

ONYXGEO
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Phase II Site Investigation Report

at

Lower Perryland Farm, Basing Hill, Dial Post, West Sussex

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Please see Appendix A for limitations to the current investigation and report.

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1 INTRODUCTION & BACKGROUND

1.1 INSTRUCTION & APPOINTMENT

Onyx Geo Consulting Ltd (referred to as Onyx Geo) was commissioned by Lower Perrylands Limited to carry out a Phase II Site Investigation for the site at Lower Perryland Farm, Basing Hill, Dial Post, West Sussex.

The appointment was confirmed on the 18th of April 2025 via email signed by Mike Jones of Lower Perrylands Limited (the client).

The work was carried out based on Onyx Geo's fee proposal letter dated 17th April 2025, quote ref: ON251030, including the outlined terms and conditions. An additional investigation was requested by the local authority's environmental health officer in XXX 2025. A scope was agreed and implemented based on fee proposal ON251073 dated 9th December 2025. The quotations serve as the formal agreements between Onyx Geo and the client.

1.2 SITE LOCATION & DESCRIPTION

The site comprises an irregularly shaped 0.65 ha plot of land situated to the southwest of the village of Dial Post and to the west of the A24 centred on grid reference 514471, 118810. A site location plan is included as Figure 1 within Appendix B. The current layout is shown in Figure 2.

A site walkover was undertaken in May 2025. The site was accessed via a track/driveway from the A24, which extends along the site's northern boundary into a farmyard. The farmyard was surfaced with poorly maintained concrete hardstanding it was reported that the farm was used to house livestock.

In the centre of the site there were five barns in varying states of disrepair. The western barn was of steel frame construction with an asbestos cement roof. Fragments of suspected asbestos cement were noted on the ground surface adjacent to this barn. A caravan/mobile home, and a boat were stored in this barn. There were two other barns attached to this building with block brick sides and corrugated steel roofs and two steel roofed barns in the east of the site.

A concrete track was present along the northern side of the barns with two smaller barns to the north of the track. These both had asbestos cement roofs and were in a poor state of repair. There was a grain silo located in the centre of the site.

Within the barns a concrete track was present in the centre and soft ground on either side where the cattle stalls would have been located.

There was a further barn on the eastern side of the site, of brick construction with an asbestos roof and a larger barn along the northern boundary also with an asbestos roof.

A large oak tree was located in the centre of the northern site boundary. There were smaller immature trees and shrubs growing close to the barns within the hardstanding. The site was bound to the east by a hedgerow with a residential property and gardens beyond. There was a greenhouse in the southeast of the site which was overgrown, and it was not possible to fully inspect.

A stream (Lancing Brook) was present, aligned east to west through the northern part of the site, culverted under the hardstanding access road and along the eastern side of the site. The stream was observed approximately 1- 1.5m below current ground level and the banks were overgrown with vegetation.

There were several spoil heaps of waste dotted around the site with concrete and breeze blocks identified within the vegetation. There were also tyres stockpiled in front of the central barn building and a stack of suspect asbestos cement sheets within the middle barn.

1.3 Proposed Development

It is proposed to redevelop the site by demolishing the most western barn and converting the remaining barns to form five residential properties, including private gardens and associated areas of car parking. The proposed development layout is presented in Figure 3.

To establish the minimum requirements for the scope and content of geotechnical investigations, BS EN 1997-1:2004+A1:2013 (Eurocode 7) requires the complexity of each geotechnical design, along with the associated risks, to be identified. The geotechnical design categories range between 1 to 3 with increasing complexity.

Given that the proposal consists of only minor extensions to the existing buildings, the development would be considered to comprise of Category 1 structures.

1.4 Aims & Objectives

The purpose of this investigation is to identify, and where possible quantify risks associated with the ground on site, which may impact the proposed development. The specific objectives are:

- Conduct an intrusive investigation of the underlying ground and groundwater conditions including field and laboratory testing to quantify the risks highlighted within the preliminary conceptual model reported in the phase 1 desk study (see section 1.6.1).
- Refine the conceptual model based on the ground investigation and analysis undertaken.
- Provide guidance on the potential geotechnical and contaminative risks present on site to aid the design process.
- Address the requirements for Horsham District Council planning condition 1(b) for application reference DC/24/1087, which states that:

An intrusive site investigation scheme, based on (a) (the Desk Study) *to provide information for a detailed risk assessment to the degree and nature of the risk posed by any contamination to all receptors that may be affected, including those off site.*

Planning condition 1 also refers to the preparation of a remediation strategy (1c) and a verification plan (1d) subject to the findings of the site investigation.

1.5 Regulatory Framework, Guidance and Best Practice

The investigation of the site has been undertaken line following guidance and British Standards:

- BS 5930:2015+A1:2020 Code of Practice for Ground Investigations.
- BS10175:2011+A2:2017 Investigation of potentially contaminated sites. Code of practice.

- BS EN ISO 14688 (2018) Geotechnical investigation and testing - Identification and classification of soil. Parts 1-2.
- BS 8004:2015+A1:2020 Code of Practice for foundations.

The guidance outlines a systematic approach whereby the need to evaluate risks from site is understood, any potential contaminant linkages between sources of contamination, pathways, and receptors are first identified and then quantified, followed by an assessment on whether any risks are unacceptable.

A tiered approach is applied, utilising a structured process to thoroughly evaluate the risks, namely:

- Preliminary risk assessment (PRA).
- Generic quantitative risk assessment (GQRA).
- Detailed quantitative risk assessment (DQRA) if required.

1.5.1 Preliminary Risk Assessment

The PRA is reported separately in the report ref. ON251025-ON-PD-XX-RP-G-701-C02 dated 07/11/25 and the findings are summarised in section 1.7.

1.5.2 Intrusive Investigation

This part of the works has been undertaken in general accordance with BS EN 1997-2:2007, BS 5930 Code of Practice for Ground Investigations and BS10175 Investigation of potentially contaminated sites. Whilst this report would comply with the requirements of a ground investigation report it does not comply with the requirements of a geotechnical design report as set out within BS EN 1997 Eurocode 7. The recommendations are provided to aid preliminary geotechnical design, detailed design must consider both ultimate and serviceability limit state scenarios.

To achieve the aims outlined in section 1.4 above, the proposed intrusive site works comprised the following activities:

- GPR service clearance and GPS positioning of each trial hole location.
- Machine dug trial pitting extending to approximately 3.0 m below ground level (bgl).
- Laboratory geotechnical classification testing to aid shallow foundation design including Atterberg limits, moisture content, and BRE SD1 suite tests.
- Laboratory chemical tests for potential contaminants of concern, including metals, polycyclic aromatic hydrocarbons (PAH), pesticides and asbestos screening.

Following submission of the site investigation report, the environmental health officer at Horsham District Council requested further investigation and additional laboratory analysis. The additional investigation comprised:

- Trial pitting through made ground into the underlying natural clay at 16 locations.
- Laboratory analysis of two samples per trial pit for potential contaminants of concern tested previously.
- Revision of this investigation report to account for the additional investigation.

1.6 Previous Studies

The site has been the subject of one previous report by Onyx Geo, namely:

- Desk study report by Onyx Geo dated 07/11/25 (report ref: ON251025-ON-PD-XX-RP-G-701-C02).

A short summary is provided below.

1.6.1 Desk Study Report

The desk study and walkover survey were completed by Onyx Geo in April 2025. The report noted that the site was occupied by several barns, which were reportedly used to house cattle although a caravan and boat were also being stored in one. Aerial imagery indicated that the site had at times been occupied by several cars / vans which had subsequently been removed. A stream crossed the northern area of the site aligned from east to west. Historical mapping indicated that a farm building was present to the west of the current structures which was demolished sometime between 1993 and 2003.

A preliminary conceptual site model (pCSM) was prepared for the site and the proposed development. From a contaminated land perspective, the key drivers for the intrusive investigation were the potential contaminant linkages associated with the following sources: asbestos in the barns themselves and the shallow soils surrounding them; the potential for metal, PAH and asbestos contamination within made ground in the farmyard; and pesticides potentially associated with historical farming activities.

Contaminant linkages with respect to ground gas and groundwater were not identified.

Geotechnical hazards identified included the potential need for: deepening of foundations associated with the volume change potential of the Weald Clay Formation; the potential for elevated sulphate and sulphide concentrations within the Weald Clay which may impact concrete design; the potential for perched water within the made ground (if present), and the potential for frost susceptibility of the Weald Clay was also highlighted.

The report recommended that a site investigation be undertaken to enable sampling for chemical and geotechnical laboratory testing.

1.6.2 Other Information

Documents noted on the planning portal report the presence of a diesel store and cesspit / septic tank on site. However, these were not observed as part of the desk study walkover or during either phase of intrusive site investigation.

2 INTRUSIVE INVESTIGATION

2.1 BASIS OF INTRUSIVE INVESTIGATION

The aims of the intrusive investigation are set out in Section 1.4.

2.2 HEALTH & SAFETY

The site works were undertaken in line with a site-specific risk assessment and method statement (RAMS) prepared for the site. The RAMS was sent to the client and subcontractors prior to site attendance. A site induction and relevant toolbox talks were given to site attendees who were also signed in to site and onto the RAMS.

2.3 WORKS UNDERTAKEN

The first phase of works were carried out on the 6th May 2025 during a dry and sunny period. The additional investigation was undertaken on the 17th of December 2025 the weather was clear and cold.

The Met Office weather and climate summaries[1] have been reviewed for information pertaining to the three months prior to each period of site works. The summaries indicate that the three months preceding the original site work were all drier than average. The Met Office indicate that England experienced 79% and 25% of average monthly rainfall in February and March 2025 respectively. The south of England experienced 47% of average precipitation in April 2025. The summaries for the second phase of site works indicate that September and November 2025 were significantly wetter than average with both months experiencing 149% of average monthly rainfall. Conversely October 2025 was drier than average experiencing 90% of average monthly rainfall.

Both phases of investigation comprised trial pitting with a backhoe excavator and soil sampling for laboratory testing.

A summary of the works and depths achieved together with any variation from the proposed scope is presented in Table 1 below. Further details on the investigation methodologies can be found in Appendix D. Details on the individual exploratory holes are provided on the hole logs given in Appendix E.

Table 1: Summary of the intrusive investigation

Method and Number	Depths achieved (m)	Date	Notes
GPR clearance & GPS positioning	n/a	06/05/25	The proposed trial pit locations and the surrounding area were scanned and cleared of underground services using GPR and positioned using GPS.

[1] https://www.metoffice.gov.uk/research/climate/maps-and-data/summaries/index accessed May 2025

Method and Number	Depths achieved (m)	Date	Notes
Machine excavated trial pits TP01 – TP08	2.7 – 3.0	06/05/25	Provide general site coverage to provide information on the ground conditions and enable sampling for geotechnical and chemical laboratory testing. TP08: was situated in the location of the former farm building demolished post 1993.
Machine excavated trial pits HP1 – HP16	0.6 –1.0	17/12/25	Provide greater coverage of the site to enable chemical laboratory analysis of the near surface soils.
Surface sampling	0.0	06/05/25	Surface sample 1: collect fragment of suspected ACM cement for confirmatory testing. Surface sample 2: To collect a shallow soil sample from within the footprint of the existing barn.

Since Onyx Geo's previous investigation, the planning submission has been updated with a revised redline boundary, as such two of the previous trial pits (TP07 and TP08) are situated slightly beyond the site's current redline boundary to the west. However, for completeness the trial hole logs and laboratory results are included hereafter as an indicator of the offsite ground conditions and contaminants concentrations.

2.4 Exploratory Hole Distribution

The trial hole locations of the original investigation were determined based the proposed scope, available space, access and the presence of below ground services. The additional locations were agreed with the Horsham District Council's environmental health officer in advance of the investigation to target areas of soft landscaping within the proposed development. The trial hole locations are shown in Figure 4, Appendix B. The investigation spacing is consistent with the recommended density 10- 25m for a main investigation after BS 10175 Section 7.7.

It was not possible to undertake machine excavated trial pits within the footprint of the existing structures. However, a single sample of the made ground present at surface within one of the barns (as shown on Figure 4) was collected and analysed.

2.5 Logging, Sampling and In situ Testing

2.5.1 Soil Logging and Sampling

Soil samples were recovered from the trial holes and inspected for detailed logging and sampling. Soils were logged in general accordance with BS 5930 and ISO 14688.

2.6 Soil Laboratory Analysis

2.6.1 Chemical Analysis

Soil samples were subjected to chemical laboratory testing, as per BS 10175:2011+A2:2017. Samples were selected for testing based on the findings of the conceptual site model in the preliminary contamination risk assessment and from visual and olfactory evidence noted during the intrusive investigation stage.

The laboratory testing was carried out by Normec i2 Analytical and Normec DETS. Details of the UKAS and MCERTS accreditation for the individual laboratory test results are shown on the result certificates, which are included in Appendix G.

A summary of the analytical chemical testing undertaken is presented in Table 2.

Table 2: Summary of chemical laboratory testing

Contaminant or contaminant suite	Number of samples per soil type			
	Topsoil / Subsoil	Made Ground	Natural Clay	Suspected ACM Fragment
Onyx standard soil suite (As, Cd, Cr, CrVI, Cu, Pb, Hg, Ni, Se, Zn, USEPA 16 PAHs, pH, TOC and asbestos screening)	20	11	9	-
Organochlorine and organophosphorus pesticide suites	2	-	-	-
Asbestos identification	-	-	-	2

2.6.2 Geotechnical Laboratory Testing

To provide information to aid the geotechnical assessment the following laboratory testing has been carried out by Geolabs Ltd. Where possible the following guidance has been followed BS 1377 Methods of test for soils for civil engineering purposes, BS EN ISO 17892 Parts 1-12 Geotechnical Investigation and Testing. Laboratory testing of soil and BS EN ISO 22475 Parts 1-3 Geotechnical Investigation and Testing.

The following laboratory tests have been undertaken and the full results presented in Appendix F:

Table 3: Summary of geotechnical laboratory testing

Laboratory Test	Samples per soil type tested	
	Superficial Clay	Weald Clay
Moisture Content	1	4
Atterberg Limit Test	1	4

Laboratory Test	Samples per soil type tested	
	Superficial Clay	Weald Clay
BRE SD1 Suite (B)	-	3

2.7 Ground Conditions

The ground conditions encountered within the trial holes are presented in Table 4 below. The borehole logs are included in Appendix E.

