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# GEO-ENVIRONMENTAL AND GEOTECHNICAL GROUND INVESTIGATION REPORT

FOR

SYTNER GROUP PORSCHE,  
MID SUSSEX,  
SAYERS COMMON.

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## **PREFACE**

- a) The comments given in this report and the opinions expressed are based on the ground conditions encountered during the site work and on the results of tests made in the field and laboratory. However, there may be conditions prevailing at the site which have not been identified by the investigation and which have not been taken into account in the report. Accordingly, a careful watch should be maintained in any future groundworks and the findings and recommendations of this report reviewed. If necessary, as works proceeds.
- b) The comments on groundwater conditions are based on observations made at the time of the site work was undertaken, including the short period of monitoring. It should be noted that groundwater levels vary owing to seasonal and other effects.

## 1.0 INTRODUCTION

Sytner Group Porsche, the client, is considering the re-development of a site to the north of Sayers Common, Mid Sussex.

The development of the site includes the following:

- Demolition of all existing buildings
- Construction of new dealership buildings and associated infrastructure

It is not envisaged that there will be any need to significantly alter ground levels to facilitate development.

Rolton Group Limited (RGL) was appointed by the client to undertake a Phase 2 investigation to update the Conceptual Site Model (CSM) and coordinate intrusive investigations at the site for the purposes of assessing geotechnical properties and contamination status of the ground to provide soil parameters to aid in the design of foundations, ground floors and infrastructure and any remedial requirements for the end users. This report presents the findings of the investigation works undertaken, presenting the findings together with an interpretation of the ground conditions.

The intrusive investigations were carried out in general accordance with the procedures and recommendations of British Standard BS 5930:2015+A1 2020, Code of Practice for Site Investigations (ref. 8.1) including associated standards such as BS 10175-2011+A2-2017 - Investigation of Potentially Contaminated Sites - Code of Practice (ref. 8.2).

This report does not generally consider the potential presence of invasive plant species such as Japanese Knotweed or protected flora and fauna (including newts and badgers) unless specifically stated otherwise.

Previous reporting available for the site consists of a Phase 1 Desk Study report:

- Stantec Phase 1 Ground Conditions Assessment report ref. 332211040/3500/R001/r00, April 2023.

This report should be read in conjunction with the above referenced report.

## 2.0 THE SITE

### 2.1 SITE LOCATION AND DESCRIPTION

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The site is located to the northeast of Sayers Common, some 4.5km west of Burgess Hill, West Sussex.

The site is irregular in shape, although roughly rectangular, being up to 180m long and 80m wide with a total area of approximately 1.5 hectares. The centre of the site has an approximate national grid reference of 526890E 118840N. The site slopes gently down in a northerly orientation, with a difference in height of approximately 3m.

The site is currently occupied by two 2-storey steel framed commercial buildings, linked by a first storey bridge. The external areas are predominantly covered by hardstanding, with localised grass areas and foliage around the perimeter.

A small 'plant' building is located in the north-eastern part of the site. It was not possible to gain access into this feature and hence the status of the internal workings is unknown.

A small pond some 30m by 10m is located in the northern part of the site. This feature was fenced off and not specifically investigated.

The site boundaries are formed by security fences with gates for access routes.

A Site Location Plan and Exploratory Hole Location Plan are presented in Appendix A.

### 3.0 SUMMARY OF DESK STUDY

The salient information from Stantec Phase 1 Ground Conditions Assessment report ref. 332211040/3500/R001/r00, April 2023, is summarised below:

- Prior to its current use, the site was occupied by 'Stroods' a hotel comprising buildings to the north with gardens and a swimming pool in the southern half of the site. The records indicate that the site had been developed into its current layout during the late 1990's.
- Geological mapping indicates the site is in an area underlain by deposits of the Weald Clay Formation (bedrock) with Head deposits indicated to cover the northern half the site.
- The site is not within an area considered to be at risk from radon.
- The Head deposits are Secondary A Aquifer status and the bedrock geology (Weald Formation) is classified as Unproductive Strata (a non-aquifer).
- The site is not within a groundwater Source Protection Zone (SPZ).
- Surface water features comprise a pond in the northern part of the site and a drainage ditch along the eastern boundary. The nearest named stream is Herrings Stream some 450m east.

With reference to the CSM, the geo-environmental risk for the end users of the site is low.

A provisional Unexploded Ordnance (UXO) risk assessment for the site indicates a low risk of encountering UXO.

## 4.0 SITE INVESTIGATION

### 4.1 SITE SPECIFIC INVESTIGATION FIELDWORK

Table 1 below summarises the intrusive works undertaken at this site.

| LOCATION REFS | METHOD                                                               | TOTAL POSITIONS | MAXIMUM DEPTH (m BGL) | MONITORING WELLS |
|---------------|----------------------------------------------------------------------|-----------------|-----------------------|------------------|
| TP's 01-05    | Machine Excavated Trial Pit<br>(all with soakaway infiltration test) | 5               | 1.90                  | N/A              |
| FP's 01-04    | Foundation Trial Pit<br>(by machine and hand)                        | 4               | 1.60                  | N/A              |
| DS's 01-06    | Dynamic Sample Borehole                                              | 6               | 6.45                  | All              |

*Table 1 – Summary of Investigation Positions*

A plan showing exploratory positions together with the existing site layout is presented in Appendix A; Results of the fieldwork, including in-situ testing are provided in Appendix C.

