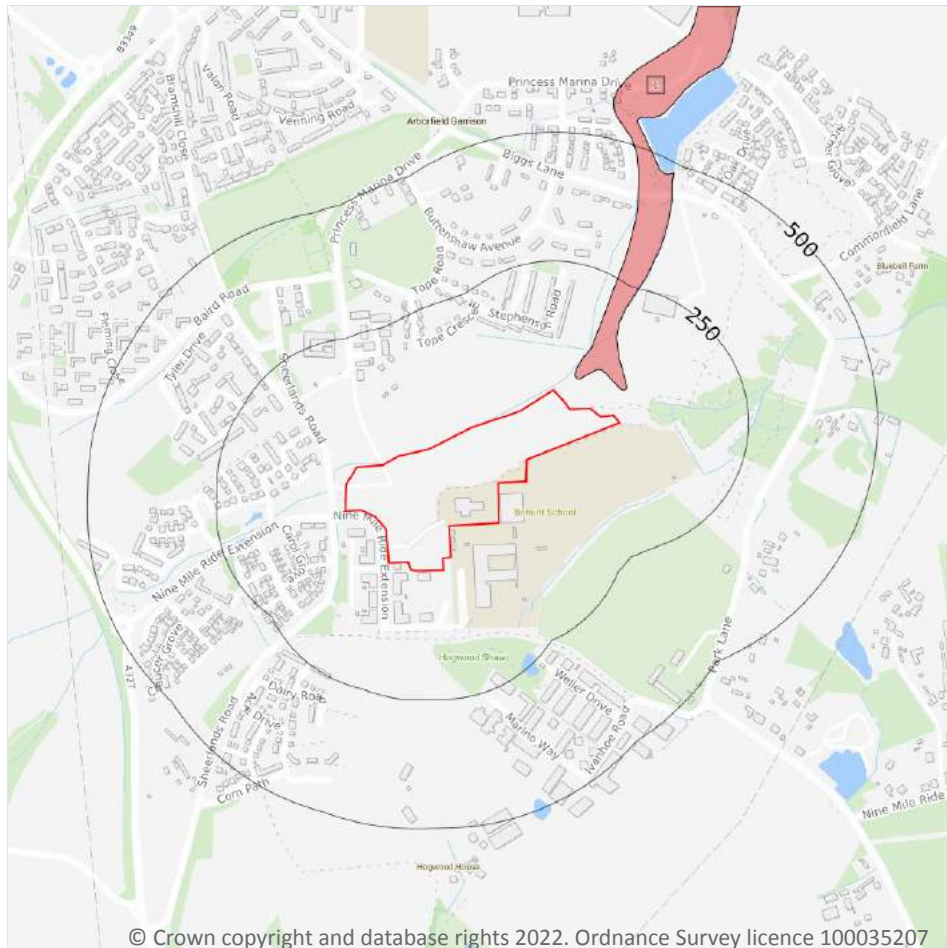
0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive
  - Unknown

### 5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

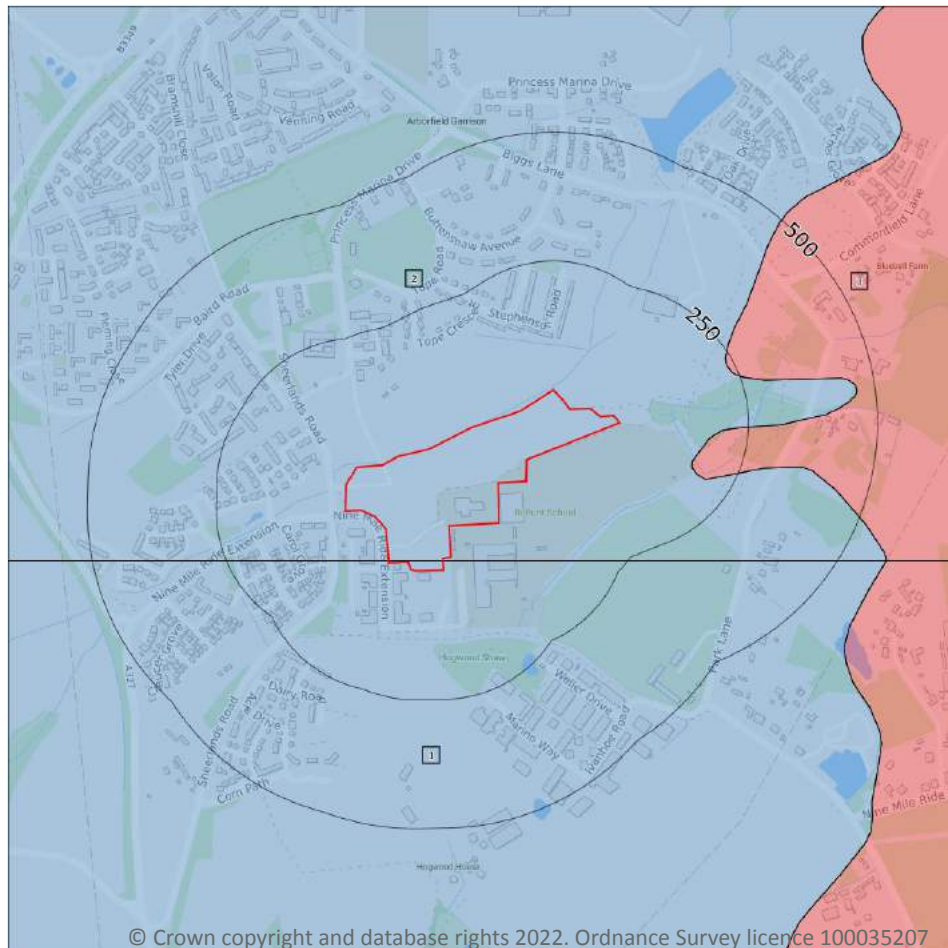
Features are displayed on the Hydrogeology map on **page 34**

| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 49m NE   | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
  - Secondary A
  - Secondary B
  - Secondary Undifferentiated
  - Unproductive

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## 5.2 Bedrock aquifer

### Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 35**

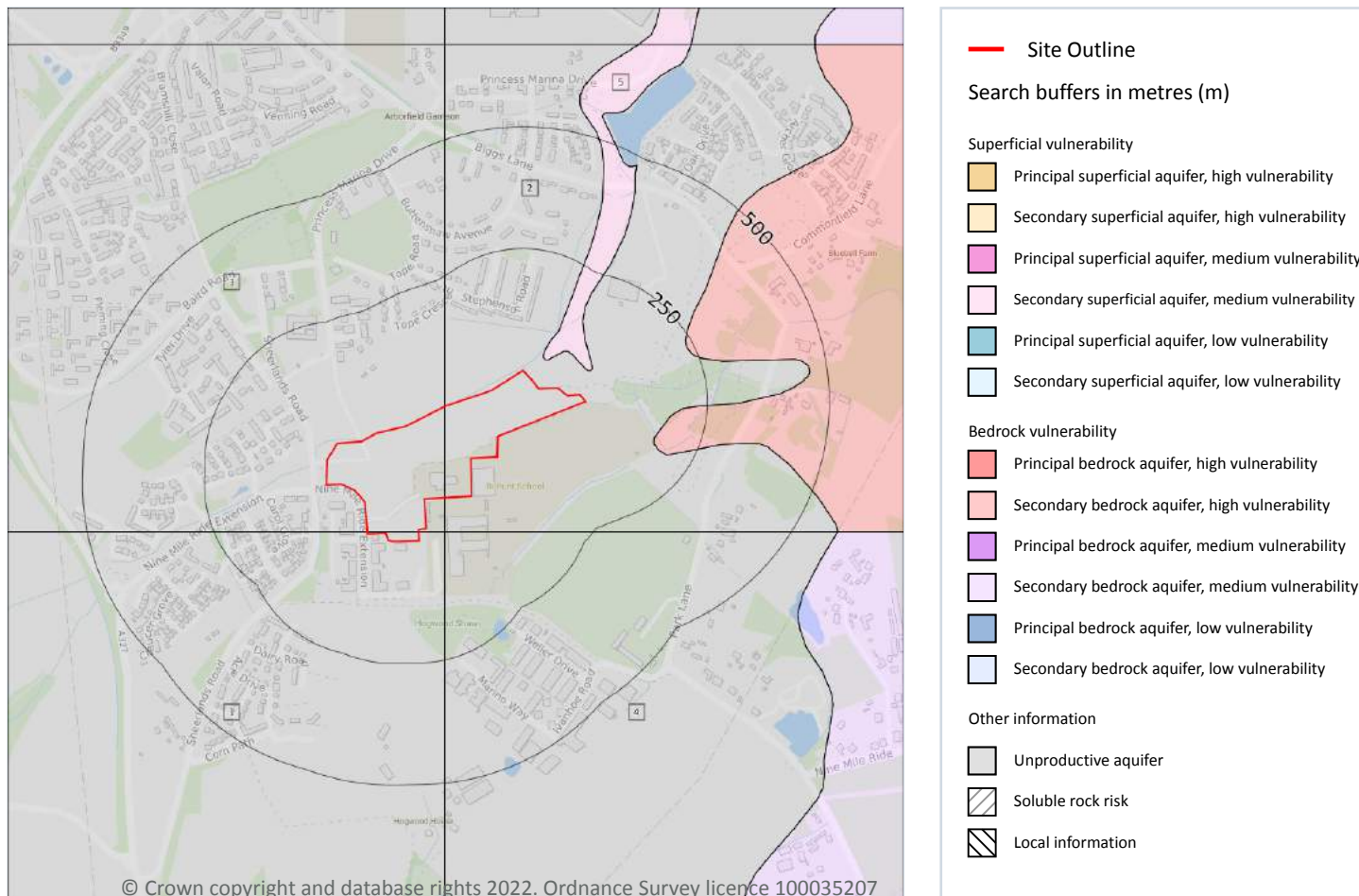
| ID | Location | Designation  | Description                                                                                                                         |
|----|----------|--------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |
| 2  | On site  | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |

| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 160m SE  | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

#### Records within 50m

5

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 37**

| ID | Location | Summary                                                                                                                                                                     | Soil / surface                                                                         | Superficial geology                                                                                                         | Bedrock geology                                                                             |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 1  | On site  | Summary Classification:<br>Unproductive aquifer (may have productive aquifer beneath)<br>Combined classification:<br>Unproductive Bedrock Aquifer, No Superficial Aquifer   | Leaching class: Low<br>Infiltration value:<br>40-70%<br>Dilution value:<br><300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: 3-10m<br>Patchiness value: <90%<br>Recharge potential: No Data            | Vulnerability:<br>Unproductive<br>Aquifer type:<br>Unproductive<br>Flow mechanism:<br>Mixed |
| 2  | On site  | Summary Classification:<br>Unproductive aquifer (may have productive aquifer beneath)<br>Combined classification:<br>Unproductive Bedrock Aquifer, No Superficial Aquifer   | Leaching class: Low<br>Infiltration value:<br>>70%<br>Dilution value:<br><300mm/year   | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data              | Vulnerability:<br>Unproductive<br>Aquifer type:<br>Unproductive<br>Flow mechanism:<br>Mixed |
| 3  | On site  | Summary Classification:<br>Unproductive aquifer (may have productive aquifer beneath)<br>Combined classification:<br>Unproductive Bedrock Aquifer, No Superficial Aquifer   | Leaching class: Low<br>Infiltration value:<br>40-70%<br>Dilution value:<br><300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data              | Vulnerability:<br>Unproductive<br>Aquifer type:<br>Unproductive<br>Flow mechanism:<br>Mixed |
| 4  | 38m E    | Summary Classification:<br>Unproductive aquifer (may have productive aquifer beneath)<br>Combined classification:<br>Unproductive Bedrock Aquifer, No Superficial Aquifer   | Leaching class: Low<br>Infiltration value: 40-70%<br>Dilution value:<br><300mm/year    | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data              | Vulnerability:<br>Unproductive<br>Aquifer type:<br>Unproductive<br>Flow mechanism:<br>Mixed |
| 5  | 49m NE   | Summary Classification:<br>Secondary superficial aquifer - Medium Vulnerability<br>Combined classification:<br>Unproductive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: Low<br>Infiltration value:<br>>70%<br>Dilution value:<br><300mm/year   | Vulnerability: Medium<br>Aquifer type: Secondary<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability:<br>Unproductive<br>Aquifer type:<br>Unproductive<br>Flow mechanism:<br>Mixed |

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## 5.4 Groundwater vulnerability- soluble rock risk

### Records on site

**0**

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

*This data is sourced from the British Geological Survey and the Environment Agency.*

## 5.5 Groundwater vulnerability- local information

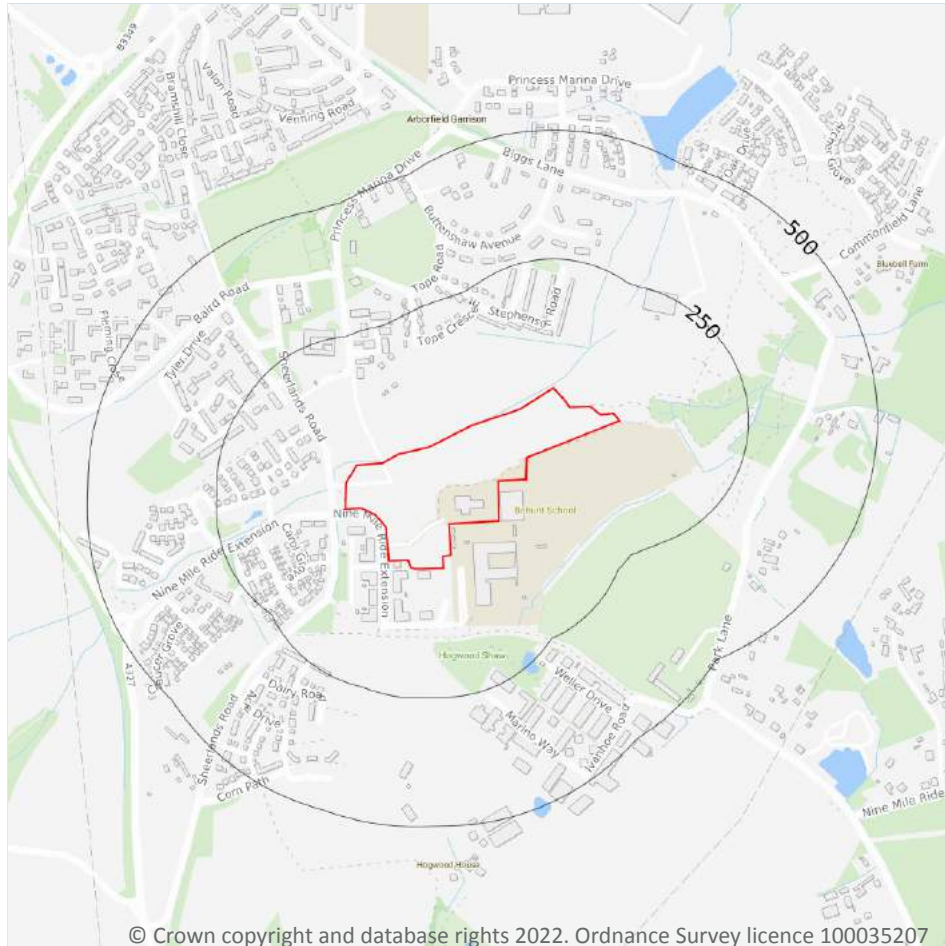
### Records on site

**0**

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk).

*This data is sourced from the British Geological Survey and the Environment Agency.*

## Abstractions and Source Protection Zones



### 5.6 Groundwater abstractions

#### Records within 2000m

2

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 40**

| ID | Location | Details                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                          |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1799m W  | Status: Historical<br>Licence No: 28/39/24/0079<br>Details: General Farming & Domestic<br>Direct Source: THAMES GROUNDWATER<br>Point: FARLEY HALL, FARLEY HILL, BERKS -WELL<br>Data Type: Point<br>Name: THE RT HON VISCOUNT NICHOLAS BEARSTED<br>Easting: 475000<br>Northing: 164710 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 09/01/1967<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 30/09/2002<br>Version End Date: - |
| -  | 1801m W  | Status: Historical<br>Licence No: 28/39/24/0079<br>Details: General Farming & Domestic<br>Direct Source: THAMES GROUNDWATER<br>Point: BOREHOLE AT FARLEY HALL, FARLEY HILL, BERKS<br>Data Type: Point<br>Name: SAMUEL<br>Easting: 475000<br>Northing: 164700                          | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 09/01/1967<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 09/01/1967<br>Version End Date: - |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.7 Surface water abstractions

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.8 Potable abstractions

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.10 Source Protection Zones (confined aquifer)

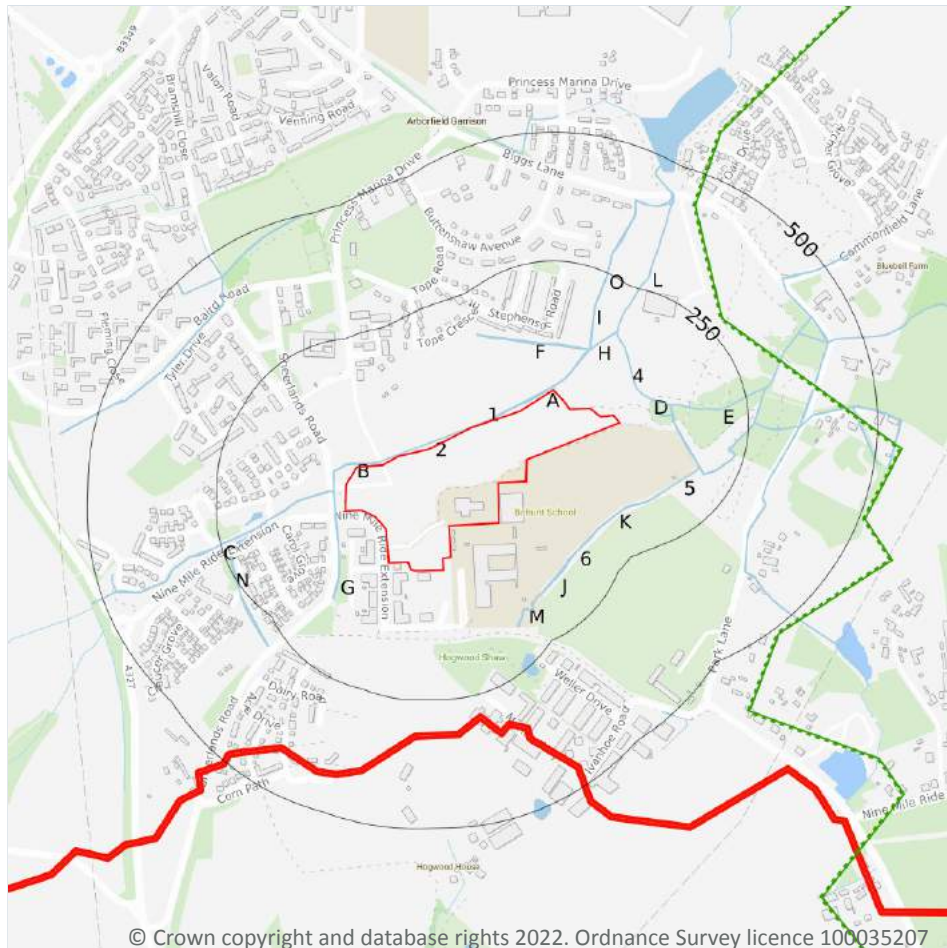
Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

### 6.1 Water Network (OS MasterMap)

Records within 250m

41

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 43**

| ID | Location | Type of water feature                               | Ground level | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|--------------|-----------------------------------------------------------------|------|
| 2  | On site  | Inland river not influenced by normal tidal action. | Not provided | Watercourse contains water year round (in normal circumstances) | -    |



| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| A  | 2m N     | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 3m N     | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 19m W    | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 20m W    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 22m W    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 22m W    | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 24m W    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 30m SW   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| C  | 32m W    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| B  | 64m S    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| D  | 68m NE   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| 4  | 69m NE   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| D  | 77m E    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |



| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| F  | 89m N    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| G  | 93m S    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| D  | 104m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| D  | 104m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| D  | 104m E   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 105m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| H  | 105m NE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| H  | 105m NE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 106m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| H  | 107m NE  | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| I  | 109m NE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| H  | 131m N   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| H  | 131m N   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |



| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| H  | 134m N   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| J  | 151m SE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| K  | 156m S   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| L  | 157m N   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| 5  | 158m SE  | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| M  | 160m SE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| M  | 160m SE  | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| 6  | 161m E   | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 179m SE  | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 219m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 229m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| N  | 238m W   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |
| E  | 241m E   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |



| ID | Location | Type of water feature                               | Ground level | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|--------------|-----------------------------------------------------------------|------|
| O  | 246m NE  | Inland river not influenced by normal tidal action. | Underground  | Watercourse contains water year round (in normal circumstances) | -    |