Table 4: Summary of ground conditions

Soil Type	Depth encountered m	Depth to base m	Typical Description	Interpreted Stata
TOPSOIL	0.00	0.20 / 0.25	Light brown to grey brown slightly sandy clayey silty TOPSOIL with rootlets. Rare flint gravel noted in TP03 and TP06 with rare chalk gravel also present in TP03. (Present in TP03, TP04, TP05, TP06, HP02-08 and HP10-11)	Topsoil
SUBSOIL	0.10 / 0.25	0.20 / 0.60	Yellowish to orangish brown slightly sandy silty clayey SUBSOIL. (Present in TP03, TP04, TP05, TP06, HP01-08, HP10-11 and HP14)	Subsoil
MADE GROUND	0.0 / 0.10	0.20 / 0.60	MADE GROUND comprising grey sandy gravel. Gravel is predominantly concrete, flint, brick, tile and whole bricks. Asphalt gravel was noted in TP02. Chalk Gravel was noted in HP13 (Present in TP01, TP02, TP07 & TP08 only)	Made Ground
CLAY	0.20 / 0.45	0.90 / 1.40	Stiff brown to orange brown mottled grey, occasionally iron stained black slightly sandy silty CLAY with rare to occasional fine to coarse subangular flint gravel. (Present in TP01, TP02, TP06, TP08, HP01-HP16)	Head / Reworked Weald Clay
SAND	0.90 / 1.40	2.0	Brown to dark red brown slightly clayey to clayey gravelly SAND. Sand is fine to medium. Gravel is medium to coarse subangular flint. (Present in TP06 only)	Head
CLAY	0.40 / 1.40	2.20 / 2.90	Stiff mottled orange brown occasionally red brown and grey slightly silty to silty CLAY with occasionally fine mudstone gravel increasing with depth.	Weald Clay Formation
MUDSTONE	2.20 / 2.70	2.7 / 3.0	Extremely weak to very weak brown to red brown and blue grey laminated silty MUDSTONE. (Absent in TP08)	Weald Clay Formation

*Full depth of investigation

2.7.1 Trends and Observations

The ground conditions on site comprised either topsoil and subsoil or made ground over natural clay deposits. In two locations (TP02 and HP13) the made ground was overlain by a layer of concrete hardstanding between 0.1-0.2 m thick. Made ground was encountered in the north and western areas of the site and was generally around 0.3 m in depth, although it extended to 0.60 m bgl in TP07 in the southwest of the site and to 0.60 m in HP13 located in the north of the site. Suspected asbestos cement fragments were observed made ground at HP01.

Although not mapped on site slightly sandy clays with rare flint gravels, which were interpreted to represent either Head Deposits or reworked Weald Clay were encountered. These were generally situated in the north of the site, adjacent to the stream and extended to a maximum depth of 1.4 m bgl. TP06 encountered a 0.6 m thick layer of clayey gravelly sand potentially associated with a former route of the stream, no other granular deposits were encountered within any of the other trial holes. The superficial deposits were underlain by stiff silty clays of the Weald Clay Formation which transitioned to mudstone with depth.

2.7.2 Groundwater

Groundwater was encountered in the following exploratory holes at the time of the intrusive works. Groundwater strikes are recorded in Table 5, below.

Table 5: Summary of groundwater strikes and levels

Exploratory Hole	Depth to Groundwater strike bgl (mAOD)	Comments
TP03	2.3	Arisings recovered damp.
TP05	2.8	Slight groundwater seepage.

A slight groundwater seepage was recorded at 2.8 m bgl in TP05 while the arisings were noted to be damp below 2.3 m in TP03. In both cases these levels broadly correspond to the boundary between the stiff clay and the underlying mudstone.

3 GEOTECHNICAL CHARACTERISTICS

3.1 MADE GROUND

The area of the site surrounding the existing buildings is underlain by made ground, which extends to depths of between 0.2 and 0.6 m bgl. The made ground comprises sandy gravel with the gravel component consisting of flints, concrete, tile and brick.

Made ground is present due to the placement of various materials overtime for reasons such as to levelling a site, infilling of a depression or to provide hardcore on which to construct something. Therefore, made ground is generally variable and due to this it is subject to differential settlements when loads are applied. As such made ground is generally unsuitable as a load bearing stratum.

3.2 SUPERFICIAL DEPOSITS

The topsoil/subsoil and made ground is underlain by superficial deposits in some areas of the site comprising slightly sandy silty clay with occasionally flint gravel to between 0.9 m and 1.4 m bgl. A 0.6 m thick layer of clayey gravelly sand was encountered between 1.4 m and 2.0 m bgl in TP06.

Table 6: Geotechnical laboratory test results for the cohesive superficial deposits

Test Type	Unit	Test Results Range
Moisture Content	(%)	27.4
Liquid Limit	(%)	52
Plastic Limit	(%)	24
Plasticity Index	(%)	28

A single Atterberg limit test undertaken on the superficial cohesive deposits in TP08 and indicate they comprise high plasticity clays. An A line plot is presented in Figure 5.

3.3 WEALD CLAY FORMATION

The subsoil, made ground, and where present, superficial deposits were underlain by stiff silty clay of the Weald Clay Formation which transitioned to mudstone with depth.

3.3.1 Clay

The results of the geotechnical laboratory testing completed on the cohesive strata are summarised in Table 7 below.

Table 7: Geotechnical laboratory test results for the Weald Clay Formation

Test Type	Unit	Test Results Range
Moisture Content	(%)	21 – 25.9
Liquid Limit	(%)	47 - 63
Plastic Limit	(%)	22 - 27
Plasticity Index	(%)	25 - 36
Water Soluble Sulphate Content	mg/l	34 - 2600
Acid Soluble Sulphate	%	0.077 – 8.0
Total Sulphur	%	0.025 – 2.2
pH	-	5.8 – 7.7

The results of Atterberg limit testing of the Weald Clay deposits indicate that they comprise intermediate to high plasticity clay. An A line plot presenting the results of all Atterberg limit tests undertaken is presented in Figure 5.

Sulphate and sulphur testing returned highly variable results with significantly higher concentrations recorded within one sample taken from TP01. It is noted that this sample contained significant amounts of selenite and therefore the elevated sulphate concentrations are to be anticipated.

3.3.2 Mudstone

Mudstone was encountered below the clays in all trial holes other than TP08. Geotechnical laboratory testing of the rock at depth was beyond the scope of the investigation, based on field observations the material is classified as extremely weak becoming very weak with depth in some areas.

4 GEOTECHNICAL ASSESSMENT

The following assessment provides recommendations and guidance to aid the geotechnical design of the proposed structure(s). This is not a geotechnical design report (GDR), the final design should consider both the immediate and long-term design scenarios as well as both ultimate (ULS) and serviceability limit state (SLS) conditions.

4.1 SOIL AGGRESSIVITY / CONCRETE DURABILITY

The strata underlying the site are known to potentially contain elevated levels of sulphides in the form of pyrite. Construction, particularly the excavation of foundations, service runs and basements will result in disturbance of the underlying deposits. This has the potential to expose these sulphur bearing minerals leading to oxidation and the generation of sulphate containing minerals, which are soluble in water and can cause damage to concrete.

As set out in BRE Special Digest 1 where soils have the potential to contain pyrite a total of three samples of the Weald Clay were tested for water and acid soluble sulphate, total potential sulphate, total sulphur and pH.

The laboratory testing results indicate that oxidisable sulphides are generally present at concentrations below 0.3%, indicating that large volumes are pyrite are not present. Using highest sulphate class calculated from the water-soluble sulphate, total potential sulphate the soils are classified as **Design Sulphate Class DS-4.**

The groundwater conditions are considered to be static and therefore the site falls within ACEC class AC-3s.

4.2 VOLUME CHANGE POTENTIAL

The NHBC[2] provides guidance for the construction of foundations on soils subject to shrinkage and swelling due to their volume change potential (VCP) and the impact of trees and other vegetation. Based on the results of Atterberg limit testing the soils on site are classified as **High** VCP. Deepening may be terminated where intact mudstone is encountered.

The BGS GeoClimate study (UKCP18)[3] projects an increase in potential subsidence due to climate change with the percentage of properties impacted by shrinkable soils increasing from 3% in 2020 to 11% in 2070.

4.3 FROST SUSCEPTIBILITY

Based on the results of Atterberg limit testing the clay soils are non-frost susceptible as the plasticity indices exceed 20% for poorly draining soils.

[2] NHBC Standards 2024 Chapter 4.2 Building near trees.

[3]https://www.bgs.ac.uk/news/maps-show-the-real-threat-of-climate-related-subsidence-to-british-homes-and-properties/

4.4 GROUNDWATER

A groundwater seepage was encountered in TP05 at 2.8 m bgl, and arisings were recovered damp in TP03 at 2.3 m bgl. In both cases the groundwater/damp soils appear to broadly correspond to the boundary between the clays and the underlying mudstone. Based on the findings to date minor groundwater seepages should be anticipated at the clay / mudstone boundary situated at between 2.0 and 3.0 m bgl. However, it should be noted that the investigation was undertaken during an exceptionally dry spring and therefore, there is the potential that shallower groundwater seepages may be encountered particularly during the winter months.

Winter groundwater monitoring has not been undertaken on site and may be required to confirm that worst case groundwater conditions on site. It should be noted that due to climate change, with anticipated wetter winters and periods of more intense rainfall groundwater levels across much of the south of England are expected to rise. Therefore, higher groundwater levels than those reported here may be anticipated in the medium term.

4.5 FOUNDATIONS

It is our understanding that the proposed development comprises redevelopment of the existing barn structures into residential properties. We understand that these properties will maintain the broad outline of the existing structures. However, some minor extensions are proposed which will require the installation of foundations.

It is key to ensure that the foundations extend below any made ground, loose, disturbed or desiccated ground. If foundations are anticipated to span different soil types e.g. between sands and gravels and clay, then allowance should be made for nominal reinforcement of the foundation to accommodate differential movement.

The bearing capacity is dependent on proposed foundation dimensions and depth as well as the buildings settlement tolerance. The below provides preliminary bearing capacities for specific foundation depths and widths and assumes a maximum tolerable settlement of around 25 mm.

4.5.1 Shallow Foundations

4.5.1.1 Strip Foundations

Assuming a 600 mm wide and at least 1.0 m deep strip foundation, which is founded within the stiff clays then a preliminary allowable bearing capacity of 125kPa may be assumed for the cohesive deposits present on site. Foundations will require deepening to account for the High VCP of the underlying deposits and the presence of mature trees and hedge rows on site. High plasticity clays soften rapidly when wet and it is advisable that once excavated foundation trenches are not left exposed for significant periods of time where this can be avoided.

Where foundations are stepped or span different soil types, allowance should be made for nominal reinforcement.

Based on the current development layout at the findings of the investigation it is considered that the proposed foundations should not intersect the area of granular soils encountered in TP06. However, should granular soils be encountered within the foundation trenches then of the encountered deposits is advised to confirm their density and any influence this may have on bearing capacity.

4.6 Excavations

Excavations in made ground are likely to be unstable and subject to collapse. Excavations within the clay soils are likely to be stable in the short term, although minor groundwater seepages may be anticipated where excavations extend to the clay / mudstone boundary. A single area of clayey gravelly sand was encountered in TP06, excavations in this material are likely to be unstable in the short term particularly within the winter months where perched groundwater may be present within these more granular deposits.

Given the potential for groundwater seepages allowance should be in place for periodic pumping of excavations.

Appropriate precautions must be in place to ensure the safety of all operatives where entry into excavations is required. Alternative foundation methods may need to be adopted where footing excavations cannot be safely constructed.

4.7 Floor Slabs

Given the high VCP of the deposits and the required foundation deepening the NHBC[4] indicates suspended floor slabs should be adopted.

4.8 Pavements and Carriageways

It is understood that the proposed development includes access roads and private driveways. The investigation scope did not include allowance for California bearing ratio (CBR) testing. However, LR1132[5] indicates that preliminary CBR values for cohesive soils may be estimated based on the results of Atterberg limit testing. Based on the results of the plasticity testing a preliminary CBR value of 3% is considered appropriate for the silty clay subgrade.

High plasticity clay such as the Weald Clay softens rapidly when exposed to moisture, as such where possible excavation of formation level should be avoided during the wet winter months. Once excavated the formation level should be left exposed to the environment for as short a time as possible. Where softening occurs, over excavation, proof rolling and replacement with suitable compacted fill is recommended.

4.9 Level Alterations

The recommendations set out in this report assume that no significant level changes (cut or fill) are proposed as part of the design. Significant level raising may induce settlement particularly over areas of soft ground.

Should significant filling activities be proposed further investigation will be required to assess the impact of such earthworks of the proposed development.

[4] NHBC Standards 2024 Chapter 5.1 Substructure and ground-bearing floors

[5] TRRL Laboratory Report 1132 The structural design of bitumous roads. Powell, Potter Mayhew and Nunn (1984)

Where filling is proposed as part of residential developments, guidance and recommendations for using engineered fill on the development is given in Chapter 4.6 of the NHBC guidance[6].

4.10 Settlement

Based on the preliminary bearing capacity provided above, settlements should be within tolerable limits assuming footings are founded within the stiff clays or weak mudstone. If soft / loose deposits are encountered at formation level or below, greater settlement or potential differential settlement may be anticipated, and serviceable limit state analyses, or further investigation may be required. Settlement analysis is usually required for geotechnical category 2 and 3 structures.

Where foundations are stepped or span different soil types and allowance should be made for nominal reinforcement.

4.11 Heave and Uplift

The NHBC guidance[7] indicate safeguards against heave apply where foundations are within the influence of trees and the depth is greater than 1.5m. In this instance compressible material should be installed against the inside faces of the external wall foundations.

4.12 Retaining Structures

Onyx Geo is not aware of any retaining walls being proposed as part of the development.

[6] NHBC Standards 2024 Chapter 4.6 Engineered Fill

[7] NHBC Standards 2024 Chapter 4.2 Building near trees.

5 GEO-ENVIRONMENTAL RISK ASSESSMENT

5.1 UPDATED CONCEPTUAL SITE MODEL

The conceptual site model presented in the desk study identified potential risk from:

- Asbestos within existing structures, including a stockpile suspected to contain asbestos.
- Heavy metals, PAH compounds and asbestos within made ground (potentially associated with historical buildings, demolished structures and material storage).
- Pesticides from former farming activities.

Following the intrusive investigation, and prior to undertaking the Generic Quantitative Risk Assessment (GQRA) it is necessary to update the conceptual model to account for the findings of the investigation. No additional contaminant sources were identified in the areas investigated.

5.2 HUMAN HEALTH RISK ASSESSMENT

The GQRA for human health has been undertaken in accordance with the land contamination risk management (LCRM) guidance and the contaminated land exposure assessment (CLEA) methodology. Concentrations of contaminants of concern within soils have been compared directly to Generic Assessment Criteria (GAC) derived using the CLEA model for a residential with homegrown produce end use.

Across both phases, forty-two soil samples were subjected to chemical analysis and two fragments of suspected ACM scheduled for asbestos identification testing. The soil samples tested comprised the topsoil, natural clay, as well as the made ground.

For some contaminants the assessment criteria varies depending on soil organic matter (SOM) content. GACs are available for soil SOM contents of 1%, 2.5% and 6%. The laboratory analysis includes total organic carbon (TOC). In order to convert the TOC into SOM a conversion factor of 1.72 is applied. The TOC concentration within the samples analysed ranged from 0.2% to 3.7% equating to an SOM range of 0.34% to 6.36%. The most conservative generic assessment criteria are for lower SOM soils therefore 1% SOM has been adopted.

The risk assessment does not include statistical analysis. CL:AIRE 2020[8] provides guidance on the appropriate sample sizes required for statistical analysis and the current testing regime does not comply with the minimum number of samples required. Therefore, direct comparisons of recorded concentrations and GAC have been made.

5.3 RISK ASSESSMENT

The most critical human receptor are future residents of the proposed development assuming private gardens are present. The table below compares the recorded contaminant concentrations within the samples analysed against the residential with homegrown produce generic assessment criteria. The full laboratory results are included in Appendix G.

[8] CL:AIRE (2020) Professional Guidance: Comparing Soil Contamination Data with a Critical Concentration.

