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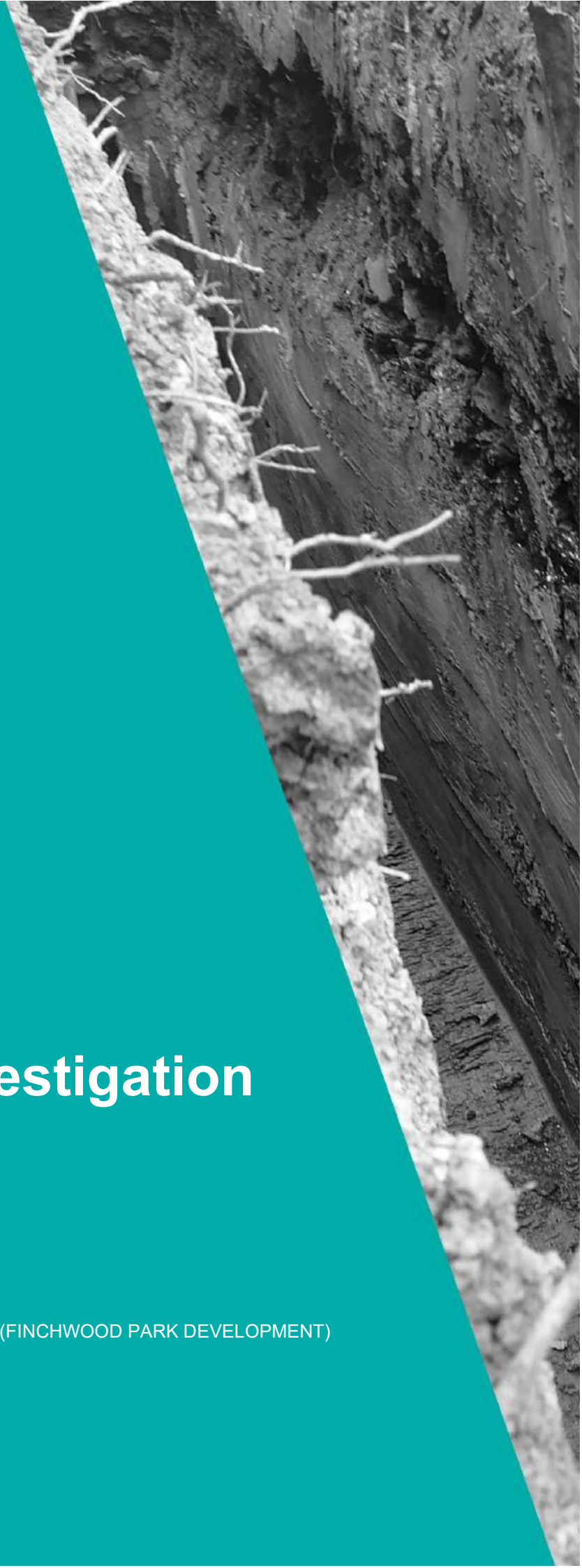

Phase 2 Site Investigation

NEIGHBOURHOOD CENTRE, HOGWOOD FARM (FINCHWOOD PARK DEVELOPMENT)

CALA HOMES THAMES

11 SEPTEMBER 2025

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PHASE 2 GEOTECHNICAL AND GEO-ENVIRONMENTAL SITE INVESTIGATION

NEIGHBOURHOOD CENTRE
HOGWOOD FARM
(FINCHWOOD PARK DEVELOPMENT)

FOR

CALA HOMES THAMES

ISSUE 1

41623-064 **11 September 2025**

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CONTENTS

APPENDICES

Appendix 1 Exploratory Hole Location Plan, Drawing Reference: 41623/031 Rev A

Appendix 2 Trial Pit Logs (TP1-NC – TP3-NC)
Cable Percussion Borehole Log (BH1-NC)

Appendix 3 Chemical Test Results (17-19872 & 25-042363-1)
Table of Assessment Values – Public Open Space Near Housing

Appendix 4 Geotechnical Test Results (GEO/43098)

Appendix 5 Groundwater Monitoring Report, reference 41623/007

1.0 EXECUTIVE SUMMARY

1. This report presents the findings of a Geotechnical and Geo-Environmental Site Investigation carried out by Eastwood Consulting Engineers.

2. The site is part of the wider Finchwood Park Development, accessed off Nine Mile Ride Extension (road), around 1.3 km to the south of Arborfield Garrison in Berkshire.

3. The site is relatively level and predominately comprises undeveloped land locally covered by grass and scrub vegetation, with disused haul roads crossing the site in various orientations. Numerous stockpiles are present on the site, as well as areas used for storing building materials. An area in the south is utilised as a drainage bund for road sweeper spoil.

4. The solid geology at the site is shown to comprise the London Clay Formation. No superficial deposits are indicated to be present.

5. The bedrock is classified as Unproductive Strata and the site does not lie within a groundwater Source Protection Zone.

6. No radon precautions or ground gas protective measures are considered to be required.

7. The ground conditions comprise topsoil or made ground over natural deposits of the London Clay Formation. Made ground was identified in three locations to a maximum depth of 1.5 m bgl.

8. Groundwater was not encountered in any trial pits excavated; however, previous groundwater monitoring has suggested that shallow groundwater may be present, particularly during wetter months.

9. For the majority of the site, traditional strip and trench fill foundations are expected to be appropriate, founded at a minimum depth of 900 mm in the natural clay strata.

10. Foundations will require deepening where within influence of trees, in accordance with NHBC Standards Chapter 4.2. Heave precautions will be required wherever the foundation depth exceeds 1.5 m due to the influence of past or present trees, or for piled within the influence of trees.

11. It has been suggested that levels will be raised at the site, meaning that piling may be a more economical foundation solution. Analysis has shown that conventional driven piles should be sufficient.

12. It is assumed that precast concrete floors with a minimum 150 mm high ventilated void beneath will be used. The ventilated void height will need to be increased to 250 mm high where heave precautions are required.

13. Soakaways are not considered to be a viable form of surface water drainage due to the presence of cohesive strata.

14. No elevated concentrations of contaminants have been identified within the topsoil or natural ground. Therefore no risk to human health or plants have been identified and the topsoil and natural ground across the site can be considered suitable for reuse.

15. No elevated concentrations of contaminants were recorded in the made ground, however due to the physical nature of this material, it is recommended that a minimum of 450 mm of clean soil, including at least 100 mm of topsoil, is placed over made ground where it is present in soft landscaped areas.

16. DS-3 AC-3 sulphate precautions will be required for below ground concrete in contact with the made ground. DS-2 AC-2 sulphate precautions are appropriate for concrete in contact with the weathered London Clay Formation (i.e. at <3 m bgl), increased to DS-4 AC-4 precautions for concrete in contact with the unweathered London Clay Formation (i.e. at >3 m bgl).

17. The conclusions made in this report are subject to agreement by the approving bodies and your warranty provider.

2.0 INTRODUCTION

2.1 Terms of Reference

This report presents the findings of a Phase 2 Geotechnical and Geo-environmental Site Investigation carried out by Eastwood Consulting Engineers (ECE) on the instructions of, CALA Homes Thames. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

2.2 Context

ECE (then Eastwood & Partners) undertook a broader site investigation that encompasses the Neighbourhood Centre in 2017. Report reference CAT/RAN/SAE/41623-002, dated 21 August 2017, should therefore be read in conjunction with this report.

One trial pit (TP23) undertaken as part of that investigation has been referred to within this report as it is shown to be located within the Neighbourhood Centre site boundary.

No other intrusive investigations are known to have been undertaken on the site in the past.

2.3 Aims and Objectives

The aims and objectives of this additional investigation were as follows.

- Detail the ground conditions and their geotechnical properties enabling outline foundation proposals to be made for the proposed development;
- Carry out tiered risk assessment to establish the likely risks to future receptors, involving the use of generic risk assessment criteria and where unacceptable risks are identified, site specific assessment criteria within a detailed quantitative risk assessment;
- Identify feasible remediation options if unacceptable risks are highlighted; and
- Develop and appropriate remediation strategy where remediation is required.

2.4 Scope of Investigation

The investigation consisted of intrusive site works and laboratory analysis. The findings were used to test the conceptual model and produce a final risk assessment.

The intrusive works comprised trial pits which were completed to enable:

- Examination of the upper few metres of ground;
- In situ description of soils, enabling any localised lateral and vertical changes in soil conditions to be logged;
- Assessment of any contamination identified using visual and olfactory methods; and
- Collection of soil samples for chemical and geotechnical testing.

A cable percussion borehole was also undertaken for the purposes of determining the ground conditions at depth to assist with pile design.

2.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with a single building of conventional design for the purposes of community use. Earthworks to raise the levels across the site are believed to be proposed. This has been taken account of in the recommendations made within this report, and therefore, should the proposals change significantly, the recommendations may not be appropriate.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the ground conditions encountered during the site work, on the results of laboratory testing carried out as part of the investigation and information gained from a geological and historical desk study. However, there may be conditions at the site that have not been taken into account, such as unpredictable soil strata and water conditions between or below investigation points. It should be noted that groundwater levels vary due to seasonal or other effects, and may at times differ from those measured during the investigation.

This report considers the ground and groundwater and does not cover any buildings or their fabric or the constituents of any existing hardstanding materials. Generally, testing has only been carried out for contaminants identified as potentially present with no assessment made of biological contamination. Risks to ecological receptors, such as bats, have not been considered.

3.0 THE SITE

3.1 Description

The Neighbourhood Centre is located to the northwest of Phase 3 of the wider Finchwood Park Development. It is located approximately 1.3 km southeast of Arborfield Garrison in Berkshire at grid reference 477135, 164458. Access to the site at the time of the investigation was off a partially constructed carriageway to the south, with access to the remainder of the site via haul roads.

The site has an area of approximately 0.7 hectares, is irregular in plan and relatively level. The site predominately comprises undeveloped land covered by grass and scrub vegetation, with disused haul roads running southeast to northwest and northeast to southwest. Numerous stockpiles of demolition and site-won material were also present within the site boundary, predominately covering areas in the south and northeast of the site. Areas in the east and north of the site were used for building material and drainage infrastructure storage. An area in the south of the site was also used as a disposal bund for road sweeper spoil.

The site is bordered to the east, south and west by further Finchwood Park Development. The site is bordered to the north by the Nine Mile Ride Extension (road) with further land parcels of the Finchwood Park Development beyond this.

The information presented in this report relates solely to the unoccupied 0.7 hectare former agricultural area which is known as Neighbourhood Centre (herein referred to as ‘The Site’), except where specifically stated otherwise.

4.0 SUMMARY OF PHASE 1 ASSESSMENT

A Phase 1 assessment of the broader site (of which the subject site is a part of) was undertaken as part of our initial wider site investigation in 2017, reference CAT/RAN/SAE/41623-002, and should be read in conjunction with this Phase 2 report. The pertinent points specifically relevant to Neighbourhood Centre are summarised in the sections below.

4.1 Site History

Historical Ordnance Survey maps obtained as part of the Envirocheck Report have been studied to assess the previous use of the site.

4.1.1 The Site

The historical mapping shows that the site has remained predominately undeveloped throughout the course of the mapping period.

The earliest historical maps show a number of structures, later referred to as ‘Hogwood Farm’ directly adjacent to the northeast of the current subject site and within the site boundary in the northeast.

By 1988, a ‘pond’ is shown directly adjacent to the north of the current subject site and partially within the site boundary in the north, also with an embankment on the southwestern side of the pond.

Google Earth satellite imagery, indicates that circa February 2022, the pond has been removed and that circa May 2025 the structures referred to as ‘Hogwood Farm’ have also been removed.

4.1.2 The Surrounding Area

The earliest historical maps show the surrounding area predominantly comprises agricultural land. A clay pit and brickworks are shown immediately to the north east of Hogwood Farm and approximately 560 m east of the current subject site. Old sand and gravel pits are labelled beyond the extent of Hogwood Farm to the south west (greater than 1 km away from the current subject site). By the early 20th Century, a brickworks is also present around 250 m south of Hogwood Farm, and gravel pits are shown approximately 150 m south (greater than 1 km away from the current subject site) and 750 m west of Hogwood Farm.

A number of agricultural buildings are shown immediately to the north of the subject site which later become Hogwood Farm Industrial Estate.

By 1932 Arborfield Remount Depot is labelled around 750 m north of the site, although its full extent and proximity to the site is unclear. By 1938 additional brickworks are shown around 100 m to the north west of the site, later developed as Hogwood Industrial Estate, and 750 m north west of the site.

The 1961 historical map shows Arborfield Remount Depot has been renamed Arborfield Garrison, and extended up to the northern boundary of Hogwood Farm. The 1975 to 1976 map indicates the addition of a residential dwelling and pond less than 250 m north west of the site, no longer indicated to be present by 1993.

The 1984 map shows Hogwood Farm Industrial Estate adjacent to the north of the site. The 1984 to 1987 map shows the addition of Hogwood Industrial Estate a short distance to the north east of the subject site. By 1988 the attenuation pond is shown between the two industrial estates. Satellite imagery indicates that the pond is infilled between 2012 and 2022 and Hogwood Farm Industrial Estate is then demolished some time between 2022 and 2025.

4.2 Geology

The site is shown to be underlain by the London Clay Formation (clay, silt and sand). There are no superficial deposits mapped across the site area. No faults are shown to cross the site.

4.3 Hydrogeology

The Envirocheck identifies that the underlying solid bedrock below the site is primarily classified as Unproductive Strata.

The site is not recorded as being within a groundwater Source Protection Zone.

4.4 Hydrology

According to the Envirocheck the nearest surface water feature is approximately 340 m to the northwest.

4.5 Ground Gas

The updated UK Radon maps, issued in December 2022, have been consulted. These confirm that the site is located in a 1km grid square where less than 1% of homes are estimated to lie at or above the action level. Therefore, no radon precautions are required at the site.

No landfill sites are identified within 250 m of the site within the Envirocheck.

The Envirocheck indicates the presence of one area of potentially infilled land 100 m to the north of the site beneath Hogwood Industrial Estate, however this is not considered to present a significant source of gas generation and migration.

Another pond is shown directly adjacent to and partially within the site boundary in the north of the site. On the satellite imagery dated from February 2022, this pond is shown as no longer been present and is presumed to have been backfilled at some point between 2021 and 2022. This would have been undertaken in an engineered manner, as part of the construction of the Nine Mile Ride Extension road which passes directly over the former pond. As such, the infill material is not considered to pose a risk of ground gas generation.

A number of ponds are shown on historical maps of the wider Hogwood Farm site and are presumed to have been backfilled. The ponds were small features and are expected to have been shallow, and therefore are not considered to pose a significant risk of gas generation and migration.

A significant depth of made ground (>2 m) is not anticipated beneath the site. Ground gas protective measures are therefore not considered to be necessary at this stage.

4.6 Potential Pollutant Linkages

The table below details the possible sources and associated contaminants of concern, pathways and receptors which were identified by the phase 1 report.

Source	Potential Contaminants	Potential Pathways	Potential Receptors
Made ground (if present)	• Heavy metals/metalloids and polycyclic aromatic hydrocarbons (PAHs) • Asbestos	• Ingestion, inhalation, direct contact	• Future site occupants and visitors • Site construction workers • Plants
		• Direct contact	• Water supply pipes
		• Migration through ground	• Controlled waters
	• Sulphates	• Direct contact	• Sub-surface concrete structures
Topsoil	• Heavy metals/metalloids and polycyclic aromatic hydrocarbons (PAHs) • Pesticides	• Ingestion, inhalation, direct contact	• Future site occupants and visitors • Site construction workers • Plants
Natural ground	• Sulphates	• Direct contact	• Sub-surface concrete structures

5.0 GROUND INVESTIGATION

5.1 Site Works

Eastwood Consulting Engineers visited site between 25 and 26 July 2017 and excavated one trial pit (TP23) as part of the broader site investigation.

A further site visit was then undertaken on 6 August 2025 in order to further determine the underlying ground conditions and the following intrusive ground investigation was completed:

- Three trial pits (TP1-NC to TP3-NC) to between 2.9 and 3.1 m below ground level (bgl); and
- One cable percussion borehole (BH1-NC) to 25 m bgl.

5.2 Laboratory Testing

One sample of topsoil was despatched for testing following the wider 2017 site work. This was analysed at Chemtest using MCERTS accredited methodologies where available.

During the 2025 investigation a further one sample of topsoil, two samples of made ground and three samples of natural ground were despatched for chemical testing. Soil samples were taken in 500 g plastic tubs, 180 g plastic tubs and 60 g vials and analysed at i2 Analytical using MCERTs accredited methodologies where available.

Laboratory chemical testing results are presented in Appendix 3 and discussed further in Section 8.0.

In 2017 one sample of natural ground was sent for geotechnical testing at Geolabs. Following on from the August 2025 investigation, two further samples of natural ground were sent for geotechnical testing. The geotechnical test results are presented in Appendix 4 and discussed further in Section 7.0.

6.0 GROUND CONDITIONS

6.1 Surface Covering

The accessible portions of site, i.e. areas not occupied by stockpiles or materials storage, were covered predominately by compacted hardcore with the remainder of the site covered by grass and scrub vegetation. Underlying any grass or scrub vegetation, topsoil comprised of slightly gravelly sandy silt with frequent rootlets and rare brick and glass and was present to a depth of 0.2 m bgl.

This is consistent with the exploratory hole undertaken in 2017, with the exception of the anthropogenic component to the topsoil. However, the recent construction and demolition in close proximity to the site would explain the presence of these components.

6.2 Made Ground

Made ground of recently placed hardcore was encountered in three locations (TP1-NC, TP2-NC and BH1-NC) across the site. This was found to comprise very sandy silty gravel or gravelly silty sand with gravel and cobbles of brick, concrete, ceramic, glass, metal, slate, breezeblock and plastic. This was found to extend to depths of between 0.4 and 0.7 m bgl. Within TP2-NC, an area of the trial pit was found to comprise reworked chalk of slightly sandy gravelly silt. This material is considered to represent placed fill for the haul roads on the site or as part of the historic farm compound.

6.3 Natural Ground

Natural ground of the weathered London Clay Formation was encountered beneath the topsoil or made ground. This comprised firm to very stiff, orangish brown, greyish brown, grey and light grey sometimes slightly gravelly slightly sandy to very sandy clay with occasional sand partings or silt pockets and rootlets. Locally this stratum was found to comprise very sandy clayey silt. Where gravel was found to be present, this comprised angular to sub angular fine to medium chert.

Within TP1-NC, underlying made ground an additional stratum was encountered comprising firm to stiff, dark greenish grey and brownish orange mottled, slightly sandy slightly gravelly micaceous silty clay with a mild organic odour. This stratum was found to be present between 0.7 and 0.9 m bgl.

Unweathered London Clay of firm to stiff dark grey sandy silty clay, was identified from a depth of 4.5 m bgl within BH1-NC. The base of the London Clay strata was not proven and the borehole was terminated at 25 m bgl.

This is consistent with the findings of the 2017 investigation.

6.4 Obstructions

No subsurface obstructions were encountered during the site investigation.

6.5 Groundwater

Groundwater was not recorded within any of the trial pits and these remained dry whilst open.

Eastwood Consulting Engineers undertook a programme of groundwater monitoring across the wider Hogwood Farm site between July 2018 and June 2019. The results of this were reported on in our Groundwater Monitoring Report, reference 41623/007, dated 21 August 2019. A copy of this report is enclosed in Appendix 5. The two closest monitoring wells to the Neighbourhood Centre are WS5 and WS13. The groundwater levels recorded shallowest groundwater levels in these wells of 0.78 m and 0.74 bgl respectively. Therefore, shallow groundwater may impact the excavation of trenches, particularly during the wetter months.