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

|                            |           |
|----------------------------|-----------|
| <b>Records within 250m</b> | <b>25</b> |
|----------------------------|-----------|

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 43**

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 43**

| ID | Location | Type  | Water body catchment | Water body ID  | Operational catchment | Management catchment |
|----|----------|-------|----------------------|----------------|-----------------------|----------------------|
| 1  | On site  | River | Barkham Brook        | GB106039017400 | Loddon                | Loddon and Trib      |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6.4 WFD Surface water bodies

|                           |          |
|---------------------------|----------|
| <b>Records identified</b> | <b>1</b> |
|---------------------------|----------|

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 43**

| ID | Location | Type  | Name          | Water body ID                  | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|---------------|--------------------------------|----------------|-----------------|-------------------|------|
| -  | 1420m NE | River | Barkham Brook | <a href="#">GB106039017400</a> | Moderate       | Fail            | Moderate          | 2019 |

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 6.5 WFD Groundwater bodies

Records on site

0

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

**Records within 50m****0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.2 Historical Flood Events

**Records within 250m****0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.3 Flood Defences

**Records within 250m****0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 7.7 Flood Zone 3

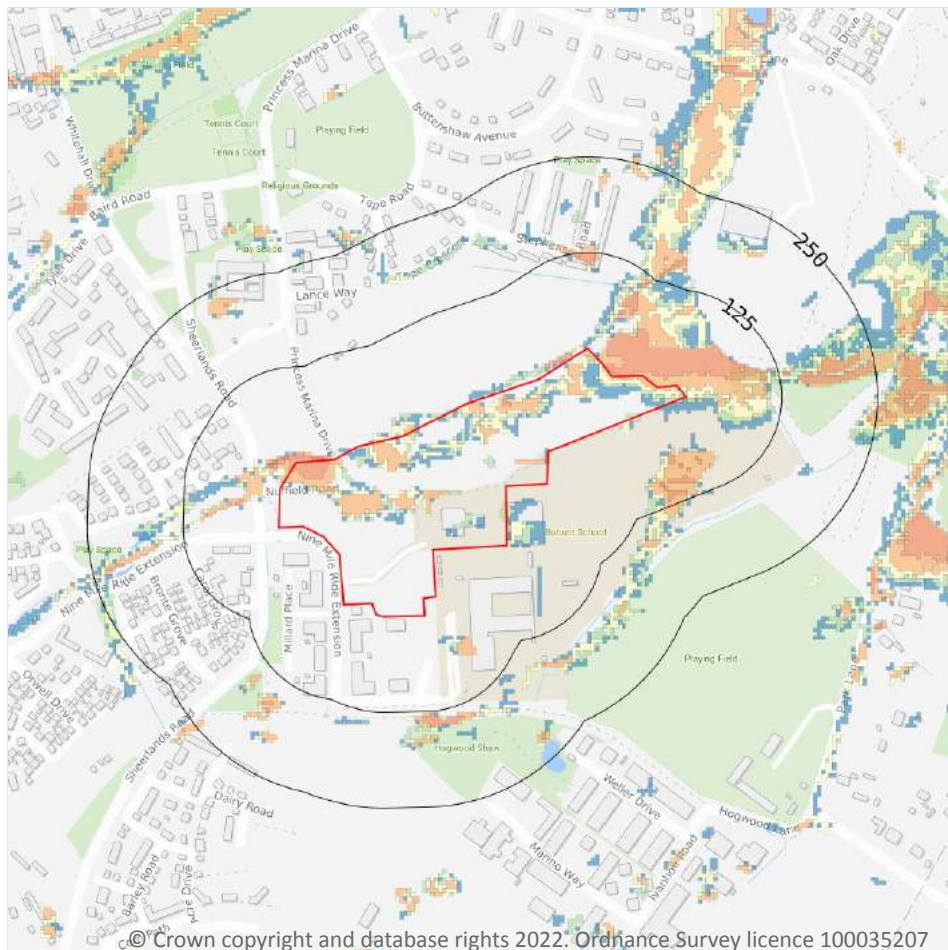
Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

### 8.1 Surface water flooding

**Highest risk on site**

**1 in 30 year, 0.3m - 1.0m**

**Highest risk within 50m**

**1 in 30 year, Greater than 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 52**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

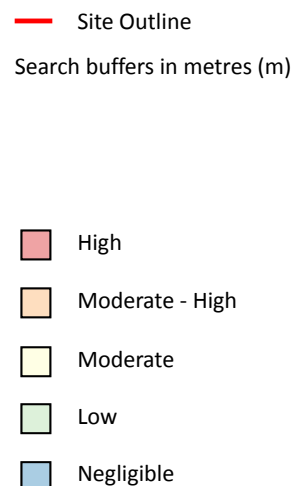
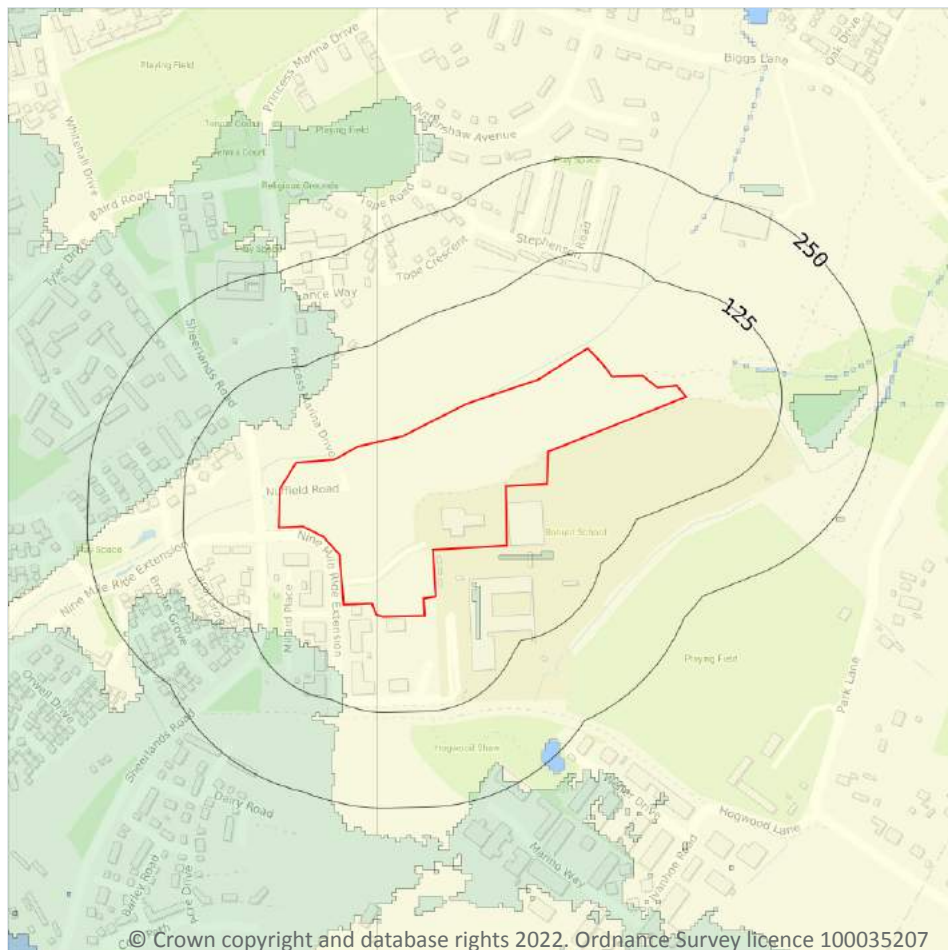
The table below shows the maximum flood depths for a range of return periods for the site.

| Return period  | Maximum modelled depth |
|----------------|------------------------|
| 1 in 1000 year | Between 0.3m and 1.0m  |
| 1 in 250 year  | Between 0.3m and 1.0m  |
| 1 in 100 year  | Between 0.3m and 1.0m  |
| 1 in 30 year   | Between 0.3m and 1.0m  |

*This data is sourced from Ambiantal Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Moderate**

**Highest risk within 50m**

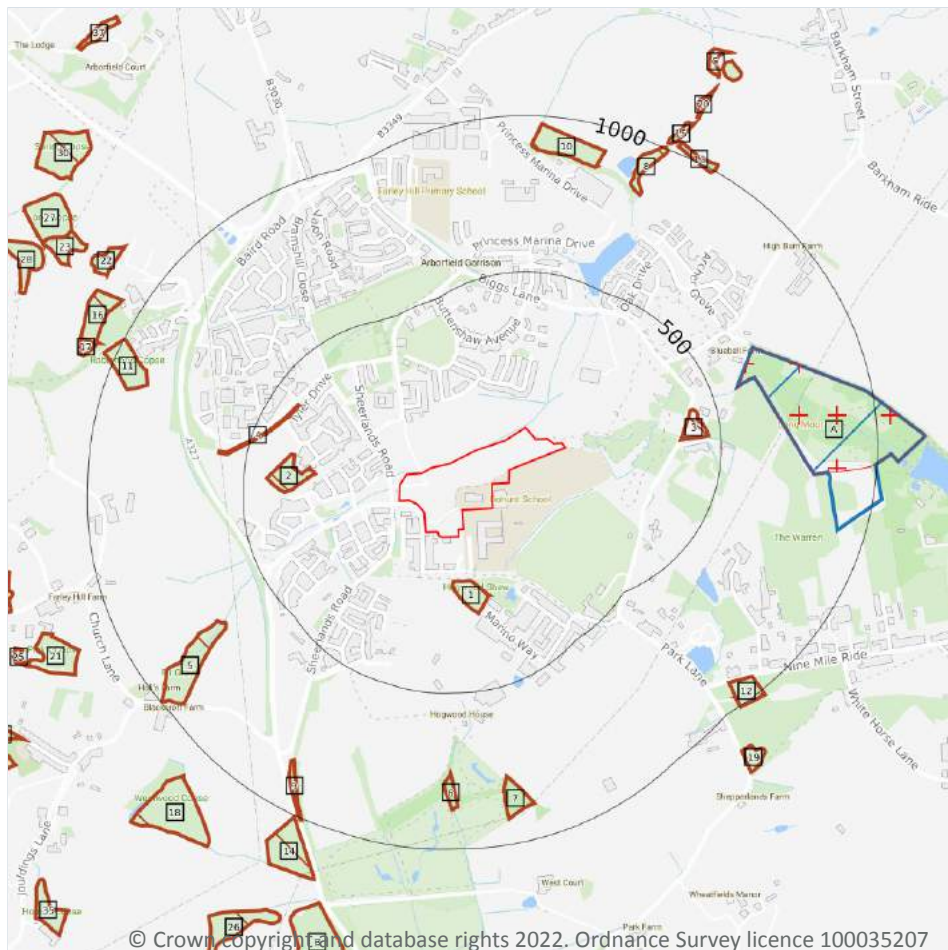
**Moderate**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 54**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland

### 10.1 Sites of Special Scientific Interest (SSSI)

#### Records within 2000m

1

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 55**

| ID | Location | Name         | Data source     |
|----|----------|--------------|-----------------|
| A  | 584m E   | Longmoor Bog | Natural England |



*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.4 Special Protection Areas (SPA)

Records within 2000m

0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

Records within 2000m

0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.6 Local Nature Reserves (LNR)

### Records within 2000m

**1**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 55**

| ID | Location | Name         | Data source     |
|----|----------|--------------|-----------------|
| A  | 585m E   | Longmoor Bog | Natural England |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.7 Designated Ancient Woodland

### Records within 2000m

**57**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 55**

| ID | Location | Name                                                                                  | Woodland Type                   |
|----|----------|---------------------------------------------------------------------------------------|---------------------------------|
| 1  | 143m S   | Hogwood Shaw(tithe: Hogwood Shaw)                                                     | Ancient & Semi-Natural Woodland |
| 2  | 274m W   | Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice)             | Ancient & Semi-Natural Woodland |
| 3  | 371m E   | (Tithe=411=the Clumps; Osd=long Moor)                                                 | Ancient & Semi-Natural Woodland |
| 4  | 409m NW  | Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice)             | Ancient & Semi-Natural Woodland |
| 5  | 681m SW  | (Epoch2:fir Grove)(tithe: Yew Tree Copse)                                             | Ancient & Semi-Natural Woodland |
| 6  | 756m S   | (Tithe: Redgates Shaw)                                                                | Ancient & Semi-Natural Woodland |
| 7  | 782m S   | (Tithe: Garden Shaw)                                                                  | Ancient & Semi-Natural Woodland |
| 8  | 831m NE  | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |



| ID | Location | Name                                                                                  | Woodland Type                   |
|----|----------|---------------------------------------------------------------------------------------|---------------------------------|
| 9  | 843m SW  | Unknown                                                                               | Ancient & Semi-Natural Woodland |
| 10 | 864m N   | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |
| 11 | 870m W   | Robinhood Copse (Tithe Map: Robin Hood's Coppice)(tithe:robin Wood Coppice)           | Ancient & Semi-Natural Woodland |
| 12 | 917m SE  | Unknown                                                                               | Ancient & Semi-Natural Woodland |
| 13 | 989m NE  | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |
| 14 | 1005m SW | Claypits(tithe: Clay Pit)                                                             | Ancient & Semi-Natural Woodland |
| 15 | 1021m N  | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |
| 16 | 1067m NW | (Tithe Map: Hurdle Coppice)(tithe:long Coppice Hurdle Coppice)                        | Ancient & Semi-Natural Woodland |
| 17 | 1073m NW | Unknown                                                                               | Ancient & Semi-Natural Woodland |
| 18 | 1100m SW | Westwood Copse(tithe: Westwood Copse)                                                 | Ancient & Semi-Natural Woodland |
| 19 | 1115m SE | (Tithe: Sandpit Copse)                                                                | Ancient & Semi-Natural Woodland |
| 20 | 1131m NE | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |
| 21 | 1132m SW | Pink's Copse(tithe:pinks Coppice)                                                     | Ancient & Semi-Natural Woodland |
| 22 | 1152m NW | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)           | Ancient & Semi-Natural Woodland |
| B  | 1236m S  | Lea Copse(tithe: Lea Copse)                                                           | Ancient & Semi-Natural Woodland |
| 23 | 1256m NW | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)           | Ancient & Semi-Natural Woodland |
| 24 | 1270m W  | Churchland Copse(tithe:burchetts Coppice)                                             | Ancient & Semi-Natural Woodland |
| C  | 1276m NE | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |



| ID | Location | Name                                                                                  | Woodland Type                   |
|----|----------|---------------------------------------------------------------------------------------|---------------------------------|
| C  | 1284m NE | Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice) | Ancient & Semi-Natural Woodland |
| 25 | 1301m W  | Pink's Copse(tithe:pinks Coppice)                                                     | Ancient & Semi-Natural Woodland |
| 26 | 1311m S  | Lea Copse(tithe: Lea Copse)                                                           | Ancient & Semi-Natural Woodland |
| 27 | 1327m NW | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice)           | Ancient & Semi-Natural Woodland |
| 28 | 1343m NW | (Tithe Map: Coppice)                                                                  | Ancient & Semi-Natural Woodland |
| -  | 1407m W  | Castle Copse (Tithe Map: Castle Coppice)                                              | Ancient & Semi-Natural Woodland |
| D  | 1425m SW | (Tithe Map: Farley Hill Common)                                                       | Ancient & Semi-Natural Woodland |
| -  | 1428m S  | Lea Copse(tithe: Lea Copse)                                                           | Ancient & Semi-Natural Woodland |
| 30 | 1431m NW | (Epo2:spring Copse. Tithe Map: Spring Coppice)(tithe:spring Coppice)                  | Ancient & Semi-Natural Woodland |
| -  | 1473m W  | Castle Copse (Tithe Map: Castle Coppice)                                              | Ancient & Semi-Natural Woodland |
| D  | 1494m SW | Unknown                                                                               | Ancient & Semi-Natural Woodland |
| -  | 1500m S  | Lea Copse(tithe: Lea Copse)                                                           | Ancient & Semi-Natural Woodland |
| -  | 1513m SW | (Tithe Map: Farley Hill Common)                                                       | Ancient Replanted Woodland      |
| -  | 1528m W  | Castle Copse (Tithe Map: Castle Coppice)                                              | Ancient & Semi-Natural Woodland |
| -  | 1542m W  | Castle Copse (Tithe Map: Castle Coppice)                                              | Ancient & Semi-Natural Woodland |
| -  | 1545m W  | (Tithe Map: Castle Coppice)                                                           | Ancient & Semi-Natural Woodland |
| -  | 1590m W  | Castle Copse (Tithe Map: Castle Coppice)                                              | Ancient & Semi-Natural Woodland |
| -  | 1595m SW | (Tithe Map: Farley Hill Common)                                                       | Ancient & Semi-Natural Woodland |
| -  | 1596m SW | (Tithe:little Coppice Late Hornes)                                                    | Ancient & Semi-Natural Woodland |



| ID | Location | Name                                                                          | Woodland Type                   |
|----|----------|-------------------------------------------------------------------------------|---------------------------------|
| -  | 1598m SW | (Tithe Map: Farley Hill Common)                                               | Ancient & Semi-Natural Woodland |
| -  | 1631m SW | Wyvols Copse (Tithe Map: Wyfold Coppice)(tithe:wyfold Copse)                  | Ancient Replanted Woodland      |
| -  | 1635m SW | Pickets Copse (Tithe Map: Piggots Coppice)(tithe:piggots Or Picketts Coppice) | Ancient Replanted Woodland      |
| 35 | 1656m SW | Hornes Copse                                                                  | Ancient & Semi-Natural Woodland |
| -  | 1674m SE | Banisters Copse(tithe: Banisters Copse)                                       | Ancient & Semi-Natural Woodland |
| 37 | 1705m NW | Unknown                                                                       | Ancient & Semi-Natural Woodland |
| -  | 1715m W  | Great Copse (Tithe Map: Horns Coppice)(tithe:hornes Coppice)                  | Ancient & Semi-Natural Woodland |
| -  | 1731m W  | Great Copse (Tithe Map: Horns Coppice)(tithe:hornes Coppice)                  | Ancient & Semi-Natural Woodland |
| -  | 1786m S  | Poors Copse(tithe: Poors Copse)                                               | Ancient & Semi-Natural Woodland |
| -  | 1823m N  | (Tithe:little Coppice)                                                        | Ancient & Semi-Natural Woodland |
| -  | 1894m N  | Bignell's Copse(tithe:bignolds Coppice)                                       | Ancient & Semi-Natural Woodland |
| -  | 1903m N  | The Coombes                                                                   | Ancient & Semi-Natural Woodland |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.8 Biosphere Reserves

**Records within 2000m**

**0**

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*

## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

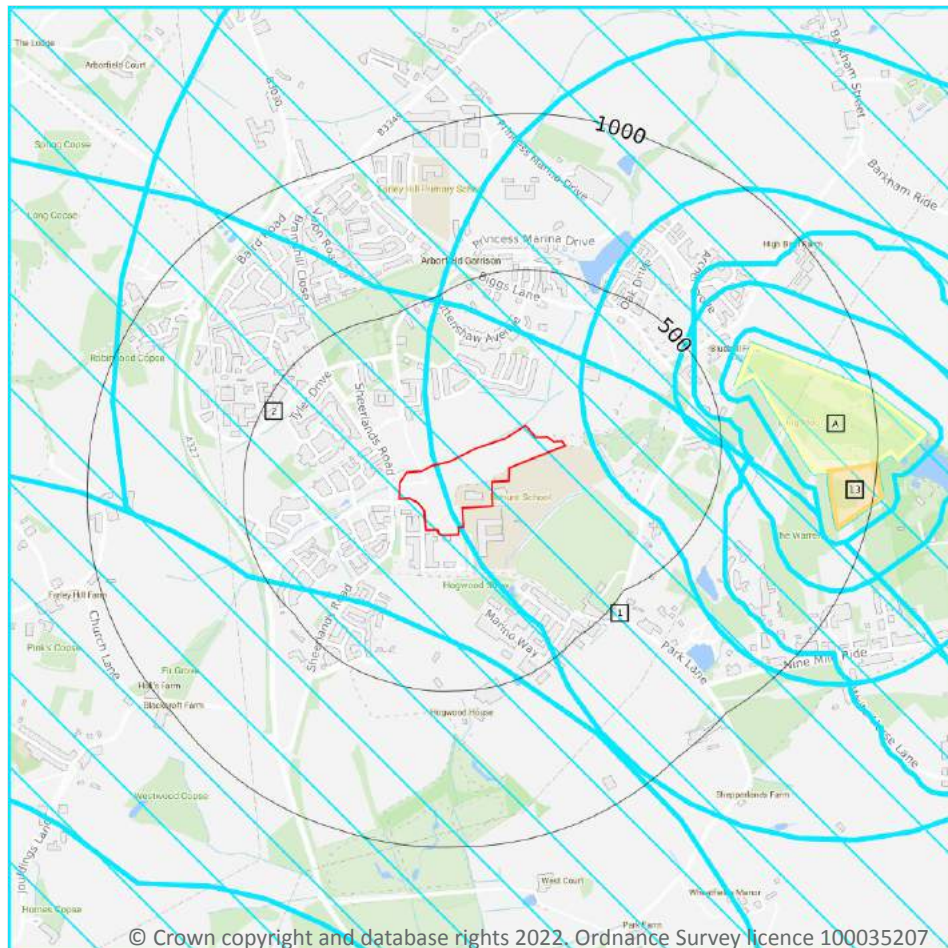
2

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

| Location | Name              | Type          | NVZ ID | Status   |
|----------|-------------------|---------------|--------|----------|
| On site  | Barkham Brook NVZ | Surface Water | 449    | Existing |
| 651m N   | Barkham Brook NVZ | Surface Water | 449    | Existing |