Table 8: Summary of laboratory results

Contaminant	Conc. Range (mg/kg)	Generic Assessment Criteria (mg/kg)	GAC source[9],[10]	Exceedances
Arsenic	0.8 – 29	37	C4SL	None
Cadmium	<0.1 – 0.9	22	C4SL	None
Chromium	1.6 – 38	910	S4UL	None
Hexavalent Chromium	<1.0 - <1.8	21	C4SL	None
Copper	5.9 – 46	2,400	S4UL	None
Lead	3.5 – 70	200	C4SL	None
Mercury (inorganic)	0.06 – 0.09	200	C4SL	None
Nickel	1.5 - 30	130	S4UL	None
Selenium	<0.5 – 5.9	250	S4UL	None
Zinc	32 – 340	3,700	S4UL	None
Benzo(a)pyrene^	0.04 – 9.8	5	C4SL	9.8mg/kg in TP02 at 0.1m
Naphthalene	0.04 – 0.12	15	C4SL	None
Total PAHs	0.13 – 102	N/a	-	-

^Benzo(a)pyrene as surrogate marker for genotoxic PAHs

Chemical testing for metals and PAH compounds was undertaken on forty soil samples comprising eleven made ground, twenty topsoil/subsoil and nine Weald Clay samples. One elevated concentration of the PAH surrogate marker compound benzo(a)pyrene (BaP) was recorded in made ground at 0.2m bgl in TP02 in the north of the site. No metals or PAH exceedances were recorded within any of the other samples tested and no exceedances of GAC were recorded within any of the natural soil samples tested.

The results indicate that the made ground in the areas tested is locally impacted with elevated PAH concentrations, which would pose an unacceptable risk to human health should they remain in areas of soft landscaping.

[9] SP1010 Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination (2014).

[10] Nathanail et al 20.15 The LQM/CIEH S4ULs for Human Health Risk Assessment. Land Quality Press, Nottingham. Copyright Land Quality Management Limited reproduced with permission; publication number S4UL3509. All rights reserved.

5.3.1 Pesticides

Two samples of the topsoil from TP03 and TP05 were tested for the presence of pesticides. Neither of the samples analysed recorded any of the determinants tested above the laboratory limit of detection (10 µg/kg).

5.3.2 Asbestos

Forty soil samples were screened for the presence of asbestos or asbestos containing materials (ACM). Two fragments of suspected asbestos containing cement were also tested for bulk asbestos; one fragment was collected from the ground surface adjacent to the western barn (surface sample 1); and the other from the made ground in TP01.

Asbestos was detected within two of the forty soil samples analysed both positive results were from the made ground. Loose chrysotile fibres were recorded in TP01 at 0.2 m bgl (<0.001% by weight) and a chrysotile asbestos cement fragment was identified in TP02 at 0.10 m bgl and quantified at 0.173% by weight in the sample.

The cement fragments collected from TP01 and at the ground surface next to the western barn tested positive for chrysotile asbestos. Suspected asbestos cement fragments were observed in HP01 made ground, but the fragments were not tested for asbestos. The soil matrix at HP01 did not identify asbestos. HP01 was located in land to the south of Unit 1 barn.

The results indicate that the shallow made ground around the existing barns is locally impacted with asbestos fibres and cement fragments with further fragments of cement present on the ground surface. These asbestos impacted soils would present an unacceptable risk to future residents if retained within areas of soft landscaping, including private gardens.

5.4 Construction Worker Risk Assessment

The CLEA model has been designed to assess chronic exposure and risk and is therefore not suitable for assessing the acute exposure risks to a site worker. Employers have a legal duty to ensure that suitable health and safety procedure are in place to protect demolition / construction workers from the risk posed by working in or close to potentially contaminated soils.

The existing buildings contain suspected chrysotile asbestos cement sheeting with more of this material likely to be present in the stockpiles and ACM debris at surface across the site. This material would pose a risk to demolition / construction workers. Removal and disposal of the ACM should be undertaken by a suitably qualified, competent contractor with all the necessary control measures in place to reduce the risks to the workforce and prevent the spread of asbestos across the site.

5.5 Controlled Waters Risk Assessment

The risk to groundwater was discounted within the desk study due the negligible permeability of the underlying strata and the absence of a high-risk / high sensitivity ground water receptor.

To date no gross contamination has been identified in the soil that would be considered to pose a significant risk to the surface water receptor (Lancing Brook) present in the north of the site. Localised PAH contamination within one made ground sample on site is not considered to pose a significant risk to surface water. In the soil samples tested, arsenic, cadmium, copper, lead,

mercury and nickel were reported at concentrations below normal background concentrations[11] published by the BGS. However, during the construction phase, controls should in place to prevent surface water runoff from entering the stream and include measures to prevent siltation of the stream.

5.6 Geo-Environmental Summary and Recommendations

Laboratory testing indicates that the made ground on site is locally impacted with loose asbestos fibres and ACM fragments, as well as localised PAH contaminated soils. Chemical analysis of the natural topsoil, subsoil and clay did not record the contaminants tested at concentrations above GACs. Where made ground soils are present in areas of proposed soft landscaping including private gardens they present an unacceptable risk to future residents.

Asbestos debris is also present within the buildings, at ground surface and suspected to be present in stockpiles around the site. These not only pose a risk to the future land users, but also to site workers during the demolition and construction phase.

It is noted that with the exception of one surface sample, no investigation or testing has been possible beneath the footprint of the existing structures, although given the intention for the proposed properties to match the current location of the barn's contaminant linkages from the underlying soils will be limited by the floor slab and other hardstanding.

Based on the findings of the investigation and generic risk assessment we recommend the following:

- A remediation strategy should be prepared for the site to manage or mitigate the risk posed by the asbestos and PAH contaminated made ground soils.
- The strategy should include a discovery strategy to deal with the potential for any unidentified contamination found on site.
- All works with asbestos and asbestos contaminated soils should be in accordance with the Control of Asbestos Regulations 2012.
- It is our understanding that the new properties are within the existing barn footprint and therefore the new ground floor slab will significantly limit the potential for direct contaminant exposure to future land users. However, following demolition it is recommended that the exposed material is visually inspected by a geoenvironmental consultant and any suspect material encountered is sampled and scheduled for laboratory testing.
- When it is known whether soils are to be disposed offsite as a waste they should be suitably classified in advance of disposal. Consideration for a definition of waste code of practice materials management plan should also be part of the initial design works.

With respect to the topsoil it is a resource, and care should be taken not to damage the soil structure. Over working of topsoil when wet can lead to damage and reduce the soil's ability to

[11] https://www.bgs.ac.uk/geology-projects/applied-geochemistry/g-base-environmental-geochemistry/nbc-defra-project/

drain once placed. Therefore, any soil stripping, stockpiling or placement should be completed during dry weather.

APPENDIX A – LIMITATIONS

This report, including any related study, inspection, testing, sampling, or interpretation (collectively referred to as "deliverables"), was prepared by Onyx Geo Consulting Limited (Onyx Geo), for the client specified in the first paragraph, following the terms outlined in Onyx Geo's fee proposal and standard terms (the "Appointment"). Onyx Geo delivered the Services with the level of expertise typical of geo-environmental consultants at the time. The report does not imply any specific fitness for purpose. The Services were completed within the limitations of scope, timing, and resources as agreed between Onyx Geo and the Client.

Except as specified above, Onyx Geo makes no further representations or warranties, either express or implied, concerning the Services. Liability for any actions related to this report expires six years from the report date or as legally specified, unless altered within the Appointment terms.

Onyx Geo conducted the Services exclusively for the Client's intended purpose. If this report or its contents are used by any third party without explicit written consent from Onyx Geo, any risk or liability lies solely with that party. It is recommended that third parties seek their own independent geo-environmental consultation.

The Client may not transfer or assign the benefits of this report to any third party without written permission from Onyx Geo. Should an assignment be agreed upon, any third-party rights provided will require a fee and will not extend beyond the terms initially agreed with the Client.

Onyx Geo understands this report is intended for the purpose outlined in its introduction. Any alterations in the site's intended use may invalidate the report. Onyx Geo is not liable for any use of this report outside its original purpose without a formal review.

Over time, changes in site conditions, regulations, technology, or economic circumstances may affect the accuracy or relevance of this report. For future reliance, written confirmation from Onyx Geo is advised.

The conclusions in this report are based on the specific Services provided as outlined in the Appointment. Onyx Geo holds no responsibility for undiscovered conditions that fall outside the scope of services originally agreed upon.

The Services were based on visible site conditions, historical site data, and publicly available information, relying on third-party data where applicable. Onyx Geo is not liable for inaccuracies in this information or for failing to independently verify third-party data.

Drawings included in this report are illustrative and may not be suitable for precise measurements. Marked features are approximate and for reference only.

Any subsequent review or update of this report may require additional fees at the agreed rates.

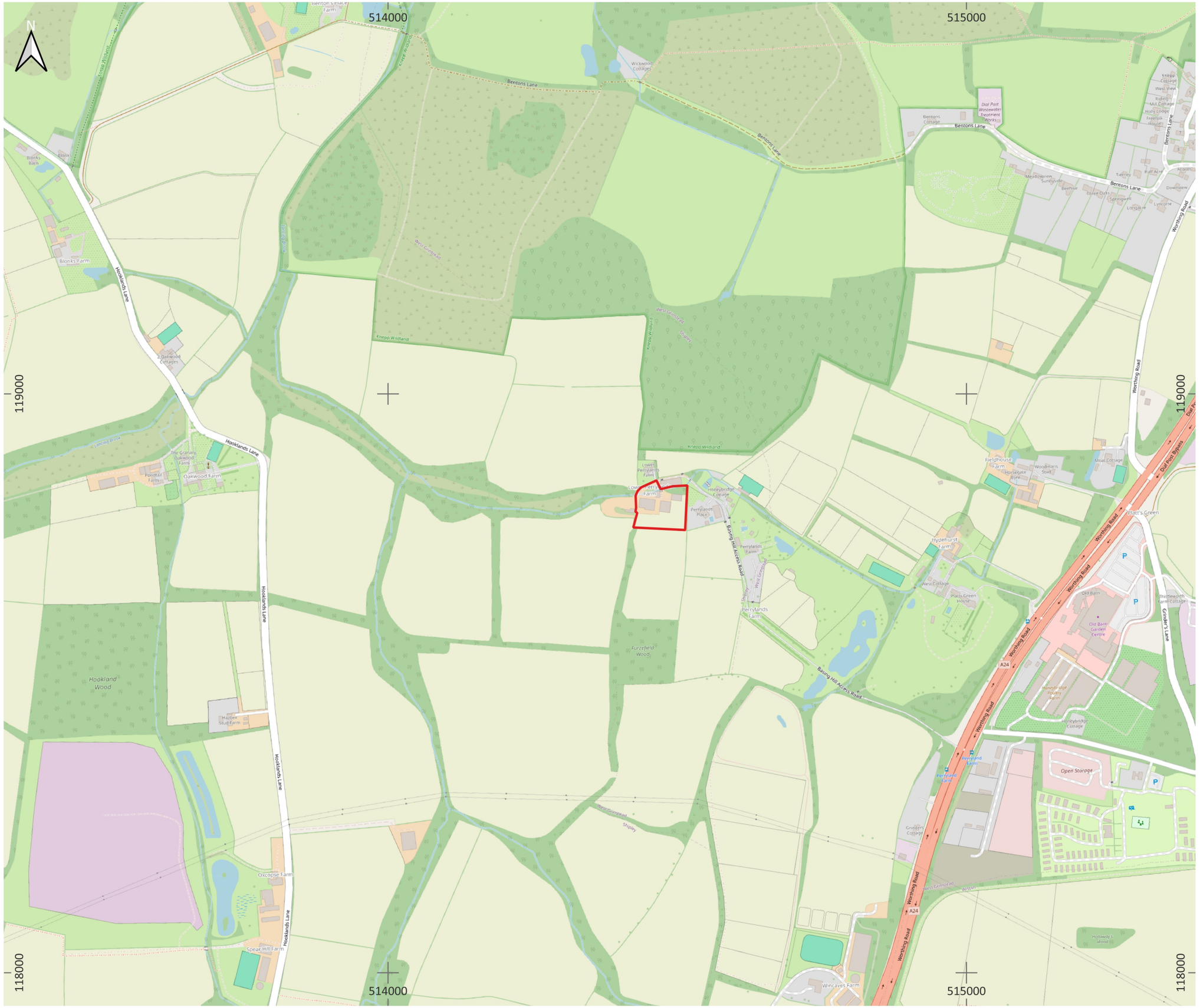
The conclusions from ground investigations rely on samples taken from specific site locations and represent only a limited area around these points.

Site conditions, particularly ground and groundwater variables, may change seasonally, and additional variation beyond that reported here cannot be ruled out.

The presence of asbestos, if any, is not fully assessed within this report. A comprehensive asbestos survey is recommended for any thorough evaluation.

Preliminary geotechnical recommendations are provided and should be validated in a final Geotechnical Design Report once structural design plans are confirmed.

APPENDIX B – FIGURES AND DRAWINGS



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0 100 200 m

ONYXGEO CONSULTING LTD.

46 Victoria Road, Burgess Hill, RH15 9LR
e: info@onyxgeo.co.uk
w: www.onyxgeo.co.uk

Project name:
Lower Perryland Farm

Client:
Lower Perrylands Ltd

Drawing No:
ON251030-ON-PD-XX-DR-G-111-C01

Description:
Figure 1 Current site layout

Project no:	Rev:
ON251030	C01
Date: 12/01/2026	Scale: 1:6,250

Drawn	Checked	Approved
AC	MW	SC



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0 10 20 m

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Project name:
Lower Perryland Farm