6.6 Evidence of Contamination

Visual or olfactory evidence of possible contamination was not identified in any of the exploratory holes.

7.0 GEOTECHNICAL APPRAISAL

7.1 General

Our investigations indicate that the ground conditions beneath site are relatively homogenous. They comprise topsoil or made ground over natural deposits of the London Clay Formation. Groundwater was not encountered in any trial pits or the cable percussion borehole; however previous groundwater monitoring has indicated the presence of shallow groundwater.

7.2 Laboratory Testing

Two samples of natural cohesive ground of the London Clay Formation were sent for geotechnical laboratory testing following the field work in August 2025. A full copy of the results (report ref GEO/43098) is included in Appendix 4 and these are summarised in the table below.

Exploratory Hole	Depth (m)	Moisture Content	Liquid Limit	0.4 x Liquid Limit	Potentially Desiccated?	Modified Plasticity Index (%)	Volume Change Potential
BH1-NC	7.5	20.2	42	16.8	N	20	Medium
BH1-NC	14.0	22.0	55	22.0	N	32	Medium

The above results demonstrate that the natural cohesive soils have a medium volume change potential. As such, it is considered that a medium volume change potential should be adopted for the natural cohesive soils.

Neither of the samples are indicated to be potentially significantly desiccated as, in both samples, the water content is equal or greater than 40% of the liquid limit.

Following the drilling work in August 2025, two undisturbed U100 samples were recovered from the cable percussion borehole and these were scheduled for undrained triaxial testing. The results are also included in test report GEO/43098 in Appendix 4, and are summarised in the table below.

Location	Depth (m bgl)	Cell Pressure (kPa)	Deviator Stress (kPa)	Shear Stress (kPa)
BH1-NC	7.5	150	459	230
BH1-NC	14.0	280	455	227

The above results demonstrate the unweathered London Clay Formation to be very stiff. This is expected based on the in-situ testing undertaken during the trial pitting and drilling works, as discussed below.

7.3 In-Situ testing

In-situ hand shear vane testing undertaken on site in the cohesive weathered London Clay Formation during August 2025 recorded shear strength values of between 66 and 196 kN/m^2, with an average reading of 107 kN/m^2. It should be noted that the high sand proportion in the majority of the strata made representative readings potentially inaccurate. Furthermore, hand shear vane readings were not possible at a number of depths due to the sand content of the natural cohesive strata.

Standard penetration tests (SPTs) were completed at 1 m intervals to a depth of 6 m bgl, then at 1.5 m intervals thereafter. The results are summarised in the table below.

Strata	Average SPT N Value
Weathered London Clay Formation	17.5
London Clay <10 m bgl	20.3
London Clay >10 m bgl	37.4

The above table shows that the average N-value varied between 17.5 in the weathered London Clay and 37.4 in the unweathered London Clay and increased steadily with depth.

The full hand shear vane and SPT results can be seen in the trial pit and borehole logs included in Appendix 2.

7.4 Foundations

For the proposed development, it is expected that traditional strip and trench fill foundations, taken onto natural non-desiccated cohesive strata of the weathered London Clay Formation, is expected to be appropriate. The geotechnical testing has shown that the soils should be assigned a medium volume change potential and therefore a minimum founding depth of 900 mm below existing or finished ground level (whichever is deeper) will apply. At this depth an allowable bearing capacity of 125 kN/m^2 is likely to be achievable. Although, should soft spots be encountered, local deepening of the foundation until firmer strata is encountered, may be required.

Foundations within clay soils will need to be deepened in accordance with NHBC Standards, Chapter 4.2 where past, present or proposed trees are within influencing distance of the foundation.

Heave precautions should be included where the footing depth due to past or present trees is in excess of 1500 mm or for footings within tree influence.

Consideration should be given to tree influence at an early stage. Any proposed development is likely to need to be piled wherever the depth due to trees exceeds 2.5 m. Piling may also be required where site levels are proposed to be raised, particularly where this also intersects with footings requiring deepening due to trees. We understand the levels are proposed to be raised and as such piling is likely to be the most economical foundation option. Given the site is generally soft-surfaced, and as no significant obstructions were encountered, it is expected that driven piles will be appropriate. Specific pile design will need to be undertaken by the piling contractor using the information provided in this report.

Due to the possibility of shallow groundwater, particularly during wetter months, excavations should not be left open for prolonged periods. Methods such as dig and pour or sump and pump may be required to mitigate against shallow groundwater.

7.5 Ground Floors

Where less than 600 mm of made ground is present, ground bearing slabs will be appropriate. Elsewhere, reinforced suspended slabs or precast concrete floors with a minimum 150 mm high ventilated void should be used.

If the footings require heave precautions due to trees, a precast concrete floor with a ventilated void will be required. This void should be a minimum of 250 mm high.

7.6 Superstructure Precautions

No additional superstructure precautions will be required due to the ground conditions encountered.

7.7 Excavation Problems

The trial pits remained dry and stable whilst open. Nonetheless, support will therefore be required in accordance with current Health & Safety Regulations wherever access is required to trenches deeper than 1.2 m or less where there is risk of collapse.

7.8 Obstructions

Numerous areas of the site were unable to be accessed during the investigation as a result of several stockpiles of site-won material soil in the south and northeast of the site.

No below ground obstructions were encountered over the course of the site works.

7.9 Roads

Based upon the ground conditions observed a CBR value of around 2% is likely to be applicable. The ground should be assumed to be frost susceptible and a minimum construction thickness of 450 mm will therefore apply. It is recommended that CBR tests are undertaken along any proposed roads prior to construction so that accurate CBR values can be obtained.

However, where levels are being raised, the natural strata encountered during the course of the intrusive investigation will not be acting as the formation for road construction and therefore the CBR value will need to be determined through testing undertaken on the engineered soils. This is likely to be in excess of the 2% mentioned above, assuming an appropriate earthworks specification is followed when the soil is placed.

7.10 Surface Water Drainage

Given the cohesive nature of the natural strata encountered, surface water drainage via ground soakage is unlikely to be viable for the proposed development.

8.0 REFINEMENT OF OUTLINE CONCEPTUAL MODEL

8.1 Source Characterisation

An outline conceptual model, detailing the possible sources and associated contaminants of concern, potential pathways and receptors identified in the Phase 1 study was detailed in Section 4.6.

This section of the report documents the works undertaken to obtain information to test and refine this model enabling a risk assessment to be produced and, where significant risks are expected, remediation recommendations.

8.2 Ground Conditions

Our investigations indicate that the site is surfaced with topsoil or made ground of recently placed hardcore over weathered deposits of the London Clay Formation.

8.3 Gas Precautions

No radon precautions are required at the site and no landfill sites were identified within 250 m.

Made ground was encountered in three locations and generally comprised hardcore for site haul roads. It did not contain a significant proportion of organic or degradable material and was not present to significant depths (i.e. >2m).

A former pond located directly adjacent to the northwestern boundary, possibly encroaching into the site, was infilled between 2021 and 2022 as part of the Nine Mile Ride Extension construction. As such, the infill is assumed to have been placed to an agreed earthworks specification in an engineered manner and will not pose a significant risk of ground gas generation.

A number of former ponds were also indicated on historical maps of the wider Hogwood Farm site and in the surrounding area. These were small features and are expected to have been shallow, and as such were not considered to pose a significant risk of gas generation and migration

Based on the above, ground gas precautions are not considered to be necessary in the construction of any proposed development.

8.4 Unexpected Contamination

No visual or olfactory evidence of significant contamination was observed during the investigation.

8.5 Chemical Testing

Following the 2017 investigation one sample of topsoil was sent for chemical testing. A further one sample of topsoil, two samples of made ground and three samples of natural ground were sent for testing following the August 2025 investigation. Each of the samples was analysed for the suite of contaminants listed below.

Contaminant Type	Actual Contaminants
Metals/Metalloids	Arsenic, cadmium, chromium, lead, mercury, nickel, selenium, copper and zinc
pH	pH
PAHs	Speciated PAH
Sulphates	Water soluble sulphate, acid soluble sulphate, total sulphur

In addition to the above testing:

- The two samples of made ground and one sample of topsoil were screened for asbestos fibres; and
- One sample of made ground was tested for fully fractionated petroleum hydrocarbons, BTEX & MTBE.

Testing was undertaken by i2 Analytical, using MCERTs accredited methodologies, where available.

8.6 Assessment Criteria

The proposed development of the site is a community building with associated parking. It is assumed that limited soft landscaping areas will be incorporated. Therefore, the assessment criteria relating to public open space near housing have been used.

Tables detailing the relevant assessment concentrations used are included in Appendix 3.

8.7 Chemical Test Results

Copies of the chemical test results (17-19872 & 25-042363) are included in Appendix 3. Some preliminary risk assessment is undertaken in this section of the report where determinants can be readily discounted.

8.7.1 Topsoil

None of the samples of topsoil recorded any elevated concentrations of determinants when compared to public open space near housing assessment values.

8.7.2 Made Ground

None of the samples of made ground recorded any elevated concentrations of determinants when compared to the public open space near housing assessment values.

One sample of made ground was tested for fully fractionated total petroleum hydrocarbons for which the recorded results were all below the laboratory detection limit.

Three samples of made ground were screened for asbestos. The sample of made ground from TP2 at 0.6 m bgl recorded the presence of chrysotile in the form of loose fibres. Subsequent quantification of this was recorded as <0.001 %

8.7.3 Natural Ground

None of the samples of natural ground recorded any elevated concentrations of determinants when compared to the public open space near housing assessment values.

8.7.4 Sulphates

In accordance with BRE Special Digest 1, the site comes under the classification of 'brownfield' and groundwater is expected to be mobile.

The following table displays the results of the made ground and natural ground samples tested:

Made Ground	Range of Results	Characteristic Value	Sulphate Classification
Water Soluble Sulphate (mg/l)	106 to 862	862	DS-3 AC-3
Total Sulphur (%)	0.025 to 0.238	0.238	
Total Potential Sulphate (%)	0.075 to 0.714	0.714	
pH	7.6 to 9.5	7.6	
Weathered London Clay			
Water Soluble Sulphate (mg/l)	10.2 to 338	338	DS-2 AC-2
Total Sulphur (%)	0.011 to 0.096	0.096	
Total Potential Sulphate (%)	0.033 to 0.288	0.288	
pH	8 to 8.2	8.0	

The total potential sulphate values in the made ground dictate a design class of DS-3 and an ACEC class of AC-3. Therefore, where the concrete is in contact with made ground, appropriate sulphate precautions will need to be incorporated.

For the weathered London Clay, at less than 3 m bgl, based on the characteristic value of total potential sulphate, a design sulphate class of DS-2 is assigned. The pH values suggest an ACEC class of AC-2 when using the design sulphate values.

At depths below 3 m bgl, where the London Clay becomes unweathered, the sulphate precautions should be increased to DS-4 AC-4. This is based on results of samples of the unweathered London Clay tested on adjacent land parcels, where consistently high total potential sulphate results have been recorded.

8.8 Significant Pollutant Linkages

The significant pollutant linkages consequently identified are thus documented in the following table.

Source	Pathway	Receptor
Asbestos in the made ground	Inhalation	Future residents
Sulphates in the made ground and natural ground	Direct contact	Below ground concrete

9.0 RISK ASSESSMENT

9.1 Human Health: Future Site Users

None of the samples of topsoil or natural ground recorded any elevated concentrations of any determinants when compared to the 'public open space near housing' assessment values. Therefore, the topsoil and natural ground can be considered suitable for re-use on site.

The made ground also did not record any elevated concentrations of determinants. Free fibres of chrysotile asbestos were identified in one of the samples of made ground, however the quantification of this revealed it to be present at <0.001%. As such, it is not considered to pose a significant risk to future users of the site.

Whilst no elevated concentrations of contaminants are present, the physical properties of the made ground are not suitable to remain at the surface within gardens or landscaped areas. It is therefore recommended that a 450 mm thick capping layer of clean soil, including at least 100 mm of topsoil, is placed over the made ground to act as a growing medium wherever this is present in soft landscaped areas. Alternatively, the made ground could be removed and either placed below areas of hardstanding, or disposed of off-site, at an appropriate waste management facility.

9.2 Human Health: During Construction

Groundworkers employed during the construction phase of the development are most at risk of harm due to them having direct contact with the affected soils. However, the contact is generally of short duration, and all competent ground workers will be aware of the potential risks associated with the made ground soils. Therefore, the overall risk to the health of construction workers is considered to be low.

Normal site procedures, such as the wearing of gloves when handling soils and the washing of hands prior to eating, should be implemented at all times.

9.3 Plants

No samples recorded any phytotoxic concentrations of contaminants.

9.4 Ground Gas

Ground gas precautions are not considered to be necessary.

9.5 Construction Materials

Based upon on the results of the pH and sulphate testing discussed in Section 8, DS-3 AC-3 sulphate precautions will be required for below ground concrete in contact with the made ground. Where concrete is in contact with the shallow (<3 m bgl) natural ground only, DS-2 AC-2 sulphate precautions will be appropriate. However, this would need to be increased to DS-4 AC-4 precautions where below ground concrete is in contact with the unweathered London Clay Formation (i.e. the natural strata at depths of greater than 3 m bgl).

The results of the chemical testing will need to be forwarded to the water company so that appropriate water supply pipes can be selected.

9.6 Controlled Waters

The underlying bedrock is primarily classified as unproductive strata. Groundwater has not been encountered as part of this investigation and no significantly elevated concentrations of contaminants have been detected.

Therefore, no significant risk to controlled waters has been identified during the course of this investigation

Standard good site practice during the construction phase of the development must still be adhered to in terms of surface water run-off control measures, to ensure there is no risk to controlled waters.

9.7 Unexpected Contamination

Should any unusual, brightly coloured, ashy, fibrous or odorous material or material suspected of containing asbestos be encountered during construction this should be brought to the attention of the site staff and investigated.

9.8 Disposal of Material

If material needs to be removed, it should to be taken to a suitably licensed landfill or waste treatment facility. The costs of disposal and landfill tax can be substantial. The disposal of material should therefore be seen as a last resort with options such as treatment and reuse either on-site or off-site considered where possible.

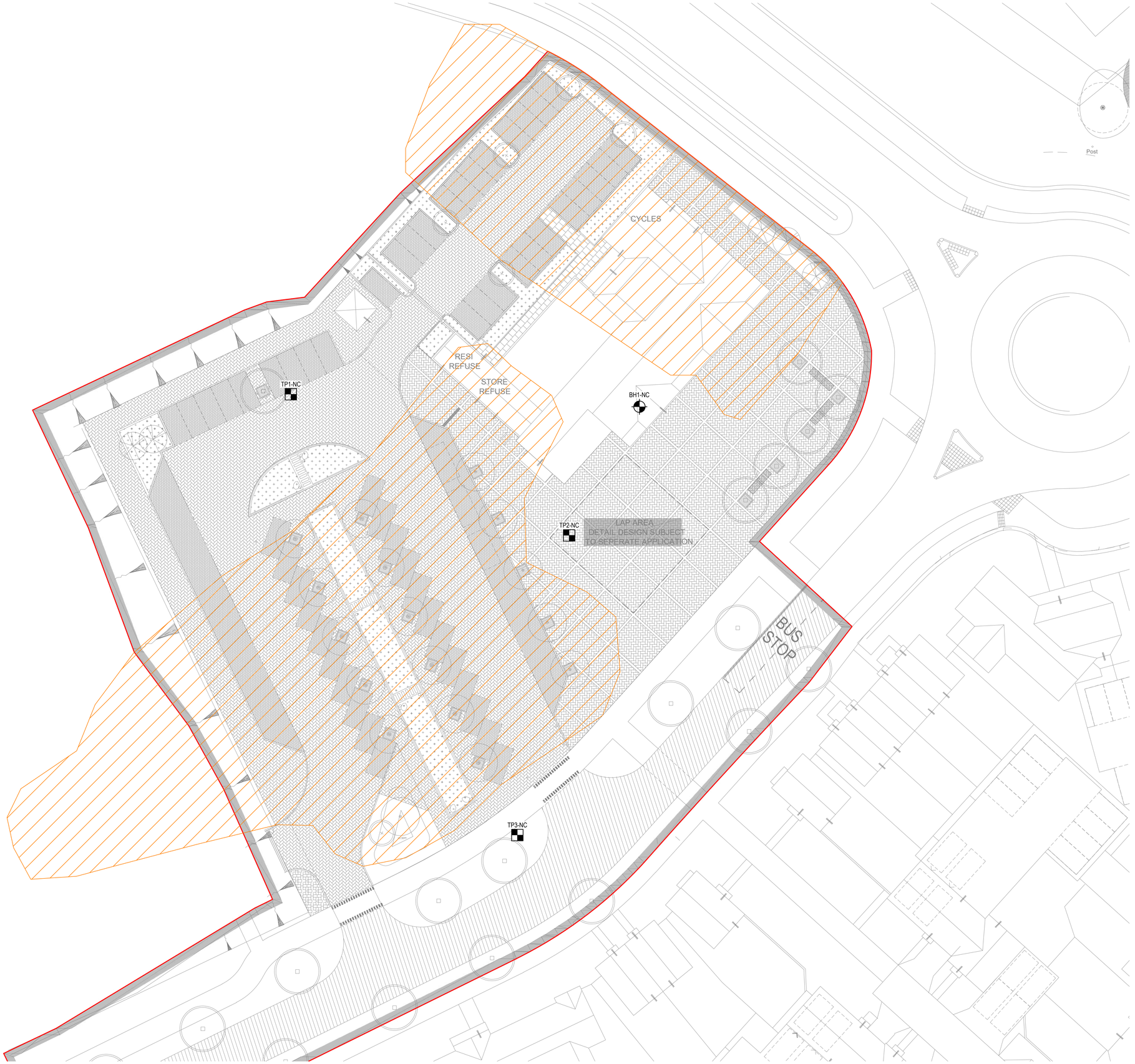
The category of landfill which can accept the waste (inert, non-hazardous or hazardous) would need to be determined and will also have a significant effect on the costs. Additional testing may be required by the landfill operator and the acceptance of material is generally at their discretion.

9.9 Limitations

The risk assessment presented above relates solely to the 0.7 hectare area which constitutes the Neighbourhood Centre.

Appendix 1

Exploratory Hole Location Plan, drawing reference 41623/031 rev A



INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

NOTES

KEY

- Site boundary.
- Approximate location of trial pit completed by Eastwood Consulting Engineers on 06.08.2025.
- Approximate location of cable percussion borehole completed by Eastwood Consulting Engineers on 06.08.2025 & 07.08.2025.
- Approximate extent of material stockpile on site.