*This data is sourced from Natural England and Natural Resources Wales.*

## SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

### 10.17 SSSI Impact Risk Zones

#### Records on site

2

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 63**

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Wind turbines.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</p> <p>Residential - Any residential developments with a total net gain in residential units.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or any development needing its own water supply .</p> |
| 2  | On site  | <p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Wind turbines.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</p> <p>Residential - Any residential developments with a total net gain in residential units.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p>                 |

*This data is sourced from Natural England.*



## 10.18 SSSI Units

### Records within 2000m

**2**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 63**

ID: A  
 Location: 584m E  
 SSSI name: Longmoor Bog  
 Unit name: Wdc  
 Broad habitat: Fen, Marsh And Swamp - Lowland  
 Condition: Unfavourable - Recovering  
 Reportable features:

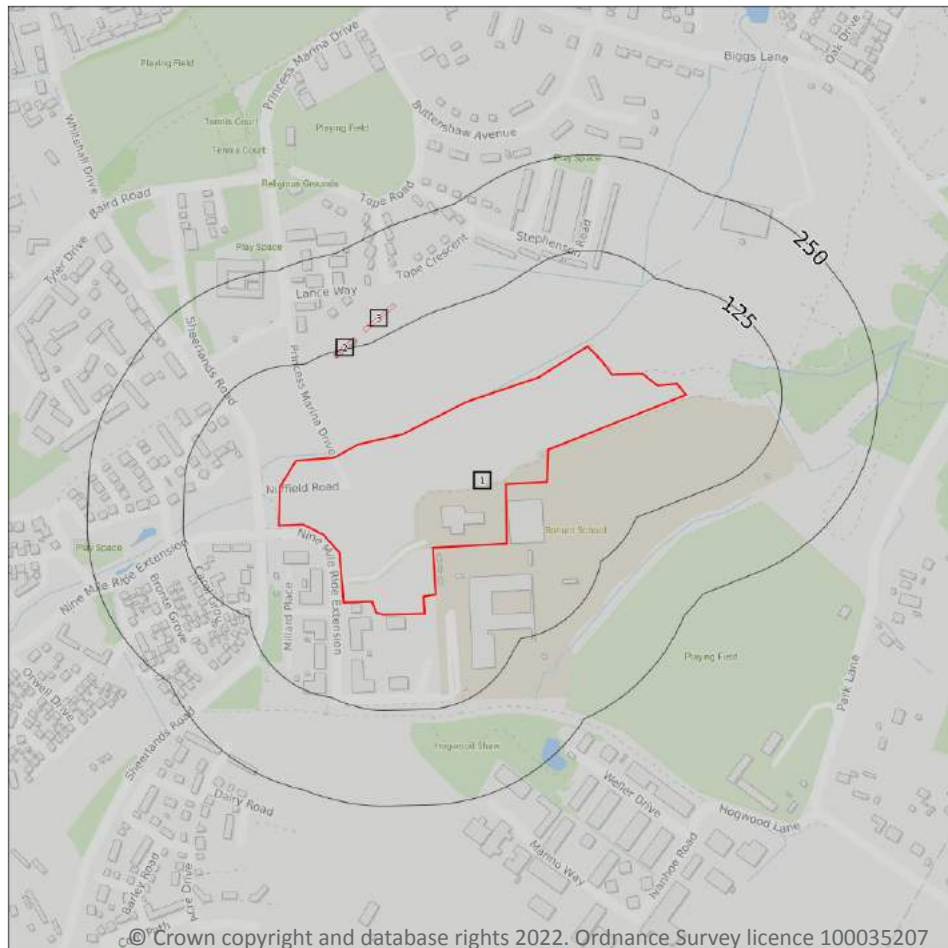
| Feature name                                                                      | Feature condition         | Date of assessment |
|-----------------------------------------------------------------------------------|---------------------------|--------------------|
| Lowland fens, including basin, flood-plain, open water transition and valley fens | Unfavourable - Recovering | 22/07/2013         |
| Lowland wet heath                                                                 | Unfavourable - Recovering | 22/07/2013         |
| Wet woodland                                                                      | Favourable                | 22/07/2013         |

ID: 13  
 Location: 845m E  
 SSSI name: Longmoor Bog  
 Unit name: California  
 Broad habitat: Fen, Marsh And Swamp - Lowland  
 Condition: Unfavourable - No change  
 Reportable features:

| Feature name      | Feature condition        | Date of assessment |
|-------------------|--------------------------|--------------------|
| Lowland wet heath | Unfavourable - No change | 22/07/2013         |

*This data is sourced from Natural England and Natural Resources Wales.*

## 11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

### 11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.2 Area of Outstanding Natural Beauty

**Records within 250m****0**

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 11.3 National Parks

**Records within 250m****0**

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

## 11.4 Listed Buildings

**Records within 250m****0**

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

**Records within 250m****1**

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.



Features are displayed on the Visual and cultural designations map on **page 66**

| ID | Location | Name                                                                        | District | Date of designation |
|----|----------|-----------------------------------------------------------------------------|----------|---------------------|
| 1  | On site  | The Local Authority for this area have not supplied conservation area data. |          | -                   |

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>2</b> |
|----------------------------|----------|

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

Features are displayed on the Visual and cultural designations map on **page 66**

| ID | Location | Ancient monument name         | Reference number |
|----|----------|-------------------------------|------------------|
| 2  | 116m N   | Infirmary Stables, Arborfield | 1006949          |
| 3  | 141m N   | Infirmary Stables, Arborfield | 1006949          |

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

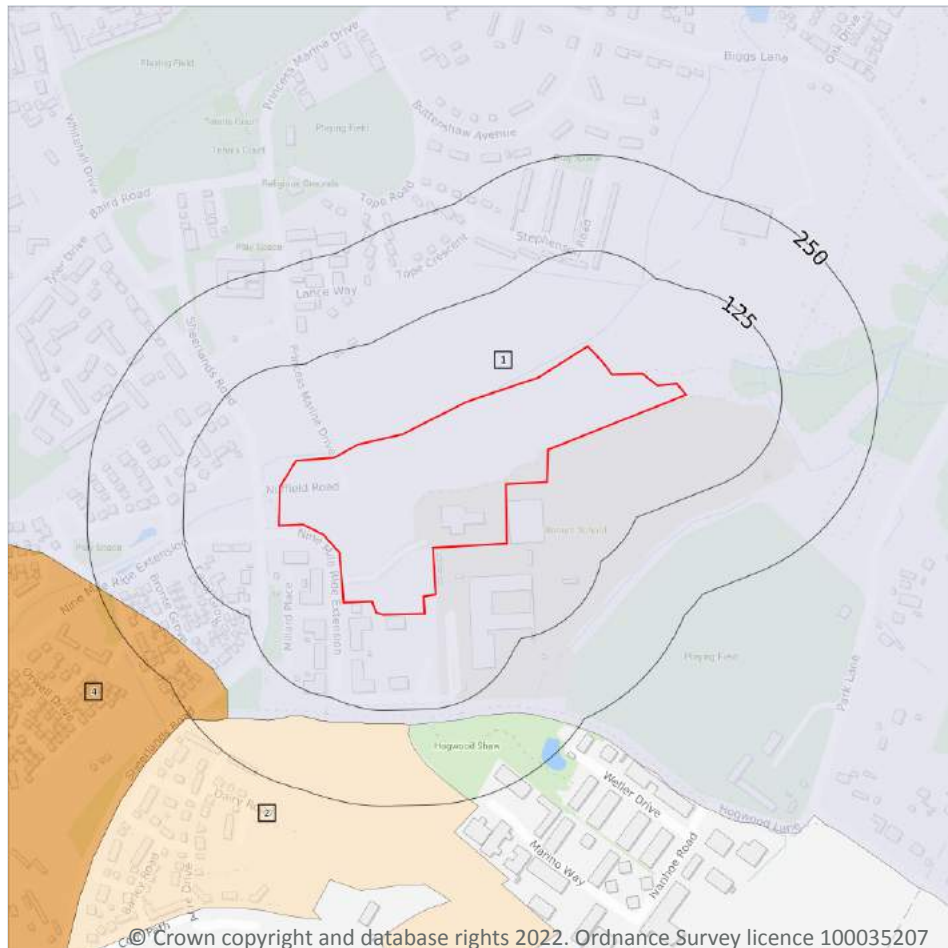
## 11.7 Registered Parks and Gardens

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>0</b> |
|----------------------------|----------|

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

### 12.1 Agricultural Land Classification

Records within 250m

3

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 69**

| ID | Location | Classification | Description                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----|----------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Grade 4        | Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land. |

| ID | Location | Classification | Description                                                                                                                                                                                                                                                                                     |
|----|----------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2  | 142m S   | Grade 3b       | Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.                               |
| 4  | 191m SW  | Grade 3        | Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2. |

*This data is sourced from Natural England.*

## 12.2 Open Access Land

**Records within 250m**

**0**

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

*This data is sourced from Natural England and Natural Resources Wales.*

## 12.3 Tree Felling Licences

**Records within 250m**

**0**

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

**Records within 250m**

**0**

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

*This data is sourced from Natural England.*



## 12.5 Countryside Stewardship Schemes

Records within 250m

0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*





| ID | Location | Main Habitat       | Other habitats                  |
|----|----------|--------------------|---------------------------------|
| A  | 155m E   | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| A  | 159m E   | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 4  | 161m SE  | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 5  | 162m SE  | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 6  | 219m E   | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 7  | 229m SE  | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**0**

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

**Records within 250m**

**0**

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

**Records within 250m**

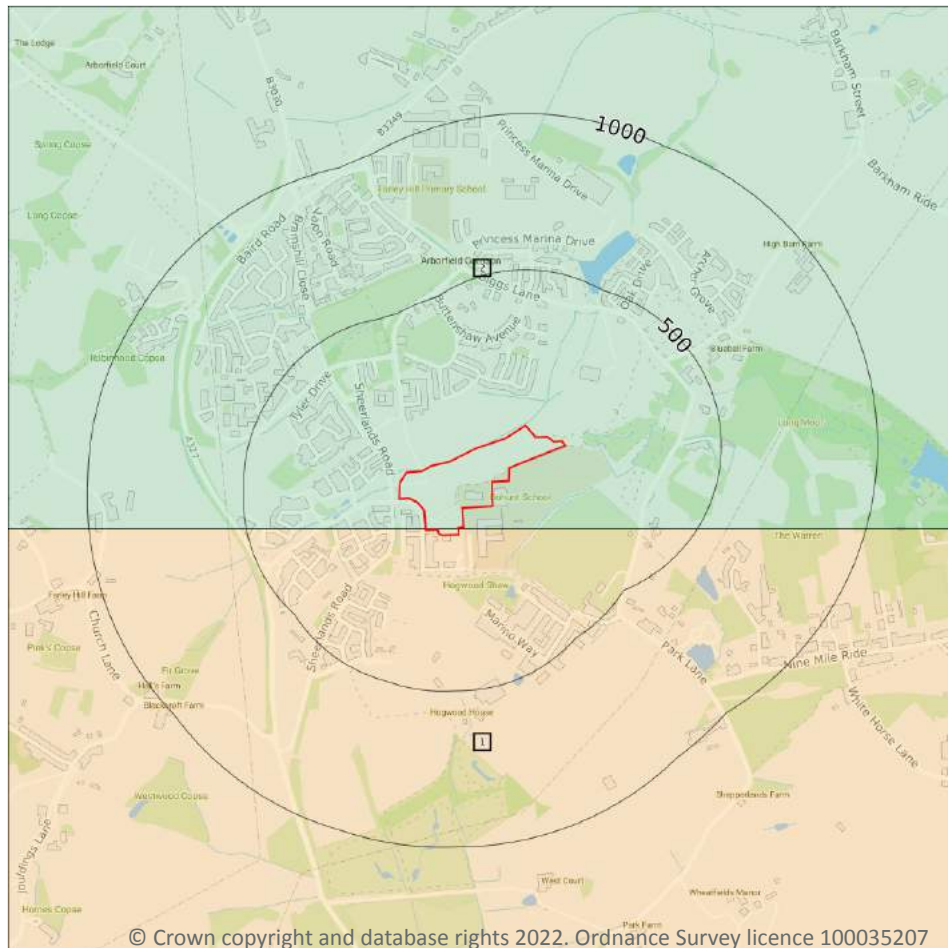
**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

### 14.1 10k Availability

#### Records within 500m

2

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

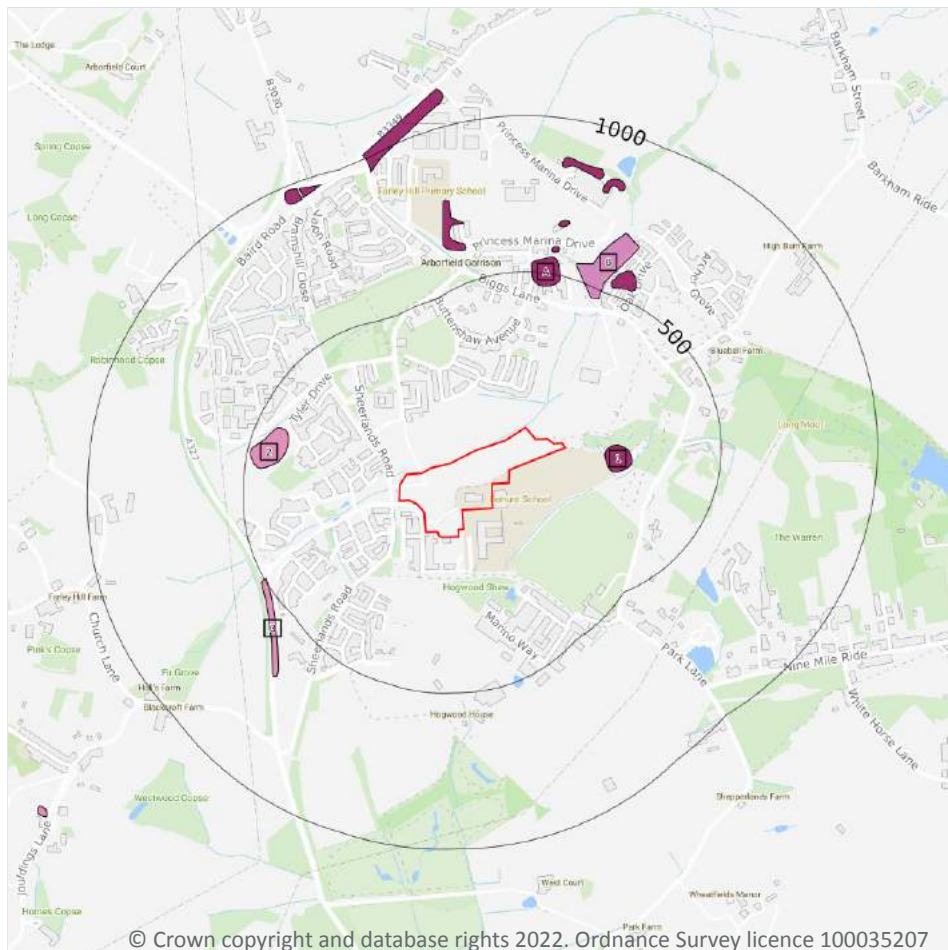
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 74**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1  | On site  | Full       | Partial     | Partial | No coverage   | SU76SE    |
| 2  | On site  | Full       | Full        | Full    | No coverage   | SU76NE    |

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Artificial and made ground



- Site Outline**
- Search buffers in metres (m)**
- Reclaimed ground
  - Made ground
  - Worked ground
  - Infilled ground
  - Disturbed ground
  - Landscaped ground

### 14.2 Artificial and made ground (10k)

#### Records within 500m

5

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 75**

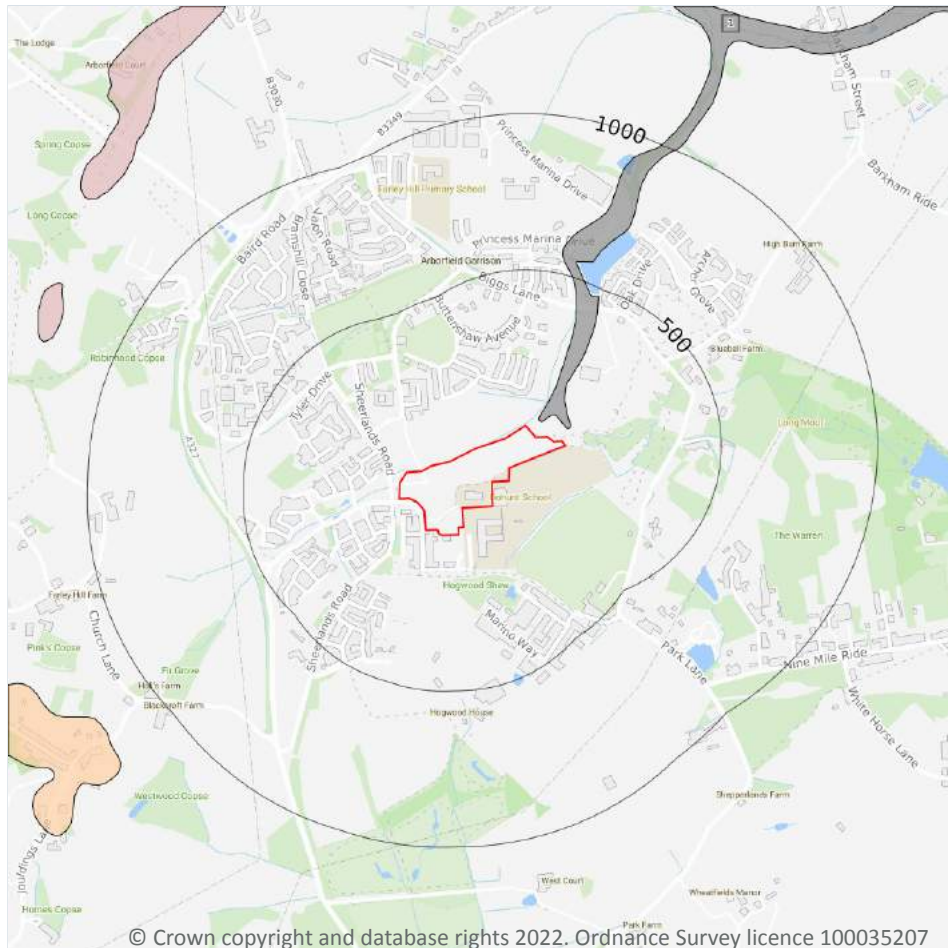
| ID | Location | LEX Code  | Description               | Rock description   |
|----|----------|-----------|---------------------------|--------------------|
| 1  | 128m E   | MGR-ARTDP | Made Ground (Undivided)   | Artificial Deposit |
| 2  | 381m W   | WGR-VOID  | Worked Ground (Undivided) | Void               |
| A  | 458m N   | MGR-ARTDP | Made Ground (Undivided)   | Artificial Deposit |
| B  | 467m NE  | WGR-VOID  | Worked Ground (Undivided) | Void               |

| ID | Location | LEX Code | Description               | Rock description |
|----|----------|----------|---------------------------|------------------|
| 3  | 494m SW  | WGR-VOID | Worked Ground (Undivided) | Void             |