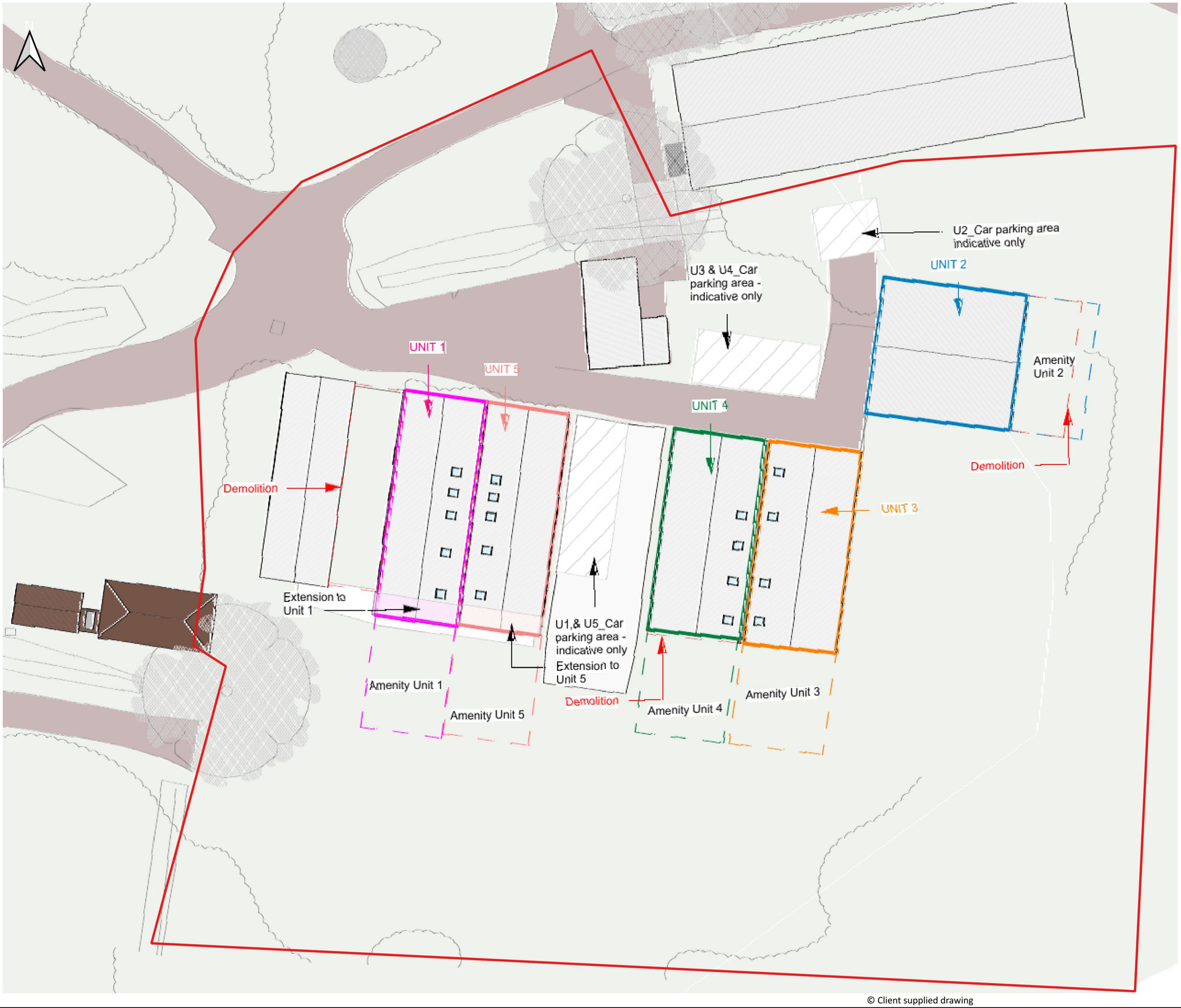
Client:
Lower Perrylands Ltd

Drawing No:
ON251030-ON-PD-XX-DR-G-112-C01

Description:
Figure 2 Current site layout

Project no:	Rev:
ON251030	C01
Date: 12/01/2026	Scale: 1:325

Drawn	Checked	Approved
AC	MW	SC



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0 10 20 m

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w: www.onyxgeo.co.uk

Project name: Lower Perryland Farm

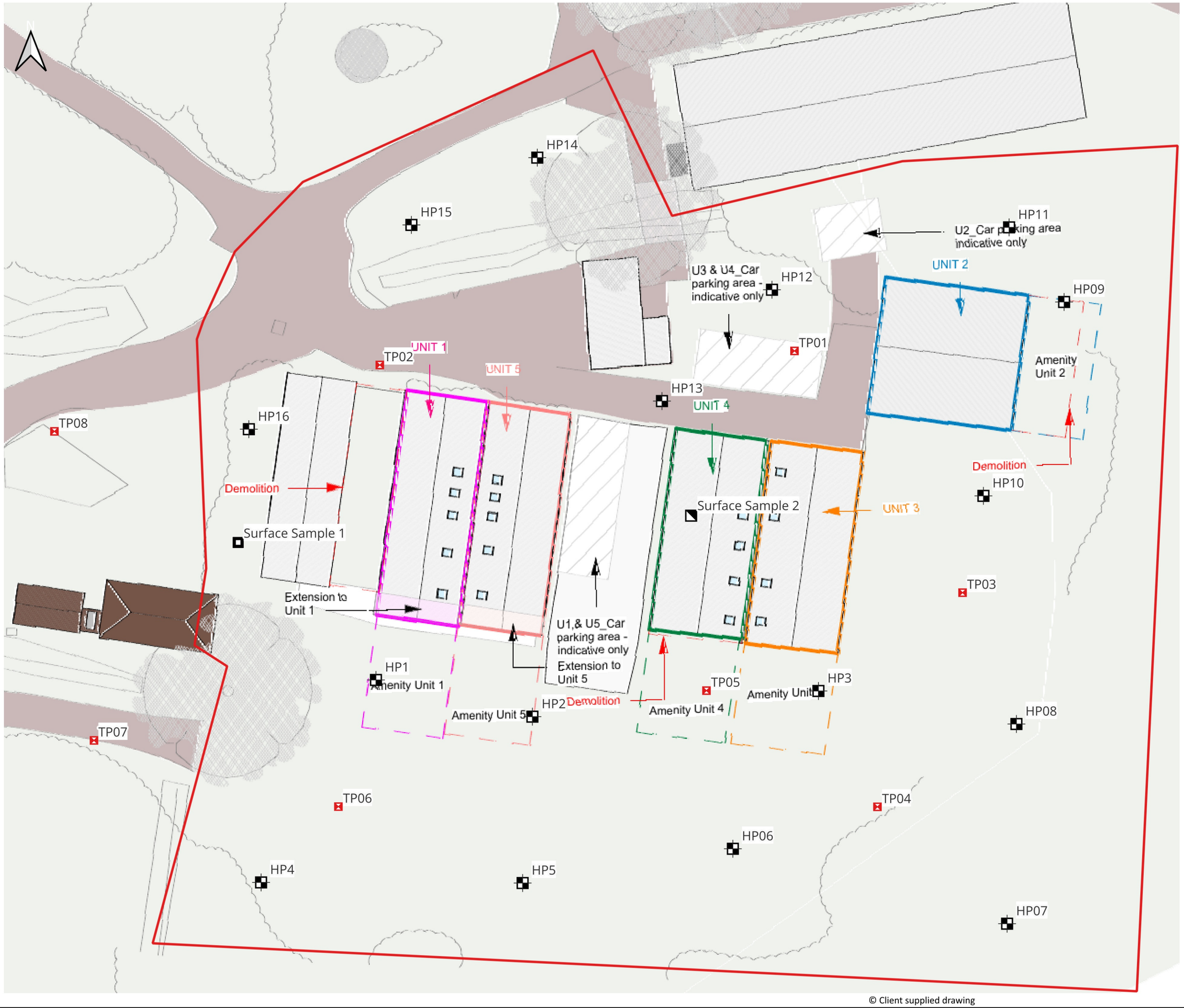
Client: Lower Perrylands Ltd

Drawing No: ON251030-ON-PD-XX-DR-G-112-C01

Description: Figure 3 Proposed Site Layout

Project no:	Rev:
ON251030	C01
Date: 12/01/2026	Scale: 1:325

Drawn	Checked	Approved
AC	MW	SC



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Site Boundary

Site investigation Locations

- December 2025 Trial Pit
- May 2025 Trial Pit
- Surface soil sample
- Surface fragment sample

0 10 20 m

ONYXGEO CONSULTING LTD.

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Project name: Lower Perryland Farm

Client: Lower Perrylands Ltd

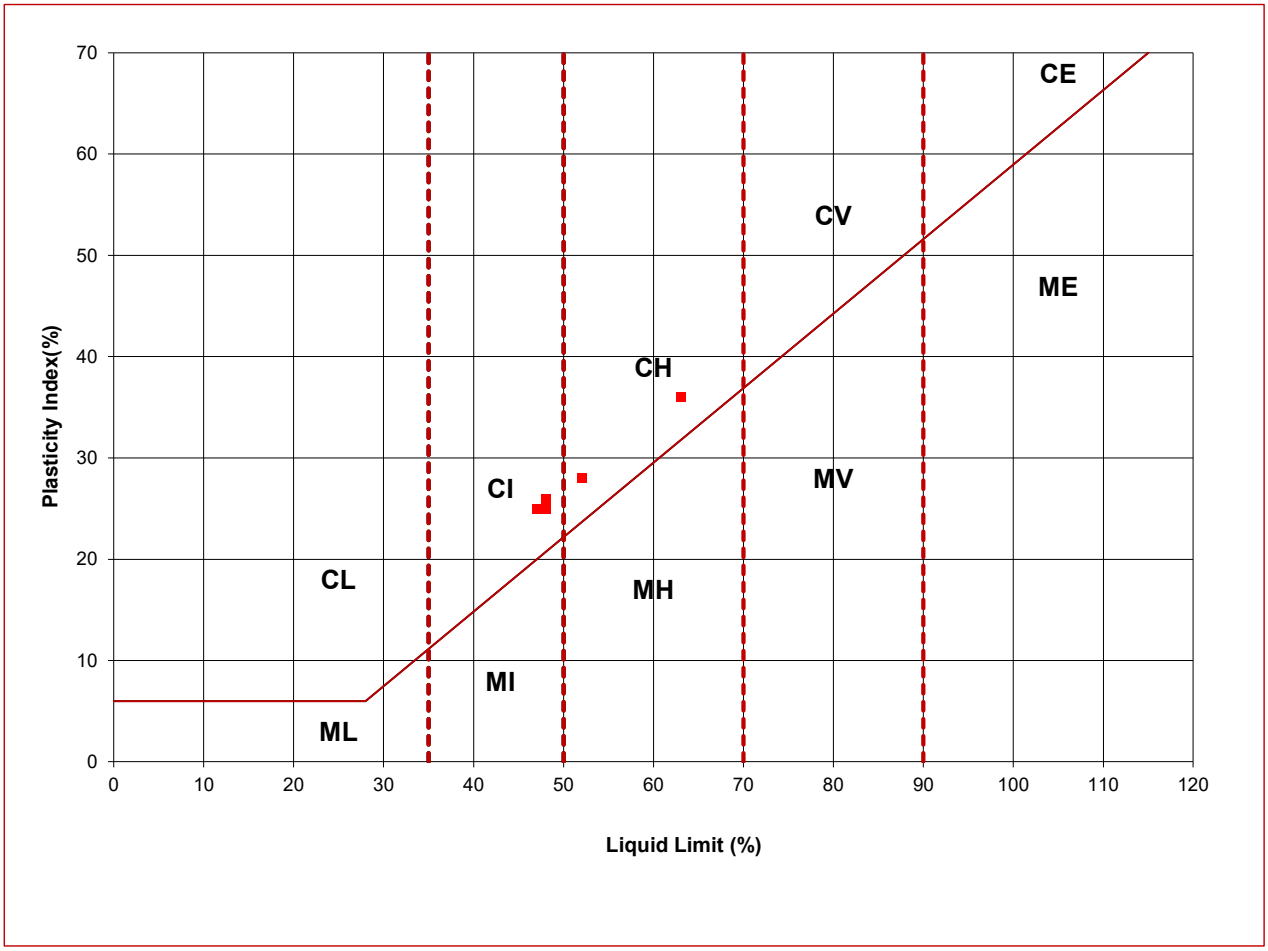
Drawing No: ON251030-ON-PD-XX-DR-G-222-C01

Description: Figure 4 Site Investigation Locations

Project no:	Rev:
ON251030	C01
Date: 12/01/2026	Scale: 1:325

Drawn	Checked	Approved
AC	MW	SC

Atterberg Limits A-Line Plot



Project ID:	ON251030	**Project name:**	Lower Perryland Farm Phase II		
Client:	Lower Perrylands Limited	**Site Address:**	Lower Perryland Farm, Basing Hill, Dial Post, West Sussex		
Date:	27/05/2025	**Report Ref.**	ON251030-ON-PD-XX-RP-G-713-C01	**Figure No.**	5

APPENDIX C – PHOTOGRAPHS

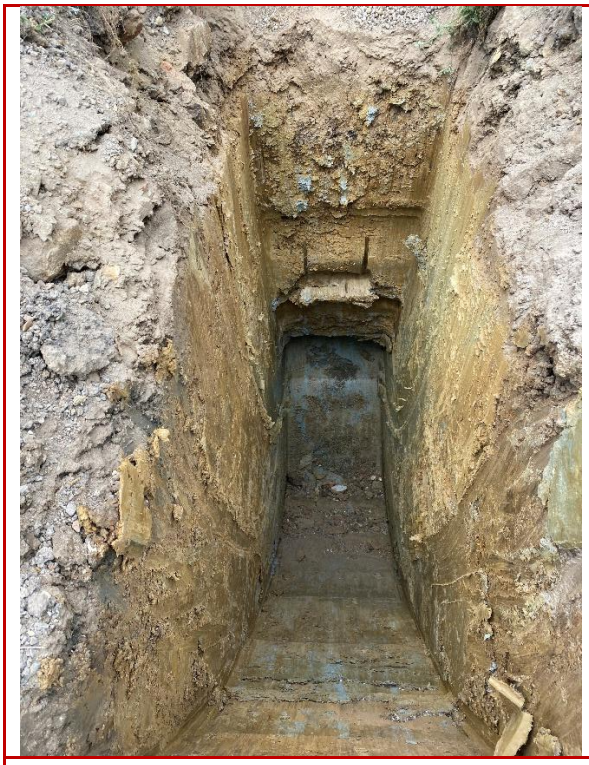


Photo 1 – TP01 prior to reinstatement.



Photo 2 – TP01 arisings.



Photo 3 – TP01 Arisings.



Photo 4 – TP03 prior to reinstatement.

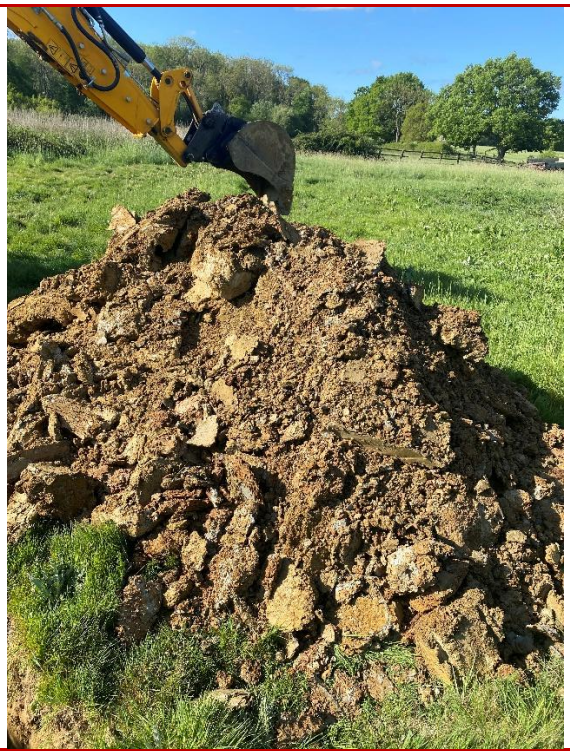


Photo 5 – TP03 arisings.



Photo 6 – TP04 arisings.



Photo 7 – TP05 prior to reinstatement with seepage visible.



Photo 8 – TP05 arisings.

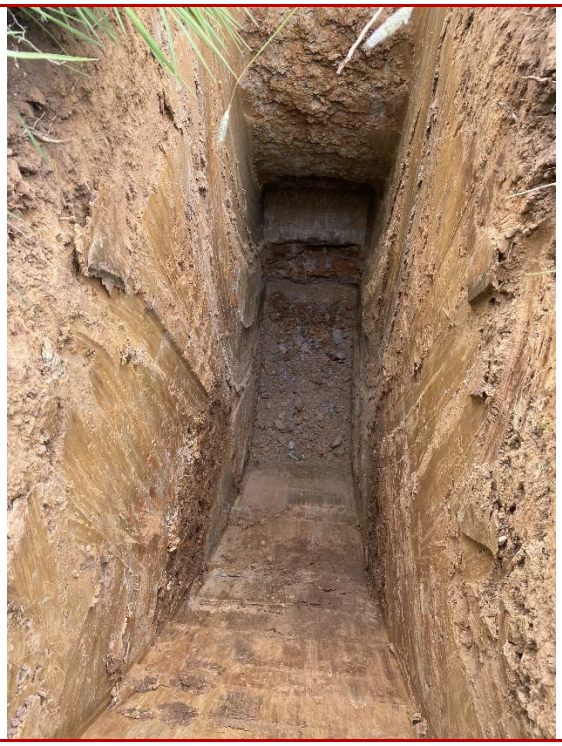


Photo 9 – TP06 prior to reinstatement.