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

CALA HOMES THAMES

NEIGHBOURHOOD CENTRE,
FINCHWOOD PARK, HOGWOOD FARM,
FINCHAMPSTEAD

EXPLORATORY HOLE LOCATION PLAN

Eastwood & Partners
CONSULTING ENGINEERS
St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS
Tel 0114 255 4554
Fax 0114 255 4330
mail@eastwoodandpartners.com
www.eastwoodandpartners.com

SCALE WHEN PLOTTED AT A1	DRAWING STATUS
1:250	INFORMATION

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
DW	AML	15.09.25	41623/031	A

Appendix 2

Trial Pit Logs (TP1-NC – TP3-NC)

Cable Percussion Borehole Log (BH1-NC)

Eastwood
CONSULTING ENGINEERS

TrialPit No
TP1 - NC
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Hogwood Farm	41623	Level:	06/08/2025
Location: Arborfield		Dimensions: 2.90m × 0.40m	Scale 1:25
Client: Legal & General Homes		Depth: 3.10m	Logged AML

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Dark brown very sandy silty very angular to sub rounded fine to coarse GRAVEL with a medium cobble content and abundant brick, concrete, breezeblock, plastic, ceramic, metal, wood and glass & rare clumps of soft very dark grey silty clay. Gravel is sub angular to well rounded fine to coarse of flint and chert. Membrane at the base of this unit.
0.60	ES					
			0.70			
0.80	ES					Firm to stiff dark greenish grey and brownish orange mottled streaked black and bluish grey slightly sandy slightly gravelly micaceous silty CLAY with a mild organic odour and occasional rootlets. Gravel is fine to medium very angular to sub angular chert. Sand is fine. [LONDON CLAY FORMATION]
			0.90			
1.00	ES					Firm locally stiff greyish brown, light grey and orangish brown mottled slightly gravelly sandy micaceous silty CLAY with frequent lenses of slightly silty fine to coarse sand and dark grey clay and occasional rootlets. Gravel is fine to medium very angular to sub angular chert. [LONDON CLAY FORMATION]
1.40		HVP=79				
			2.60			Firm to stiff dark orangish brown mottled greyish brown and grey very sandy micaceous silty CLAY with occasional lenses of dark grey clay and very sandy silt. Sand is fine to medium. [LONDON CLAY FORMATION]
			3.10			Trialpit Complete at 3.100m

Remarks: No groundwater encountered. HVP refers to the shear strength in kN/m2 obtained using a hand shear vane with a 19 mm attachement. The results shown are an average of three tests completed at each depth. What3words///listed.streak.quilting

Stability: Good

Eastwood
CONSULTING ENGINEERS

TrialPit No
TP2 - NC
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Hogwood Farm	41623	Level:	06/08/2025
Location: Arborfield		Dimensions: 3.00m, 0.40m	Scale 1:25
Client: Legal & General Homes		Depth: 2.90m	Logged AML

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.10	ES					MADE GROUND: Brownish grey gravelly slightly silty fine to coarse SAND with a medium cobble content and occasional brick, concrete, granite, plastic, chalk, ceramic, glass, slate and metal. Gravel is very angular to sub rounded fine to coarse of chert.
						0.1 - 0.4 m bgl: within the western end of the pit, a band of structureless CHALK composed of white slightly sandy gravelly SILT was present. Gravel was very weak medium density white fine to coarse.
0.45	ES		0.40			Stiff friable greyish brown slightly gravelly sandy micaceous silty CLAY. Gravel is sub angular fine to medium of chert. Sand is fine to coarse. [LONDON CLAY FORMATION]
0.70		HVP=66	0.65			Firm greyish brown, orangish brown and orange mottled slightly sandy micaceous silty CLAY with frequent lenses of orangish brown very sandy silt and very silty fine to medium sand. [LONDON CLAY FORMATION]
1.00	ES					
			2.90			Trialpit Complete at 2.900m

Remarks: No groundwater encountered. HVP refers to the shear strength in kN/m2 obtained using a hand shear vane with a 19 mm attachement. The results shown are an average of three tests completed at each depth. What3words///delays.pardon.romace

Stability: Good

Eastwood
CONSULTING ENGINEERS

TrialPit No
TP3 - NC
Sheet 1 of 1

Project Name	Project No.	Co-ords: -	Date
Hogwood Farm	41623	Level:	06/08/2025
Location: Arborfield		Dimensions: 2.80m × 0.40m	Scale 1:25
Client: Legal & General Homes		Depth: 3.00m	Logged AML

Samples & In Situ Testing			Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Results				
0.05	ES					MADE GROUND/ TOPSOIL: Scrub vegatation over very stiff slightly gravelly sandy SILT with frequent rootlets and rare brick and glass
			0.20			
0.30	ES					Very stiff becoming firm and stiff orangish brown and greyish brown sandy micaceous silty CLAY with frequent lenses of sandy silt and grey silty clay and occasional rootlets. Sand is fine to coarse. [LONDON CLAY FORMATION]
0.50		HVP=196				
2.50		HVP=86				*2.5 m bgl: becoming grey mottled brown*
						2.6 m bgl: locally very sandy.
			3.00			Trialpit Complete at 3.000m

Remarks: No groundwater encountered. HVP refers to the shear strength in kN/m2 obtained using a hand shear vane with a 19 mm attachement. The results shown are an average of three tests completed at each depth.
What3words///observer.disposing.lunging

Stability: Good

Eastwood
CONSULTING ENGINEERS

Borehole No.
BH1 - NC
Sheet 1 of 3

Project Name: Hogwood Farm	Project No.: 41623	Co-ords:	Hole Type: CP
Location: Arborfield		Level:	Scale: 1:50
Client: Legal & General Homes		Dates: 06/08/2025 - 07/08/2025	Logged By: AML

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								MADE GROUND/CRUSH (Drillers Description)
		1.20	SPT	N=20 (2,5/5,6,5,4)				
					1.50			
		2.00	SPT	N=14 (3,3/3,3,4,4)				Firm to stiff orangish brown and brownish orange mottled sandy silty CLAY. [LONDON CLAY FORMATION]
		3.00	SPT	N=18 (3,4/4,5,5,4)				
		4.00	SPT	N=18 (4,5/5,4,4,5)				
					4.50			
		5.00	SPT	N=20 (4,5/5,4,5,6)				Firm to stiff dark grey sandy micaceous silty CLAY. [LONDON CLAY FORMATION]
		6.00	SPT	N=23 (4,5/5,6,6,6)				
		7.50 - 7.95	U					
		7.95 - 8.00	D					
		9.00	SPT	N=18 (4,4/5,4,4,5)				
			Type	Results				

Remarks

Eastwood
CONSULTING ENGINEERS

Borehole No.
BH1 - NC
Sheet 2 of 3

Project Name	Project No.	Co-ords:	Hole Type
Hogwood Farm	41623		CP
Location: Arborfield		Level:	Scale 1:50
Client: Legal & General Homes		Dates: 06/08/2025	Logged By AML

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								Firm to stiff dark grey sandy micaceous silty CLAY. [LONDON CLAY FORMATION]
		10.50	SPT	50 (4,15/50 for 125mm)				
					10.80			MUDSTONE. [LONDON CLAY FORMATION]
					11.30			Stiff to very stiff dark grey sandy micaceous silty CLAY. [LONDON CLAY FORMATION]
		12.00	SPT	N=25 (4,5/6,6,6,7)				
		14.00 - 14.45	U					
		14.45 - 14.50	D					
		15.00	SPT	N=26 (3,5/5,7,6,8)				
		16.50	SPT	N=29 (4,5/4,7,8,10)				
		18.00	SPT	N=36 (5,4/8,8,10,10)				
		19.50	SPT	N=37 (4,6/8,8,10,11)				
		Type		Results				

11 12 13 14 15 16 17 18 19

Remarks

Eastwood
CONSULTING ENGINEERS

Borehole No.
BH1 - NC
Sheet 3 of 3

Project Name	Project No.	Co-ords:	Hole Type
Hogwood Farm	41623		CP
Location: Arborfield		Level:	Scale 1:50
Client: Legal & General Homes		Dates: 06/08/2025	Logged By AML

Well	Water Strikes	Sample and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
		Depth (m)	Type	Results				
								Stiff to very stiff dark grey sandy micaceous silty CLAY. [LONDON CLAY FORMATION]
		21.00	SPT	N=38 (4,7/9,7,11,11)				
		22.50	SPT	N=41 (5,7/9,9,11,12)				
		24.00	SPT	N=44 (5,8/10,10,11,13)				
		25.00	SPT	N=48 (5,9/11,11,12,14)	25.00			End of Borehole at 25.000m
			Type	Results				

21
22
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Remarks

Appendix 3

Chemical Test Results (17-19872 & 25-049363)

Table of Assessment Values – Public Open Space Near Housing

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

Final Report

Report No.:	17-19872-1
Initial Date of Issue:	07-Aug-2017
Client	Eastwood & Partners
Client Address:	St. Andrews House 23 Kingfield Road Sheffield South Yorkshire S11 9AS
Contact(s):	Geo Stefani Ellis
Project	41623 Hogwood Farm, Arborfield

Quotation No.:		**Date Received:**	31-Jul-2017
Order No.:	41623/RN/SAE	**Date Instructed:**	31-Jul-2017
No. of Samples:	25		
Turnaround (Wkdays):	5	**Results Due:**	04-Aug-2017
Date Approved:	07-Aug-2017		

Approved By:

[redacted]

Details: Robert Monk, Technical Development Chemist

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners					**Chemtest Job No.:**	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:					**Chemtest Sample ID.:**	490582	490583	490584	490585	490586	490588	490589	490590	490591
					Client Sample ID.:	TP2	TP3	TP6	TP7	TP11	TP14	TP17	TP18	TP20
					Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
					Top Depth (m):	1.70	0.10	0.10	0.10	0.10	0.10	0.10	0.80	0.20
					Date Sampled:	25-Jul-2017	25-Jul-2017	25-Jul-2017	27-Jul-2017	25-Jul-2017	26-Jul-2017	26-Jul-2017	26-Jul-2017	26-Jul-2017
					Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**										
ACM Type	U	2192		N/A			-	-	-			-		-
Asbestos Identification	U	2192	%	0.001			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected			No Asbestos Detected		No Asbestos Detected
Moisture	N	2030	%	0.020	16	14	14	14	15	13	15	15	15	
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	
Other Material	N	2040		N/A	NONE	NONE	Roots	Roots	NONE	Roots	Stones	NONE	Stones	
Soil Texture	N	2040		N/A	Clay	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	
pH	M	2010		N/A	7.5	7.1	5.8	5.9		4.3	6.3	7.2	6.9	
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010							< 0.010		
Total Sulphur	M	2175	%	0.010	< 0.010							< 0.010		
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010							< 0.010		
Arsenic	M	2450	mg/kg	1.0	15	10	8.2	8.3		5.4	7.2	13	6.8	
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.11	< 0.10	< 0.10		< 0.10	0.11	< 0.10	0.11	
Chromium	M	2450	mg/kg	1.0	29	19	18	21		18	20	42	20	
Copper	M	2450	mg/kg	0.50	15	8.1	8.6	9.7		7.4	9.2	15	9.2	
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Nickel	M	2450	mg/kg	0.50	39	10	8.1	9.1		7.9	9.0	22	9.1	
Lead	M	2450	mg/kg	0.50	13	17	17	19		20	21	13	23	
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20	
Zinc	M	2450	mg/kg	0.50	46	28	28	33		28	33	46	37	
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50	
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners			**Chemtest Job No.:**		17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:			**Chemtest Sample ID.:**		490582	490583	490584	490585	490586	490588	490589	490590	490591
			Client Sample ID.:		TP2	TP3	TP6	TP7	TP11	TP14	TP17	TP18	TP20
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		1.70	0.10	0.10	0.10	0.10	0.10	0.10	0.80	0.20
			Date Sampled:		25-Jul-2017	25-Jul-2017	25-Jul-2017	27-Jul-2017	25-Jul-2017	26-Jul-2017	26-Jul-2017	26-Jul-2017	26-Jul-2017
			Asbestos Lab:			COVENTRY	COVENTRY	COVENTRY			COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Demeton-O	N	2820	mg/kg	0.20					< 0.20				
Phorate	N	2820	mg/kg	0.20					< 0.20				
Demeton-S	N	2820	mg/kg	0.20					< 0.20				
Disulfoton	N	2820	mg/kg	0.20					< 0.20				
Fenthion	N	2820	mg/kg	0.20					< 0.20				
Trichloronate	N	2820	mg/kg	0.20					< 0.20				
Prothiofos	N	2820	mg/kg	0.20					< 0.20				
Fensulphothion	N	2820	mg/kg	0.20					< 0.20				
Sulprofos	N	2820	mg/kg	0.20					< 0.20				
Azinphos-Methyl	N	2820	mg/kg	0.20					< 0.20				
Coumaphos	N	2820	mg/kg	0.20					< 0.20				
Alpha-HCH	N	2840	mg/kg	0.20					< 0.20				
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20					< 0.20				
Beta-HCH	N	2840	mg/kg	0.20					< 0.20				
Delta-HCH	N	2840	mg/kg	0.20					< 0.20				
Heptachlor	N	2840	mg/kg	0.20					< 0.20				
Aldrin	N	2840	mg/kg	0.20					< 0.20				
Heptachlor Epoxide	N	2840	mg/kg	0.20					< 0.20				
Gamma-Chlordane	N	2840	mg/kg	0.20					< 0.20				
Alpha-Chlordane	N	2840	mg/kg	0.20					< 0.20				
Endosulfan I	N	2840	mg/kg	0.20					< 0.20				
4,4-DDE	N	2840	mg/kg	0.20					< 0.20				
Dieldrin	N	2840	mg/kg	0.20					< 0.20				
Endrin	N	2840	mg/kg	0.20					< 0.20				
4,4-DDD	N	2840	mg/kg	0.20					< 0.20				
Endosulfan II	N	2840	mg/kg	0.20					< 0.20				
Endrin Aldehyde	N	2840	mg/kg	0.20					< 0.20				
4,4-DDT	N	2840	mg/kg	0.20					< 0.20				
Endosulfan Sulphate	N	2840	mg/kg	0.20					< 0.20				
Methoxychlor	N	2840	mg/kg	0.20					< 0.20				
Endrin Ketone	N	2840	mg/kg	0.20					< 0.20				

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners				**Chemtest Job No.:**	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:				**Chemtest Sample ID.:**	490592	490593	490594	490595	490596	490597	490598	490599	490600
				Client Sample ID.:	TP21	TP23	TP25	TP27	TP27	TP29	TP30	TP31	TP35
				Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
				Top Depth (m):	0.70	0.10	0.30	0.10	0.60	1.30	0.10	0.40	0.10
				Date Sampled:	26-Jul-2017	26-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017
				Asbestos Lab:	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
ACM Type	U	2192		N/A				-			-		
Asbestos Identification	U	2192	%	0.001				No Asbestos Detected			No Asbestos Detected		
Moisture	N	2030	%	0.020	13	16	14	18	15	18	17	8.9	17
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	Stones
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Clay	Clay	Sand	Sand	Sand
pH	M	2010		N/A	7.2	6.6	6.6	6.3	6.6	7.4	6.7	7.2	6.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010		< 0.010		< 0.010	< 0.010		< 0.010	
Total Sulphur	M	2175	%	0.010	< 0.010		0.026		< 0.010	< 0.010		< 0.010	
Sulphate (Acid Soluble)	M	2430	%	0.010	< 0.010		< 0.010		< 0.010	< 0.010		< 0.010	
Arsenic	M	2450	mg/kg	1.0	9.9	9.0	2.5	5.7	7.7	7.9	4.2	4.2	4.7
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.12	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium	M	2450	mg/kg	1.0	32	22	8.9	16	19	23	7.7	10	14
Copper	M	2450	mg/kg	0.50	13	9.5	4.6	6.3	6.4	9.7	8.4	2.1	8.7
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	26	8.9	4.1	6.6	8.6	30	3.5	5.3	6.1
Lead	M	2450	mg/kg	0.50	11	17	9.1	15	9.7	8.3	22	6.8	23
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	43	34	16	23	23	27	36	14	33
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.94	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.20	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.7	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1.5	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.11	< 0.10	< 0.10	0.73	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	0.70	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.98	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.24	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.79	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.45	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.48	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.0	< 2.0	< 2.0

Chemtest
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Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners			**Chemtest Job No.:**		17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:			**Chemtest Sample ID.:**		490592	490593	490594	490595	490596	490597	490598	490599	490600
			Client Sample ID.:		TP21	TP23	TP25	TP27	TP27	TP29	TP30	TP31	TP35
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.70	0.10	0.30	0.10	0.60	1.30	0.10	0.40	0.10
			Date Sampled:		26-Jul-2017	26-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**									
Demeton-O	N	2820	mg/kg	0.20									
Phorate	N	2820	mg/kg	0.20									
Demeton-S	N	2820	mg/kg	0.20									
Disulfoton	N	2820	mg/kg	0.20									
Fenthion	N	2820	mg/kg	0.20									
Trichloronate	N	2820	mg/kg	0.20									
Prothiofos	N	2820	mg/kg	0.20									
Fensulphothion	N	2820	mg/kg	0.20									
Sulprofos	N	2820	mg/kg	0.20									
Azinphos-Methyl	N	2820	mg/kg	0.20									
Coumaphos	N	2820	mg/kg	0.20									
Alpha-HCH	N	2840	mg/kg	0.20									
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20									
Beta-HCH	N	2840	mg/kg	0.20									
Delta-HCH	N	2840	mg/kg	0.20									
Heptachlor	N	2840	mg/kg	0.20									
Aldrin	N	2840	mg/kg	0.20									
Heptachlor Epoxide	N	2840	mg/kg	0.20									
Gamma-Chlordane	N	2840	mg/kg	0.20									
Alpha-Chlordane	N	2840	mg/kg	0.20									
Endosulfan I	N	2840	mg/kg	0.20									
4,4-DDE	N	2840	mg/kg	0.20									
Dieldrin	N	2840	mg/kg	0.20									
Endrin	N	2840	mg/kg	0.20									
4,4-DDD	N	2840	mg/kg	0.20									
Endosulfan II	N	2840	mg/kg	0.20									
Endrin Aldehyde	N	2840	mg/kg	0.20									
4,4-DDT	N	2840	mg/kg	0.20									
Endosulfan Sulphate	N	2840	mg/kg	0.20									
Methoxychlor	N	2840	mg/kg	0.20									
Endrin Ketone	N	2840	mg/kg	0.20									

Chemtest
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Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners			**Chemtest Job No.:**		17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:			**Chemtest Sample ID.:**		490601	490602	490603	490604	490605	490606	490607
			Client Sample ID.:		TP36	TP37	TP39	TP41	TP42	TP43	TP45
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.10	0.10	0.10	0.20	1.00	0.10	0.70
			Date Sampled:		27-Jul-2017	26-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
ACM Type	U	2192		N/A	-			-			
Asbestos Identification	U	2192	%	0.001	No Asbestos Detected			No Asbestos Detected			
Moisture	N	2030	%	0.020	15	16	20	17	19	13	15
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	NONE	Stones	Stones	NONE	NONE	NONE, 490W06
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Clay	Sand	Clay
pH	M	2010		N/A	6.0	6.3		7.2	7.3	6.4	7.1
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010					< 0.010		< 0.010
Total Sulphur	M	2175	%	0.010					0.010		< 0.010
Sulphate (Acid Soluble)	M	2430	%	0.010					< 0.010		< 0.010
Arsenic	M	2450	mg/kg	1.0	7.7	6.2		8.3	31	5.3	13
Cadmium	M	2450	mg/kg	0.10	0.11	< 0.10		0.30	0.12	0.18	< 0.10
Chromium	M	2450	mg/kg	1.0	22	18		22	24	15	40
Copper	M	2450	mg/kg	0.50	7.4	7.7		20	13	14	16
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10		0.11	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	7.7	7.8		9.4	53	8.5	19
Lead	M	2450	mg/kg	0.50	24	17		23	9.9	20	16
Selenium	M	2450	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.50	31	28		49	43	33	49
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	2800	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0