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

#### Records within 500m

1

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 77**

| ID | Location | LEX Code | Description                                          | Rock description |
|----|----------|----------|------------------------------------------------------|------------------|
| 1  | 44m N    | ALV-Z    | Alluvium - Silt (unlithified Deposits Coding Scheme) | Silt             |

*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

Records within 500m

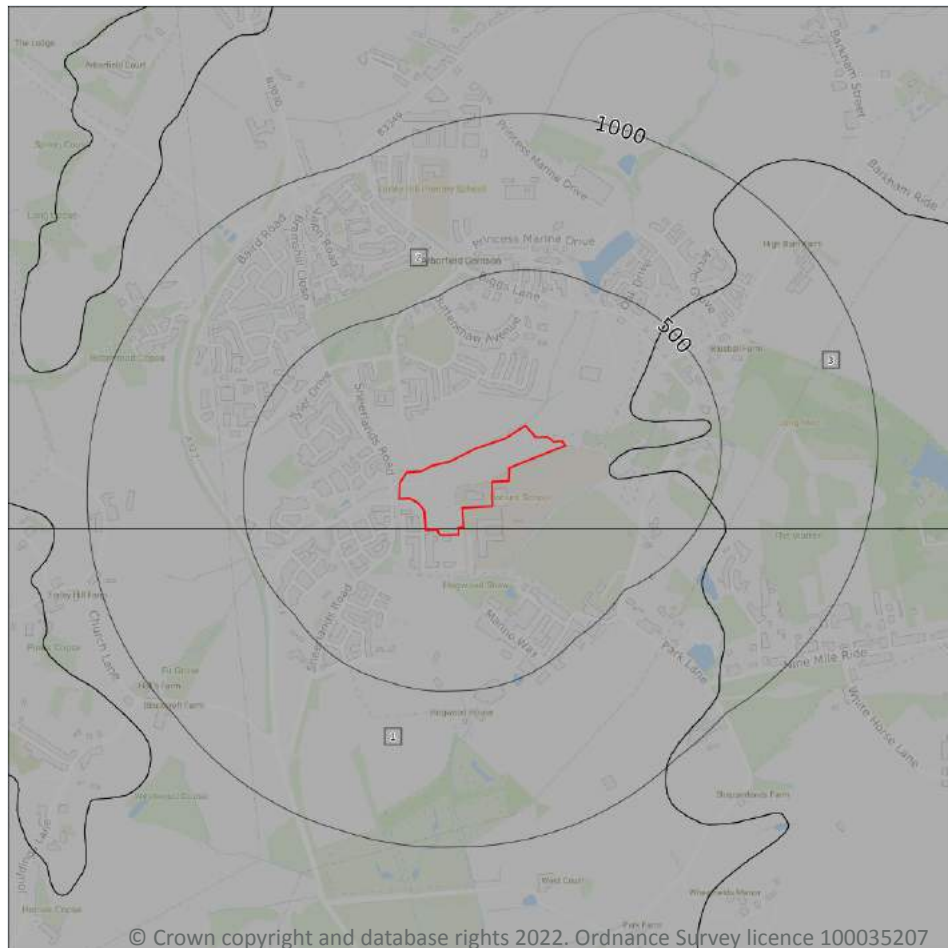
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



**— Site Outline**

Search buffers in metres (m)

**.... Bedrock faults and other linear features (10k)**

**Bedrock geology (10k)**  
Please see table for more details.

### 14.5 Bedrock geology (10k)

#### Records within 500m

3

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 79**

| ID | Location | LEX Code  | Description                                 | Rock age     |
|----|----------|-----------|---------------------------------------------|--------------|
| 1  | On site  | LC-CLSISA | London Clay Formation - Clay, Silt And Sand | Eocene Epoch |
| 2  | On site  | LC-CLSISA | London Clay Formation - Clay, Silt And Sand | Eocene Epoch |
| 3  | 157m SE  | BGS-SANDU | Bagshot Formation - Sand                    | Eocene Epoch |

*This data is sourced from the British Geological Survey.*



## 14.6 Bedrock faults and other linear features (10k)

Records within 500m

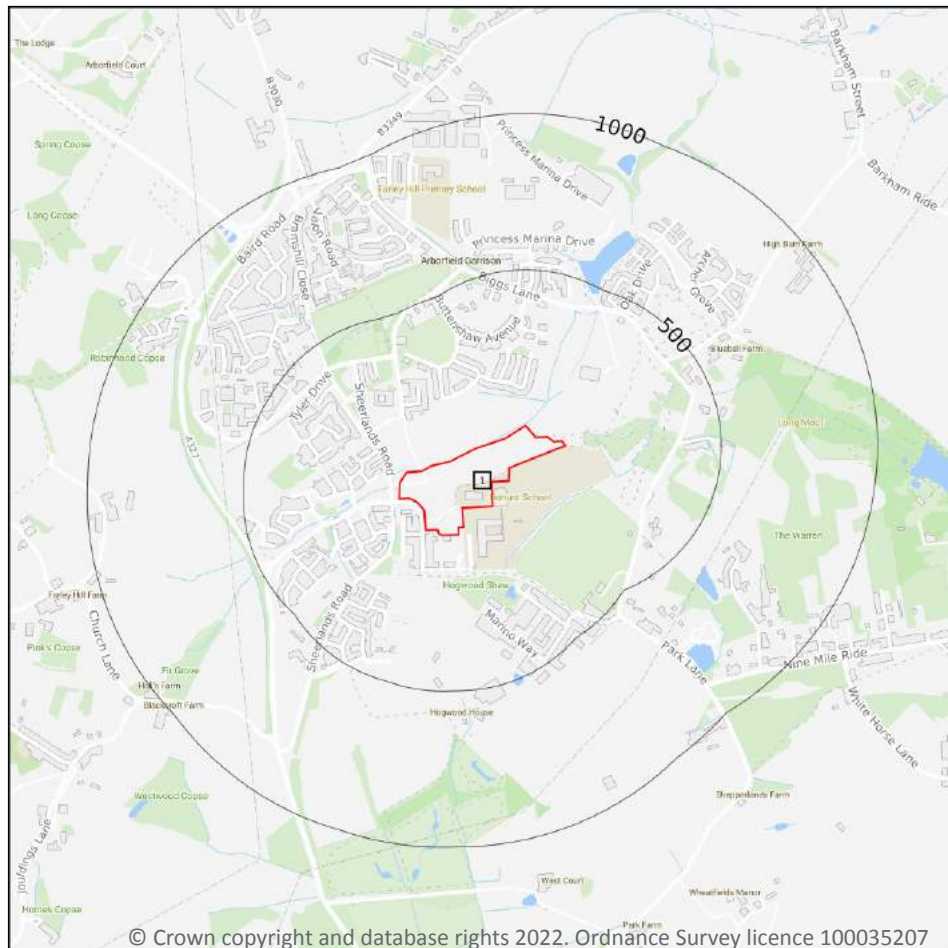
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline  
Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

#### Records within 500m

1

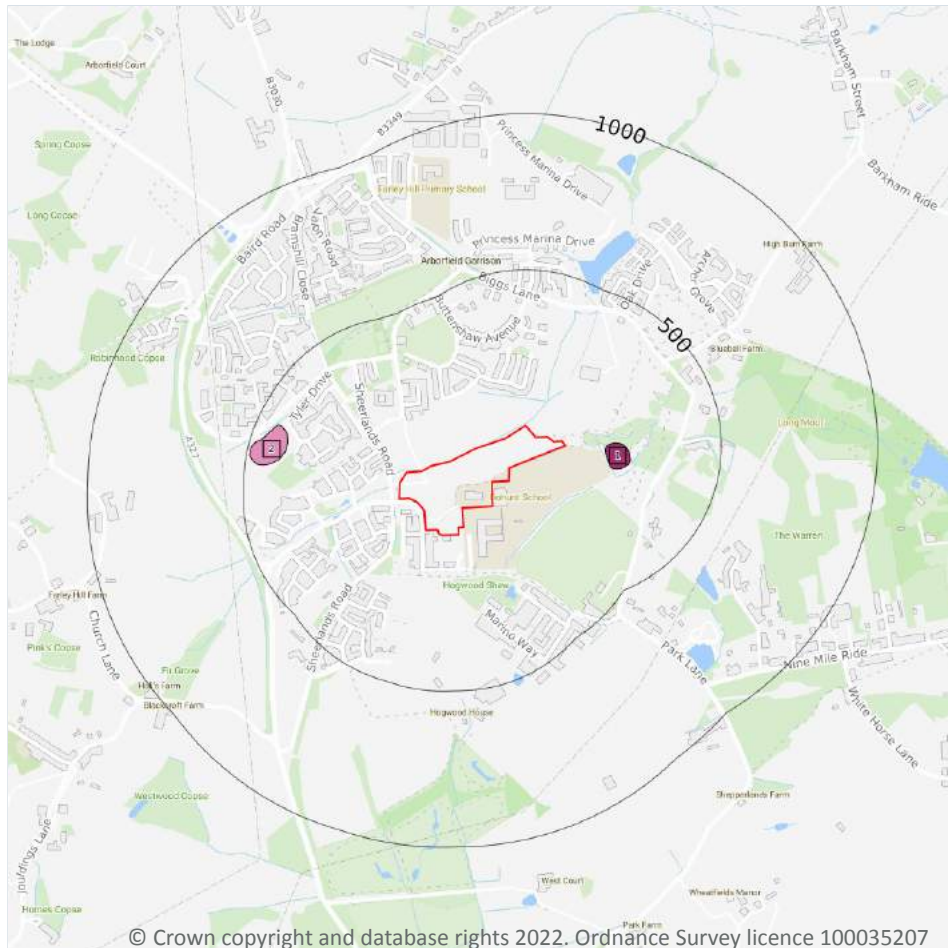
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 81**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No.        |
|----|----------|------------|-------------|---------|---------------|------------------|
| 1  | On site  | Full       | Full        | Full    | No coverage   | EW268_reading_v4 |

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Artificial and made ground



— Site Outline  
Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

### 15.2 Artificial and made ground (50k)

#### Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 82**

| ID | Location | LEX Code  | Description               | Rock description   |
|----|----------|-----------|---------------------------|--------------------|
| 1  | 128m E   | MGR-ARTDP | MADE GROUND (UNDIVIDED)   | ARTIFICIAL DEPOSIT |
| 2  | 380m W   | WGR-VOID  | WORKED GROUND (UNDIVIDED) | VOID               |

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*





## 15.5 Superficial permeability (50k)

Records within 50m

1

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

| Location | Flow type     | Maximum permeability | Minimum permeability |
|----------|---------------|----------------------|----------------------|
| 49m N    | Intergranular | High                 | Very Low             |

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

Records within 500m

0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

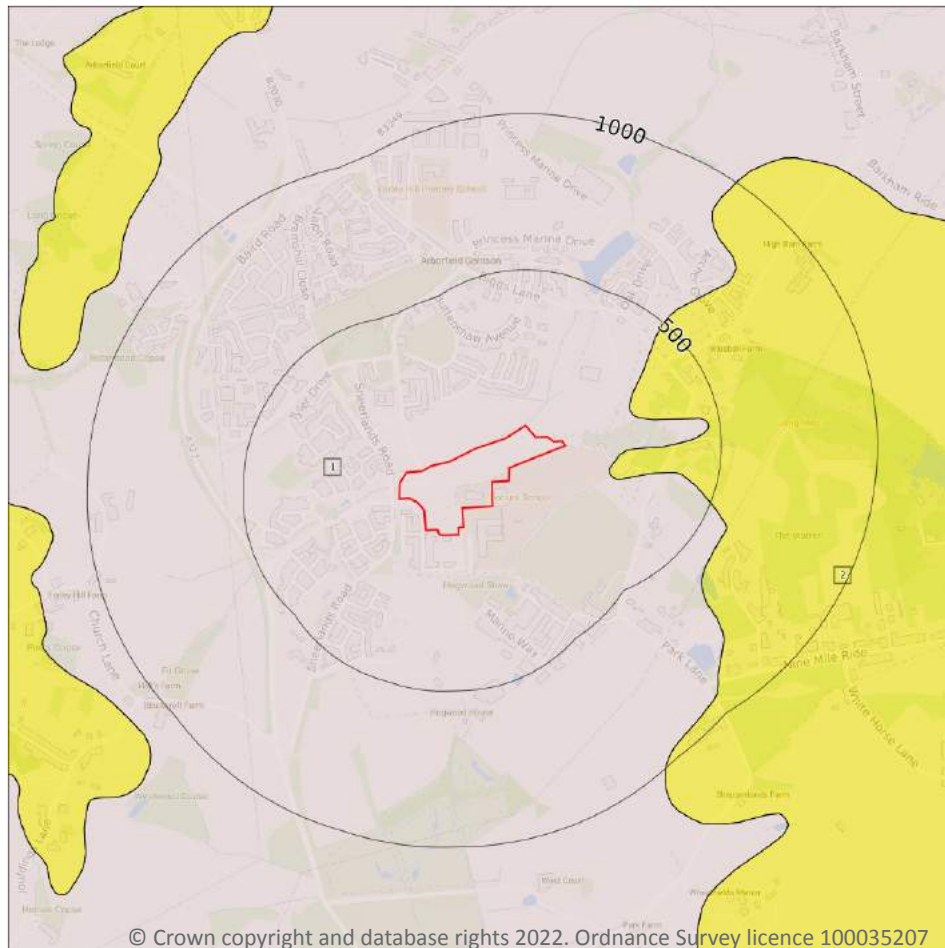
Records within 50m

0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Bedrock



**— Site Outline**

Search buffers in metres (m)

**.... Bedrock faults and other linear features (50k)**

**Bedrock geology (50k)**  
Please see table for more details.

### 15.8 Bedrock geology (50k)

#### Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 86**

| ID | Location | LEX Code | Description                                 | Rock age |
|----|----------|----------|---------------------------------------------|----------|
| 1  | On site  | LC-XCZS  | LONDON CLAY FORMATION - CLAY, SILT AND SAND | YPRESIAN |
| 2  | 160m SE  | BGS-S    | BAGSHOT FORMATION - SAND                    | YPRESIAN |

*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

**Records within 50m****2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | Moderate             | Very Low             |
| On site  | Mixed     | Moderate             | Very Low             |

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

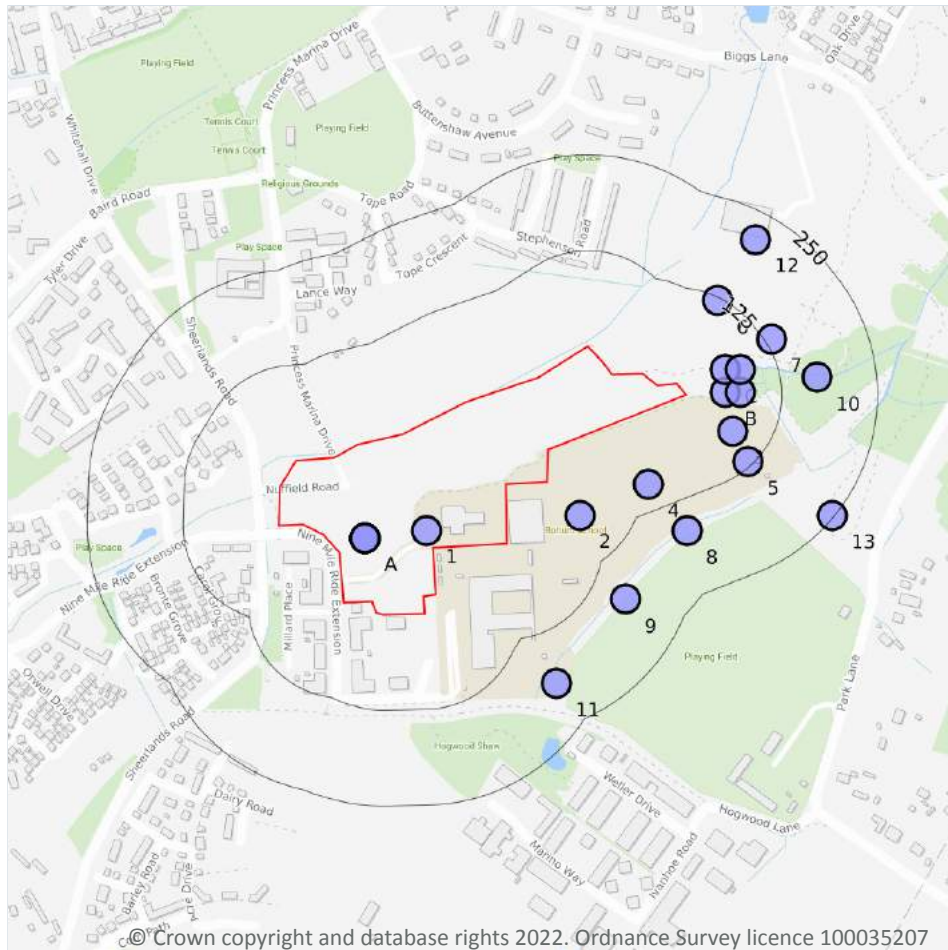
**Records within 500m****0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

*This data is sourced from the British Geological Survey.*



## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

### 16.1 BGS Boreholes

Records within 250m

28

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 88**

| ID | Location | Grid reference | Name                     | Length | Confidential | Web link               |
|----|----------|----------------|--------------------------|--------|--------------|------------------------|
| 1  | On site  | 476950 165090  | ARBORFIELD GARRISON 97   | 3.0    | N            | <a href="#">427084</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 3 | -      | Y            | N/A                    |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 4 | 3.6    | N            | <a href="#">426986</a> |

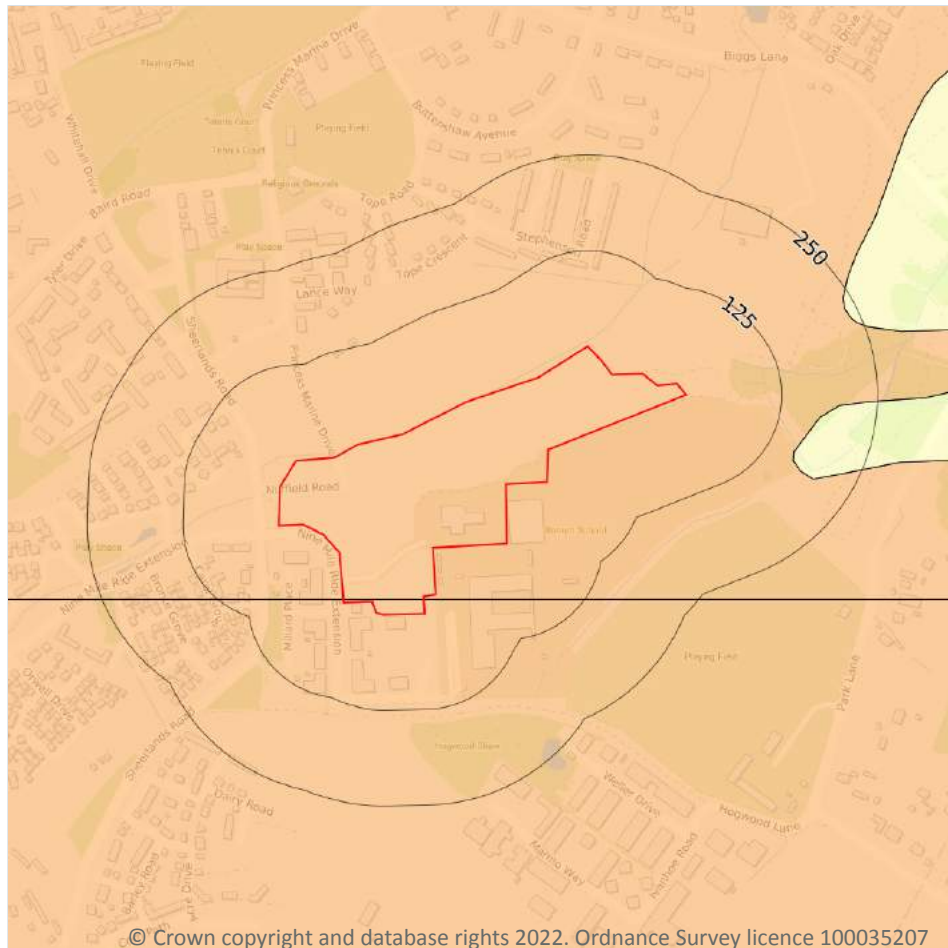


| ID | Location | Grid reference | Name                      | Length | Confidential | Web link               |
|----|----------|----------------|---------------------------|--------|--------------|------------------------|
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 7  | 3.3    | N            | <a href="#">426989</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 5  | 3.4    | N            | <a href="#">426987</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 11 | 3.4    | N            | <a href="#">426993</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 1  | 3.1    | N            | <a href="#">426983</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 8  | 3.8    | N            | <a href="#">426990</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 10 | 3.5    | N            | <a href="#">426992</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 2  | 3.5    | N            | <a href="#">426984</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 6  | 3.6    | N            | <a href="#">426988</a> |
| A  | On site  | 476870 165080  | ARBORFIELD GARRISON TP 9  | 3.5    | N            | <a href="#">426991</a> |
| B  | 51m E    | 477340 165270  | ARBORFIELD GARRISON 52    | 6.0    | N            | <a href="#">427040</a> |
| 2  | 61m SE   | 477150 165110  | ARBORFIELD GARRISON 98    | 3.0    | N            | <a href="#">427085</a> |
| C  | 61m NE   | 477340 165300  | ARBORFIELD GARRISON 50    | 10.0   | N            | <a href="#">427038</a> |
| B  | 71m E    | 477360 165270  | ARBORFIELD GARRISON 53    | 6.0    | N            | <a href="#">427041</a> |
| 3  | 77m SE   | 477350 165220  | ARBORFIELD GARRISON 94    | 3.0    | N            | <a href="#">427081</a> |
| C  | 78m NE   | 477360 165300  | ARBORFIELD GARRISON 51    | 6.0    | N            | <a href="#">427039</a> |
| 4  | 91m S    | 477240 165150  | ARBORFIELD GARRISON 99    | 3.0    | N            | <a href="#">427086</a> |
| 5  | 119m SE  | 477370 165180  | ARBORFIELD GARRISON 96    | 3.0    | N            | <a href="#">427083</a> |
| 6  | 121m NE  | 477330 165390  | ARBORFIELD GARRISON 90    | 3.0    | N            | <a href="#">427078</a> |
| 7  | 133m NE  | 477400 165340  | ARBORFIELD GARRISON 91    | 3.0    | N            | <a href="#">427079</a> |
| 8  | 165m S   | 477290 165090  | ARBORFIELD GARRISON 100   | 3.0    | N            | <a href="#">427087</a> |
| 9  | 172m SE  | 477210 165000  | ARBORFIELD GARRISON 103   | 3.0    | N            | <a href="#">427090</a> |
| 10 | 173m E   | 477460 165290  | ARBORFIELD GARRISON 93    | 3.0    | N            | <a href="#">427080</a> |
| 11 | 194m S   | 477120 164890  | ARBORFIELD GARRISON 105   | 3.0    | N            | <a href="#">427294</a> |
| 12 | 215m NE  | 477380 165470  | ARBORFIELD GARRISON 87    | 3.0    | N            | <a href="#">427075</a> |
| 13 | 247m SE  | 477480 165110  | ARBORFIELD GARRISON 101   | 3.0    | N            | <a href="#">427088</a> |