Photo 10 – TP06 arisings.



Photo 11 – TP07 prior to reinstatement.



Photo 12 – TP07 arisings.

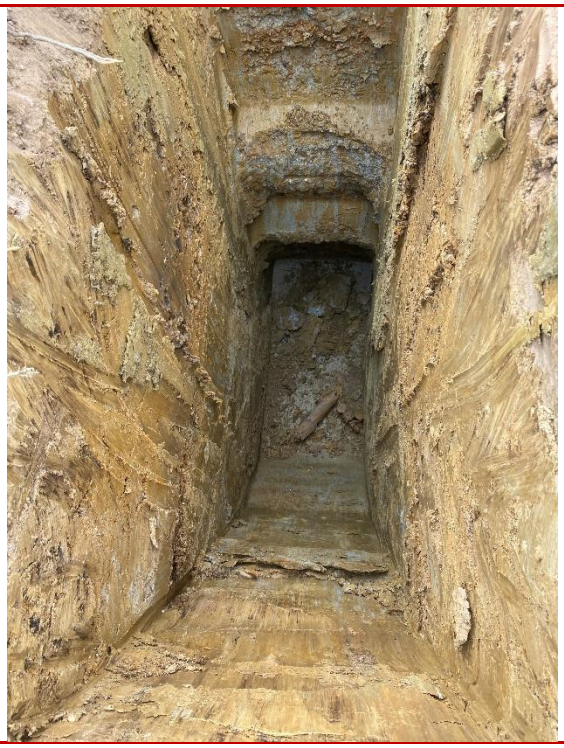


Photo 13 – TP08 prior to reinstatement.



Photo 14 – TP08 arisings.



Photo 15 – Area of surface sample 2.

APPENDIX D – SITE INVESTIGATION METHOD DETAILS

Intrusive Investigation Methods, Sampling and Insitu Testing

Machine Excavated Trial Pitting

Trial pitting was undertaken using a JCB 3CX with a 600mm wide toothless bucket. The pits were excavated to an approximate target depth of 3.0m bgl, excavation in the upper 1.0m was undertaken in thin layers to reduce the risk of damaging any below ground services or other infrastructure. The pits had approximate dimensions of 0.6m wide and 1.5 – 2.0m in length. Excavation was supervised by an engineering geologist from Onyx Geo throughout. On completion each trial hole was backfilled with arisings in reverse order and left slightly mounded to allow for future settlement.

Soil logging and sampling

The soil recovered from the trial pits was logged and sampled. Logging was undertaken in broad accordance with BS 5930[12] and BS EN ISO 14688[13] and the are included in Appendix E.

Samples were collected by hand (using dedicated nitrile gloves for each sampling location). Samples were placed into laboratory supplied sampling containers, specific to the type of analyses required.

All sample containers were sealed and labelled with a unique location identity, depth and date of sampling.

Soil sampling

Geotechnical soil samples were targeted to interpret the geological sequence, and to obtain characteristic soils properties and specific geotechnical design parameters, as per the proposed development.

[12] BS 5930:2015+A1:2020 Code of Practice for Ground Investigation

[13] BS EN ISO 14688 Parts 1-2 (2018) Geotechnical Investigation and Testing. Identification and classification of soil

APPENDIX E – EXPLORATORY LOGS

Trial Pit

TP01

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514482.51	118823.05	21.24	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.20	ES			(0.30)		MADE GROUND comprising grey sandy gravel. Gravel is fine to medium concrete, tile, blacktop, and fine to coarse flint and whole bricks.
		0.40	ES		20.94	0.30		Stiff brown to orange brown slightly sandy silty CLAY with occasional medium to coarse subangular flint.
		1.10	PP	250 (kPa)		(1.10)		
		1.10	D					
		1.70	D		19.84	1.40		Stiff grey to blue grey mottled orange brown slightly silty CLAY.
		1.80	PP	250 (kPa)				Relict sub-horizontal shear surface (1.50m)
		2.60	D			(1.30)		Abundent selenite crystals. (2.60m)
					18.54	2.70		Interbedded extremely weak brown silty MUDSTONE and stiff grey CLAY.
						(0.30)		
					18.24	3.00		*End of Trial Pit at 3.00m*

Remarks
Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 3.00m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP02

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514444.73	118821.62	20.56	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.10)		CONCRETE
		0.10	ES		20.46	0.10		MADE GROUND comprising grey sandy gravel of brick, concrete, tile and flint.
						(0.15)		~7cm x ~4cm fragment of suspected ACM corrugated cement (0.10m)
					20.31	0.25		Friable orange brown ironstained black slightly sandy gravelly CLAY. Gravel is fine to coarse subangular flint.
		0.60	ES			(0.65)		Drain pipe encountered (0.60m)
		0.80	D					
					19.66	0.90		Stiff mottled orange and grey slightly silty to silty CLAY.
		1.20	PP	260 (kPa)				
		1.60	D			(1.50)		
		2.10	PP	290 (kPa)				
					18.16	2.40		Extremely weak blue grey and brown laminated MUDSTONE with pockets of clay.
		2.50	D			(0.30)		
					17.86	2.70		*End of Trial Pit at 2.70m*

Remarks
A clay drain pipe was encountered at 0.6m bgl in the western end of the pit (undamaged). The pit was extended eastwards to enable continued excavation without damaging the service. Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 2.70m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP03

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514497.82	118801.13	21.55	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.10	ES			(0.25)		Grass over light brown slightly sandy clayey silty TOPSOIL with rare fine to medium chalk, gravel and rare medium subrounded flint.
					21.30	0.25		Light yellowish brown slightly sandy slightly silty clayey SUBSOIL.
						(0.35)		
					20.95	0.60		Stiff friable orange brown ironstained dark brown to black gravelly slightly sandy CLAY. Gravel is fine to medium occasionally coarse subangular ironstone.
						(0.20)		
					20.75	0.80		Firm to stiff mottled orange brown and grey slightly silty CLAY.
		1.20	PP	270 (kPa)				
		1.20	D					
						(1.40)		
		2.00	PP	180 (kPa)				
		2.00	D					
					19.35	2.20		Stiff friable grey and dark orange brown slightly silty gravelly CLAY. Gravel is fine extremely weak mudstone.
						(0.20)		Arisings recovered damp (2.30m)
					19.15	2.40		Extremely weak red brown silty MUDSTONE recovered as fine to medium tabular gravel with pockets of stiff grey clay.
						(0.30)		
		2.70	D		18.85	2.70		*End of Trial Pit at 2.70m*

Remarks
Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 2.70m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP04

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514489.90	118781.54	21.65	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.25)		Grass over dessicated grey brown slightly sandy clayey silty TOPSOIL with abundent rootlets.
		0.20	ES		21.40	0.25		Brown to orange slightly sandy slightly silty clayey SUBSOIL.
		0.50	ES			(0.35)		
		0.80	PP	200 (kPa)	21.05	0.60		Stiff orange brown occasionally mottled grey slightly sandy silty CLAY.
		0.90	D			(0.60)		
					20.45	1.20		Stiff mottled orange brown and grey slightly silty CLAY.
		1.80	PP	270 (kPa)		(1.00)		
		2.10	D					
		2.30	D		19.45	2.20		Extremely weak blue grey and red brown silty MUDSTONE with thin laminations of light grey silt.
						(0.30)		
					19.15	2.50		Very weak orange brown and grey silty MUDSTONE recovered as fine to coarse tabular gravel.
						(0.30)		
					18.85	2.80		*End of Trial Pit at 2.80m*

Remarks
Trial pit remained stable and was backfilled with arisings on completion. Arisings were recovered damp below 2.3m but no water ingress was observed.

Method, Plant, Stability, Dimensions
0.00 - 2.80m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP05

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514474.41	118792.22	21.11	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.20)		Grass over grey brown slightly sandy clayey silty TOPSOIL with rootlets.
		0.15	ES		20.91	0.20		
						(0.20)		Light yellow brown silty clayey SUBSOIL.
					20.71	0.40		
								Stiff orange and grey mottled slightly silty CLAY.
		1.00	PP	270 (kPa)				
		1.00	D					
								Mottled grey and red brown below (1.30m)
		1.40	PP	180 (kPa)		(2.10)		
								with fine mudstone gravel below (1.70m)
		1.90	D					
					18.61	2.50		Extremely weak thinly laminated blue grey MUDSTONE and orange brown very weak MUDSTONE recovered as tabular gravel.
						(0.40)		
	▽	2.80	D		18.21	2.90		
								End of Trial Pit at 2.90m

Remarks
Slight groundwater seepage noted at 2.8m bgl. Trial pit remained stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 2.90m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP06

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514440.71	118781.34	20.79	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.20)		Grass over grey brown slightly sandy clayey silty TOPSOIL with roots and rare flint gravel.
					20.59	0.20		
		0.30	ES			(0.25)		Light yellowish to orange brown friable sandy silty clayey SUBSOIL.
					20.34	0.45		
								Stiff orange mottled light grey slightly sandy silty CLAY with occasional roots.
						(0.95)		
		1.30	PP	260 (kPa)				
		1.30	D					
					19.39	1.40		
								Brown to dark red brown slightly clayey to clayey gravelly SAND. Sand is fine to medium. Gravel is medium to coarse subangular flint.
						(0.60)		
					18.79	2.00		
								Stiff grey and orange brown silty CLAY.
		2.30	PP	180 (kPa)		(0.50)		
		2.30	D					
					18.29	2.50		
								Very weak red brown and grey slightly silty MUDSTONE recovered as fine to medium gravel.
						(0.40)		
		2.80	D					
					17.89	2.90		
								End of Trial Pit at 2.90m

Remarks
Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 2.90m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP07

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514418.48	118787.84	20.43	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
		0.25	ES			(0.50)		Grass over MADE GROUND comprising slightly silty sandy gravel. Gravel is fine to coarse concrete, tile, flint, brick and frequent whole bricks.
		0.60	ES		19.93	0.50		Stiff mottled orange brown, red brown and grey slightly silty CLAY.
		1.20 1.20	PP D	300 (kPa)		(1.40)		
		2.00 2.00	PP D	250 (kPa)	18.53	1.90		Stiff friable grey and red brown CLAY with frequent bands of red brown extremely weak mudstone.
		2.80	D			(0.80)		
					17.73	2.70		Extremely to very weak red brown orange brown and grey silty MUDSTONE.
						(0.30)		
					17.43	3.00		*End of Trial Pit at 3.00m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks
Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 3.00m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

TP08

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP	514414.67	118815.36	20.13	1:25

Project Name	Project No.	Start Date	End Date
Lower Perryland Farm	ON251030	2025-05-06	2025-05-06

Client
Lower Perrylands Limited

Contractor
Spillane Plant

Consultant
Onyx Geo Consulting Ltd

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Type/ Ref	Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Description
						(0.20)		MADE GROUND comprising sandy gravel of brick, concrete, and whole bricks.
		0.15	ES		19.93	0.20		Stiff orange brown mottled grey and red brown silty CLAY with rare flint gravels.
		0.30	ES					
		1.00	PP	270 (kPa)		(1.70)		
		1.10	D					No flint noted below 1.3m (1.30m)
		2.00	PP	>400 (kPa)	18.23	1.90		Stiff friable brown and grey brown silty CLAY with fine extremely weak mudstone gravel.
		2.00	D			(0.60)		
					17.63	2.50		Stiff fissured thinly laminated orange brown and grey silty CLAY.
		2.80	D			(0.40)		
					17.23	2.90		*End of Trial Pit at 2.90m*

Remarks
Trial pit remained dry and stable and was backfilled with arisings on completion.

Method, Plant, Stability, Dimensions
0.00 - 2.90m TP JCB 3CX
Stable

Logger
ADC

Checked By: ADC **Approved By:** MW **Status:** FINAL

Trial Pit

HP01

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.20	ES			(0.30)		MADE GROUND: Dark brown clayey topsoil made ground with abundant brick, tile, wood, lead pipe, concrete and asbestos cement fragments.
		0.40	ES			0.30		
						(0.20)		Mid brown clayey SUBSOIL
						0.50		
						(0.40)		Firm to stiff orange and grey mottled slightly sandy silty CLAY
						0.90		*End of Trial Pit at 0.90m*

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.90m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP01

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.90m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP02

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.15) 0.15		Dark brown slighty silty clayey TOPSOIL with fine brick and tile gravel
		0.30	ES			(0.20) 0.35		Grey brown clayey SUBSOIL
						(0.25) 0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.60m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP02

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP03

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.01	ES			(0.10) 0.10		Dark brown slighty silty clayey TOPSOIL with fine brick and tile gravel
						(0.10) 0.20		Grey brown clayey SUBSOIL
		0.20	ES			(0.40) 0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.60m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP03

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP04

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.15) 0.15		Dark brown slighty silty clayey TOPSOIL with rootlets
		0.30	ES			(0.25) 0.40		Grey brown clayey SUBSOIL
						(0.30) 0.70		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.70m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP04

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP05

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.01	ES			(0.10) 0.10		Dark brown slighty silty clayey TOPSOIL with fine brick gravel
		0.25	ES			(0.30) 0.40		Grey brown clayey SUBSOIL
						(0.20) 0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY with occasional subrounded ironstone gravel
								End of Trial Pit at 0.60m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP05

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP06

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.05	ES			(0.10) 0.10		Dark brown slighty silty clayey TOPSOIL with fine brick gravel
		0.25	ES			(0.20) 0.30		Grey brown clayey SUBSOIL
						(0.40) 0.70		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.70m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP06

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP07

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.05	ES			(0.10) 0.10		Grey brown slighty silty clayey TOPSOIL
		0.25	ES			(0.20) 0.30		Grey brown clayey SUBSOIL
						(0.40) 0.70		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.70m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP07

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.70m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP08

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.05	ES			(0.10) 0.10		Grey brown slighty silty clayey TOPSOIL
		0.20	ES			(0.20) 0.30		Grey brown clayey SUBSOIL
						(0.30) 0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.60m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP08

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP09

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.30)		Manure/Barn Waste MADE GROUND Off white Chalk MADE GROUND
		0.25	ES			0.30		Firm to stiff orange and grey mottled slightly sandy silty CLAY with occasional ironstone gravel
		0.50	ES			(0.70)		
						1.00		*End of Trial Pit at 1.00m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP09

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP10

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.17) 0.17		Grey brown slighty silty clayey TOPSOIL
		0.30	ES			(0.13) 0.30		Grey brown clayey SUBSOIL
						(0.30) 0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.60m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP10

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.60m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP11

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.05	ES			(0.10) 0.10		Grey brown slighty silty clayey TOPSOIL with plastic fragments
		0.30	ES			(0.30) 0.40		Grey brown clayey SUBSOIL
						(0.50) 0.90		Firm to stiff orange and grey mottled slightly sandy silty CLAY
								End of Trial Pit at 0.90m

Remarks

Method, Plant, Stability, Dimensions
0.00 - 0.90m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP11

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 0.90m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP12