Chemtest
The right chemistry to deliver results

Results - Soil

Project: 41623 Hogwood Farm, Arborfield

Client: Eastwood & Partners			**Chemtest Job No.:**		17-19872	17-19872	17-19872	17-19872	17-19872	17-19872	17-19872
Quotation No.:			**Chemtest Sample ID.:**		490601	490602	490603	490604	490605	490606	490607
			Client Sample ID.:		TP36	TP37	TP39	TP41	TP42	TP43	TP45
			Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Top Depth (m):		0.10	0.10	0.10	0.20	1.00	0.10	0.70
			Date Sampled:		27-Jul-2017	26-Jul-2017	26-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017	27-Jul-2017
			Asbestos Lab:		COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY	COVENTRY
Determinand	**Accred.**	**SOP**	**Units**	**LOD**							
Demeton-O	N	2820	mg/kg	0.20			< 0.20				
Phorate	N	2820	mg/kg	0.20			< 0.20				
Demeton-S	N	2820	mg/kg	0.20			< 0.20				
Disulfoton	N	2820	mg/kg	0.20			< 0.20				
Fenthion	N	2820	mg/kg	0.20			< 0.20				
Trichloronate	N	2820	mg/kg	0.20			< 0.20				
Prothiofos	N	2820	mg/kg	0.20			< 0.20				
Fensulphothion	N	2820	mg/kg	0.20			< 0.20				
Sulprofos	N	2820	mg/kg	0.20			< 0.20				
Azinphos-Methyl	N	2820	mg/kg	0.20			< 0.20				
Coumaphos	N	2820	mg/kg	0.20			< 0.20				
Alpha-HCH	N	2840	mg/kg	0.20			< 0.20				
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20			< 0.20				
Beta-HCH	N	2840	mg/kg	0.20			< 0.20				
Delta-HCH	N	2840	mg/kg	0.20			< 0.20				
Heptachlor	N	2840	mg/kg	0.20			< 0.20				
Aldrin	N	2840	mg/kg	0.20			< 0.20				
Heptachlor Epoxide	N	2840	mg/kg	0.20			< 0.20				
Gamma-Chlordane	N	2840	mg/kg	0.20			< 0.20				
Alpha-Chlordane	N	2840	mg/kg	0.20			< 0.20				
Endosulfan I	N	2840	mg/kg	0.20			< 0.20				
4,4-DDE	N	2840	mg/kg	0.20			< 0.20				
Dieldrin	N	2840	mg/kg	0.20			< 0.20				
Endrin	N	2840	mg/kg	0.20			< 0.20				
4,4-DDD	N	2840	mg/kg	0.20			< 0.20				
Endosulfan II	N	2840	mg/kg	0.20			< 0.20				
Endrin Aldehyde	N	2840	mg/kg	0.20			< 0.20				
4,4-DDT	N	2840	mg/kg	0.20			< 0.20				
Endosulfan Sulphate	N	2840	mg/kg	0.20			< 0.20				
Methoxychlor	N	2840	mg/kg	0.20			< 0.20				
Endrin Ketone	N	2840	mg/kg	0.20			< 0.20				

Test Methods

SOP	Title	Parameters included	Method summary
2010	pH Value of Soils	pH	pH Meter
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.
2450	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS
2820	Organophosphorus (O-P) Pesticides in Soils by GC-MS	Organophosphorus pesticide representative suite including Parathion, Malathion etc, plus client specific determinands	Dichloromethane extraction / GC-MS
2840	Organochlorine (O-Cl) Pesticides in Soils by GC-MS	Organochlorine pesticide representative suite including DDT and its metabolites, 'drins' and HCH etc, plus client specific determinands	Dichloromethane extraction / GC-MS

Report Information

Key

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

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

Sample Deviation Codes

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

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt
All water samples will be retained for 14 days from the date of receipt
Charges may apply to extended sample storage

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

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Analytical Report Number : 25-042363

Replaces Analytical Report Number: 25-042363, issue no. 1
Additional analysis undertaken.
Asbestos Quantification added to samples 642684 & 691 as per client's request

Project / Site name:	Finchampstead - P11, P12, Neighbourhood Centre	**Samples received on:**	11/08/2025
Your job number:	41623	**Samples instructed on/ Analysis started on:**	11/08/2025
Your order number:		**Analysis completed by:**	11/09/2025
Report Issue Number:	2	**Report issued on:**	12/09/2025
Samples Analysed:	22 soil samples		

[redacted]

Signed:

Rachel Chappell
Key Account Manager
For & on behalf of i2 Analytical Ltd.

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

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

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waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

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Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642683	642684	642685	642686	642687
Sample Reference				TP101 - ES1 - MG	TP101 - ES2 - MG	TP102 - ES1 - MG	TP102 - ES2 - NG	TP103 - ES2 - MG
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.15	0.32	0.20	0.60	0.45
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	42.6	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	8.8	17	12	20	16
Total mass of sample received	kg	0.1	NONE	0.7	0.6	0.7	0.7	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Detected	Not-detected	-	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	WIK	WIK	WIK	-	WIK
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	19/08/2025	-	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Amosite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	Detected	-	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Tremolite detected	Type	N/A	ISO 17025	-	Not-detected	-	-	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	< 0.001	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	Loose Fibres	-	-	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	9.7	7	10.2	8	7.7
Total Sulphate as SO_4	%	0.005	MCERTS	0.431	0.094	1.29	0.062	0.131
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1400	860	2000	350	820
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.694	0.432	0.996	0.175	0.408
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	694	432	996	175	408
Total Sulphur	mg/kg	50	MCERTS	1800	770	4400	220	750
Total Sulphur	%	0.005	MCERTS	0.178	0.077	0.444	0.022	0.075
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.49	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.3	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.66	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.86	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.4	< 0.05	5.8	< 0.05	0.1
Anthracene	mg/kg	0.05	MCERTS	0.11	< 0.05	1.9	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	1	< 0.05	8.1	< 0.05	0.31
Pyrene	mg/kg	0.05	MCERTS	1.1	< 0.05	7.3	< 0.05	0.29
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.54	< 0.05	3.6	< 0.05	0.16
Chrysene	mg/kg	0.05	MCERTS	0.65	< 0.05	3.7	< 0.05	0.19
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.85	< 0.05	3.8	< 0.05	0.31
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.33	< 0.05	2.3	< 0.05	0.1
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.74	< 0.05	4.3	< 0.05	0.25
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.36	< 0.05	2	< 0.05	0.14
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.07	< 0.05	0.37	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.41	< 0.05	2.1	< 0.05	0.16

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642683	642684	642685	642686	642687
Sample Reference				TP101 - ES1 - MG	TP101 - ES2 - MG	TP102 - ES1 - MG	TP102 - ES2 - NG	TP103 - ES2 - MG
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.15	0.32	0.20	0.60	0.45
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	6.55	< 0.80	47.4	< 0.80	2.01
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	10	7.8	6.1	11	7.8
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.6	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	27	21	44	25
Copper (aqua regia extractable)	mg/kg	1	MCERTS	73	14	16	18	24
Lead (aqua regia extractable)	mg/kg	1	MCERTS	41	19	9.7	11	21
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	14	9.1	12	15	9.4
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	230	50	62	44	140
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-	< 2.0	-	-	< 2.0
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	< 8.0	-	-	< 8.0
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	< 8.0	-	-	14
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-	< 10	-	-	14
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	< 0.010	-	-	< 0.010
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-	< 0.020	-	-	< 0.020
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-	< 1.0	-	-	< 1.0
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-	< 2.0	-	-	< 2.0
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	< 10	-	-	< 10
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	< 10	-	-	< 10
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-	< 10	-	-	< 10
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Benzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Toluene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
Ethylbenzene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0
p & m-Xylene	µg/kg	8	MCERTS	-	< 8.0	-	-	< 8.0
o-Xylene	µg/kg	5	MCERTS	-	< 5.0	-	-	< 5.0

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

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642688	642689	642690	642691	642692
Sample Reference				TP103 - ES3 - NG	TP1 - ES2 - MG	TP1 - ES3 - NG	TP2 - ES1 - MG	TP2 -ES2 - NG
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.60	0.60	0.80	0.10	0.45
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	24.8	< 0.1	29.1	< 0.1
Moisture Content	%	0.01	NONE	18	8.8	14	6	11
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.7	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	-	Not-detected	-	Detected	-
Asbestos Analyst ID	N/A	N/A	N/A	-	PKU	-	PKU	-
Analysis completed	N/A	N/A	N/A	-	19/08/2025	-	19/08/2025	-
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	< 0.001	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	6.8	9.5	8	8.4	8
Total Sulphate as SO_4	%	0.005	MCERTS	0.038	0.607	0.073	0.442	0.054
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	1400	680	1700	210
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.103	0.677	0.338	0.862	0.106
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	103	677	338	862	106
Total Sulphur	mg/kg	50	MCERTS	150	2400	960	1600	260
Total Sulphur	%	0.005	MCERTS	0.015	0.238	0.096	0.16	0.026
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	0.06	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	0.12	< 0.05	0.08	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	0.13	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	0.16	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	1.9	0.25	0.62	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	0.6	< 0.05	0.23	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.06	3.5	0.51	1.7	< 0.05
Pyrene	mg/kg	0.05	MCERTS	0.05	3.7	0.45	1.6	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.9	0.22	1	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	2	0.26	1.1	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	3	0.33	1.5	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	0.98	0.18	0.76	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	2.7	0.33	1.4	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.5	0.16	0.79	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.3	< 0.05	0.15	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	1.7	0.17	0.83	< 0.05

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642688	642689	642690	642691	642692
Sample Reference				TP103 - ES3 - NG	TP1 - ES2 - MG	TP1 - ES3 - NG	TP2 - ES1 - MG	TP2 -ES2 - NG
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.60	0.60	0.80	0.10	0.45
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	24.1	2.85	11.9	< 0.80
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	8.5	5.9	8.7	8.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3	< 0.2	0.8	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	44	23	26	25	28
Copper (aqua regia extractable)	mg/kg	1	MCERTS	23	47	15	96	19
Lead (aqua regia extractable)	mg/kg	1	MCERTS	12	43	14	55	17
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	22	13	12	16	9
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	49	160	39	250	41
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	< 8.0	-	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-	-	< 10	-	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	< 0.010	-	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-	-	< 0.020	-	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-	-	< 1.0	-	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-	-	< 2.0	-	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	< 10	-	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-	-	< 10	-	-
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Benzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Toluene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	< 5.0	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	< 8.0	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	< 5.0	-	-

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

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642693	642694	642695	642696	642697
Sample Reference				TP3 - ES1 - TS/MG	TP3 - ES2 - NG	HEAP 4 - ES1	HEAP 4 - ES2	HEAP 4 - ES3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.05	0.30	None Supplied	None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	24.8
Moisture Content	%	0.01	NONE	5.7	12	10	7.7	6.3
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.7	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	PKU	-	PKU	PKU	PKU
Analysis completed	N/A	N/A	N/A	19/08/2025	-	19/08/2025	19/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	7.6	8.2	8.7	10.2	8.2
Total Sulphate as SO_4	%	0.005	MCERTS	0.061	0.023	0.404	1.06	0.097
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	210	20	2100	1700	360
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.106	0.0102	1.03	0.851	0.181
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	106	10.2	1030	851	181
Total Sulphur	mg/kg	50	MCERTS	250	110	1500	3900	420
Total Sulphur	%	0.005	MCERTS	0.025	0.011	0.148	0.393	0.042
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.19	0.24	0.27
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	0.1	0.08
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.7	0.79	1.1
Pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.68	0.83	1.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.41	0.45	0.78
Chrysene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.45	0.51	0.87
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.64	0.67	1.5
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	< 0.05	0.21	0.34	0.65
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.55	0.64	1.4
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.28	0.32	0.84
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.06	< 0.05	0.17
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.29	0.34	0.93

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642693	642694	642695	642696	642697
Sample Reference				TP3 - ES1 - TS/MG	TP3 - ES2 - NG	HEAP 4 - ES1	HEAP 4 - ES2	HEAP 4 - ES3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				0.05	0.30	None Supplied	None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	< 0.80	< 0.80	4.52	5.22	9.61
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.3	11	7.7	10	8.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	0.6	0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	U/S [*U/S g]	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	< 1.80	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	18	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	18	37	15	22	18
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	11	54	41	22
Lead (aqua regia extractable)	mg/kg	1	MCERTS	17	9.5	23	40	20
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	6.1	9.5	9.2	13	9.7
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	42	44	75	140	79
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-	-	-	-	-
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-

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

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642698	642699	642700	642701	642702
Sample Reference				HEAP 4 - ES4	HEAP 4 - ES5	HEAP 4 - ES6	HEAP 4 - ES7	HEAP 4 - ES8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	13.3
Moisture Content	%	0.01	NONE	9	15	7.6	13	7.7
Total mass of sample received	kg	0.1	NONE	0.7	0.7	0.7	0.7	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI	MBI	MBI	MBI
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025	19/08/2025	19/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Amosite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Chrysotile detected	Type	N/A	ISO 17025	-	-	-	Detected	-
Crocidolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Tremolite detected	Type	N/A	ISO 17025	-	-	-	Not-detected	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-	-	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-	-	Loose Fibres	-
General Inorganics								
pH (L099)	pH Units	N/A	MCERTS	8	7.8	9.6	8.7	8
Total Sulphate as SO_4	%	0.005	MCERTS	0.195	0.158	0.323	0.101	0.192
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	1100	810	1100	510	1200
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.545	0.406	0.543	0.254	0.596
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	545	406	543	254	596
Total Sulphur	mg/kg	50	MCERTS	640	720	1300	490	840
Total Sulphur	%	0.005	MCERTS	0.064	0.072	0.127	0.049	0.084
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	0.23	0.1	0.18	0.42	0.13
Anthracene	mg/kg	0.05	MCERTS	0.05	< 0.05	0.07	0.24	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.59	0.33	0.98	2.1	0.43
Pyrene	mg/kg	0.05	MCERTS	0.54	0.31	0.92	1.8	0.39
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.34	0.19	0.6	0.87	0.23
Chrysene	mg/kg	0.05	MCERTS	0.32	0.22	0.63	0.81	0.28
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.45	0.3	0.91	0.93	0.42
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.24	0.16	0.42	0.45	0.2
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.43	0.25	0.82	0.87	0.35
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.24	0.16	0.42	0.44	0.22
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.09	0.08	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.25	0.18	0.45	0.45	0.26

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642698	642699	642700	642701	642702
Sample Reference				HEAP 4 - ES4	HEAP 4 - ES5	HEAP 4 - ES6	HEAP 4 - ES7	HEAP 4 - ES8
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Water Matrix				N/A	N/A	N/A	N/A	N/A
Depth (m)				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025	06/08/2025	06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status					
Total PAH								
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	3.68	2.19	6.5	9.48	2.9
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	9.1	9.3	6.5	8.9	10
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-	-	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-	-	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	27	40	21	42	32
Copper (aqua regia extractable)	mg/kg	1	MCERTS	36	30	480	19	31
Lead (aqua regia extractable)	mg/kg	1	MCERTS	19	24	24	19	26
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	12	17	12	16	19
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	64	65	98	58	84
Petroleum Hydrocarbons								
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-	-	-	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-	-	-	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-	-	-	-	-
VOCs								
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-	-	-	-
Benzene	µg/kg	5	MCERTS	-	-	-	-	-
Toluene	µg/kg	5	MCERTS	-	-	-	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-	-	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-	-	-	-
o-Xylene	µg/kg	5	MCERTS	-	-	-	-	-

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

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642703	642704
Sample Reference				HEAP 4 - ES9	HEAP 4 - ES10
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Stone Content	%	0.1	NONE	< 0.1	20.6
Moisture Content	%	0.01	NONE	15	7.2
Total mass of sample received	kg	0.1	NONE	0.7	0.7

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MBI	MBI
Analysis completed	N/A	N/A	N/A	19/08/2025	19/08/2025
Actinolite detected	Type	N/A	ISO 17025	-	-
Amosite detected	Type	N/A	ISO 17025	-	-
Anthophyllite detected	Type	N/A	ISO 17025	-	-
Chrysotile detected	Type	N/A	ISO 17025	-	-
Crocidolite detected	Type	N/A	ISO 17025	-	-
Tremolite detected	Type	N/A	ISO 17025	-	-
Asbestos % by hand picking/weighing	%	0.001	ISO 17025	-	-
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	8.2	10.3
Total Sulphate as SO_4	%	0.005	MCERTS	0.096	0.41
Water Soluble Sulphate as SO_4 16hr extraction (2:1)	mg/kg	2.5	MCERTS	390	1400
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.197	0.709
Water Soluble SO_4 16hr extraction (2:1 Leachate Equivalent)	mg/l	1.25	MCERTS	197	709
Total Sulphur	mg/kg	50	MCERTS	620	1900
Total Sulphur	%	0.005	MCERTS	0.062	0.187

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	0.08	< 0.05
Fluorene	mg/kg	0.05	MCERTS	0.09	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	1.5	0.5
Anthracene	mg/kg	0.05	MCERTS	0.46	0.17
Fluoranthene	mg/kg	0.05	MCERTS	4.2	1.5
Pyrene	mg/kg	0.05	MCERTS	3.4	1.4
Benzo(a)anthracene	mg/kg	0.05	MCERTS	1.7	0.83
Chrysene	mg/kg	0.05	MCERTS	1.8	0.87
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	2.5	1.2
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	1.2	0.6
Benzo(a)pyrene	mg/kg	0.05	MCERTS	2.3	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	1.4	0.63
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	0.24	0.14
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	1.5	0.69

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Analytical Report Number: 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

Lab Sample Number				642703	642704
Sample Reference				HEAP 4 - ES9	HEAP 4 - ES10
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				06/08/2025	06/08/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status		
Total PAH					
Speciated Total EPA-16 PAHs	mg/kg	0.8	ISO 17025	22.3	9.72
Heavy Metals / Metalloids					
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	11	8.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.3
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8
Chromium (VI) by IC	mg/kg	1.8	NONE	-	-
Chromium (III) by IC	mg/kg	1	NONE	-	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	90	19
Copper (aqua regia extractable)	mg/kg	1	MCERTS	310	44
Lead (aqua regia extractable)	mg/kg	1	MCERTS	26	33
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	19	11
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	120	100
Petroleum Hydrocarbons					
TPHCWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	-	-
TPHCWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	-	-
TPHCWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-
TPHCWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	-	-
TPHCWG - Aliphatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	-	-
TPHCWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.01	MCERTS	-	-
TPHCWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.02	MCERTS	-	-
TPHCWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	-	-
TPHCWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	-	-
TPHCWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	-	-
TPHCWG - Aromatic >EC5 - EC35 $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	-	-
VOCs					
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	5	MCERTS	-	-
Benzene	µg/kg	5	MCERTS	-	-
Toluene	µg/kg	5	MCERTS	-	-
Ethylbenzene	µg/kg	5	MCERTS	-	-
p & m-Xylene	µg/kg	8	MCERTS	-	-
o-Xylene	µg/kg	5	MCERTS	-	-

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

This certificate should not be reproduced, except in full, without the express permission of the laboratory.
The results included within the report are representative of the samples submitted for analysis.

4041

Analytical Report Number: **25-042363**
Project / Site name: **Finchampstead - P11, P12, Neighbo**
Your Order No:

Certificate of Analysis - Asbestos Quantification

Methods:

Qualitative Analysis

The samples were analysed qualitatively for asbestos by polarising light and dispersion staining as described by the Health and Safety Executive in HSG 248.