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.1 Shrink swell clays

#### Records within 50m

1

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

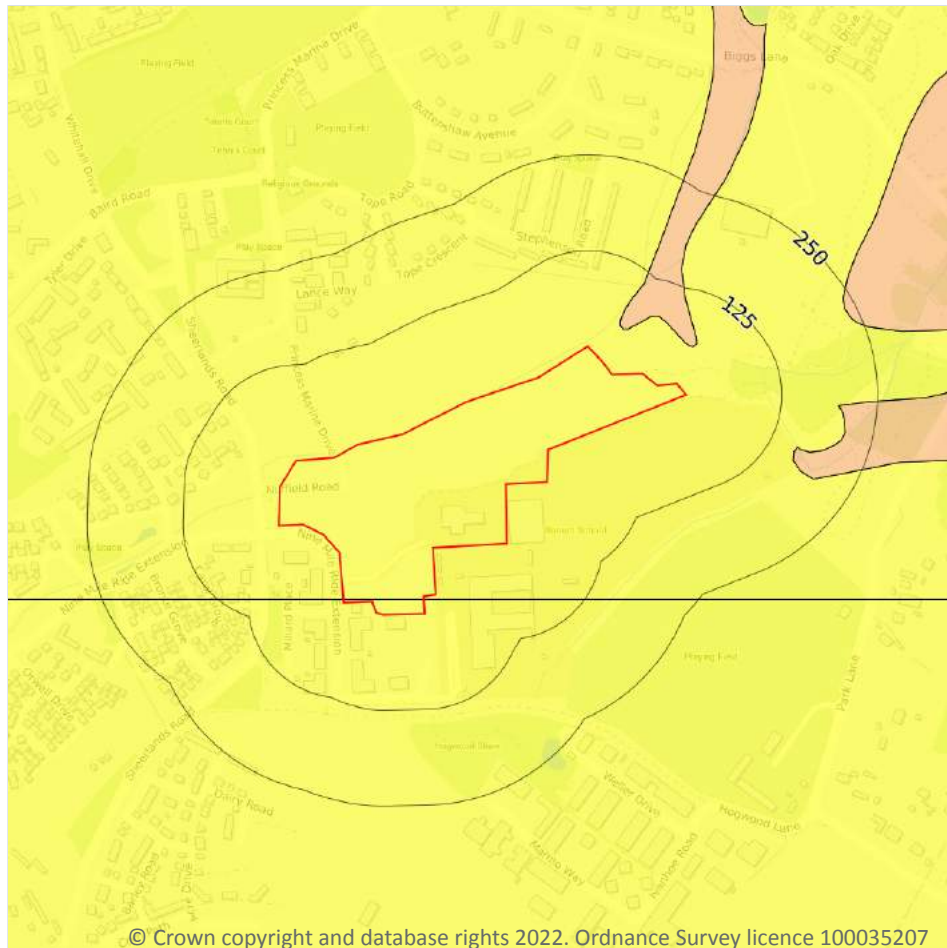
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 90**

| Location | Hazard rating | Details                                            |
|----------|---------------|----------------------------------------------------|
| On site  | Low           | Ground conditions predominantly medium plasticity. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☒ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.2 Running sands

#### Records within 50m

2

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 91**

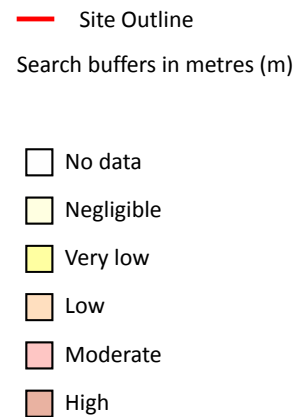
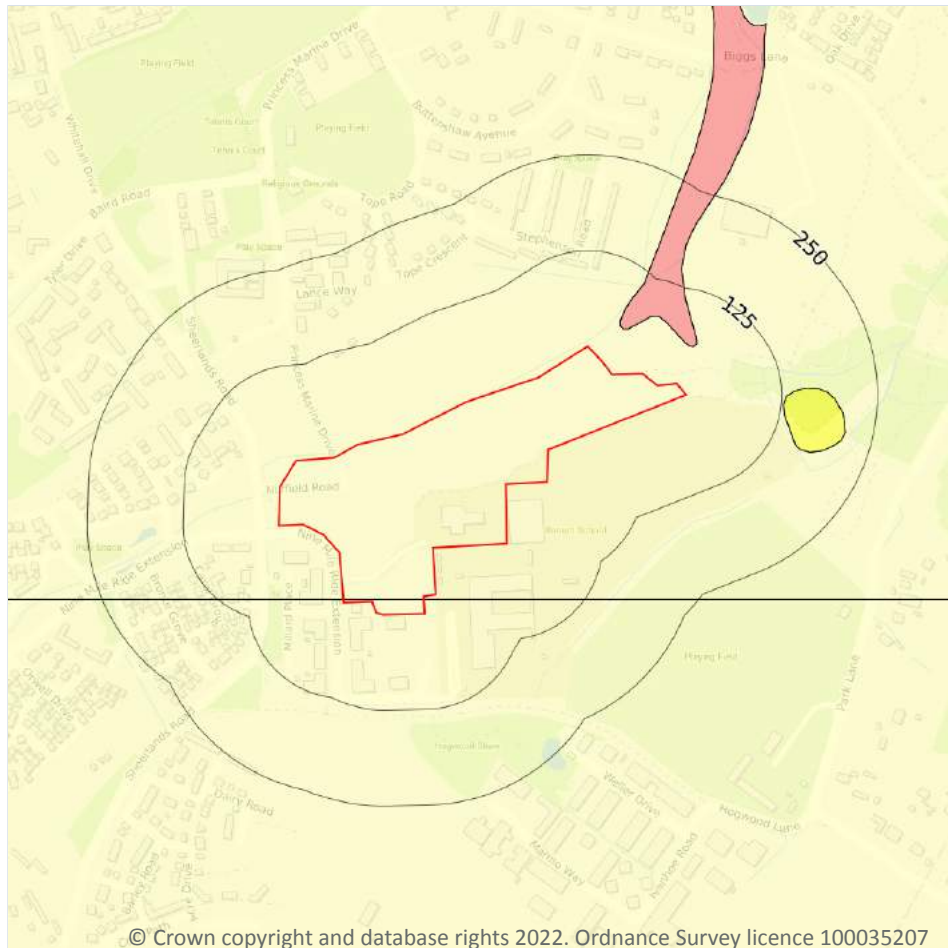
| Location | Hazard rating | Details                                                                                                                                 |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Very low      | Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly. |

| Location | Hazard rating | Details                                                                                                                              |
|----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 49m NE   | Low           | Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

#### Records within 50m

2

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

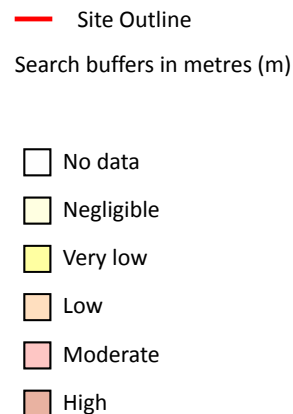
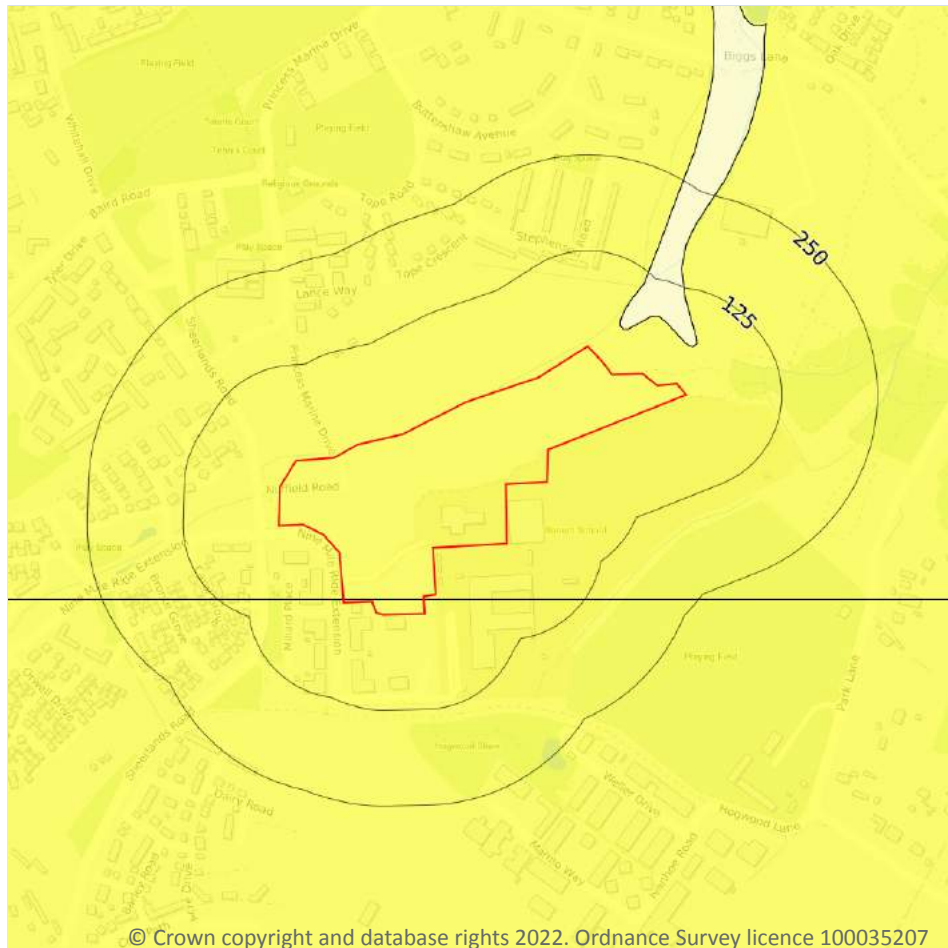
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 93**

| Location       | Hazard rating     | Details                                                                                                                                                    |
|----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>On site</b> | <b>Negligible</b> | <b>Compressible strata are not thought to occur.</b>                                                                                                       |
| 49m NE         | Moderate          | Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

#### Records within 50m

2

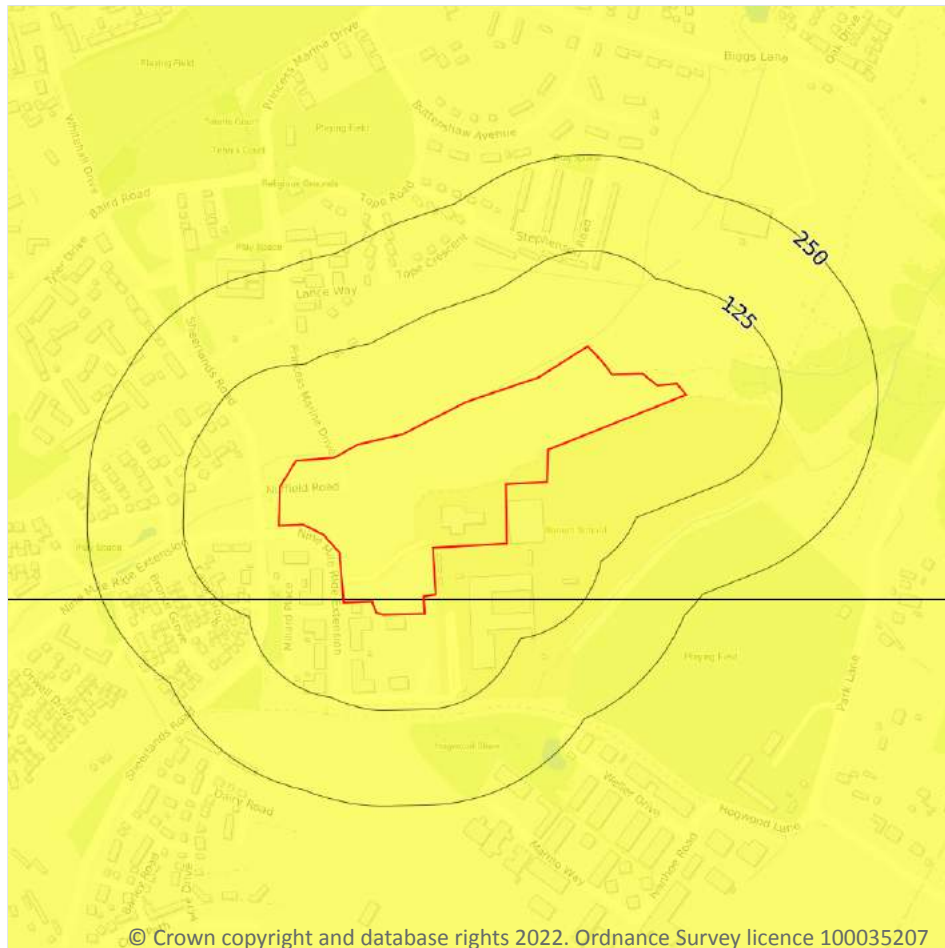
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 95**

| Location       | Hazard rating   | Details                                                                                          |
|----------------|-----------------|--------------------------------------------------------------------------------------------------|
| <b>On site</b> | <b>Very low</b> | <b>Deposits with potential to collapse when loaded and saturated are unlikely to be present.</b> |
| 49m NE         | Negligible      | Deposits with potential to collapse when loaded and saturated are believed not to be present.    |

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
  - ☐ Negligible
  - ☐ Very low
  - ☐ Low
  - ☐ Moderate
  - ☐ High

### 17.5 Landslides

#### Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

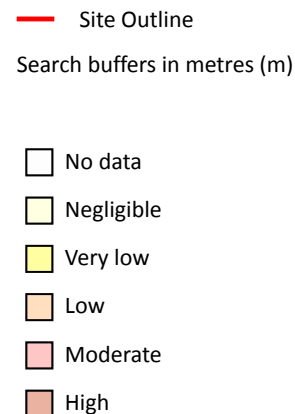
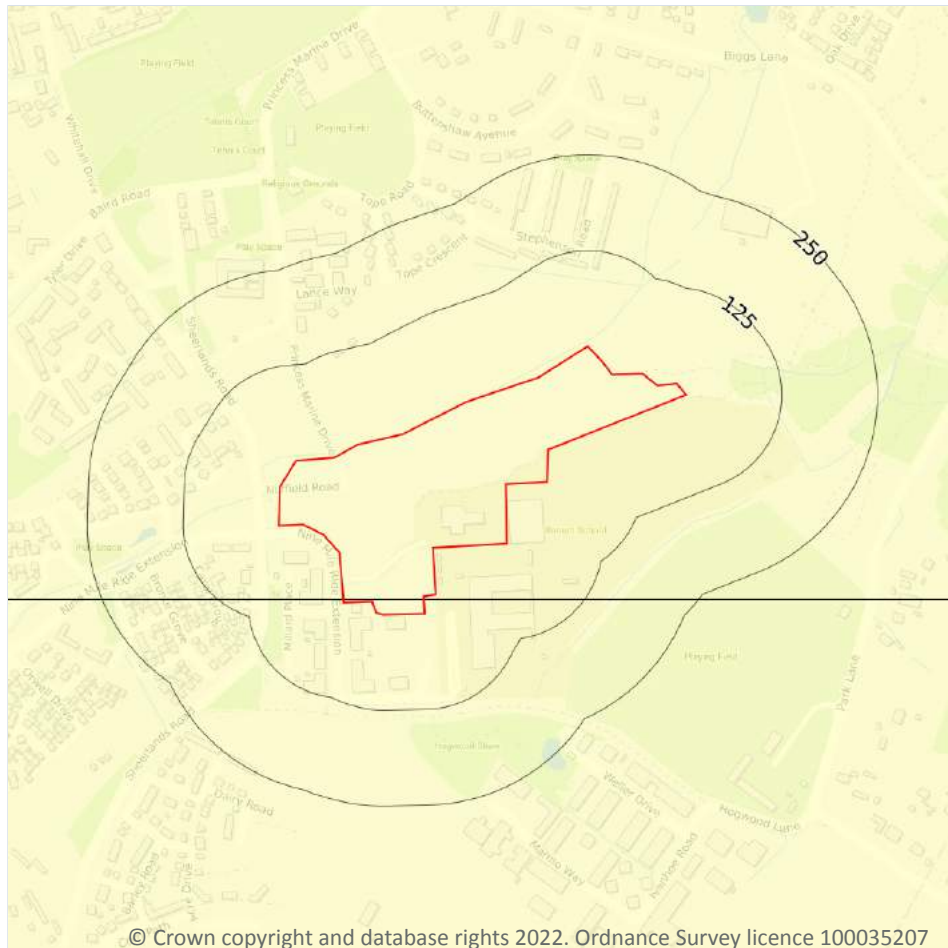
Features are displayed on the Natural ground subsidence - Landslides map on **page 96**

| Location | Hazard rating | Details                                                                                                                                                         |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Very low      | Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered. |