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.20)		Mid brown topsoil MADE GROUND with brick, concrete, glass and plastic. Occasional roots
						0.20		Firm to stiff orange and grey mottled slightly sandy silty CLAY
						(0.80)		
		0.80	ES					
						1.00		*End of Trial Pit at 1.00m*

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP12

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP13

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.20)		CONCRETE
						0.20 (0.10)		Brick SUB BASE
						0.30		Mid brown clay MADE GROUND with brick and chalk gravel.
		0.50	ES			(0.30)		
						0.60		Firm to stiff orange and grey mottled slightly sandy silty CLAY with occasional ironstone gravel.
		0.80	ES			(0.40)		
						1.00		*End of Trial Pit at 1.00m*

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP13

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP14

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.05	ES			(0.10) 0.10		Mid brown topsoil MADE GROUND with occasional flint gravel, brick and concrete
		0.25	ES			(0.40) 0.50		Grey brown clayey SUBSOIL with rootlets
						(0.50) 1.00		Firm to stiff orange and grey mottled slightly sandy silty CLAY with occasional ironstone gravel.
								End of Trial Pit at 1.00m

0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP14

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP15

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
						(0.20) 0.20		BLACKTOP Gravel.
		0.30	ES			(0.30) 0.50		Black clayey MADE GROUND with abundant brick
		0.90	ES			(0.50) 1.00		Mid brown to orange brown mottled silty CLAY
								End of Trial Pit at 1.00m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP15

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

Trial Pit

HP16

Sheet 1 of 1

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client

Consultant
SC

Contractor

Inst/ Backfill	Water Levels	Samples and Tests: Depth (m)	Samples and Tests: Type/ Ref	Samples and Tests: Results	Level (m)	Depth (thickness) (m)	Strata: Legend	Strata: Description
		0.10	ES			(0.10) 0.10		CONCRETE
						(0.10) 0.20		Brick SUB BASE
								Blue grey very silty alluvial CLAY
						(0.70)		
		0.80	ES			0.90		
						(0.10) 1.00		Firm to stiff orange and grey mottled slightly sandy silty CLAY with occasional ironstone gravel.
								End of Trial Pit at 1.00m

0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger
SC

Trial Pit

HP16

SUPPLEMENTARY INFO

Hole Type	Easting	Northing	Ground Level (m)	Scale
TP				1:25

Project Name	Project No.	Start Date	End Date
Lower Perrylands Farm	ON251025	2025-12-17	2025-12-17

Client	Consultant	Contractor
	SC	

Sample Details

Sample ID	Type	Water Level (m)	Remarks
	ES		
	ES		

Remarks

Method, Plant, Stability, Dimensions

0.00 - 1.00m TP Tracked Mini Excavator
Stable

Logger

SC

APPENDIX F – GEOTECHNICAL LABORATORY TEST RESULTS

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Tel: +44(0) 1923 892 190

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

Onyx Geo Consulting Ltd
46 Premier House
Victoria Road
Burgess Hill
West Sussex
RH15 9LR

23 May 2025
Report No : GEO/42505/01

For the attention of Mr A Carr

		Date samples received	08/05/2025
Our ref	**GEO / 42505**	Date written instructions received	07/05/2025
Your ref	**ON251030**	Date testing commenced	09/05/2025
Order ref	**ON251030**	**Date of sample disposal**	**20/06/2025**

Project **LOWER PERRYLAND FARM, DIAL POST**

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
~	5	Water Content
~	5	Liquid & Plastic Limits
2	~	Geochemical Test Summary
~	3	BRE SD1 Suite B - Natural ground + pyrite

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**

S Burke
Senior Technician

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

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	Test Type	Sample Condition
TP01	1.70		D	Yellowish brown mottled grey sandy CLAY.	25.9	63	27	36	100	CH	2	1
TP02	1.60		D	Yellowish brown mottled grey sandy CLAY.	21.0	48	22	26	100	CI	2	1
TP03	1.20		D	Yellowish brown mottled grey slightly gravelly sandy CLAY.	21.8	47	22	25	98	CI	2	1
TP05	1.90		D	Dark brown and grey slightly sandy CLAY with rare roots.	21.5	48	23	25	99	CI	2	1
TP08	1.10		D	Grey and red mottled yellowish brown sandy CLAY.	27.4	52	24	28	100	CH	2	1

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

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

Checked and Approved by:

S Burke

S Burke - Senior Technician
23/05/2025

Project Number:

GEO / 42505

Project Name:

LOWER PERRYLAND FARM, DIAL POST
ON251030

GEOLABS®
UKAS TESTING
1982

1240 - Chemical Test Summary - 42505.XLSM

SUMMARY OF CHEMICAL TESTS ON SOIL

Location	Depth m	Sample Ref	Sample Type	pH Value	Total Acid Soluble Sulphate as SO4 %	Water Soluble Sulphate as SO4 2:1 Water:Soil Extract mg/l	Total Sulphur %	Water Soluble Chloride mg/l	Water Soluble Nitrate mg/l	Magnesium mg/l	Organic Content %	Mass Loss on Ignition %	Carbonate Content %
TP01	2.60		D	7.7	8.0	2600	2.2	-	-	-	-	-	-
TP03	1.20		D	5.8	0.077	34	0.025	-	-	-	-	-	-
TP07	1.20		D	7.2	0.12	260	0.044	-	-	-	-	-	-

Tested by i2 Analytical : MCERTS / UKAS No 4041

Checked and Approved by:

S Burke

S Burke - Senior Technician
23/05/2025

Project Number:

GEO / 42505

Project Name:

LOWER PERRYLAND FARM, DIAL POST
ON251030

GEOLABS®

APPENDIX G – CHEMICAL LABORATORY TEST RESULTS

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e: adam.carr@onyxgeo.co.uk

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
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e: reception@i2analytical.com

Analytical Report Number : 25-023433

Replaces Analytical Report Number: 25-023433, issue no. 1
Result Correction by Laboratory and Additional Analysis undertaken as per clients request
Units corrected for all Pesticides (GC-MS) analysis on all samples by laboratory
Asbestos Quantification added to samples 538174 and 538176 as per clients request

Project / Site name:	Lower Perryland Farm, Dial Post	**Samples received on:**	08/05/2025
Your job number:	ON251030	**Samples instructed on/ Analysis started on:**	08/05/2025
Your order number:	ON251030	**Analysis completed by:**	21/05/2025
Report Issue Number:	2	**Report issued on:**	22/05/2025
Samples Analysed:	10 soil samples - 2 bulk samples		

Signed:

Caterina Bentley
Customer service Advisor
For & on behalf of i2 Analytical Ltd.

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

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

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

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting
air	- once the analysis is complete

Excel copies of reports are only valid when accompanied by this PDF certificate.

Retention period for records and reports is minimum 6 years from the date of issue of the final report.
Some records may be kept for longer according to other legal/best practice requirements.

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

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.

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538174	538175	538176	538177	538178
Sample Reference				TP01	TP01	TP02	TP02	TP03
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)				0.2	0.4	0.1	0.6	0.1
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
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	44.6	1.9	55.9	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	2.8	18	8.1	16	12
Total mass of sample received	kg	0.1	NONE	0.6	0.7	0.7	0.7	0.6

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Detected	Not-detected	Detected	Not-detected	-
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU	SPU	SPU	-
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025	15/05/2025	15/05/2025	-
Actinolite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Amosite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Chrysotile detected	Type	N/A	ISO 17025	Detected	-	Detected	-	-
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-
Tremolite detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	-	-

Asbestos % by hand picking/weighing	%	0.001	ISO 17025	< 0.001	-	0.173	-	-

Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Loose Fibres	-	Asbestos Cement	-	-

General Inorganics

pH (L099)	pH Units	N/A	MCERTS	9.6	8	9.8	8	-
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	3.7	2.3	1.5	0.2	-

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.12	< 0.05	-
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.38	< 0.05	-
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.63	< 0.05	-
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.78	< 0.05	-
Phenanthrene	mg/kg	0.05	MCERTS	0.06	0.07	7.7	< 0.05	-
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	2.6	< 0.05	-
Fluoranthene	mg/kg	0.05	MCERTS	0.13	0.2	19	< 0.05	-
Pyrene	mg/kg	0.05	MCERTS	0.15	0.18	18	< 0.05	-
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.07	0.1	9	< 0.05	-
Chrysene	mg/kg	0.05	MCERTS	0.07	0.13	8.3	< 0.05	-
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	0.19	0.15	9.5	< 0.05	-
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	0.05	0.07	4.6	< 0.05	-
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.16	0.12	9.8	< 0.05	-
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	0.14	0.08	4.7	< 0.05	-
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.1	< 0.05	-
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.2	0.12	5.3	< 0.05	-

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538174	538175	538176	538177	538178
Sample Reference				TP01	TP01	TP02	TP02	TP03
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)				0.2	0.4	0.1	0.6	0.1
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
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	1.22	1.23	102	< 0.80	-
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	5.8	14	6.8	29	-
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	0.3	0.5	0.6	< 0.2	-
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	< 1.8	< 1.8	< 1.8	-
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	16	27	14	33	-
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	17	13	18	-
Lead (aqua regia extractable)	mg/kg	1	MCERTS	24	38	22	27	-
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	-
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	11	16	11	30	-
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	1.1	1.1	1.7	5.9	-
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	97	340	300	80	-
Pesticides (GC-MS)								
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	-	-	-	< 10
Alachlor	µg/kg	10	NONE	-	-	-	-	< 10
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	-	-	-	< 10
Omethoate	µg/kg	10	NONE	-	-	-	-	< 10
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	-	-	-	< 10
Dimethylvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-O	µg/kg	10	NONE	-	-	-	-	< 10
Demeton-S	µg/kg	10	NONE	-	-	-	-	< 10
Endrin Aldehyde	µg/kg	10	NONE	-	-	-	-	< 10
Endrin Ketone	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobutadiene	µg/kg	10	NONE	-	-	-	-	< 10
Phosphamidon (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan sulfate	µg/kg	10	NONE	-	-	-	-	< 10
Etrimfos	µg/kg	10	NONE	-	-	-	-	< 10
Fenvalerate (Sum)	µg/kg	10	NONE	-	-	-	-	< 10
Hexachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Mevinphos, E+Z	µg/kg	10	NONE	-	-	-	-	< 10
Pentachlorobenzene	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10
Propetamphos	µg/kg	10	NONE	-	-	-	-	< 10
Tecnazene	µg/kg	10	NONE	-	-	-	-	< 10
Aldrin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Beta-BHC	µg/kg	10	NONE	-	-	-	-	< 10
Cis-Chlordane	µg/kg	10	NONE	-	-	-	-	< 10
Chlorfenvinphos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorpyrifos	µg/kg	10	NONE	-	-	-	-	< 10
Chlorothalonil	µg/kg	10	NONE	-	-	-	-	< 10
Carbophenothion	µg/kg	10	NONE	-	-	-	-	< 10
Delta-BHC	µg/kg	10	NONE	-	-	-	-	< 10
Dieldrin	µg/kg	10	NONE	-	-	-	-	< 10
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	-	-	-	< 10
Endrin	µg/kg	10	NONE	-	-	-	-	< 10

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538174	538175	538176	538177	538178
Sample Reference				TP01	TP01	TP02	TP02	TP03
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)				0.2	0.4	0.1	0.6	0.1
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	-	-	-	< 10
Fenthion	µg/kg	10	NONE	-	-	-	-	< 10
Isodrin	µg/kg	10	NONE	-	-	-	-	< 10
Methacrifos	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDD	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDE	µg/kg	10	NONE	-	-	-	-	< 10
O,p'-DDT	µg/kg	10	NONE	-	-	-	-	< 10
Parathion	µg/kg	10	NONE	-	-	-	-	< 10
Parathion-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Phorate	µg/kg	10	NONE	-	-	-	-	< 10
Phosalone	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDD	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDE	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-DDT	µg/kg	10	NONE	-	-	-	-	< 10
P,p'-Methoxychlor	µg/kg	10	NONE	-	-	-	-	< 10
Triazophos	µg/kg	10	NONE	-	-	-	-	< 10
Trans-Chlordane	µg/kg	10	NONE	-	-	-	-	< 10
Dichlorvos	µg/kg	10	NONE	-	-	-	-	< 10
Dimethoate	µg/kg	10	NONE	-	-	-	-	< 10
Diazinon	µg/kg	10	NONE	-	-	-	-	< 10
Ethion	µg/kg	10	NONE	-	-	-	-	< 10
Fenitrothion	µg/kg	10	NONE	-	-	-	-	< 10
Malathion	µg/kg	10	NONE	-	-	-	-	< 10
Pirimiphos-methyl	µg/kg	10	NONE	-	-	-	-	< 10
Trifluralin	µg/kg	10	NONE	-	-	-	-	< 10
Azinphos-ethyl	µg/kg	10	NONE	-	-	-	-	< 10

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

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538179	538180	538181	538182	538184
Sample Reference				TP04	TP05	TP06	TP07	Surface Sample 2
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)				0.2	0.15	0.3	0.25	None Supplied
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
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	10.9	60.8
Moisture Content	%	0.01	NONE	16	16	14	11	7.7
Total mass of sample received	kg	0.1	NONE	0.7	0.6	0.7	0.6	0.7
Asbestos								
Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected	-	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	-	SPU	SPU	SPU
Analysis completed	N/A	N/A	N/A	15/05/2025	-	15/05/2025	15/05/2025	15/05/2025
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	6.9	-	7.5	7.7	8.2
Total Organic Carbon (TOC) - Automated	%	0.1	MCERTS	2.3	-	1.9	3.2	1.6
Speciated PAHs								
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.05	< 0.05
Anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.05	-	< 0.05	0.13	< 0.05
Pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.12	< 0.05
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.08	< 0.05
Chrysene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.1	< 0.05
Benzo(b)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	0.14	< 0.05
Benzo(k)fluoranthene	mg/kg	0.05	ISO 17025	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.13	< 0.05
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.11	< 0.05
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	-	< 0.05	0.12	< 0.05

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The results included within the report relate only to the sample(s) submitted for testing.