Quantitative Analysis

The analysis was carried out using our documented in-house method A006 based on HSE Contract Research Report No: 83/1996: Development and Validation of an analytical method to determine the amount of asbestos in soils and loose aggregates (Davies et al, 1996) and HSG 248. Our method includes initial examination of the entire representative sample, then fractionation and detailed analysis of each fraction, with quantification by hand picking and weighing.

The limit of detection (reporting limit) of this method is 0.001 %.

The method has been validated using samples of at least 100 g, results for samples smaller than this should be interpreted with caution.

Both Qualitative and Quantitative Analyses are UKAS accredited.

Sample Number	Sample ID	Sample Depth (m)	Sample Weight (g)	Asbestos Containing Material Types Detected (ACM)	PLM Results	Asbestos by hand picking/weighing (%)	Total % Asbestos in Sample	Analysis completed	Analyst ID
642684	TP101 - ES2 - MG	0.32-	269	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**	11/09/2025	MBI
642691	TP2 - ES1 - MG	0.10-	296	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**	11/09/2025	PKU

Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

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

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

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
642683	TP101 - ES1 - MC	None Supplied	0.15	Brown loam and sand with gravel and vegetation
642684	TP101 - ES2 - MC	None Supplied	0.32	Brown loam and clay with gravel and vegetation
642685	TP102 - ES1 - MC	None Supplied	0.2	Brown loam and sand with gravel and vegetation
642686	TP102 - ES2 - NC	None Supplied	0.6	Brown clay
642687	TP103 - ES2 - MC	None Supplied	0.45	Brown loam and clay with gravel and vegetation
642688	TP103 - ES3 - NC	None Supplied	0.6	Brown clay and sand
642689	TP1 - ES2 - MG	None Supplied	0.6	Brown loam and sand with gravel and vegetation
642690	TP1 - ES3 - NG	None Supplied	0.8	Brown clay and sand
642691	TP2 - ES1 - MG	None Supplied	0.1	Brown loam and sand with gravel and chalk
642692	TP2 -ES2 - NG	None Supplied	0.45	Brown clay and loam with gravel and vegetation
642693	TP3 - ES1 - TS/M	None Supplied	0.05	Brown loam and clay with gravel and vegetation
642694	TP3 - ES2 - NG	None Supplied	0.3	Brown clay and sand
642695	HEAP 4 - ES1	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
642696	HEAP 4 - ES2	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
642697	HEAP 4 - ES3	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
642698	HEAP 4 - ES4	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
642699	HEAP 4 - ES5	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
642700	HEAP 4 - ES6	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation
642701	HEAP 4 - ES7	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
642702	HEAP 4 - ES8	None Supplied	None Supplied	Brown loam and clay with gravel and brick
642703	HEAP 4 - ES9	None Supplied	None Supplied	Brown clay and sand with gravel and vegetation
642704	HEAP 4 - ES10	None Supplied	None Supplied	Brown loam and sand with gravel and vegetation

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The results included within the report are representative of the samples submitted for analysis.

Analytical Report Number : 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025
Moisture Content	Moisture content, determined gravimetrically (up to 30°C)	In-house method	L019B	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight	In-house method based on British Standard Methods and MCERTS requirements.	L019B	D	NONE
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil	L038B	D	MCERTS
Total sulphate (as SO4 in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES	In-house method	L038B	D	MCERTS
Sulphate, water soluble, in soil (16hr extraction)	Sulphate, water soluble, in soil (16hr extraction)	In-house method	L038B	D	MCERTS
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES	In-house method	L038B	D	MCERTS
Speciated PAHs and/or Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds (including PAH) in soil by extraction in dichloromethane and hexane followed by GC-MS	In-house method based on USEPA 8270	L064B	D	MCERTS
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in NaOH and addition of 1,5 diphenylcarbazide followed by colorimetry	In-house method	L080-PL	W	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement	In-house method	L099-PL	D	MCERTS
Soil Descriptions	Textural classification	In-house method	L019B	W	NONE
Asbestos Quantification - Gravimetric	Asbestos quantification by gravimetric method - in house method based on references	HSE Report No: 83/1996, HSG 248 (2021), HSG 264 (2012) & SCA Blue Book (draft)	A006B	D	ISO 17025
BTEX and/or Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS	In-house method based on USEPA 8260	L073B	W	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID in soil	Determination of total petroleum hydrocarbons in soil by GC-FID with carbon banding aliphatic and aromatic	In-house method	L076B	D	MCERTS
Total petroleum hydrocarbons with carbon banding by GC-FID/GC-MS HS in soil (Summed Bands)	Determination of total petroleum hydrocarbons in soil by GC-FID/GC-MS HS with carbon banding aliphatic and aromatic (Summed Bands).	Calculation	L076B/L088-PL	D/W	NONE

Analytical Report Number : 25-042363
Project / Site name: Finchampstead - P11, P12, Neighbourhood Centre

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

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total petroleum hydrocarbons with carbon banding by HS-GC/MS in soil	Determination of total petroleum hydrocarbons in soil by HS-GC/MS with carbon banding aliphatic and aromatic	In-house method	L088-PL	W	MCERTS
Cr(VI) in soils by Ion chromatography	Determination of hexavalent chromium in alkaline soil extract by use of ion chromatography with spectrophotometric detection	In-house method	L130B	W	NONE
Chromium III in soil	In-house method by calculation from total Cr and Cr VI	In-house method by calculation	L080-PL/L130B	W	NONE

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).
For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).
For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.
Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.
The result for sum should be interpreted with caution

*U/S g- Unsuitable for analysis due to high colour intensity.

Inorganic Compounds	Human Health – Public Open Space Near Housing (mg/kg)
Arsenic	79
Cadmium	120
Chromium (III)	1500
Chromium (VI)	7.7
Lead	270-760
Mercury	16
Nickel	230
Selenium	1100
Copper	12000
Zinc	81000

Organic Compounds	Human Health – Public Open Space Near Housing (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Naphthalene	4900	4900	4900
Acenaphthene	15000	15000	15000
Acenaphthylene	15000	15000	15000
Fluorene	9900	9900	9900
Phenanthrene	3100	3100	3100
Anthracene	74000	74000	74000
Fluoranthene	3100	3100	3100
Pyrene	7400	7400	7400
Benzo(a)anthracene	29	29	29
Chrysene	57	57	57
Benzo(b)fluoranthene	7.1	7.2	7.2
Benzo(k)fluoranthene	190	190	190
Benzo(a)pyrene	5.7	5.7	5.7
Dibenz(a,h)anthracene	0.57	0.57	0.58
Indeno(1,2,3-cd)pyrene	82	82	82
Benzo(g,h,i)perylene	640	640	640
Benzene	72	72	73
Toluene	56000	56000	56000
Ethylbenzene	24000	24000	25000
o-Xylene	41000	42000	43000
m-Xylene	41000	42000	43000
p-Xylene	41000	42000	43000

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Prepared	LM	Checked	RAN	Date	11.09.25	Job No	41623

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CALA HOMES THAMES

NEIGHBOURHOOD CENTRE, HOGWOOD FARM (FINCHWOOD PARK DEVELOPMENT)

ASSESSMENT CRITERIA – PUBLIC OPEN SPACE NEAR HOUSING

Contaminant	Phytotoxicity			
	pH 5.0 to 5.5	pH 5.5 to 6.0	pH 6.0 to 7.0	pH >7.0
Arsenic	50			
Cadmium	3			
Chromium	400			
Lead	300			
Mercury	1			
Nickel	50	60	75	110
Copper	80	100	135	200
Zinc	200	200	200	300

The assessment concentration for lead is the Category 4 Screening Level produced by Contaminated Land: Applications in Real Environments (CL:AIRE) and outlined in Appendix H of their report SP1010.
The others have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. The metals/metalloids are based on a sandy loam soil and 6% soil organic matter. The assessment values are not intended to be applied to individual sample results where materials are similar, as the levels of contaminants will have a natural variability across the site. Instead, the modified mean value should be compared with the assessment concentration.

The assessment values for phytotoxicity are the levels at which plant growth is thought to be affected. They are taken from the maximum permissible and advisable concentrations in soil after application of soil sludge given in the *'The Code of Good Agricultural Practice for the Protection of Soil*', MAFF, 1998.

The assessment of sulphate, water soluble sulphate, elemental sulphur and sulphide is to determine the aggressive nature of the ground with respect to concrete and consequently the results are compared with BRE Special Digest 1:2005 '*Concrete in Aggressive Ground*'.

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Prepared	LM	Checked	RAN	Date	11.09.25	Job No	41623

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NEIGHBOURHOOD CENTRE, HOGWOOD FARM (FINCHWOOD PARK DEVELOPMENT)

ASSESSMENT CRITERIA – PUBLIC OPEN SPACE NEAR HOUSING

TPH Fraction	Intended Land Use Public Open Space Near Housing (mg/kg)		
	1% SOM	2.5% SOM	6% SOM
Aliphatic EC 5-6	570000 (304)[sol]	590000	600000
Aliphatic EC >6-8	600000	610000	620000
Aliphatic EC >8-10	13000	13000	13000
Aliphatic EC >10-12	13000	13000	13000
Aliphatic EC >12-16	13000	13000	13000
Aliphatic EC >16-35	250000[f]	250000[f]	250000[f]
Aliphatic EC >35-44	250000[f]	250000[f]	250000[f]
Aromatic EC 5-7	56000	56000	56000
Aromatic EC >7-8	56000	56000	56000
Aromatic EC>8-10	5000	5000	5000
Aromatic EC >10-12	5000	5000	5000
Aromatic EC >12-16	5100	5100	5000
Aromatic EC >16-21	3800[f]	3800[f]	3800[f]
Aromatic EC >21-35	3800[f]	3800[f]	3800[f]
Aromatic EC >35-44	3800[f]	3800[f]	3800[f]

[f] oral, dermal, and inhalation exposure compared with oral HCV

[sol] S4UL presented exceeds the solubility saturation limit, which is presented in brackets

The assessment criteria for each of the petroleum hydrocarbon fractions have been taken from Nathanail, C. P., McCaffrey, C., Gillett, A., Ogden, R., and Nathanail, J., 2015, *'The LQM/CIEH S4ULs for Human Health Risk Assessment'*, Land Quality Press, Nottingham. These are also all based on a sandy loam soil.

Within the Environment Agency Science Report P5-080/TR3, Askari, K. & Pollard, S., 2005 *'The UK Approach for Evaluating Human Health Risks from Petroleum Hydrocarbons in Soils'* it is stated that the assessment values should not be considered individually; instead the potential additive effects should be calculated. This is achieved by calculating an individual Hazard Quotient (HQ) for each fraction. The HQ is the proportion of the assessment concentration represented by the recorded concentration. The HQs are then added together to form a Hazard Index (HI) and where this exceeds unity a potential significant risk to human health may exist.

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NEIGHBOURHOOD CENTRE, HOGWOOD FARM (FINCHWOOD PARK DEVELOPMENT)

ASSESSMENT CRITERIA – PUBLIC OPEN SPACE NEAR HOUSING

Appendix 4

Geotechnical Test Results (GEO/43098)

GEOLABS Limited
Bucknalls Lane
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Hertfordshire
WD25 9XX
Tel: +44(0) 1923 892 190

email: admin@geolabs.co.uk
web: www.geolabs.co.uk

Eastwood and Partners (Consulting Engineers) Limited
Unit 3 Gander Down Barns
Rodfield Lane
Ovington
Alresford
SO24 0HS

09 September 2025
Report No : GEO/43098/01

For the attention of Mr A Luxman

		Date samples received	12/08/2025
Our ref	**GEO / 43098**	Date written instructions received	11/08/2025
Your ref	**41623**	Date testing commenced	13/08/2025
Order ref	**41623**	**Date of sample disposal**	**07/10/2025**

Project **HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE**

Further to your instructions we have pleasure in enclosing the results of the tests you requested in the attached figures.

LABORATORY TEST REPORT

Item No	Test Quantity	Description
1	~	Liquid & Plastic Limits Summary
~	7	Water Content
~	7	Liquid & Plastic Limits
2	5	Particle Density
3	5	Particle Size Distribution
4	5	Water Content / Dry Density Relationship
5	2	Unconsolidated Undrained Triaxial Compression

Any opinions or interpretations expressed herein are outside the scope of UKAS accreditation. All results contained in this report are provisional and may be subject to change unless signed by an approved signatory. The results contained in this report relate only to samples received in the laboratory and are tested 'as received' unless otherwise stated. This report should not be reproduced, except in full, without the written approval of the laboratory. The results reported are applicable only to the test items received by the laboratory.

All the necessary data required by the documented test procedures has been recorded and will be stored for a period of not less than 6 years. This data will be issued to yourselves at your request. All samples will be disposed of after the date shown above. Written confirmation will be required to retain the samples beyond this period and a storage charge may be applied.

We trust that the above meets your requirements and should you require any further information or assistance, please do not hesitate to contact us.

Yours faithfully
on behalf of **GEOLABS Limited**

[redacted]

Senior Technician

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Registered Office: Bucknalls Lane Garston Watford Hertfordshire WD25 9XX Registered in England and Wales No: 3177641

1115 - PI Summary - 43098.XLSM

BS EN ISO 17892-12 : 2018+A2:2022

SUMMARY OF LIQUID AND PLASTIC LIMIT TESTS

Location	Depth m	Sample Ref	Sample Type	Description	Water Content BS EN ISO 17892-1 : 2014 +A1:2022 %	Liquid Limit %	Plastic Limit %	Plasticity Index %	Percentage Passing 425µm %	Atterberg Classification BS EN ISO 14688-2:2018	Test Type	Sample Condition
BH1-NC	7.50	No.1	U	Very stiff fissured grey silty CLAY.	20.2	42	22	20	100	ClM	2	1
BH1-NC	14.00	No.3	U	Very stiff fissured brownish grey silty CLAY.	22.0	55	23	32	100	ClH	2	1
HEAP 4		B1	B	Dark brown gravelly sandy silty CLAY with some cobbles.	13.9	34	17	17	44	ClL	2	3
HEAP 4		B2	B	Dark brown sandy gravelly silty CLAY.	11.2	46	21	25	62	ClM	2	3
HEAP 4		B3	B	Dark brown mottled orangish yellow gravelly sandy silty CLAY.	14.0	40	20	20	69	ClM	2	3
HEAP 4		B4	B	Dark brown sandy gravelly silty CLAY.	13.8	43	22	21	69	ClM	2	3
HEAP 4		B5	B	Dark brown mottled orangish yellow gravelly sandy silty CLAY.	21.7	43	26	17	75	SiM	2	3

Test Type: 2 - 4 point 80g / 30° fall cone method.

Sample condition: 1 - As Received
2 - Air Dried
3 - Washed & Air Dried

GL Version 73.250822-1115

Checked and Approved by:

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE

41623

GEOLABS

UKAS TESTING 1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

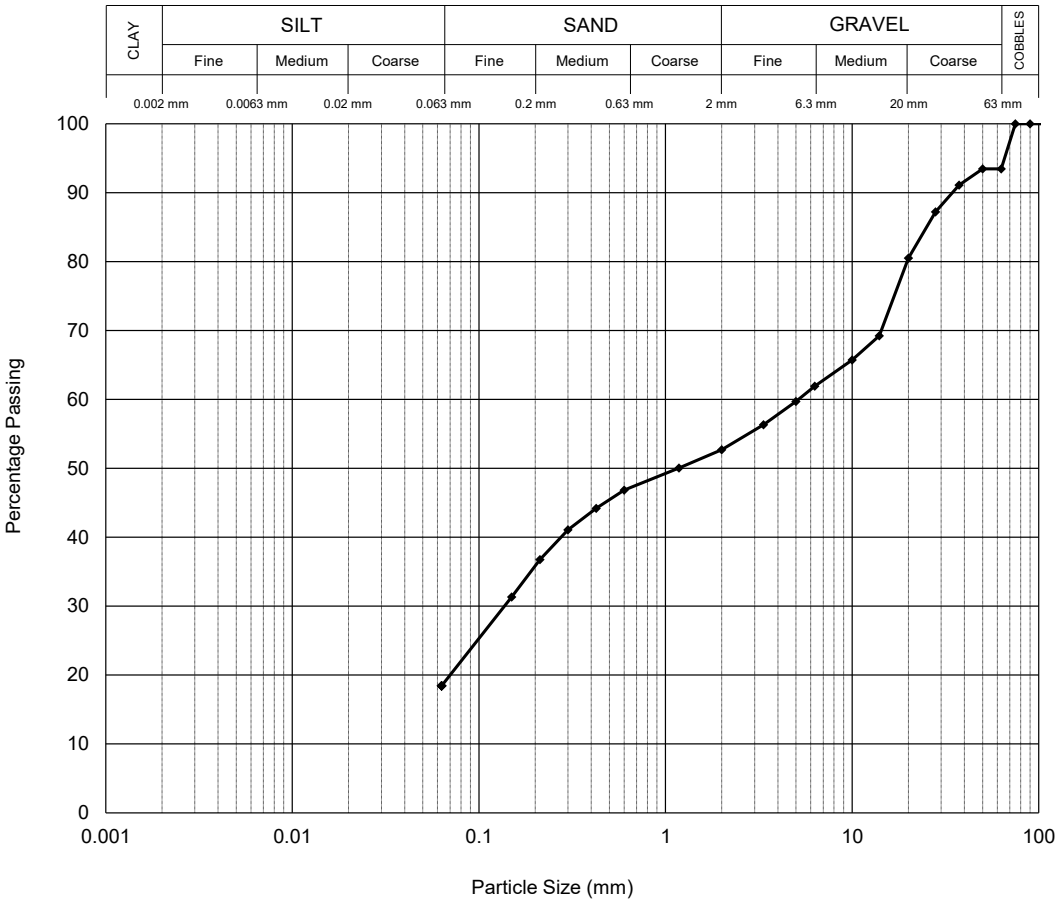
Location	HEAP 4
Sample Ref	B1
Sample Type	B

Description

Dark brown gravelly sandy silty CLAY with some cobbles.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	93
50.0 mm	93
37.5 mm	91
28.0 mm	87
20.0 mm	81
14.0 mm	69
10.0 mm	66
6.30 mm	62
5.00 mm	60
3.35 mm	56
2.00 mm	53
1.18 mm	50
600 µm	47
425 µm	44
300 µm	41
212 µm	37
150 µm	31
63 µm	18



Particle Proportions	
Cobbles	6.6
Gravel	40.7
Sand	34.3
Silt & Clay	18.4

Tested by XW
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS
UKAS TESTING 1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