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

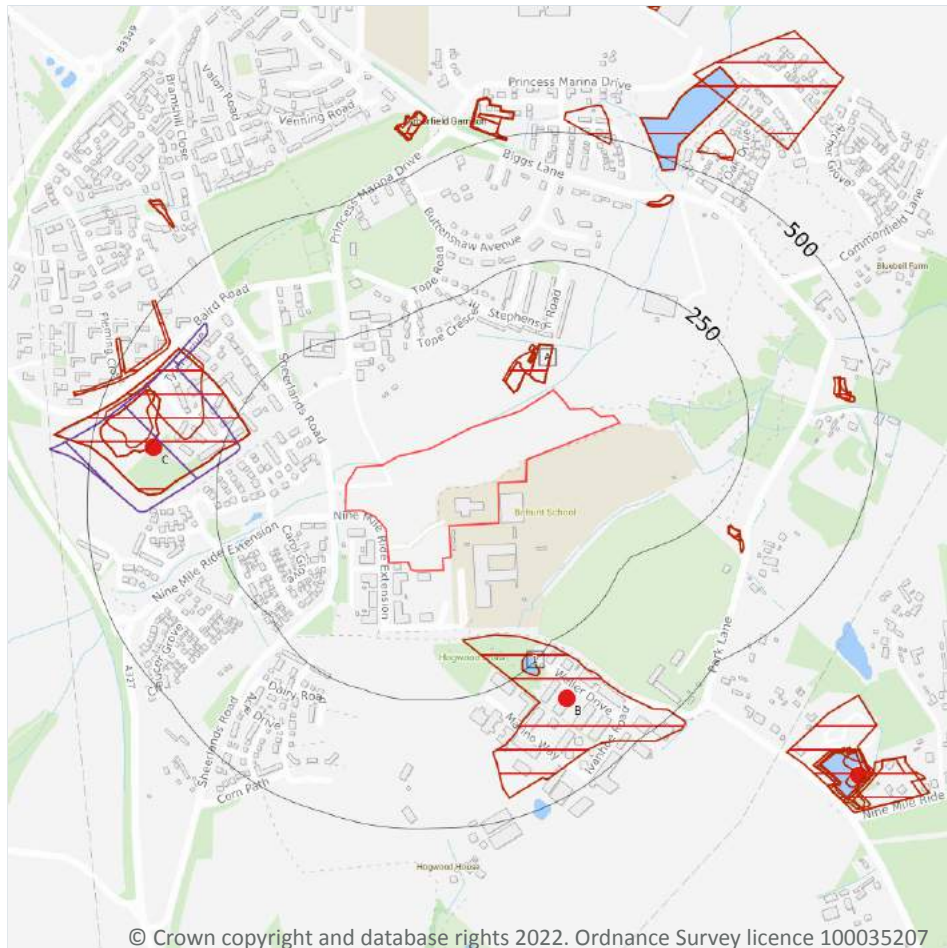
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 97**

| Location | Hazard rating | Details                                                                                                                                             |
|----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| On site  | Negligible    | Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present. |

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

### Records within 500m

**2**

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

| ID | Location | Details                                                                                                                           | Description                                                                                                                                                                                                                                                                                                                              |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 345m SE  | Name: Hogwood Shaw Brick Works<br>Address: Arborfield Garrison, WOKINGHAM, Berkshire<br>Commodity: Clay & Shale<br>Status: Ceased | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |
| C  | 379m W   | Name: Whitehall<br>Address: Arborfield, READING, Berkshire<br>Commodity: Clay & Shale<br>Status: Ceased                           | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

### Records within 250m

**13**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

| ID | Location | Land Use     | Year of mapping | Mapping scale |
|----|----------|--------------|-----------------|---------------|
| A  | 21m NW   | Filter Beds  | 1932            | 1:10560       |
| A  | 21m NW   | Filter Beds  | 1932            | 1:10560       |
| A  | 21m NW   | Filter Beds  | 1938            | 1:10560       |
| A  | 37m NW   | Filter Beds  | 1932            | 1:10560       |
| A  | 37m NW   | Filter Beds  | 1932            | 1:10560       |
| A  | 68m NW   | Sewage Tanks | 1932            | 1:10560       |



| ID | Location | Land Use             | Year of mapping | Mapping scale |
|----|----------|----------------------|-----------------|---------------|
| A  | 68m NW   | Sewage Tanks         | 1932            | 1:10560       |
| A  | 68m NW   | Sewage Tanks         | 1938            | 1:10560       |
| B  | 141m S   | Brick Works          | 1938            | 1:10560       |
| C  | 211m NW  | Brick and Tile Works | 1988            | 1:10000       |
| C  | 211m NW  | Brick and Tile Works | 1969            | 1:10000       |
| C  | 211m NW  | Brick and Tile Works | 1978            | 1:10000       |
| 1  | 229m SE  | Pond                 | 1977            | 1:10000       |

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

**Records within 1000m**

**0**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

*This data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m**

**1**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining, ground workings and natural cavities map on **page 98**

| ID | Location | Site Name | Mineral      | Type                    | Planning Status | Planning Status Date |
|----|----------|-----------|--------------|-------------------------|-----------------|----------------------|
| C  | 217m W   | Whitehall | Clay, bricks | Surface mineral working | Valid           | 06/47                |

*This data is sourced from the British Geological Survey.*



## 18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

Records on site

0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*

### 18.11 Gypsum areas

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

### 18.12 Tin mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

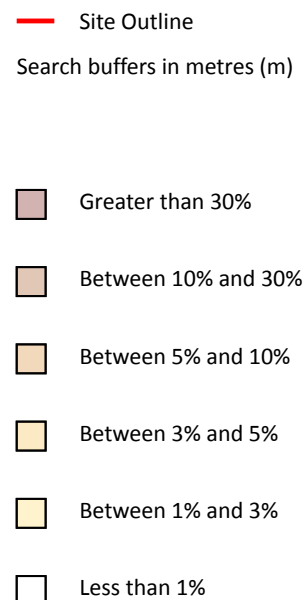
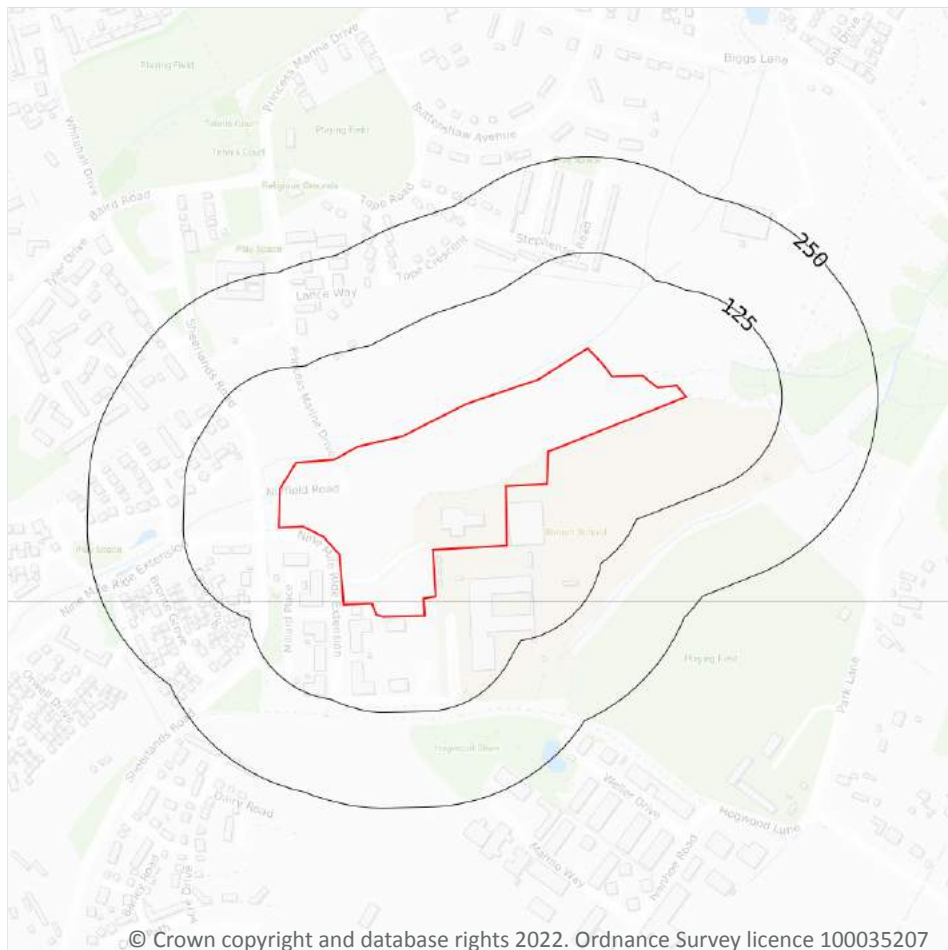
### 18.13 Clay mining

|                 |   |
|-----------------|---|
| Records on site | 0 |
|-----------------|---|

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*

## 19 Radon



### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 103**

| Location | Estimated properties affected | Radon Protection Measures required |
|----------|-------------------------------|------------------------------------|
| On site  | Less than 1%                  | None**                             |

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

10

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

| Location | Arsenic       | Bioaccessible Arsenic | Lead      | Bioaccessible Lead | Cadmium   | Chromium      | Nickel        |
|----------|---------------|-----------------------|-----------|--------------------|-----------|---------------|---------------|
| On site  | 15 - 25 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site  | 15 - 25 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site  | 15 - 25 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site  | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| On site  | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 39m S    | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 39m SE   | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 39m S    | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 39m SE   | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 49m NE   | 15 mg/kg      | No data               | 100 mg/kg | 60 mg/kg           | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |

*This data is sourced from the British Geological Survey.*



## 20.2 BGS Estimated Urban Soil Chemistry

**Records within 50m****0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*

## 20.3 BGS Measured Urban Soil Chemistry

**Records within 50m****0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*

## 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

**Records within 250m****0**

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

**Records within 250m****0**

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

**Records within 250m****0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

**Records within 250m****0**

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

*This data is sourced from Ordnance Survey/Groundsure.*

### 21.5 Royal Mail tunnels

**Records within 250m****0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

*This data is sourced from HS2 Ltd.*



## Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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Report Ref: GS-9016312  
Grid Ref: 477023, 165155

Map Name: County Series

Map date: 1898

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1898  
Edition N/A  
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Surveyed 1871  
Revised 1898  
Edition N/A  
Copyright N/A  
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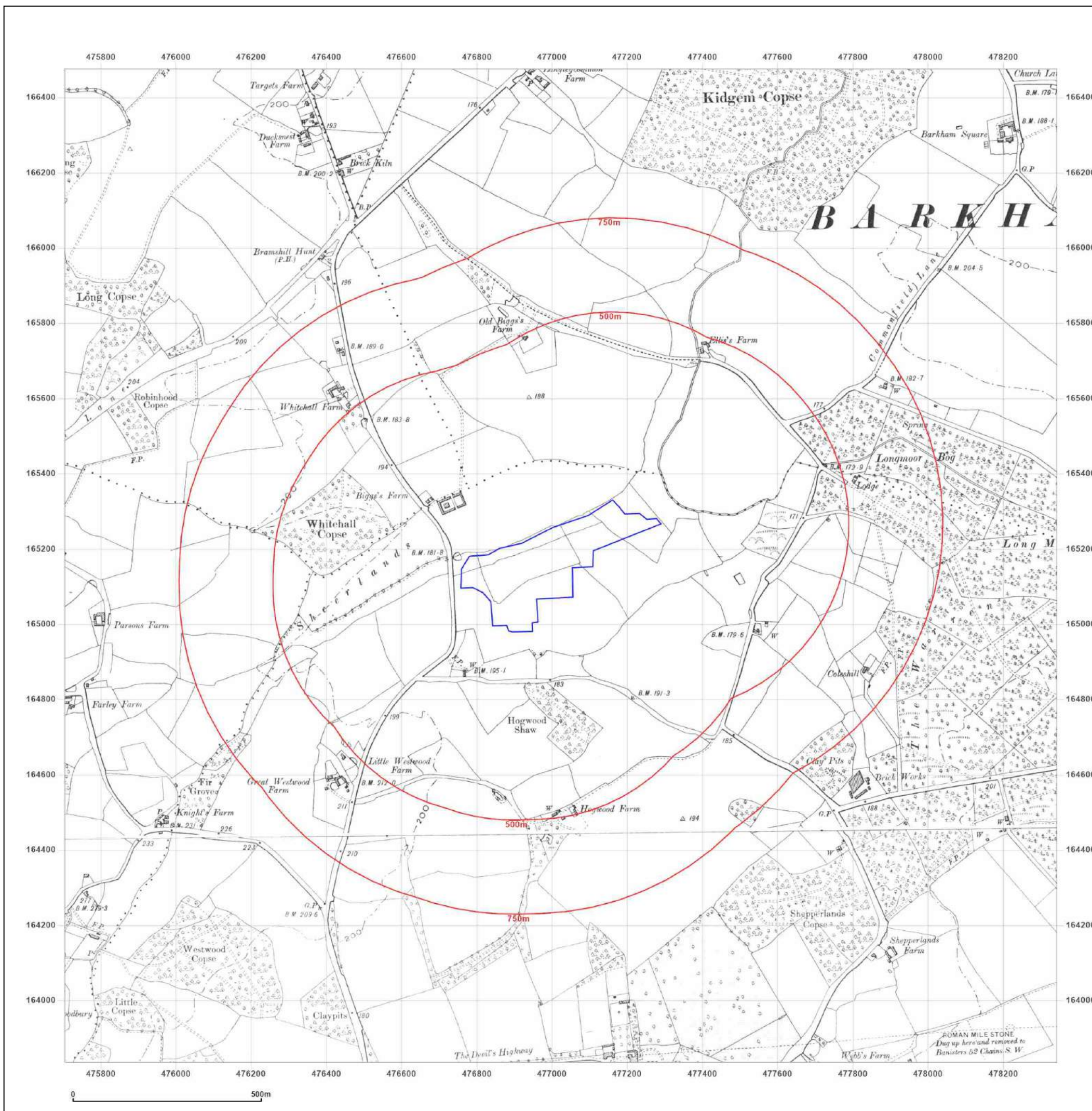


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**Report Ref:** GS-9016312  
**Grid Ref:** 477023, 165155

**Map Name:** County Series

**Map date:** 1909-1910

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1871  
Revised 1910  
Edition N/A  
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Surveyed 1871  
Revised 1909  
Edition N/A  
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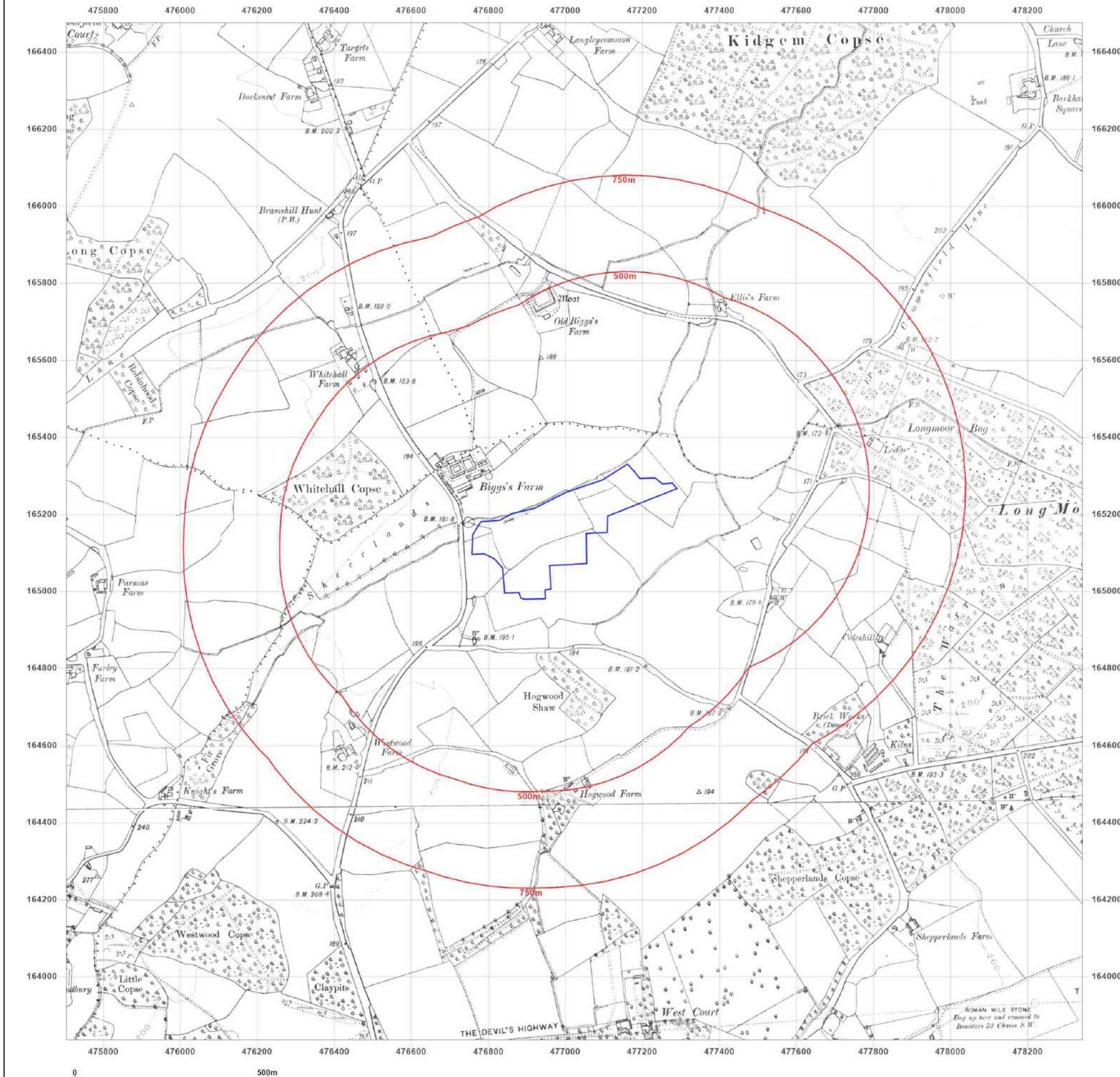


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**Report Ref:** GS-9016312  
**Grid Ref:** 477023, 165155

**Map Name:** County Series

**Map date:** 1930-1932

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1871  
Revised 1932  
Edition N/A  
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Surveyed 1871  
Revised 1930  
Edition N/A  
Copyright N/A  
Levelled N/A