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538179	538180	538181	538182	538184
Sample Reference				TP04	TP05	TP06	TP07	Surface Sample 2
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)				0.2	0.15	0.3	0.25	None Supplied
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
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	0.97	< 0.80
Heavy Metals / Metalloids								
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14	-	13	9.9	1.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	-	< 0.2	0.4	< 0.2
Chromium (hexavalent)	mg/kg	1.8	MCERTS	< 1.8	-	< 1.8	< 1.8	< 1.8
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	-	25	17	4.2
Copper (aqua regia extractable)	mg/kg	1	MCERTS	19	-	17	14	10
Lead (aqua regia extractable)	mg/kg	1	MCERTS	31	-	25	29	6.1
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	-	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	16	-	17	11	3.1
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	-	2.3	< 1.0	< 1.0
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	76	-	69	99	37
Pesticides (GC-MS)								
Alpha-BHC (Benzene Hexachloride)	µg/kg	10	NONE	-	< 10	-	-	-
Alachlor	µg/kg	10	NONE	-	< 10	-	-	-
Gamma-BHC (Lindane, gamma HCH)	µg/kg	10	NONE	-	< 10	-	-	-
Omethoate	µg/kg	10	NONE	-	< 10	-	-	-
1,2,3-Trichlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
1,3,5-Trichlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
2,6-Dichlorobenzonitrile	µg/kg	10	NONE	-	< 10	-	-	-
Dimethylvinphos	µg/kg	10	NONE	-	< 10	-	-	-
Demeton-O	µg/kg	10	NONE	-	< 10	-	-	-
Demeton-S	µg/kg	10	NONE	-	< 10	-	-	-
Endrin Aldehyde	µg/kg	10	NONE	-	< 10	-	-	-
Endrin Ketone	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobutadiene	µg/kg	10	NONE	-	< 10	-	-	-
Phosphamidon (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
1,2,4,5-Tetrachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan sulfate	µg/kg	10	NONE	-	< 10	-	-	-
Etrimfos	µg/kg	10	NONE	-	< 10	-	-	-
Fenvalerate (Sum)	µg/kg	10	NONE	-	< 10	-	-	-
Hexachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Mevinphos, E+Z	µg/kg	10	NONE	-	< 10	-	-	-
Pentachlorobenzene	µg/kg	10	NONE	-	< 10	-	-	-
Pirimiphos-ethyl	µg/kg	10	NONE	-	< 10	-	-	-
Propetamphos	µg/kg	10	NONE	-	< 10	-	-	-
Tecnazene	µg/kg	10	NONE	-	< 10	-	-	-
Aldrin	µg/kg	10	NONE	-	< 10	-	-	-
Azinphos-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Beta-BHC	µg/kg	10	NONE	-	< 10	-	-	-
Cis-Chlordane	µg/kg	10	NONE	-	< 10	-	-	-
Chlorfenvinphos	µg/kg	10	NONE	-	< 10	-	-	-
Chlorpyrifos	µg/kg	10	NONE	-	< 10	-	-	-
Chlorothalonil	µg/kg	10	NONE	-	< 10	-	-	-
Carbophenothion	µg/kg	10	NONE	-	< 10	-	-	-
Delta-BHC	µg/kg	10	NONE	-	< 10	-	-	-
Dieldrin	µg/kg	10	NONE	-	< 10	-	-	-
Heptachlor Exo-epoxide	µg/kg	10	NONE	-	< 10	-	-	-
Endrin	µg/kg	10	NONE	-	< 10	-	-	-

Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538179	538180	538181	538182	538184
Sample Reference				TP04	TP05	TP06	TP07	Surface Sample 2
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)				0.2	0.15	0.3	0.25	None Supplied
Date Sampled				06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**					
Endosulfan I (alpha isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Endosulfan II (beta isomer)	µg/kg	10	NONE	-	< 10	-	-	-
Fenthion	µg/kg	10	NONE	-	< 10	-	-	-
Isodrin	µg/kg	10	NONE	-	< 10	-	-	-
Methacrifos	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDD	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDE	µg/kg	10	NONE	-	< 10	-	-	-
O,p'-DDT	µg/kg	10	NONE	-	< 10	-	-	-
Parathion	µg/kg	10	NONE	-	< 10	-	-	-
Parathion-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Phorate	µg/kg	10	NONE	-	< 10	-	-	-
Phosalone	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDD	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDE	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-DDT	µg/kg	10	NONE	-	< 10	-	-	-
P,p'-Methoxychlor	µg/kg	10	NONE	-	< 10	-	-	-
Triazophos	µg/kg	10	NONE	-	< 10	-	-	-
Trans-Chlordane	µg/kg	10	NONE	-	< 10	-	-	-
Dichlorvos	µg/kg	10	NONE	-	< 10	-	-	-
Dimethoate	µg/kg	10	NONE	-	< 10	-	-	-
Diazinon	µg/kg	10	NONE	-	< 10	-	-	-
Ethion	µg/kg	10	NONE	-	< 10	-	-	-
Fenitrothion	µg/kg	10	NONE	-	< 10	-	-	-
Malathion	µg/kg	10	NONE	-	< 10	-	-	-
Pirimiphos-methyl	µg/kg	10	NONE	-	< 10	-	-	-
Trifluralin	µg/kg	10	NONE	-	< 10	-	-	-
Azinphos-ethyl	µg/kg	10	NONE	-	< 10	-	-	-

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

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Analytical Report Number: 25-023433
Project / Site name: Lower Perryland Farm, Dial Post
Your Order No: ON251030

Lab Sample Number				538183	538185
Sample Reference				Surface Sample	TP01 Suspect ACM ID
Sample Number				None Supplied	None Supplied
Water Matrix				N/A	N/A
Depth (m)				None Supplied	None Supplied
Date Sampled				06/05/2025	06/05/2025
Time Taken				None Supplied	None Supplied
Analytical Parameter (Bulk Analysis)	**Units**	**Test Limit of detection**	**Test Accreditation Status**		
Asbestos					
Asbestos in bulks	Type	N/A	ISO 17025	Detected	Detected
Asbestos Analyst ID	N/A	N/A	N/A	SPU	SPU
Analysis completed	N/A	N/A	N/A	15/05/2025	15/05/2025
Actinolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Amosite detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Anthophyllite detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Chrysotile detected	Type	N/A	ISO 17025	Detected	Detected
Crocidolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Tremolite detected	Type	N/A	ISO 17025	Not-detected	Not-detected
Asbestos Containing Material Types Detected (ACM)	Type	N/A	ISO 17025	Asbestos Cement	Asbestos Cement

U/S = Unsuitable Sample I/S = Insufficient Sample

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The results included within the report relate only to the sample(s) submitted for testing.

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Analytical Report Number: **25-023433**
Project / Site name: **Lower Perryland Farm, Dial Post**
Your Order No: **ON251030**

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
538174	TP01	0.20-	230	Loose Fibres	**Chrysotile**	< 0.001	**< 0.001**	21/05/2025	SPU
538176	TP02	0.10-	182	Asbestos Cement	**Chrysotile**	0.173	**0.173**	21/05/2025	SPU

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 : 25-023433
Project / Site name: Lower Perryland Farm, Dial Post

* 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 *
538174	TP01	None Supplied	0.2	Brown loam and sand with gravel and stones
538175	TP01	None Supplied	0.4	Brown clay and sand with gravel and stones
538176	TP02	None Supplied	0.1	Brown loam and sand with gravel and stones
538177	TP02	None Supplied	0.6	Brown clay and sand with gravel
538178	TP03	None Supplied	0.1	Brown clay and loam with gravel
538179	TP04	None Supplied	0.2	Brown clay and loam with gravel
538180	TP05	None Supplied	0.15	Brown loam and clay with gravel and vegetation
538181	TP06	None Supplied	0.3	Brown clay and loam with gravel
538182	TP07	None Supplied	0.25	Brown loam and sand with gravel and stones
538184	Surface Sample 1	None Supplied	None Supplied	Beige loam and sand with chalk and stones

Analytical Report Number : 25-023433
Project / Site name: Lower Perryland Farm, Dial Post

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
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
Total organic carbon (Automated) in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate (Walkley Black Method)	In-house method	L009B	D	MCERTS
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
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
Pesticides by GC-MS/MS	Detemination of Pesticides in soil by GC MS/MS	In-house method	L055B	W	NONE
Asbestos identification in Bulks	Asbestos Identification in bulk material with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	W	ISO 17025

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

Certificate of Analysis

Certificate Number	25-29832	*Issued:*	08-Jan-26

Client Onyx Geo Consulting Ltd
Sussex Innovation Centre
Science Park Square
Brighton
BN1 9SB

Our Reference	25-29832
Client Reference ~	ON251025
Order No ~	(not supplied)
Contract Title ~	Lower Perrylands Farm, Dial Post
Description	32 Soil samples.
Date Received	19-Dec-25
Date Started	19-Dec-25
Date Completed	08-Jan-26
Test Procedures	Identified by prefix DETSn (details on request).

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

Approved By

Reyhan Irfan
Operations Manager

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Summary of Chemical Analysis
Matrix Descriptions

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

Sample ID	Depth	Lab No	Completed	Matrix Description
HP1	0.2	2618982	08/01/2026	Brown sandy CLAY
HP1	0.4	2618983	08/01/2026	Brown slightly gravelly, sandy CLAY
HP2	0.1	2618984	08/01/2026	Brown slightly gravelly, sandy CLAY
HP2	0.3	2618985	08/01/2026	Brown sandy CLAY
HP3	0.01	2618986	08/01/2026	Brown sandy CLAY
HP3	0.2	2618987	08/01/2026	Brown sandy CLAY
HP4	0.1	2618988	08/01/2026	Brown sandy CLAY
HP4	0.3	2618989	08/01/2026	Brown sandy CLAY including some rootlets
HP5	0.01	2618990	08/01/2026	Brown sandy CLAY including some rootlets
HP5	0.25	2618991	08/01/2026	Brown sandy CLAY including some rootlets
HP6	0.05	2618992	08/01/2026	Brown sandy CLAY including some rootlets
HP6	0.25	2618993	08/01/2026	Brown sandy CLAY including some rootlets
HP7	0.05	2618994	08/01/2026	Brown sandy CLAY
HP7	0.25	2618995	08/01/2026	Brown sandy CLAY
HP8	0.05	2618996	08/01/2026	Brown sandy CLAY
HP8	0.2	2618997	08/01/2026	Brown sandy CLAY
HP9	0.25	2618998	08/01/2026	Brown very gravelly, clayey SAND
HP9	0.5	2618999	08/01/2026	Brown sandy CLAY
HP10	0.1	2619000	08/01/2026	Brown sandy CLAY
HP10	0.3	2619001	08/01/2026	Brown sandy CLAY
HP11	0.05	2619002	08/01/2026	Brown sandy CLAY
HP11	0.3	2619003	08/01/2026	Brown sandy CLAY
HP12	0.1	2619004	08/01/2026	Brown sandy CLAY including some rootlets
HP12	0.8	2619005	08/01/2026	Brown sandy CLAY
HP13	0.5	2619006	08/01/2026	Brown sandy CLAY
HP13	0.8	2619007	08/01/2026	Brown sandy CLAY
HP14	0.05	2619008	08/01/2026	Brown gravelly, sandy CLAY
HP14	0.25	2619009	08/01/2026	Brown gravelly, sandy CLAY
HP15	0.3	2619010	08/01/2026	Brown gravelly, sandy CLAY
HP15	0.9	2619011	08/01/2026	Brown sandy CLAY
HP16	0.1	2619012	08/01/2026	Brown sandy CLAY
HP16	0.8	2619013	08/01/2026	Brown sandy CLAY

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2618982	2618983	2618984	2618985	2618986	2618987
			Sample ID ~	HP1	HP1	HP2	HP2	HP3	HP3
			Depth ~	0.20	0.40	0.10	0.30	0.01	0.20
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	25	25	19	20	36	28
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	23	12	17	18	6.4	12
Cadmium	DETSC 2301#	0.1	mg/kg	0.4	0.3	0.2	< 0.1	0.2	0.2
Chromium	DETSC 2301#	0.15	mg/kg	23	23	23	31	13	19
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	22	32	17	22	12	16
Lead	DETSC 2301#	0.3	mg/kg	42	35	24	16	15	24
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	14	18	16	16	7.7	12
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	150	92	78	59	78	84
Inorganics									
pH	DETSC 2008#		pH	8.4	7.6	7.9	7.7	7.2	7.0
Total Organic Carbon	DETSC 2084#	0.5	%	3.6	3.6	1.9	0.6	7.7	4.0
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.05	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.06	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.04	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	0.34	< 0.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2618988	2618989	2618990	2618991	2618992	2618993
			Sample ID ~	HP4	HP4	HP5	HP5	HP6	HP6
			Depth ~	0.10	0.30	0.01	0.25	0.05	0.25
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	27	21	23	23	26	24
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	13	20	14	12	13	16
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.3	0.2	0.2	0.2	0.3
Chromium	DETSC 2301#	0.15	mg/kg	23	27	25	20	24	29
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	16	16	17	14	18	20
Lead	DETSC 2301#	0.3	mg/kg	43	26	27	23	29	30
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	14	18	16	13	15	21
Selenium	DETSC 2301#	0.5	mg/kg	0.7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	210	170	66	57	87	85
Inorganics									
pH	DETSC 2008#		pH	6.5	6.7	6.7	6.6	6.8	7.2
Total Organic Carbon	DETSC 2084#	0.5	%	4.2	1.9	2.2	2.3	3.6	2.5
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2618994	2618995	2618996	2618997	2618998	2618999
			Sample ID ~	HP7	HP7	HP8	HP8	HP9	HP9
			Depth ~	0.05	0.25	0.05	0.20	0.25	0.50
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	29	25	23	24	17	18
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	13	16	13	14	0.8	9.8
Cadmium	DETSC 2301#	0.1	mg/kg	0.3	0.3	0.2	0.2	0.1	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	22	24	21	26	1.6	28
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	19	20	15	19	5.9	21
Lead	DETSC 2301#	0.3	mg/kg	46	31	26	32	3.5	13
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	13	15	12	15	1.5	11
Selenium	DETSC 2301#	0.5	mg/kg	0.7	0.7	0.5	0.6	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	77	67	52	62	45	38
Inorganics									
pH	DETSC 2008#		pH	7.3	7.1	6.6	6.7	7.4	7.5
Total Organic Carbon	DETSC 2084#	0.5	%	4.0	2.8	2.1	2.3	8.3	< 0.5
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	1.8	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	21	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	1.4	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	1.4	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	3.7	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	0.48	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.30	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	30	< 0.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2619000	2619001	2619002	2619003	2619004	2619005
			Sample ID ~	HP10	HP10	HP11	HP11	HP12	HP12
			Depth ~	0.10	0.30	0.05	0.30	0.10	0.80
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	26	21	31	20	7.4	18
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	12	15	16	16	2.6	14
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	0.2	0.3	0.3	0.2	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	19	24	24	25	9.1	23
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	16	18	22	19	10	13
Lead	DETSC 2301#	0.3	mg/kg	29	31	35	36	8.2	20
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Nickel	DETSC 2301#	1	mg/kg	13	16	15	16	6.6	15
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.5
Zinc	DETSC 2301#	1	mg/kg	130	70	100	93	32	57
Inorganics									
pH	DETSC 2008#		pH	7.0	6.8	6.9	6.5	9.3	7.8
Total Organic Carbon	DETSC 2084#	0.5	%	3.3	2.1	5.1	2.0	3.1	0.7
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.60	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2619006	2619007	2619008	2619009	2619010	2619011
			Sample ID ~	HP13	HP13	HP14	HP14	HP15	HP15
			Depth ~	0.50	0.80	0.05	0.25	0.30	0.90
			Other ID ~						
			Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s
Test	**Method**	**LOD**	**Units**						
Preparation									
Moisture Content	DETSC 1004	0.1	%	15	21	20	19	19	18
Metals									
Arsenic	DETSC 2301#	0.2	mg/kg	5.7	22	11	12	12	20
Cadmium	DETSC 2301#	0.1	mg/kg	0.2	< 0.1	0.9	0.5	0.6	< 0.1
Chromium	DETSC 2301#	0.15	mg/kg	12	27	20	21	23	31
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	13	18	39	29	46	26
Lead	DETSC 2301#	0.3	mg/kg	11	15	56	59	70	15
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	< 0.05	< 0.05	0.09	0.07	< 0.05
Nickel	DETSC 2301#	1	mg/kg	6.7	16	14	15	19	14
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	0.5	< 0.5	1.0	0.6	< 0.5
Zinc	DETSC 2301#	1	mg/kg	62	60	290	150	240	52
Inorganics									
pH	DETSC 2008#		pH	9.3	7.7	8.0	7.8	7.8	7.8
Total Organic Carbon	DETSC 2084#	0.5	%	1.3	< 0.5	6.2	4.5	5.5	0.6
PAHs									
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.23	< 0.03	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.24	< 0.03	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.14	< 0.03	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.54	0.07	< 0.03	< 0.03
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03	0.36	0.04	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	1.0	0.16	0.07	< 0.03
Pyrene	DETSC 3303#	0.03	mg/kg	0.05	< 0.03	0.98	0.16	0.07	< 0.03
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.81	0.12	0.04	< 0.03
Chrysene	DETSC 3303	0.03	mg/kg	0.03	< 0.03	0.66	0.10	0.05	< 0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	0.04	< 0.03	1.8	0.22	0.06	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.58	0.07	< 0.03	< 0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	1.8	0.19	0.05	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	2.1	0.23	0.04	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	0.54	0.06	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03	2.9	0.33	0.07	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	0.13	< 0.10	15	1.8	0.41	< 0.10