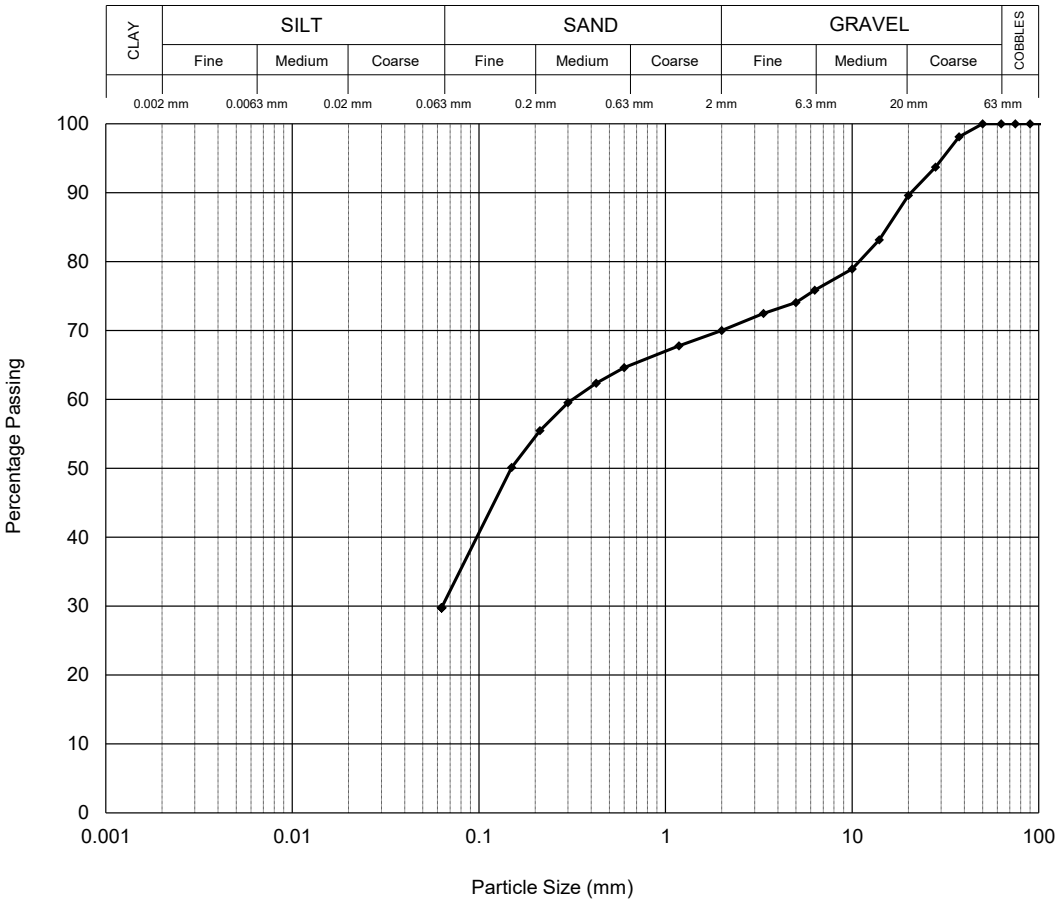
Location	HEAP 4
Sample Ref	B2
Sample Type	B

Description

Dark brown sandy gravelly silty CLAY.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	98
28.0 mm	94
20.0 mm	90
14.0 mm	83
10.0 mm	79
6.30 mm	76
5.00 mm	74
3.35 mm	72
2.00 mm	70
1.18 mm	68
600 µm	65
425 µm	62
300 µm	60
212 µm	55
150 µm	50
63 µm	30



Particle Proportions	
Cobbles	0.0
Gravel	30.0
Sand	40.3
Silt & Clay	29.7

Tested by XW
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS
UKAS TESTING 1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

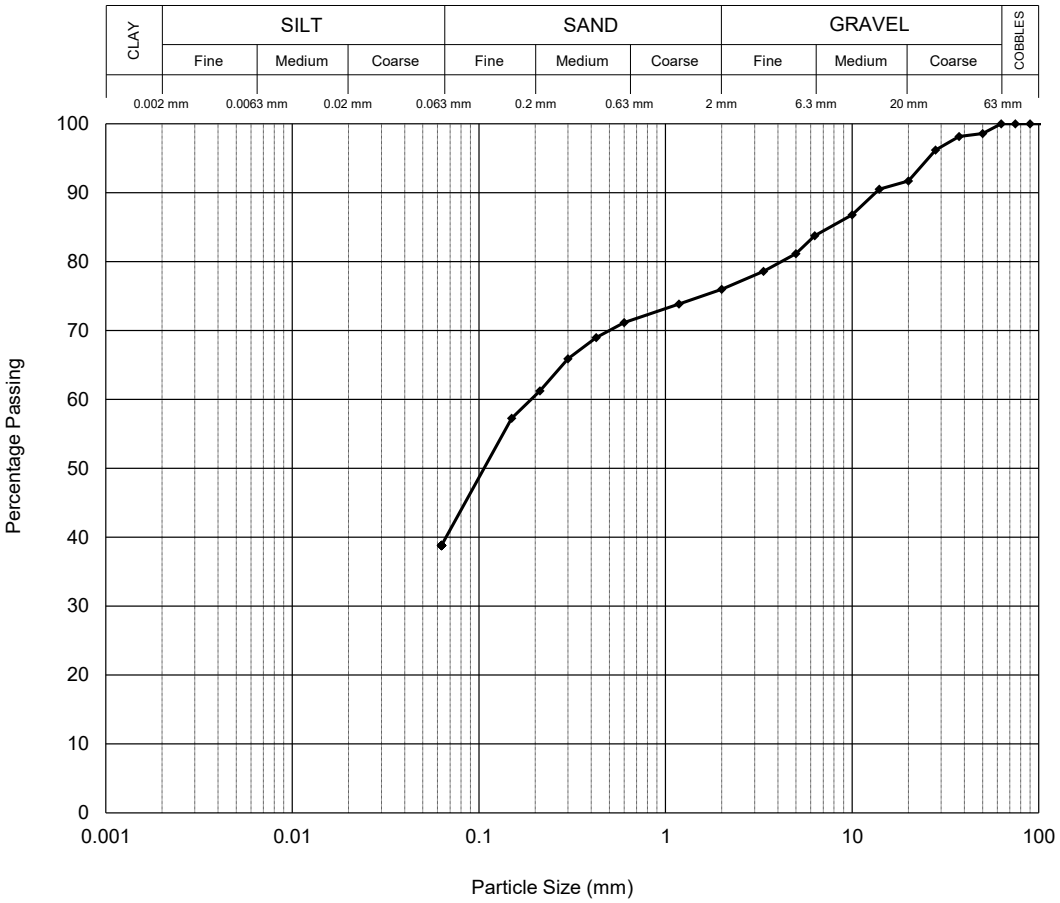
Location	HEAP 4
Sample Ref	B3
Sample Type	B

Description

Dark brown mottled orangish yellow gravelly sandy silty CLAY.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	99
37.5 mm	98
28.0 mm	96
20.0 mm	92
14.0 mm	90
10.0 mm	87
6.30 mm	84
5.00 mm	81
3.35 mm	79
2.00 mm	76
1.18 mm	74
600 µm	71
425 µm	69
300 µm	66
212 µm	61
150 µm	57
63 µm	39



Particle Proportions	
Cobbles	0.0
Gravel	24.0
Sand	37.2
Silt & Clay	38.8

Tested by XW
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS
UKAS TESTING 1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

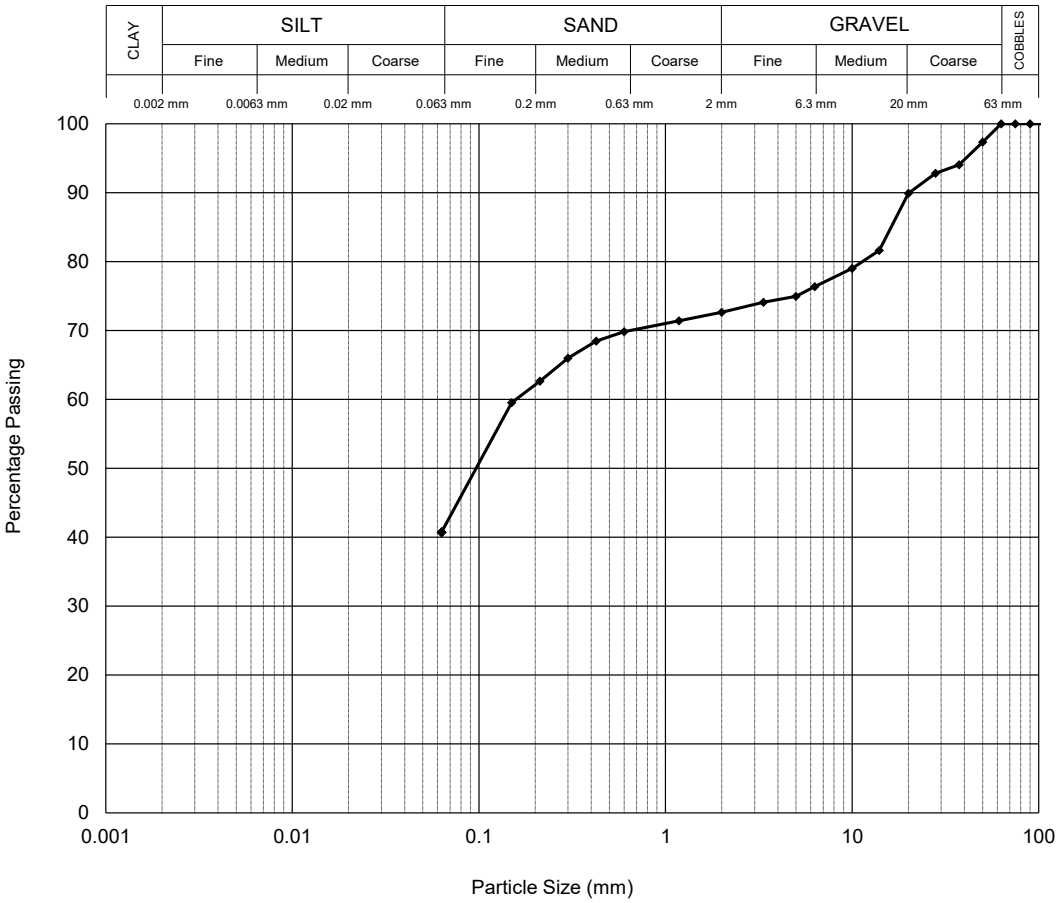
Location	HEAP 4
Sample Ref	B4
Sample Type	B

Description

Dark brown sandy gravelly silty CLAY.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	97
37.5 mm	94
28.0 mm	93
20.0 mm	90
14.0 mm	82
10.0 mm	79
6.30 mm	76
5.00 mm	75
3.35 mm	74
2.00 mm	73
1.18 mm	71
600 µm	70
425 µm	68
300 µm	66
212 µm	63
150 µm	60
63 µm	41



Particle Proportions	
Cobbles	0.0
Gravel	27.3
Sand	31.9
Silt & Clay	40.8

Tested by XW
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS
UKAS TESTING 1982

BS EN ISO 17892-4 : 2016

PARTICLE SIZE DISTRIBUTION

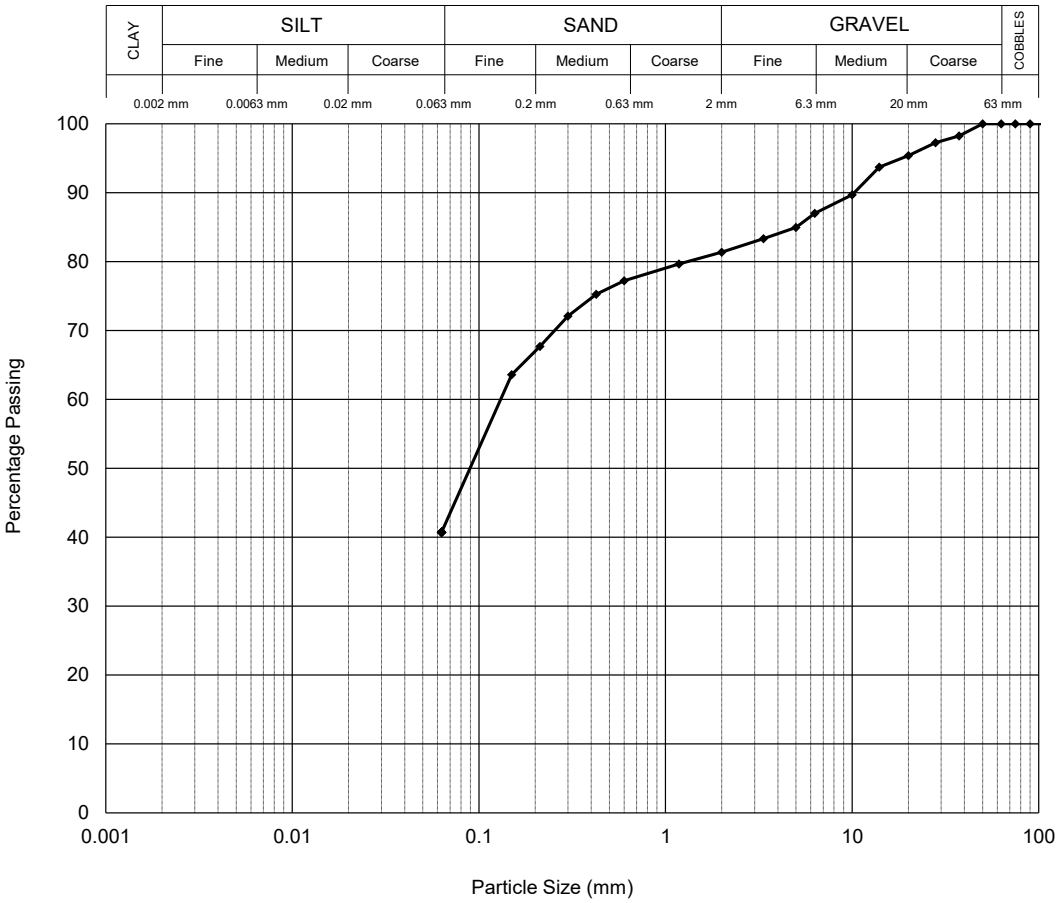
Location	HEAP 4
Sample Ref	B5
Sample Type	B

Description

Dark brown mottled orangish yellow gravelly sandy silty CLAY.

BS EN ISO 17892-4 : 2016 : Clause 5.2 - Wet Sieve

Sieve	
Size	% Pass
200.0 mm	100
125.0 mm	100
90.0 mm	100
75.0 mm	100
63.0 mm	100
50.0 mm	100
37.5 mm	98
28.0 mm	97
20.0 mm	95
14.0 mm	94
10.0 mm	90
6.30 mm	87
5.00 mm	85
3.35 mm	83
2.00 mm	81
1.18 mm	80
600 µm	77
425 µm	75
300 µm	72
212 µm	68
150 µm	64
63 µm	41



Particle Proportions	
Cobbles	0.0
Gravel	18.6
Sand	40.6
Silt & Clay	40.8

Tested by XW
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS

UKAS TESTING 1982

BS 1377-2 : 2022 Clause 11.4

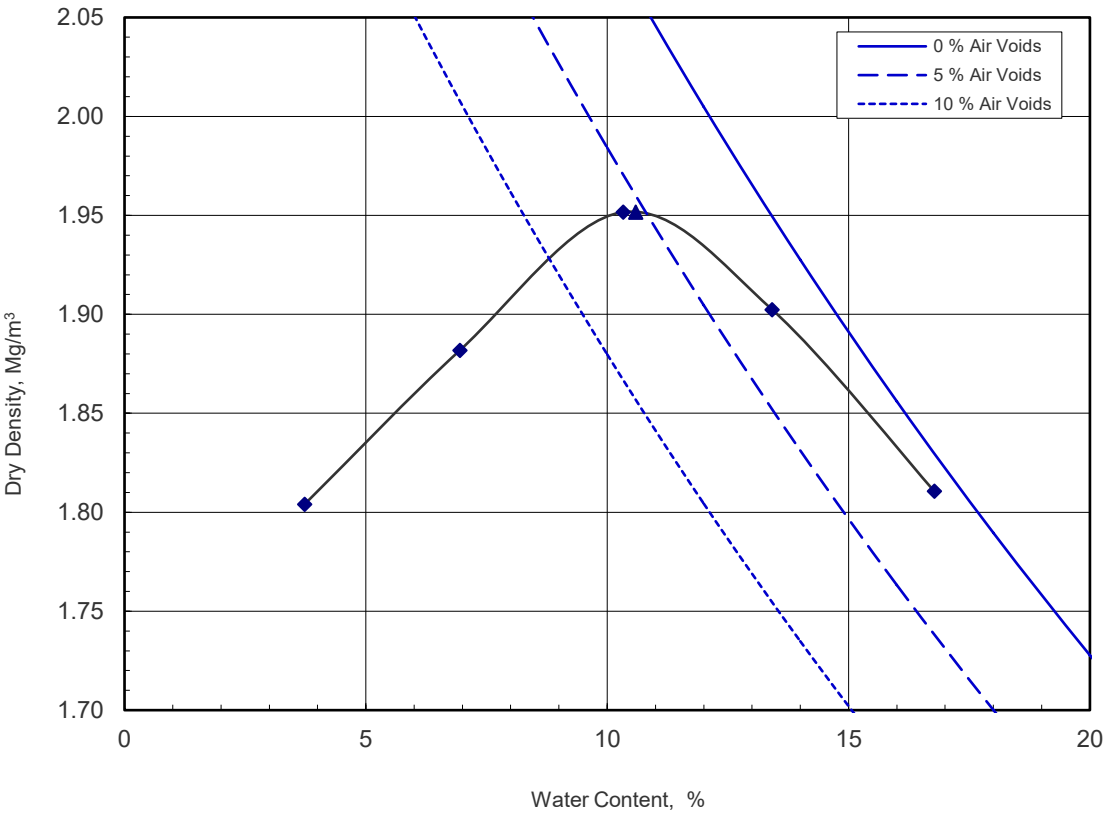
WATER CONTENT / DRY DENSITY RELATIONSHIP

Location	HEAP 4
Sample Ref	B1
Sample Type	B

Description:

Dark brown gravelly sandy silty CLAY with some cobbles.

Preparation		Oven dried
Test Method		2.5 kg Rammer CBR mould for soils with some coarse gravel-size particles
Samples Used		Single
Mass Retained on 37.5 mm Sieve	%	9
Mass Retained on 20.0 mm Sieve	%	11
Grading Zone		5
Particle Density - Measured	Mg/m³	2.64
Maximum Dry Density	Mg/m³	1.95
Optimum Water Content	%	10.6



Determination		1	2	3	4	5
Water Content	%	3.7	6.9	10.3	13.4	16.8
Dry Density	Mg/m³	1.80	1.88	1.95	1.90	1.81

Tested by VP
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE

41623

GEOLABS

UKAS TESTING 1982

Test Report By GEOLABS Limited Bucknalls Lane, Garston, Watford, Hertfordshire, WD25 9XX

Client : Eastwood and Partners (Consulting Engineers) Limited, Unit 3 Gander Down Barns, Rodfield Lane, Ovington, Alresford, SO24 0HS

(Ref 1757420661)

BS 1377-2 : 2022 Clause 11.4

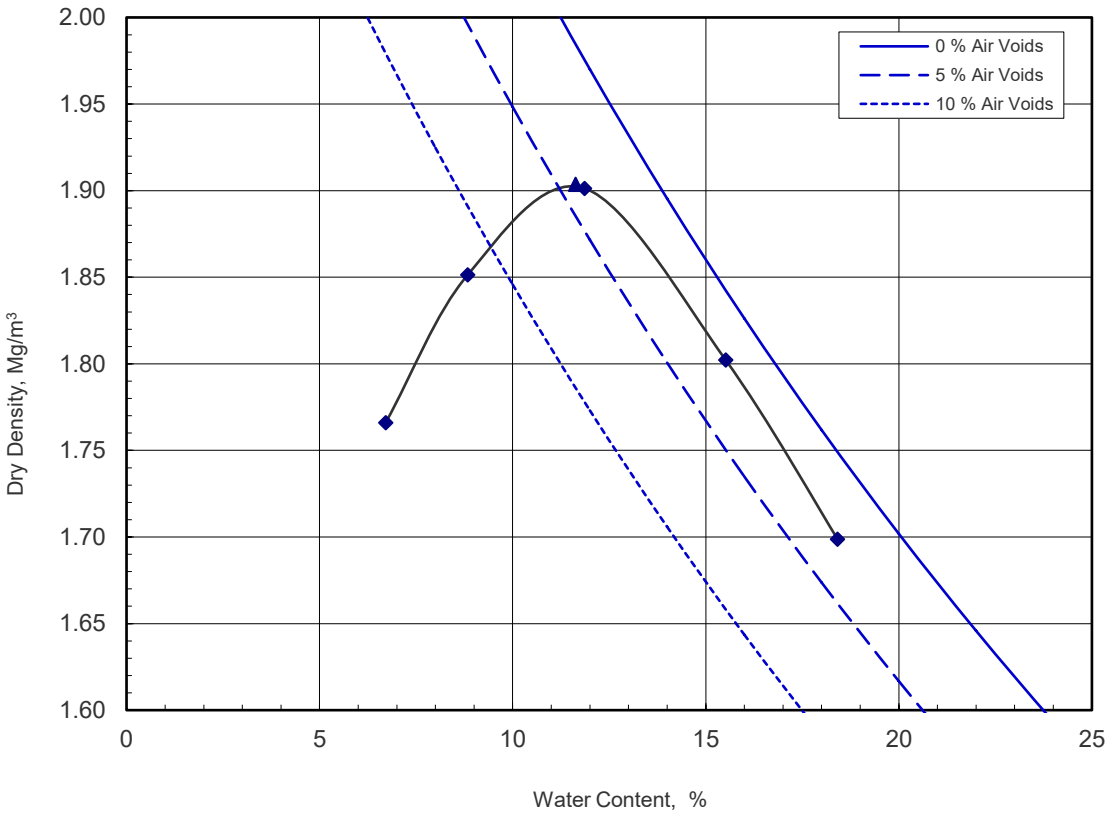
WATER CONTENT / DRY DENSITY RELATIONSHIP

Location	HEAP 4
Sample Ref	B2
Sample Type	B

Description:

Dark brown sandy gravelly silty CLAY.