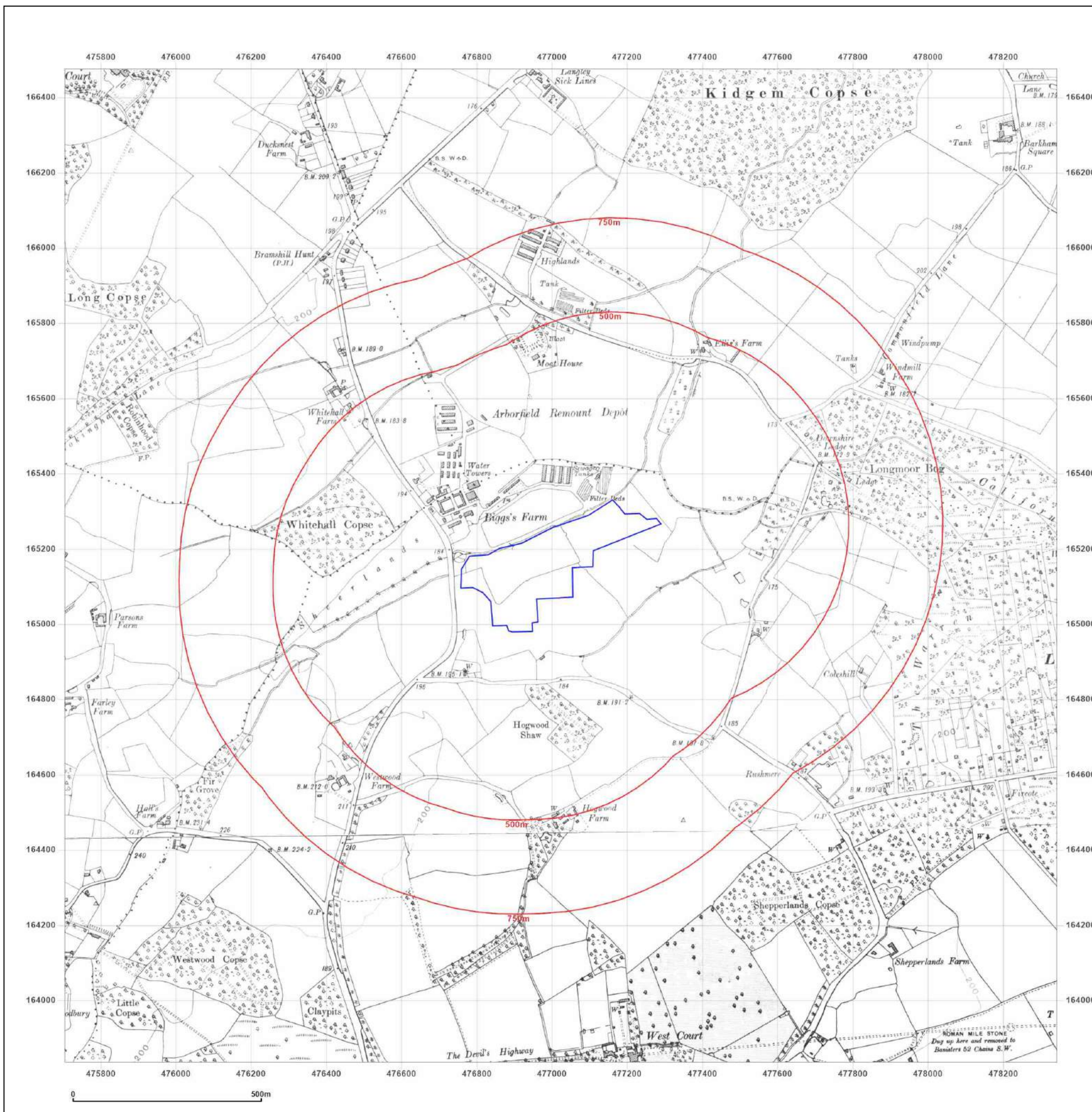


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**Map Name:** County Series

**Map date:** 1938

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Surveyed 1871  
Revised 1938  
Edition N/A  
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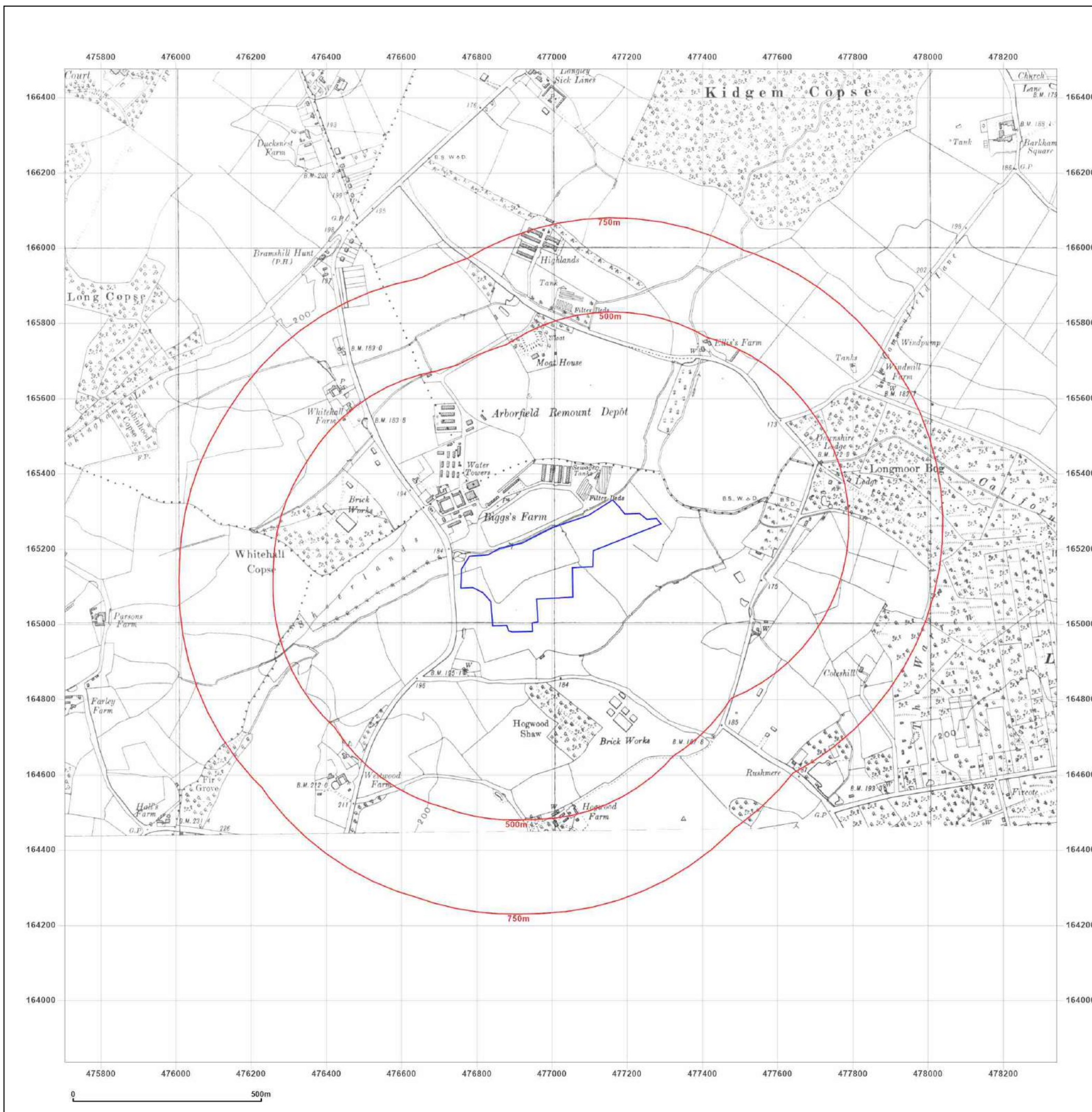


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Client Ref: db\_CN  
Report Ref: GS-9016312  
Grid Ref: 477023, 165155

Map Name: Provisional

Map date: 1960-1961

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956  
Revised 1956  
Edition N/A  
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Surveyed 1956  
Revised 1960  
Edition N/A  
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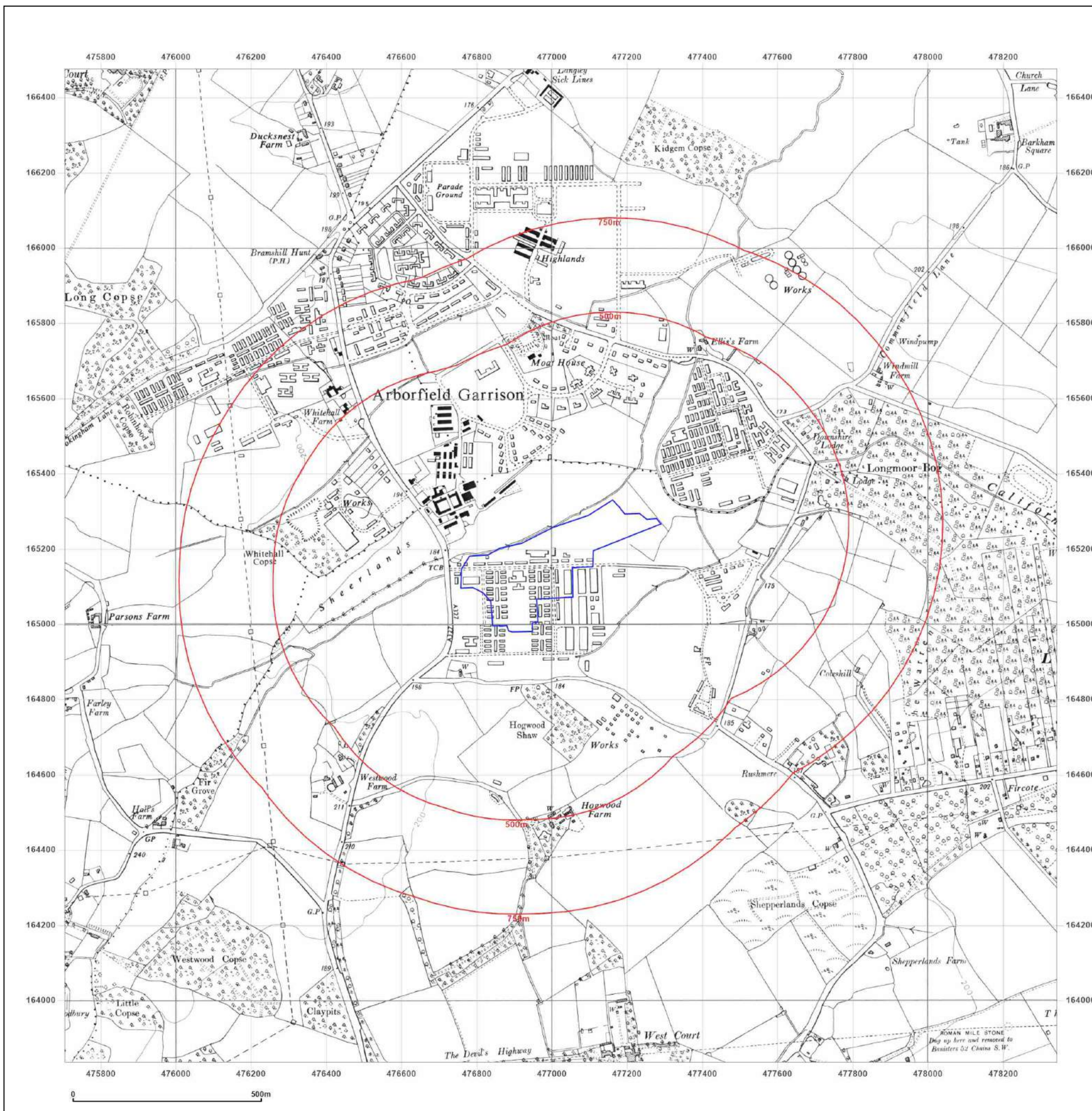


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Edition N/A  
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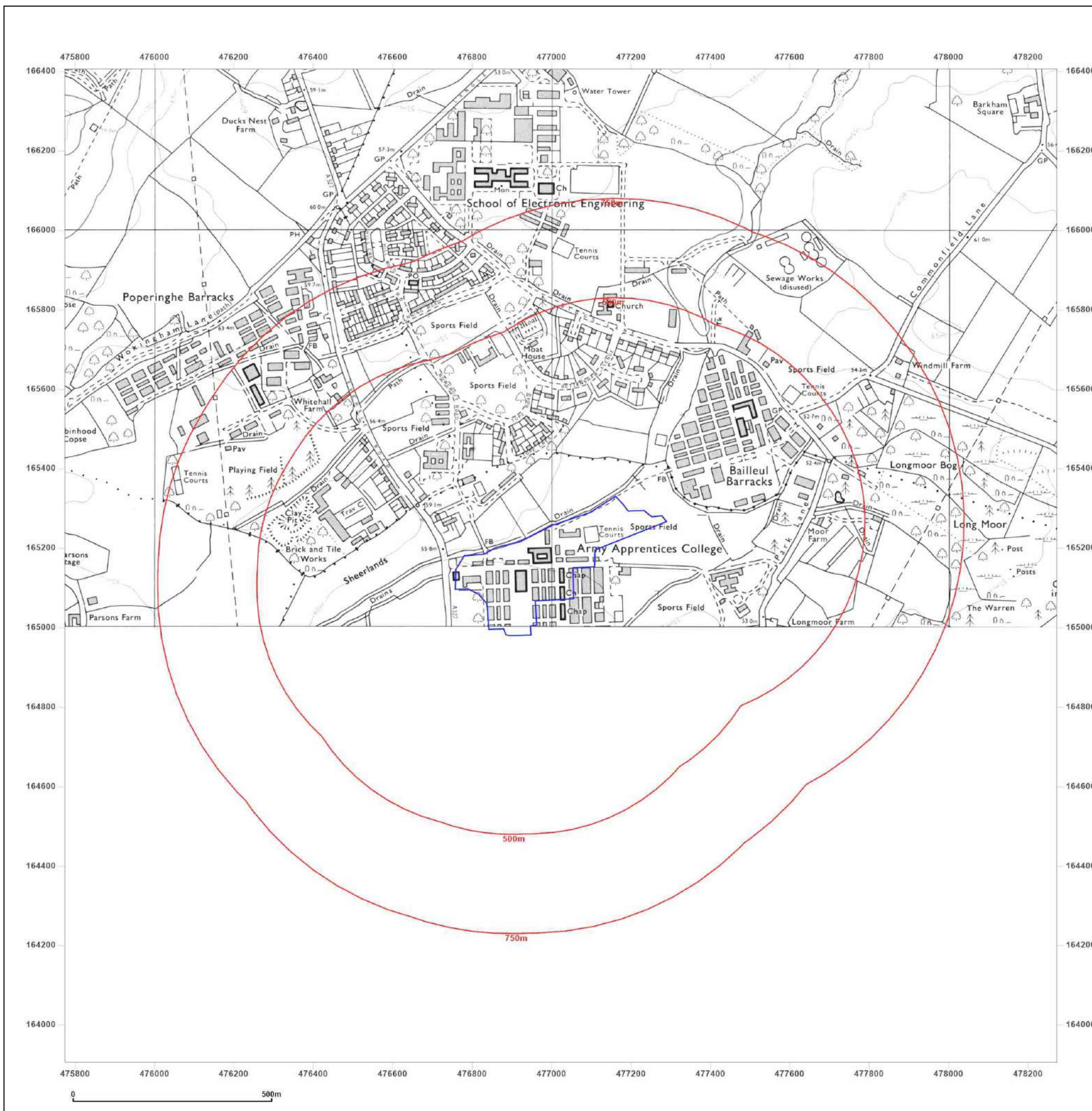


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**Report Ref:** GS-9016312  
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**Map Name:** Provisional

**Map date:** 1975

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1956  
Revised 1975  
Edition N/A  
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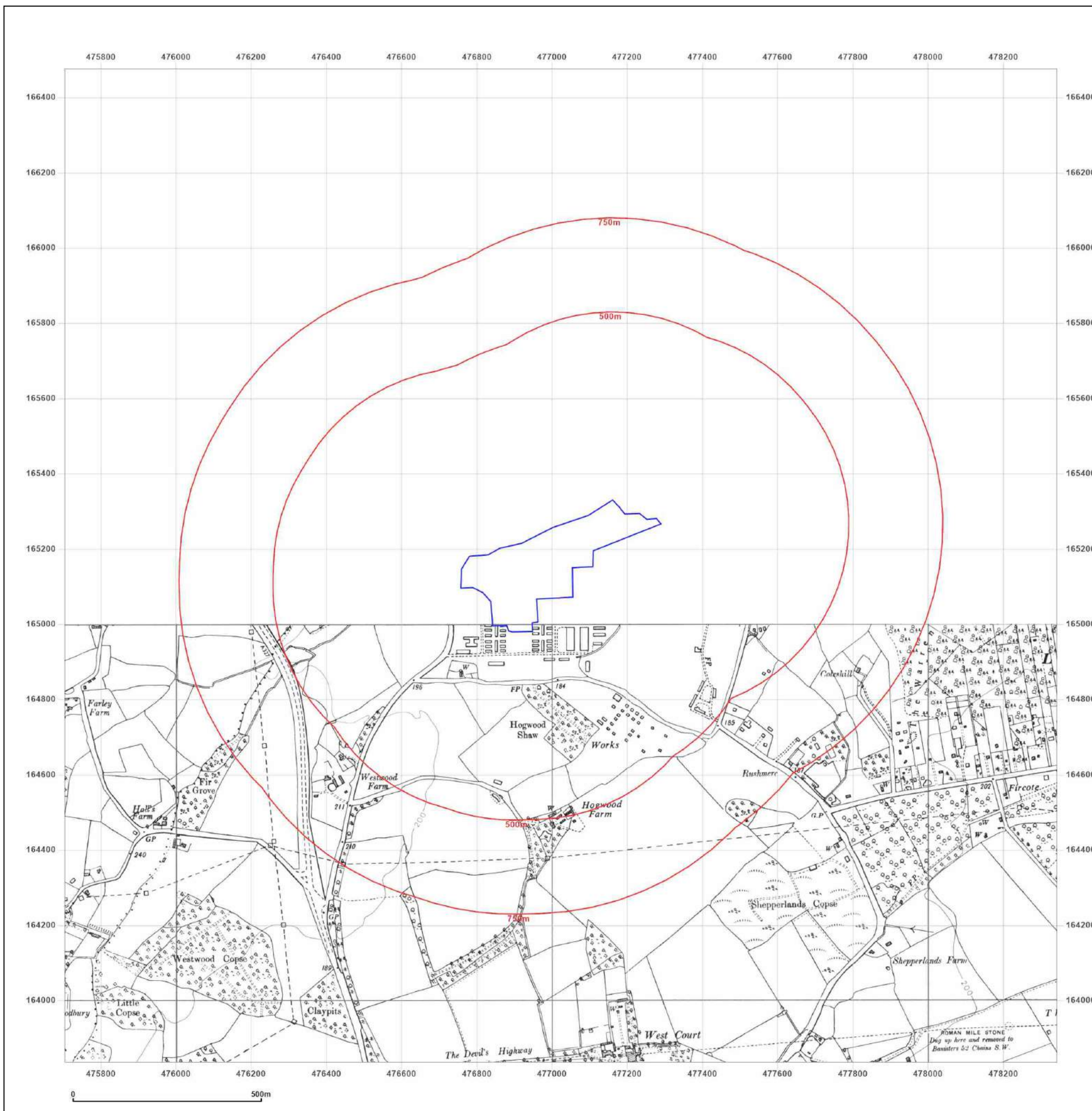


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Edition N/A  
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Surveyed 1974  
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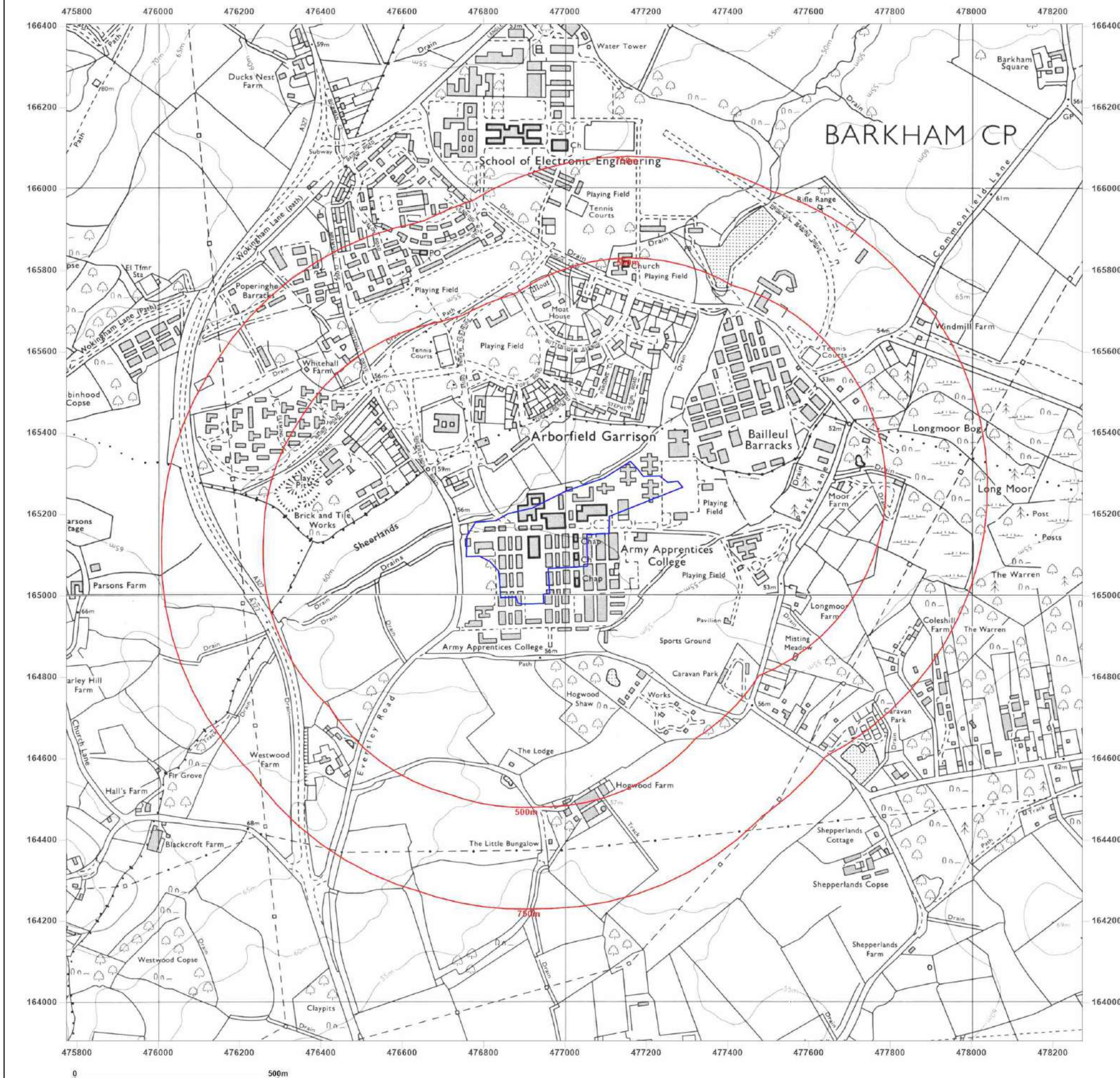