Summary of Chemical Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

			Lab No	2619012	2619013
			Sample ID ~	HP16	HP16
			Depth ~	0.10	0.80
			Other ID ~		
			Sample Type ~	SOIL	SOIL
			Sampling Date ~	17/12/2025	17/12/2025
			Sampling Time ~	n/s	n/s
Test	**Method**	**LOD**	**Units**		
Preparation					
Moisture Content	DETSC 1004	0.1	%	20	32
Metals					
Arsenic	DETSC 2301#	0.2	mg/kg	24	22
Cadmium	DETSC 2301#	0.1	mg/kg	0.1	0.4
Chromium	DETSC 2301#	0.15	mg/kg	38	20
Chromium, Hexavalent	DETSC 2204*	1	mg/kg	< 1.0	< 1.0
Copper	DETSC 2301#	0.2	mg/kg	37	29
Lead	DETSC 2301#	0.3	mg/kg	20	33
Mercury	DETSC 2325#	0.05	mg/kg	< 0.05	0.06
Nickel	DETSC 2301#	1	mg/kg	30	22
Selenium	DETSC 2301#	0.5	mg/kg	< 0.5	< 0.5
Zinc	DETSC 2301#	1	mg/kg	79	140
Inorganics					
pH	DETSC 2008#		pH	7.9	7.9
Total Organic Carbon	DETSC 2084#	0.5	%	0.5	10
PAHs					
Naphthalene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Acenaphthylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Acenaphthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Fluorene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Phenanthrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.05
Anthracene	DETSC 3303	0.03	mg/kg	< 0.03	< 0.03
Fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.08
Pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	0.07
Benzo(a)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03
Chrysene	DETSC 3303	0.03	mg/kg	< 0.03	0.03
Benzo(b)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Benzo(k)fluoranthene	DETSC 3303#	0.03	mg/kg	< 0.03	0.03
Benzo(a)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Indeno(1,2,3-c,d)pyrene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Dibenzo(a,h)anthracene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
Benzo(g,h,i)perylene	DETSC 3303#	0.03	mg/kg	< 0.03	< 0.03
PAH - USEPA 16, Total	DETSC 3303	0.1	mg/kg	< 0.10	0.20

Summary of Asbestos Analysis
Soil Samples

Our Ref 25-29832
Client Ref ~ ON251025
Contract Title ~ Lower Perrylands Farm, Dial Post

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2618982	HP1 0.20	SOIL	NAD	none	Steven Lambert
2618983	HP1 0.40	SOIL	NAD	none	Steven Lambert
2618984	HP2 0.10	SOIL	NAD	none	Steven Lambert
2618985	HP2 0.30	SOIL	NAD	none	Steven Lambert
2618986	HP3 0.01	SOIL	NAD	none	Steven Lambert
2618987	HP3 0.20	SOIL	NAD	none	Steven Lambert
2618988	HP4 0.10	SOIL	NAD	none	Steven Lambert
2618989	HP4 0.30	SOIL	NAD	none	Steven Lambert
2618990	HP5 0.01	SOIL	NAD	none	Steven Lambert
2618991	HP5 0.25	SOIL	NAD	none	Steven Lambert
2618992	HP6 0.05	SOIL	NAD	none	Steven Lambert
2618993	HP6 0.25	SOIL	NAD	none	Steven Lambert
2618994	HP7 0.05	SOIL	NAD	none	Steven Lambert
2618995	HP7 0.25	SOIL	NAD	none	Steven Lambert
2618996	HP8 0.05	SOIL	NAD	none	Steven Lambert
2618997	HP8 0.20	SOIL	NAD	none	Steven Lambert
2618998	HP9 0.25	SOIL	NAD	none	Steven Lambert
2618999	HP9 0.50	SOIL	NAD	none	Steven Lambert
2619000	HP10 0.10	SOIL	NAD	none	Steven Lambert
2619001	HP10 0.30	SOIL	NAD	none	Steven Lambert
2619002	HP11 0.05	SOIL	NAD	none	Steven Lambert
2619003	HP11 0.30	SOIL	NAD	none	Steven Lambert
2619004	HP12 0.10	SOIL	NAD	none	Steven Lambert
2619005	HP12 0.80	SOIL	NAD	none	Steven Lambert
2619006	HP13 0.50	SOIL	NAD	none	Steven Lambert
2619007	HP13 0.80	SOIL	NAD	none	Steven Lambert
2619008	HP14 0.05	SOIL	NAD	none	Steven Lambert
2619009	HP14 0.25	SOIL	NAD	none	Steven Lambert
2619010	HP15 0.30	SOIL	NAD	none	Steven Lambert
2619011	HP15 0.90	SOIL	NAD	none	Steven Lambert
2619012	HP16 0.10	SOIL	NAD	none	Steven Lambert
2619013	HP16 0.80	SOIL	NAD	none	Steven Lambert

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref 25-29832
Client Ref ~ ON251025
Contract ~ Lower Perrylands Farm, Dial Post

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2618982	HP1 0.20 SOIL	17/12/25	GJ 250ml, PT 500ml		
2618983	HP1 0.40 SOIL	17/12/25	GJ 250ml, PT 1L		
2618984	HP2 0.10 SOIL	17/12/25	GJ 250ml, PT 1L		
2618985	HP2 0.30 SOIL	17/12/25	GJ 250ml, PT 1L		
2618986	HP3 0.01 SOIL	17/12/25	GJ 250ml, PT 1L		
2618987	HP3 0.20 SOIL	17/12/25	GJ 250ml, PT 1L		
2618988	HP4 0.10 SOIL	17/12/25	GJ 250ml, PT 500ml		
2618989	HP4 0.30 SOIL	17/12/25	GJ 250ml		
2618990	HP5 0.01 SOIL	17/12/25	GJ 250ml, PT 1L		
2618991	HP5 0.25 SOIL	17/12/25	GJ 250ml, PT 1L		
2618992	HP6 0.05 SOIL	17/12/25	GJ 250ml, PT 1L		
2618993	HP6 0.25 SOIL	17/12/25	GJ 250ml, PT 1L		
2618994	HP7 0.05 SOIL	17/12/25	GJ 250ml		
2618995	HP7 0.25 SOIL	17/12/25	GJ 250ml		
2618996	HP8 0.05 SOIL	17/12/25	GJ 250ml, PT 1L		
2618997	HP8 0.20 SOIL	17/12/25	GJ 250ml, PT 1L		
2618998	HP9 0.25 SOIL	17/12/25	GJ 250ml, PT 1L		
2618999	HP9 0.50 SOIL	17/12/25	GJ 250ml, PT 1L		
2619000	HP10 0.10 SOIL	17/12/25	GJ 250ml, PT 1L		
2619001	HP10 0.30 SOIL	17/12/25	GJ 250ml, PT 1L		
2619002	HP11 0.05 SOIL	17/12/25	GJ 250ml, PT 1L		
2619003	HP11 0.30 SOIL	17/12/25	GJ 250ml		
2619004	HP12 0.10 SOIL	17/12/25	GJ 250ml		
2619005	HP12 0.80 SOIL	17/12/25	GJ 250ml		
2619006	HP13 0.50 SOIL	17/12/25	GJ 250ml		
2619007	HP13 0.80 SOIL	17/12/25	GJ 250ml		
2619008	HP14 0.05 SOIL	17/12/25	GJ 250ml		
2619009	HP14 0.25 SOIL	17/12/25	GJ 250ml		
2619010	HP15 0.30 SOIL	17/12/25	GJ 250ml, PT 1L		
2619011	HP15 0.90 SOIL	17/12/25	GJ 250ml		
2619012	HP16 0.10 SOIL	17/12/25	GJ 250ml, PT 1L		
2619013	HP16 0.80 SOIL	17/12/25	GJ 250ml		

Key: G-Glass P-Plastic J-Jar T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Information in Support of the Analytical Results

Our Ref 25-29832
Client Ref ~ ON251025
Contract ~ Lower Perrylands Farm, Dial Post

Soil Analysis Notes

Inorganic soil analysis was carried out on a dried sample, crushed to pass a 250µm sieve
Organic soil analysis was carried out on an 'as received' sample. Organics results are corrected for moisture and expressed on a dry weight basis.
The Loss on Drying, used to express organics analysis on an air dried basis, is carried out at a temperature of 28°C +/-2°C.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 2002	Organic matter	%	0.1	Air Dried	No	Yes	Yes
DETSC 2003	Loss on ignition	%	0.01	Air Dried	No	Yes	Yes
DETSC 2008	pH	pH Units	1	Air Dried	No	Yes	Yes
DETSC 2076	Sulphate Aqueous Extract as SO4	mg/l	10	Air Dried	No	Yes	Yes
DETSC 2084	Total Organic Carbon	%	0.5	Air Dried	No	Yes	Yes
DETSC 2119	Ammoniacal Nitrogen as N	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide free	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Cyanide total	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2130	Phenol - Monohydric	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC 2130	Thiocyanate	mg/kg	0.6	Air Dried	No	Yes	Yes
DETSC 2301	Arsenic	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC 2301	Barium	mg/kg	1.5	Air Dried	No	Yes	Yes
DETSC 2301	Beryllium	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC 2301	Cadmium Available	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2301	Cadmium	mg/kg	0.1	Air Dried	No	Yes	Yes
DETSC 2301	Cobalt	mg/kg	0.7	Air Dried	No	Yes	Yes
DETSC 2301	Chromium	mg/kg	0.15	Air Dried	No	Yes	Yes
DETSC 2301	Copper	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC 2301	Manganese	mg/kg	20	Air Dried	No	Yes	Yes
DETSC 2301	Molybdenum	mg/kg	0.4	Air Dried	No	Yes	Yes
DETSC 2301	Nickel	mg/kg	1	Air Dried	No	Yes	Yes
DETSC 2301	Lead	mg/kg	0.3	Air Dried	No	Yes	Yes
DETSC 2301	Selenium	mg/kg	0.5	Air Dried	No	Yes	Yes
DETSC 2301	Zinc	mg/kg	1	Air Dried	No	Yes	Yes
DETSC 2311	Boron (water soluble)	mg/kg	0.2	Air Dried	No	Yes	Yes
DETSC 2321	Total Sulphate as SO4	%	0.01	Air Dried	No	Yes	Yes
DETSC 2325	Mercury	mg/kg	0.05	Air Dried	No	Yes	Yes
DETSC 3049	Sulphur (free)	mg/kg	0.75	As Received	No	Yes	Yes
DETSC 3072	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3072	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETSC 3072	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3072	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETSC 3072	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETSC 3072	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes
DETSC 3303	Acenaphthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Acenaphthylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(a)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(b)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(k)fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Benzo(g,h,i)perylene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Dibenzo(a,h)anthracene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Fluoranthene	mg/kg	0.03	As Received	No	Yes	Yes

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS
DETSC 3303	Indeno(1,2,3-c,d)pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Naphthalene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Phenanthrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3303	Pyrene	mg/kg	0.03	As Received	No	Yes	Yes
DETSC 3311	C10-C24 Diesel Range Organics (DRO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	C24-C40 Lube Oil Range Organics (LORO)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3311	EPH (C10-C40)	mg/kg	10	As Received	No	Yes	Yes
DETSC 3321	Benzene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Ethylbenzene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Toluene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	m+p Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3321	o Xylene	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 28 + PCB 31	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 52	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 101	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 118	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 153	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 138	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB 180	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3401	PCB Total	mg/kg	0.01	As Received	No	Yes	Yes
DETSC 3521	Ali/Aro C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C10-C12	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C12-C16	mg/kg	1.2	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C16-C21	mg/kg	1.5	As Received	No	Yes	Yes
DETSC 3521	Aliphatic C21-C35	mg/kg	3.4	As Received	No	Yes	Yes
DETSC 3521	Aromatic C10-C12	mg/kg	0.9	As Received	No	Yes	Yes
DETSC 3521	Aromatic C10-C35	mg/kg	10	As Received	No	Yes	Yes
DETSC 3521	Aromatic C12-C16	mg/kg	0.5	As Received	No	Yes	Yes
DETSC 3521	Aromatic C16-C21	mg/kg	0.6	As Received	No	Yes	Yes
DETSC 3521	Aromatic C21-C35	mg/kg	1.4	As Received	No	Yes	Yes

Method details are shown only for those determinands listed in Annex A of the MCERTS standard. Anything not included on this list falls outside the scope of MCERTS. No Recovery Factors are used in the determination of results. Results reported assume 100% recovery. Full method statements are available on request.

Appendix A - Details of Analysis

Method	Parameter	Units	Limit of Detection	Sample Preparation	Sub-Contracted	UKAS	MCERTS

Key:
~ Sample details are provided by the client and can affect the validity of the results
***** -not accredited.
# -MCERTS (accreditation only applies if report carries the MCERTS logo).
$ -subcontracted.
n/s -not supplied.
I/S -insufficient sample.
U/S -unsuitable sample.
t/f -to follow.
nd -not detected.

End of Report

Site name: Lower Pierrynand Farm, Dial Post
Project No: ON.231030

Sample Reference						TP01	TP01	TP02	TP02	TP03	TP04	TP05	TP06	TP07	Surface Sample 2	Surface Sample	TP01 Subject AOPC 10	HP1	HP1	HP2	HP2	HP3	HP3	HP4	HP4	HP5	HP5	HP6	HP6	HP7	HP7	HP8	HP8	HP9	HP9	HP10	HP10	HP11	HP11	HP12	HP12	HP13	HP13	HP14	HP14	HP15	HP15	HP16	HP16
Sample Number						None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)						0.2	0.4	0.1	0.6	0.1	0.2	0.15	0.3	0.25	None Supplied	None Supplied	None Supplied	0.20	0.40	0.10	0.30	0.05	0.20	0.10	0.30	0.01	0.25	0.05	0.25	0.05	0.35	0.05	0.20	0.25	0.50	0.10	0.30	0.05	0.30	0.10	0.90	0.60	0.90	0.10	0.80	0.25	0.50	0.90	0.10	0.80
Date Sampled						06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	06/05/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025	17/12/2025
Soil Type						Made Ground	Clay	Made Ground	Clay	Topsoil	Topsoil	Topsoil	Subsoil	Made Ground	Made Ground	Cement Augment	Cement Augment	Made Ground	Subsoil	Topsoil	Subsoil	Topsoil	Clay	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Subsoil	Topsoil	Clay	Topsoil	Clay	Topsoil	Subsoil	Made ground	Clay	Made ground	Clay	Made ground	Clay	Made ground	Clay	Made ground	Clay

| Analytical Parameter | Units | Method Reference | Accreditation Status | Accreditation Criteria | Quantitative Assessment Criteria | | | | | |


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