Preparation		Oven dried
Test Method		2.5 kg Rammer CBR mould for soils with some coarse gravel-size particles
Samples Used		Single
Mass Retained on 37.5 mm Sieve	%	2
Mass Retained on 20.0 mm Sieve	%	8
Grading Zone		4
Particle Density - Measured	Mg/m³	2.58
Maximum Dry Density	Mg/m³	1.90
Optimum Water Content	%	11.6



Determination		1	2	3	4	5
Water Content	%	6.7	8.8	11.9	15.5	18.4
Dry Density	Mg/m³	1.77	1.85	1.90	1.80	1.70

Tested by AM
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE

41623

GEOLABS

UKAS TESTING 1982

BS 1377-2 : 2022 Clause 11.4

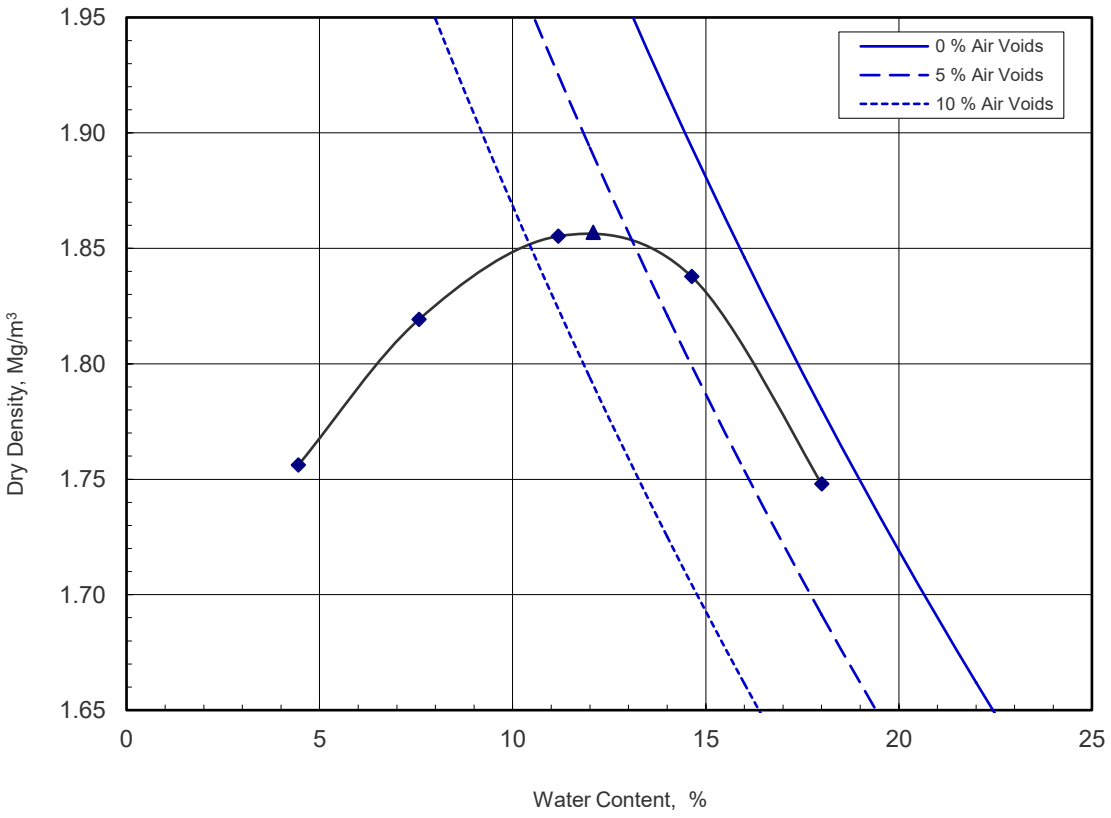
WATER CONTENT / DRY DENSITY RELATIONSHIP

Location	HEAP 4
Sample Ref	B3
Sample Type	B

Description:

Dark brown mottled orangish yellow gravelly sandy silty CLAY.

Preparation		Oven dried
Test Method		2.5 kg Rammer CBR mould for soils with some coarse gravel-size particles
Samples Used		Single
Mass Retained on 37.5 mm Sieve	%	2
Mass Retained on 20.0 mm Sieve	%	6
Grading Zone		4
Particle Density - Measured	Mg/m³	2.62
Maximum Dry Density	Mg/m³	1.86
Optimum Water Content	%	12.1



Determination		1	2	3	4	5
Water Content	%	4.5	7.6	11.2	14.6	18.0
Dry Density	Mg/m³	1.76	1.82	1.86	1.84	1.75

Tested by AM
Checked and Approved by
[redacted]
S Burke - Senior Technician
09/09/2025

Project Number:
GEO / 43098

Project Name:
HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS
UKAS TESTING 1982

BS 1377-2 : 2022 Clause 11.4

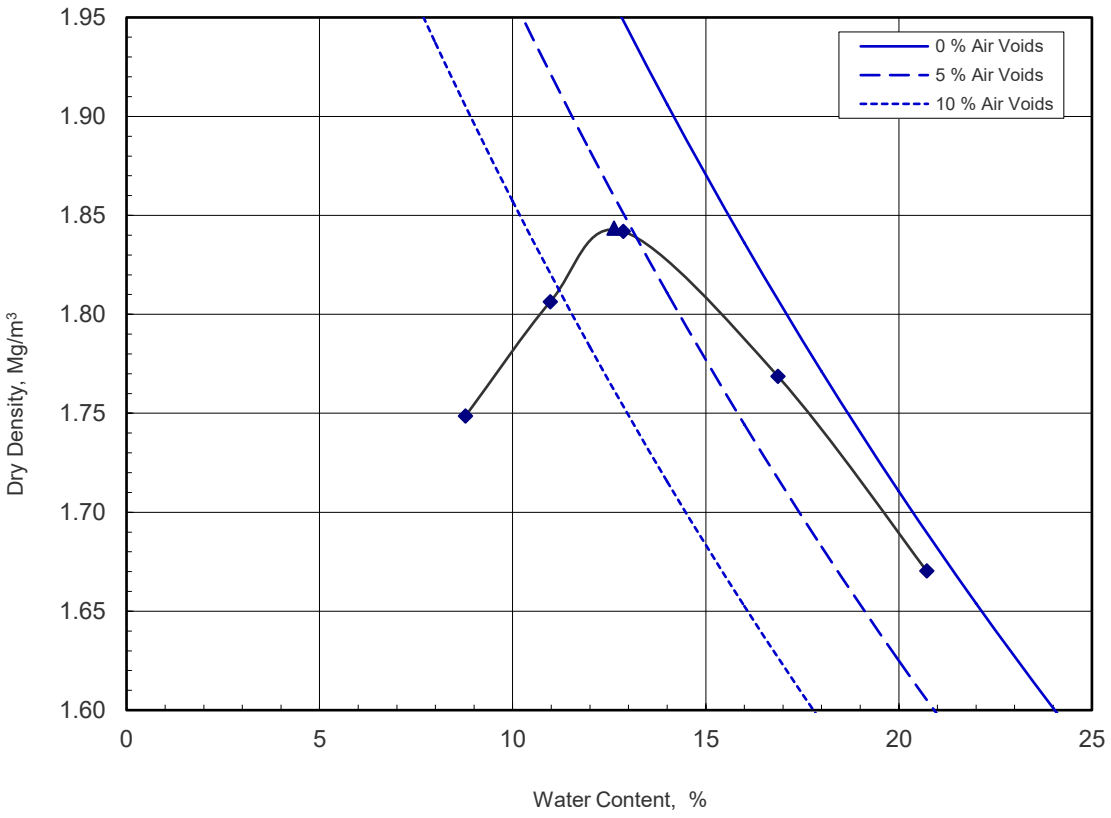
WATER CONTENT / DRY DENSITY RELATIONSHIP

Location	HEAP 4
Sample Ref	B4
Sample Type	B

Description:

Dark brown sandy gravelly silty CLAY.

Preparation		Oven dried
Test Method		2.5 kg Rammer CBR mould for soils with some coarse gravel-size particles
Samples Used		Single
Mass Retained on 37.5 mm Sieve	%	6
Mass Retained on 20.0 mm Sieve	%	4
Grading Zone		5
Particle Density - Measured	Mg/m³	2.60
Maximum Dry Density	Mg/m³	1.84
Optimum Water Content	%	12.6



Determination		1	2	3	4	5
Water Content	%	8.8	11.0	12.9	16.9	20.7
Dry Density	Mg/m³	1.75	1.81	1.84	1.77	1.67

Tested by AM
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE

41623

GEOLABS

UKAS TESTING 1982

BS 1377-2 : 2022 Clause 11.4

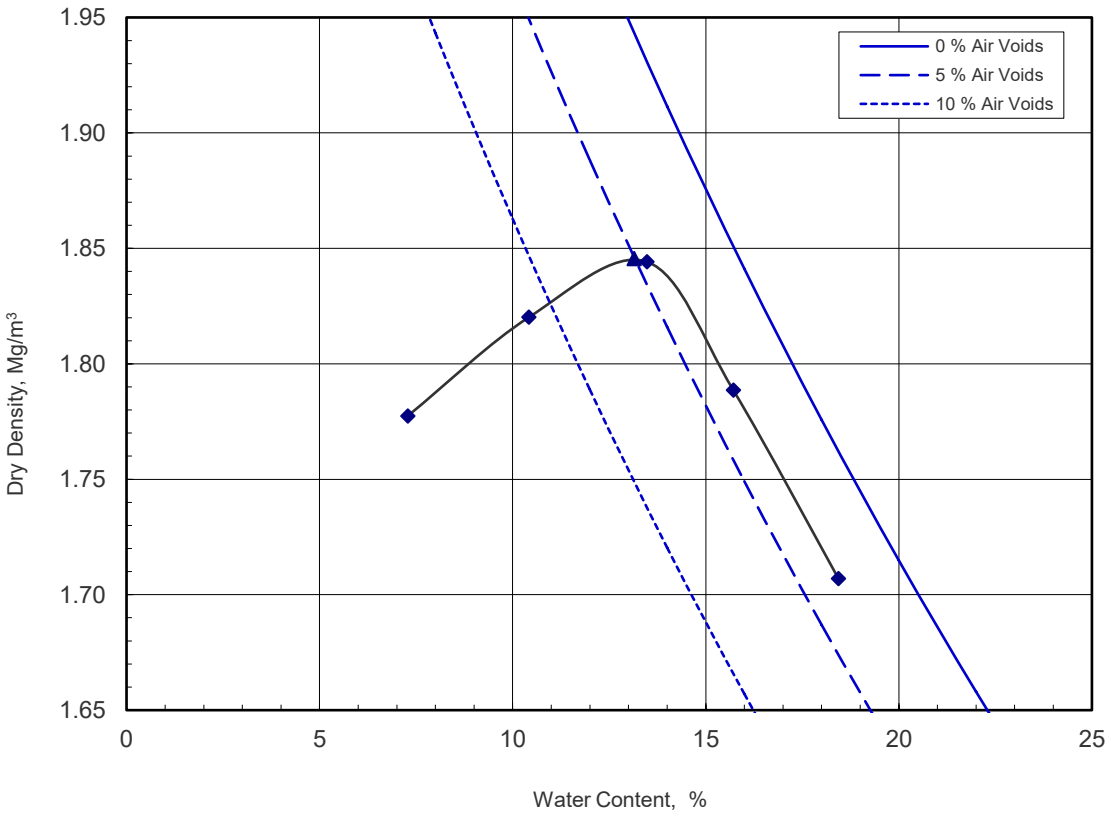
WATER CONTENT / DRY DENSITY RELATIONSHIP

Location	HEAP 4
Sample Ref	B5
Sample Type	B

Description:

Dark brown mottled orangish yellow gravelly sandy silty CLAY.

Preparation		Oven dried
Test Method		2.5 kg Rammer CBR mould for soils with some coarse gravel-size particles
Samples Used		Single
Mass Retained on 37.5 mm Sieve	%	2
Mass Retained on 20.0 mm Sieve	%	3
Grading Zone		4
Particle Density - Measured	Mg/m³	2.61
Maximum Dry Density	Mg/m³	1.85
Optimum Water Content	%	13.1



Determination		1	2	3	4	5
Water Content	%	7.3	10.4	13.5	15.7	18.4
Dry Density	Mg/m³	1.78	1.82	1.84	1.79	1.71

Tested by AM
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE

41623

GEOLABS
UKAS TESTING 1982

BS EN ISO 17892-8 : 2018

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

Location	BH1-NC
Sample Ref	No.1
Sample Depth	7.50 m
Sample Type	U

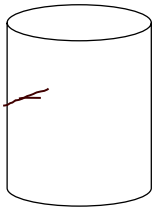
Description:

Very stiff fissured grey silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	200.3
Diameter	(mm)	101.6
Water content	(%)	20.2
Bulk density	(Mg/m³)	2.19
Dry density	(Mg/m³)	1.82
Test Details		
Latex membrane thickness	(mm)	0.3
Specimen height prior to shearing	(mm)	200.2
Membrane correction	(kPa)	0.5
Mean rate of shear	(%/min)	2.0
Cell pressure	(kPa)	150
Strain at failure	(%)	7.0
Maximum deviator stress	(kPa)	459
Shear Stress Cu	(kPa)	230

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	100

Tested by JJR
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS

UKAS TESTING 1982

BS EN ISO 17892-8 : 2018

UNCONSOLIDATED UNDRAINED TRIAXIAL COMPRESSION

Location	BH1-NC
Sample Ref	No.3
Sample Depth	14.00 m
Sample Type	U

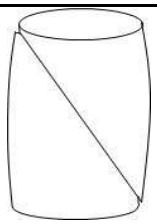
Description:

Very stiff fissured brownish grey silty CLAY.

Specimen Details

Specimen conditions		Undisturbed
Length	(mm)	201.1
Diameter	(mm)	101.9
Water content	(%)	22.0
Bulk density	(Mg/m³)	2.09
Dry density	(Mg/m³)	1.72
Test Details		
Latex membrane thickness	(mm)	0.3
Specimen height prior to shearing	(mm)	200.7
Membrane correction	(kPa)	0.9
Mean rate of shear	(%/min)	2.0
Cell pressure	(kPa)	280
Strain at failure	(%)	14.0
Maximum deviator stress	(kPa)	455
Shear Stress Cu	(kPa)	227

Mode of failure



Orientation of the sample	Vertical
Distance from top of tube mm	170

Tested by JJR
Checked and Approved by

[redacted]

S Burke - Senior Technician
09/09/2025

Project Number:

GEO / 43098

Project Name:

HOGWOOD FARM, FINCHAMPSTEAD - P3 NEIGHBOURHOOD CENTRE
41623

GEOLABS

UKAS TESTING 1982

Appendix 5

Groundwater Monitoring Report, reference 41623/007

Eastwood&Partners
CONSULTING ENGINEERS

Eastwood & Partners, St Andrews House, 23 Kingfield Road, Sheffield, S11 9AS
Tel: 0114 255 4554 mail@eastwoodandpartners.com www.eastwoodandpartners.com

Nick Jordan
Legal & General Homes Communities
One Coleman Street
London
EC2R 5AA

CAT/RAN/41623-007

21 August 2019

Dear Nick,

Hogwood Farm, Arborfield – Groundwater Monitoring Report

We are writing to report on the groundwater monitoring which was undertaken at this site between July 2018 and June 2019.

Monitoring visits

Monthly visits were undertaken by E&P during which, monitoring of the water depth in each of the twenty-two installed monitoring wells was undertaken. WS22, located in the SANG area in the southern part of the site could not be located and was not monitored during any of the visits. All remaining wells (WS1 to WS21 and WS23) were monitored on at least one occasion. The occasions during which monitoring could not be undertaken are listed in the table below, along with the corresponding reasons.

Monitoring well	Dates not monitored	Reason
WS2	June 2019	Well destroyed/buried by ongoing construction works in the vicinity
WS4	July to August 2018	Could not locate
WS11	December 2018 to June 2019	Well destroyed/buried during archaeological works in the vicinity
WS15	June 2019	Well monitored but found to be dry and silted up to 1.15 m
WS22	All	Could not locate well, suspect it was not installed
WS223	December 2018 to June 2019	Well destroyed/buried during archaeological works in the vicinity

In addition to the above, no monitoring was undertaken during November 2018.

Monitoring Results

The monitoring commenced in July 2018 where the water level was recorded to be between 1.2 m and 2.1 m below ground level (bgl) across the site. The water levels then dropped to

their deepest in September 2018 where they were found to be between 1.2 m and 2.7 m bgl. The levels then rose to a peak in March 2019 where the levels were found to be between 0.0 m and 0.96 m bgl. As expected, the levels then fell towards June 2019, although small rises were recorded in a few wells between May and June.

A copy of the spreadsheet outlining the monitoring results is attached along with a graph demonstrating the annual cyclical nature of the water levels.

Interpretation of Results

From the results recorded we have produced two plans showing the groundwater contours across the site;

- Drawing 41623/005 – Groundwater Monitoring Locations with Highest Water Depths; and
- Drawing 41623/006 – Groundwater Monitoring Locations with Lowest Water Depths

Copies of the plans are enclosed. These both show a similar trend with water levels being highest in the north west and north east, falling south east and south west respectively, towards the centre of the southern area of the site.

The enclosed Ordnance Survey (OS) plan shows a large number of surface watercourses and ponds both on the site and in the surrounding area. The OS extract which covers a wider area also shows a large number of surface water features, including the Blackwater River located around 550 m south of the site. A surface water drain/stream is indicated to run through the site, exiting at the centre of the southern boundary of the site. This then turns south west and flows directly to the Blackwater River. This is therefore consistent with the contours plotted from the water monitoring, which indicate the water levels to fall towards the drain/stream.