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**Map Name:** National Grid

**Map date:** 1988

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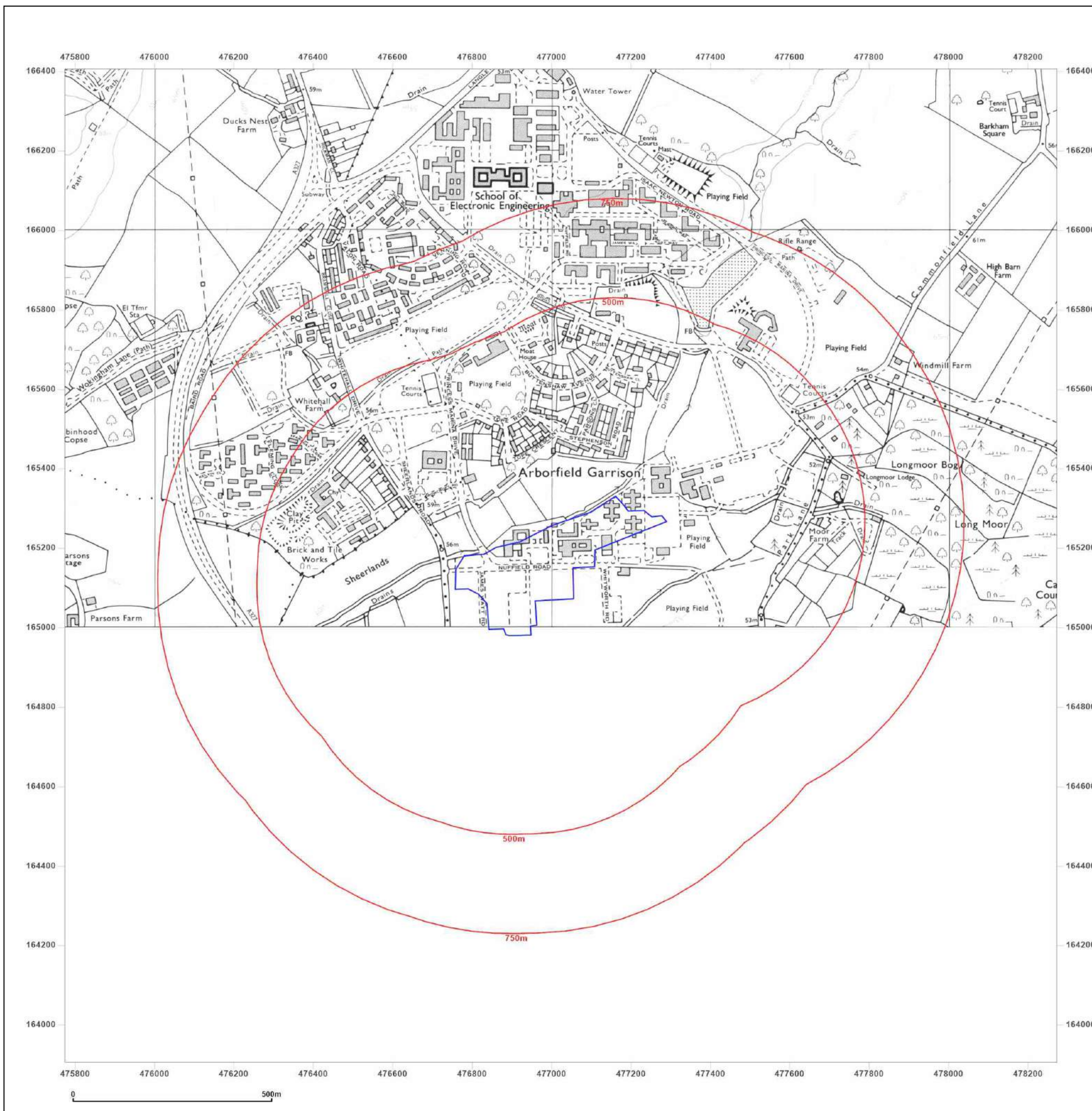


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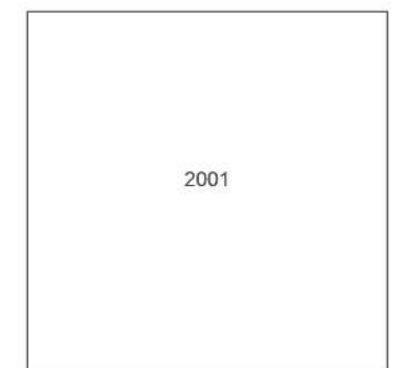
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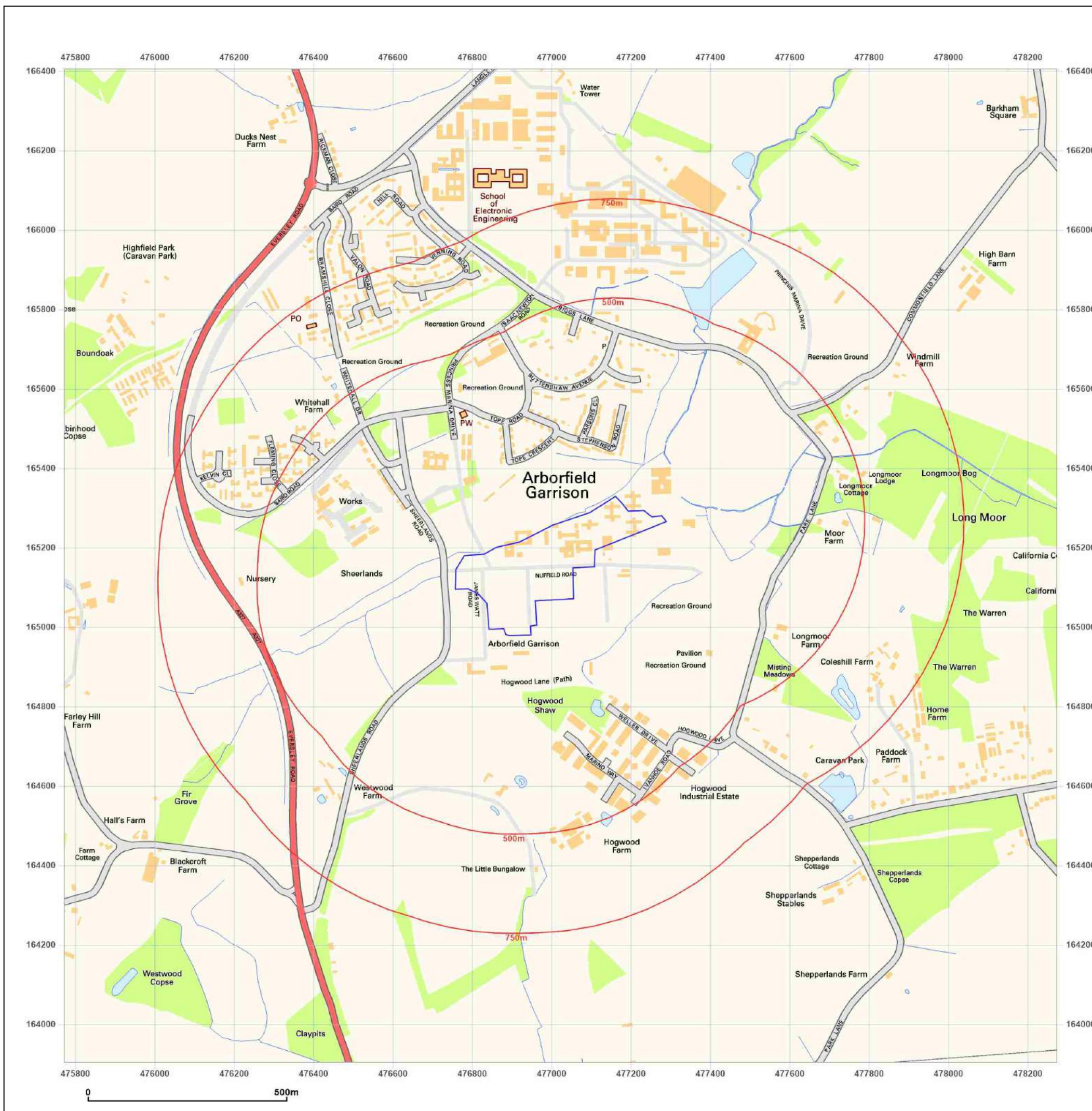


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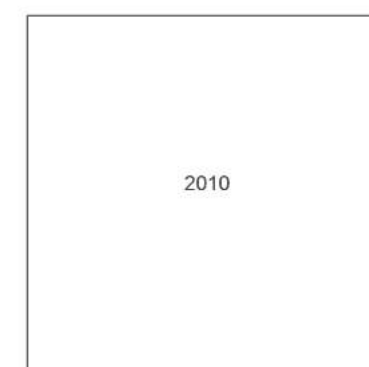
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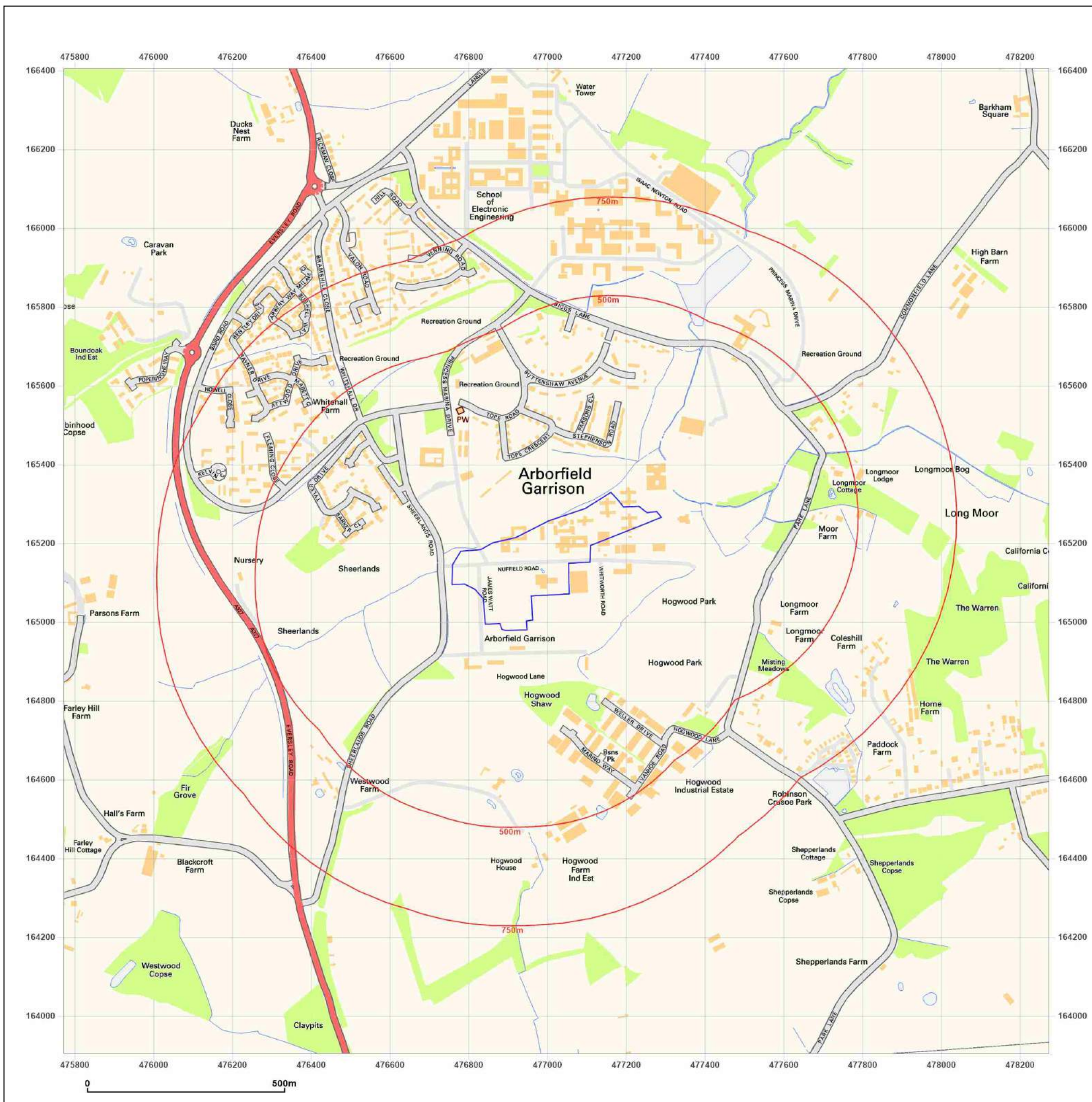


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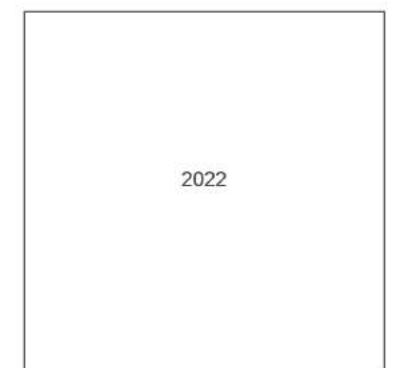
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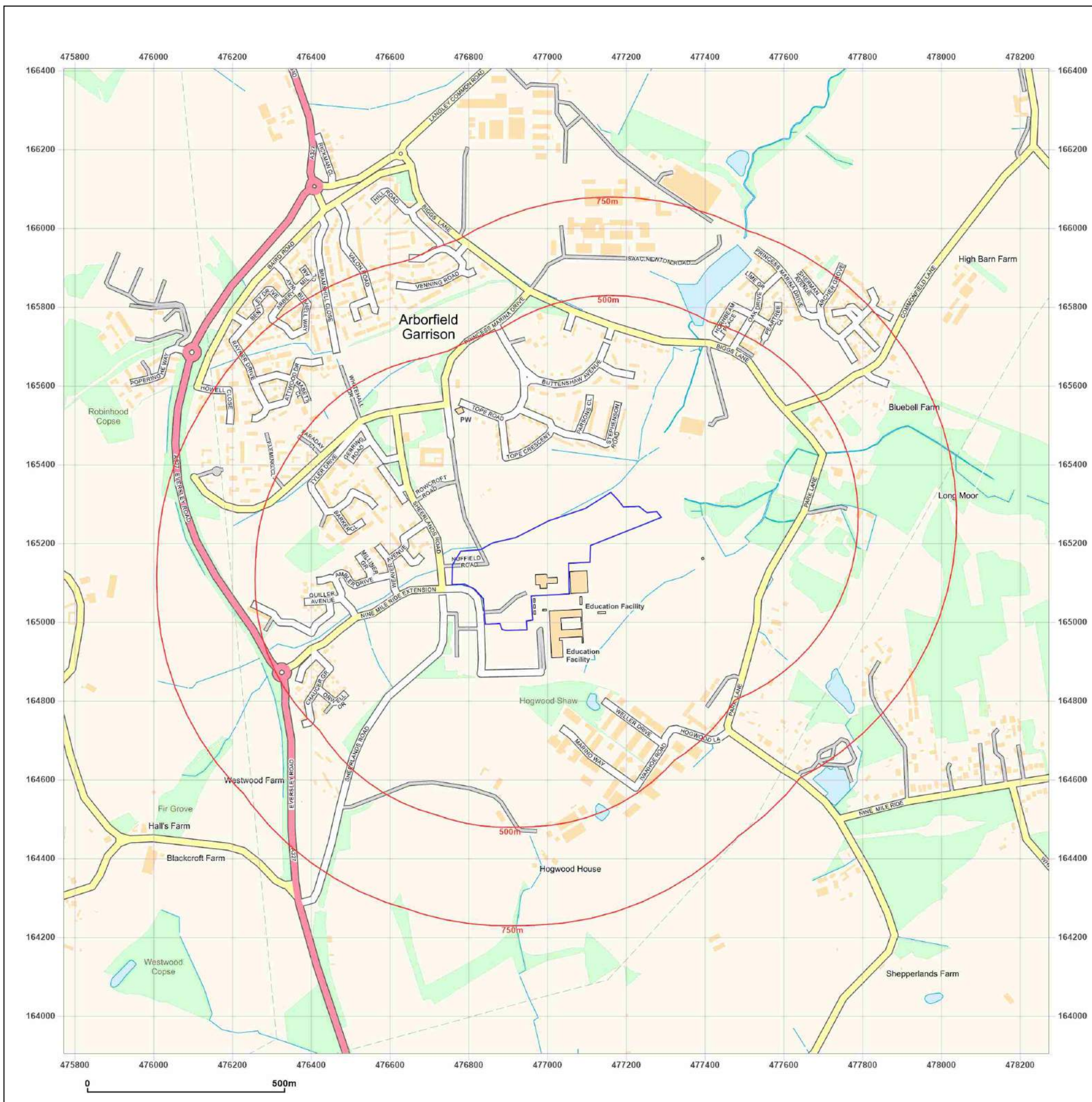


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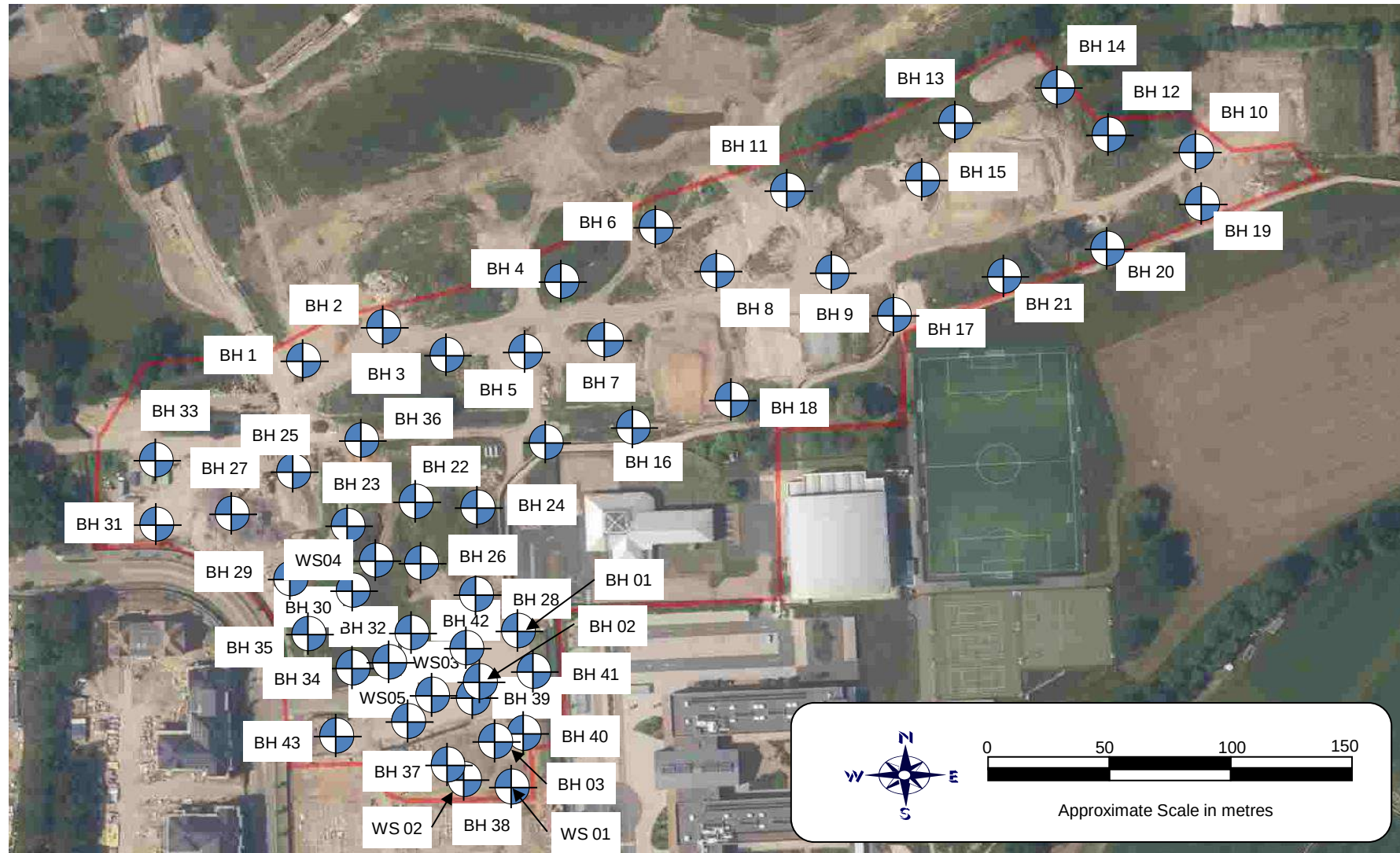
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**Site** Arborfield District Centre Parcel, Arborfield Garrison

**Client** Crest Nicholson



**Annotated with depth to base of MADE  
GROUND**

|               |                 |
|---------------|-----------------|
| <b>Client</b> | Crest Nicholson |
|---------------|-----------------|



A horizontal scale bar with markings at 0, 50, 100, and 150 metres. The bar is divided into segments: black from 0 to 50, white from 50 to 100, and black from 100 to 150.