The elevation of the site is between around 52 m AOD in the south and east to around 60 m AOD in the north. The Blackwater River lies at an elevation of around 50 m AOD. It is therefore not unexpected that the groundwater is encountered at shallow depth below the site. The water depths recorded are therefore considered to represent the true groundwater level, and not a perched water table.

Conclusion

Water monitoring of twenty-two monitoring wells across the site over twelve months between July 2018 and June 2019 has demonstrated an annual cyclical pattern with water levels being

shallowest towards the end of the winter period/beginning of spring and deepest towards the end of the summer period/beginning of autumn. The water levels were observed to be relatively shallow, with water recorded at the surface on a few occasions in a small number of wells. Contour plans have been produced which indicate the groundwater is flowing towards a surface water drain/stream which exits the centre of the southern boundary of the site and flows towards the Blackwater River. The values recorded are considered to be representative of the true groundwater, and not a perched water table.

Yours sincerely

[redacted]

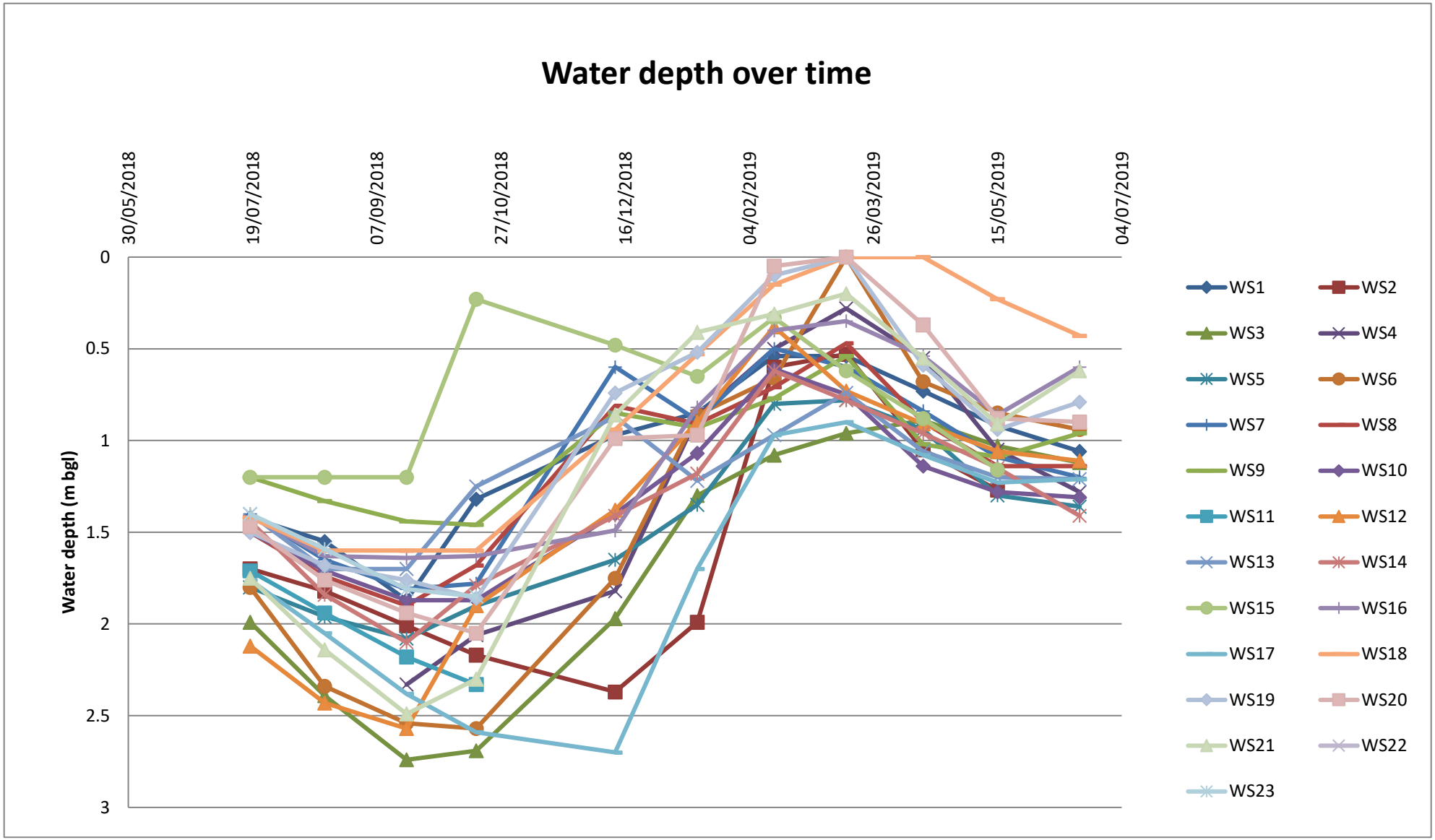
Catherine Topliss

Enc. Monitoring results spreadsheet
Graph of monitoring results
Drawings 41623/005 and 41623/006
Ordnance Survey Plan and Ordnance Survey Extract

Groundwater Monitoring Results Table

Monitoring well	Water level (mbgl)											Depth (m bgl)
	18/07/2018	17/08/2018	19/09/2018	17/10/2018	12/12/2018	14/01/2019	14/02/2019	15/03/2019	15/04/2019	15/05/2019	17/06/2019	
WS1	1.42	1.55	1.87	1.32	0.97	0.85	0.54	0.54	0.73	0.92	1.06	2.9
WS2	1.7	1.82	2.01	2.17	2.37	1.99	0.6	0.53	1.05	1.27		2.8
WS3	1.99	2.39	2.74	2.69	1.97	1.3	1.08	0.96	0.89	1.03	1.12	3
WS4			2.33	2.06	1.82	0.87	0.5	0.28	0.55	1.05	1.28	3.7
WS5	1.8	1.96	2.08	1.9	1.65	1.35	0.8	0.78	0.94	1.3	1.36	3.6
WS6	1.8	2.34	2.54	2.57	1.75	0.86	0.66	0	0.68	0.85	0.94	3.8
WS7	1.4	1.65	1.81	1.78	0.6	0.89	0.5	0.6	0.84	1.09	1.2	3.6
WS8	1.5	1.74	1.9	1.68	0.81	0.91	0.71	0.47	0.9	1.14	1.14	2.8
WS9	1.2	1.33	1.44	1.46	0.85	0.93	0.77	0.54	1.02	1.09	0.96	3.9
WS10	1.5	1.71	1.87	1.87	1.4	1.07	0.61	0.75	1.14	1.28	1.31	2.8
WS11	1.71	1.94	2.18	2.33								2.5
WS12	2.12	2.43	2.57	1.9	1.38	0.9	0.38	0.73	0.91	1.06	1.11	2.9
WS13	1.4	1.7	1.7	1.25	0.87	1.22	0.97	0.74	1.06	1.2	1.21	1.8
WS14	1.44	1.84	2.1	1.79	1.41	1.18	0.62	0.78	0.96	1.15	1.41	2.9
WS15	1.2	1.2	1.2	0.23	0.48	0.65	0.33	0.62	0.88	1.16		1.3
WS16	1.41	1.63	1.64	1.63	1.49	0.82	0.4	0.35	0.54	0.86	0.6	1.6
WS17	1.76	2.05	2.38	2.59	2.7	1.7	0.97	0.9	1.08	1.23	1.21	2.7
WS18	1.42	1.6	1.6	1.6	0.94	0.53	0.15	0	0	0.23	0.43	2.7
WS19	1.5	1.68	1.76	1.86	0.74	0.52	0.1	0	0.59	0.94	0.79	3.5
WS20	1.47	1.76	1.94	2.05	0.99	0.97	0.05	0	0.37	0.88	0.9	2.9
WS21	1.75	2.14	2.49	2.3	0.86	0.41	0.31	0.2	0.55	0.91	0.62	3.3
WS22												3.6
WS23	1.4	1.59	1.81	1.85								2.9

17/06/2019
WS2 - Destroyed/buried
WS15 - Dry (silted up to 1.15 m)


Water depth over time
30/05/2018
19/07/2018
07/09/2018
27/10/2018
16/12/2018
04/02/2019
26/03/2019
15/05/2019
04/07/2019
Water depth (m bgl)
0
0.5
1
1.5
2
2.5
3
WS1
WS2
WS3
WS4
WS5
WS6
WS7
WS8
WS9
WS10
WS11
WS12
WS13
WS14
WS15
WS16
WS17
WS18
WS19
WS20
WS21
WS22
WS23

INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE. ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

1.5	Highest water depth recorded throughout the monitoring period in metres below ground level.
50.50	Highest water depth recorded throughout the monitoring period in metres above Ordnance Datum.
●	GWM Standpipe location
———	Groundwater level contour line
— — —	Groundwater level contour line - extrapolated

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

LEGAL AND GENERAL HOMES

HOGWOOD FARM, ARBORFIELD

GROUND WATER MONITORING LOCATIONS WITH HIGHEST WATER DEPTHS

Eastwood & Partners CONSULTING ENGINEERS

St. Andrew's House
23 Kingfield Road
Sheffield
S11 9AS

Tel 0114 255 4554
Fax 0114 255 4330

mail@eastwoodandpartners.com
www.eastwoodandpartners.com

SCALE WHEN PLOTTED AT A3	DRAWING STATUS
1:5000	INFORMATION

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
TC	RAN	24.07.19	41623/005	A

INFORMATION WITHIN THIS DRAWING IS NOT NECESSARILY PRODUCED TO SCALE.
ALWAYS USE FIGURED DIMENSIONS AND CO-ORDINATES - IF IN DOUBT, ASK.

0.5	Lowest water depth recorded throughout the monitoring period in metres below ground level.
55.50	Lowest water depth recorded throughout the monitoring period in metres above Ordnance Datum.
●	GWM Standpipe location
———	Groundwater level contour line
— — —	Groundwater level contour line - extrapolated

REV	DESCRIPTION	SIG	CHK	DATE
A	First Issue.			

LEGAL AND GENERAL HOMES

HOGWOOD FARM, ARBORFIELD

GROUND WATER MONITORING LOCATIONS WITH LOWEST WATER DEPTHS

Eastwood & Partners CONSULTING ENGINEERS
EP
St. Andrew's House
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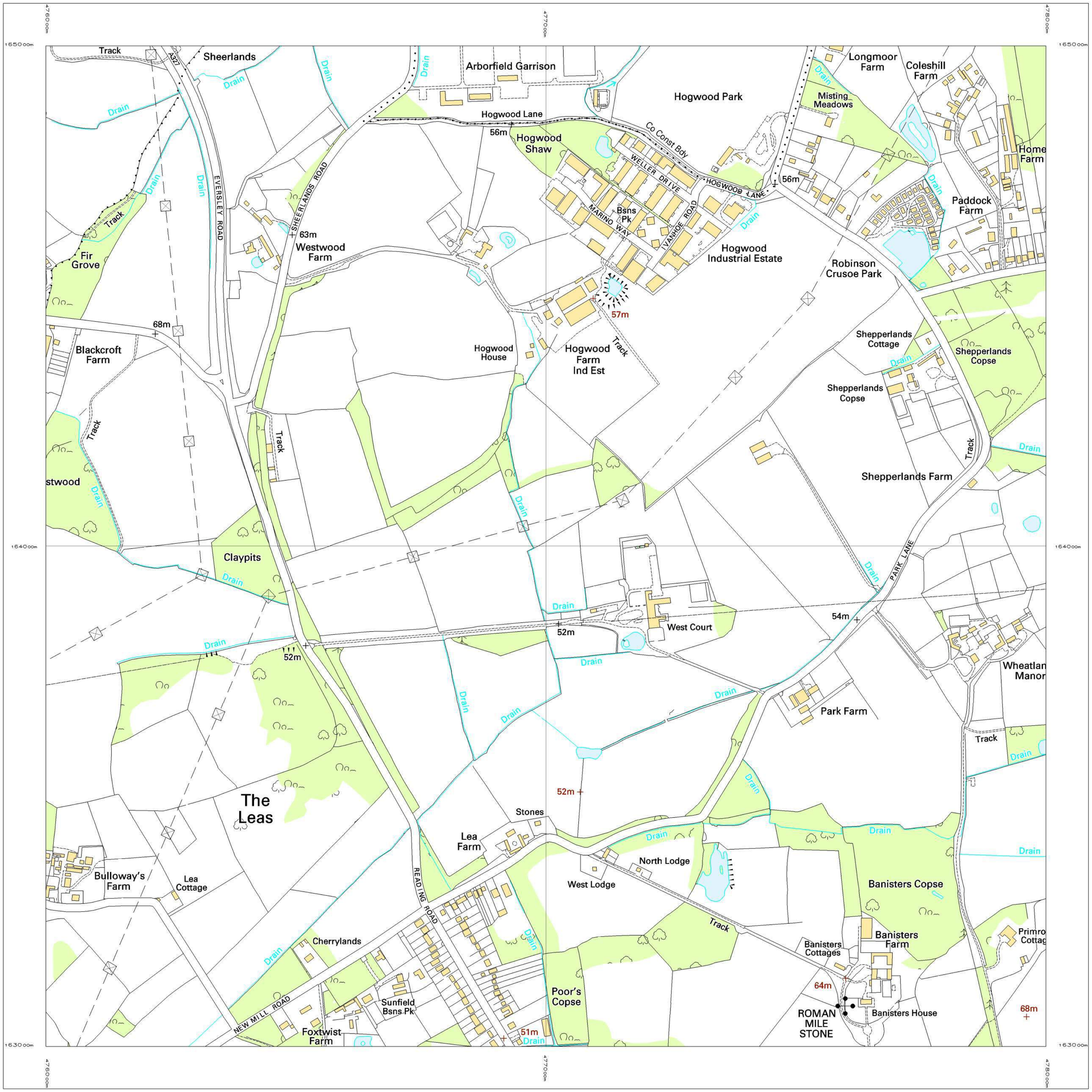
SCALE WHEN PLOTTED AT A3	DRAWING STATUS
1:5000	INFORMATION

DRAWN	CHECKED	DATE	DRAWING NUMBER	REV
TC	RAN	24.07.19	41623/006	A

Ordnance Survey®

OS Landplan®



Plotted 06 Nov 2009 from Ordnance Survey digitally derived data.

Produced using significant survey information from Ordnance Survey large scales digital data, and incorporated into OS Landplan Nov 2008.

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Administrative boundaries revised to Oct 2008.

Additional boundaries information:

N

100 50 0 100 200 300 400 500

Metres

Scale 1:5000

This OS Landplan plot is enlarged from derived mapping produced at 1:10000 scale

Heights are given in metres above Newlyn Datum. The representation of a road, track or path is no evidence of a right of way.

The alignment of tunnels is approximate.

An OS Landplan symbols leaflet is available on request from Ordnance Survey Mapping and Data Centres.

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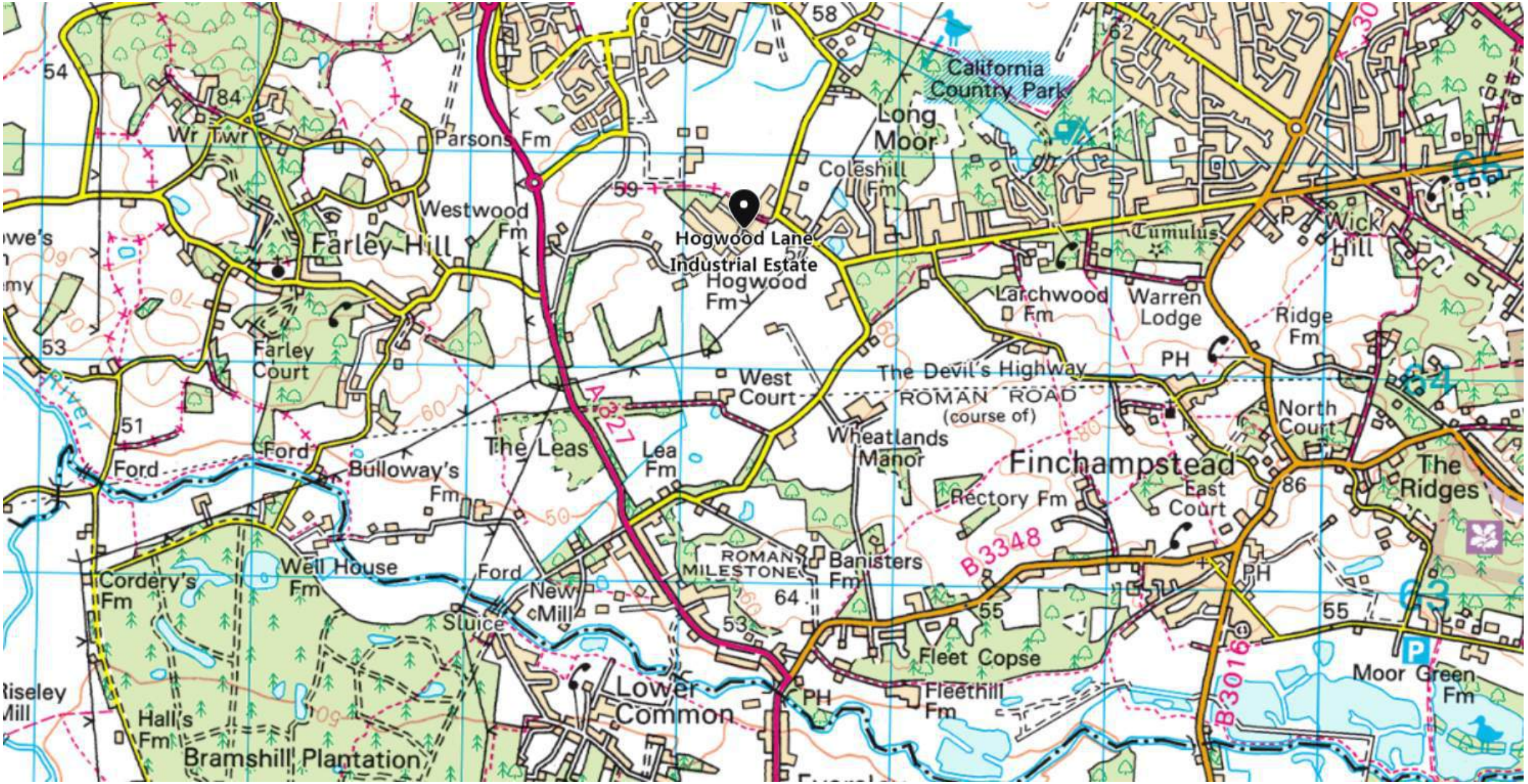
Plot centre coordinates: 477000 164000

Supplied by: Thames Print Room

Plot serial number: 00145800


Hogwood Lane
Industrial Estate
California
Country Park
Long
Moor
Coleshill
Fm
Parsons Fm
Westwood
Fm
Farley Hill
Hogwood
Fm
Cumulus
Wick
Hill
Larchwood
Fm
Warren
Lodge
Ridge
Fm
PH
Farley
Court
West
Court
The Devil's Highway
ROMAN ROAD
(course of)
North
Court
Wheatlands
Manor
Finchampstead
The
Ridges
Rectory Fm
East
Court
The Leas
Lea
Fm
Bulloway's
Fm
Ford
River
A327
B3348
B3016
ROMAN
MILESTONE
Banisters
Fm
Well House
Fm
Cordery's
Fm
New
Mill
Sluice
Lower
Common
Fleet Copse
Fleethill
Fm
Moor Green
Fm
Riseley
Mill
Hall's
Fm
Bramshill Plantation
54
84
Wr Twr
58
59
57
62
53
51
64
55
86
63
64

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