#### 4.1.1 BURIED AND OVERHEAD SERVICES

There are numerous buried services beneath the site. Each location was cleared in advance by a specialist utility survey company, who also undertook a complete utility survey of the site. Service plans provided by the client and utility providers were also referred to when locating the exploratory excavations. Where necessary exploratory excavations were relocated to avoid services.

#### 4.1.2 LOCATION TARGETING

The trial pits (with soakaway testing) and dynamic sample boreholes were located in a general spread across the site.

Dynamic sample borehole DS02 was located over the position of a former swimming pool, to find the depth of made ground.

Foundation trial pits were undertaken at two locations per building to gain representative information about the existing buildings.

#### 4.1.3 TRIAL PITS AND SOIL INFILTRATION TESTING

Machine excavated trial pits, TP01 to TP05, were undertaken on 21<sup>st</sup> November 2023 and foundation pits FP01 to FP04 were excavated on 22<sup>nd</sup> November 2023. The pits were supervised and logged by a suitably qualified geo-environmental engineer with representative soil samples being taken at appropriate intervals. All samples were transported to the relevant laboratory upon completion of fieldwork.

Soil infiltration (soakaway) testing was undertaken in all five machine excavated trial pits. The tests were undertaken in general accordance with BRE Digest 365.

In all five cases the test water did not dissipate over the test period (between 6 and 18 hours tested). The maximum dissipation was 0.03m (TP04, 18 hours).

On completion, excess water was removed and then each trial pit was backfilled with arisings, placed in the general order in which they were excavated with the surface material replaced on top. Each trial pit was left mounded to accommodate future settlement.

#### 4.1.4 WINDOW SAMPLE BOREHOLES

A total of six dynamic windowless sample boreholes, DS01 to DS06, were drilled on 21<sup>st</sup> and 22<sup>nd</sup> November 2023. The boreholes were logged by a suitably qualified geo-environmental engineer. In-situ Standard Penetration Tests (SPTs) undertaken at 1m intervals. Samples were retrieved, placed in suitable containers and labelled for subsequent testing.

The boreholes achieved depths between 3.60m and 6.45m BGL, in one case (DS01) refusing on impenetrable soils. Refusals are defined by SPT N values of >50.

#### 4.1.5 INSTALLATIONS AND MONITORING

Following completion of the dynamic windowless sampling, all boreholes were installed with combined groundwater and ground gas standpipes, installed in accordance with BS8485:2015 (ref 10.11) and BS8576:2013 (ref 10.17).

All installations also followed the principals of BS 10175:2011 and incorporated bentonite seals above and below response zones and just shy of the surface to seal out possible pathways. The installation included a flush protective cover set in concrete.

## 4.2 LABORATORY TESTING

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### 4.2.1 CHEMICAL LABORATORY TESTING

Chemical laboratory tests were scheduled by RGL for a total of twenty selected soil samples from the trial pits and boreholes. Chemical analyses for a broad range of determinands were undertaken by i2 Analytical a UKAS (United Kingdom Accreditation Service) and MCerts accredited laboratory. Chemical testing included:

- Heavy Metals – Cadmium, Chromium (Total and Hexavalent), Lead, Nickel, Selenium & Mercury.
- Phytotoxic Metals – Copper & Zinc.
- Organic Compounds – Phenols.
- Speciated Polycyclic Aromatic Hydrocarbons (PAH).
- Total Petroleum Hydrocarbons (TPH).
- Other compounds – Arsenic, Cyanide, Boron & Sulphate.
- Asbestos screening (with quantification following any detection).

### 4.2.2 GEOTECHNICAL LABORATORY TESTING

Geotechnical laboratory tests were scheduled by RGL on selected soil samples from the trial pits and boreholes. Geotechnical testing was undertaken by Geotechnics Ltd and i2 Analytical, both being UKAS and MCerts accredited laboratories. Geotechnical testing included:

- Atterberg Limits (PI).
- Water content.
- Particle Size Distribution (PSD).
- Sulphate (total and water soluble sulphate (2:1, SO<sub>4</sub>)), sulphur and pH

## 5.0 GROUND CONDITIONS

All locations encountered a similar soil profile and can be found summarised in the table below:

| STRATUM                                             | LOCATION                                  | TOP OF STRATA<br>mBGL | BASE OF STRATA<br>mBGL | AVERAGE THICKNESS<br>m |
|-----------------------------------------------------|-------------------------------------------|-----------------------|------------------------|------------------------|
| MG - Topsoil                                        | FP03 only                                 | 0.00                  | 0.35                   | 0.35                   |
| MG - Gravel surfacing                               | TP01 only                                 | 0.00                  | 0.04                   | 0.04                   |
| MG - Block paving                                   | DSs 01-06, TP02-05<br>FPs 01, 02 & 04     | GL                    | 0.08 – 0.10            | 0.10                   |
| MG - Sand / subbase                                 | DSs 01, 03-06, TP01-05<br>FPs 01, 02 & 04 | 0.04 – 0.10           | 0.13 – 0.20            | 0.08                   |
| MG - Buried Asphalt                                 | DS06, FP01,<br>TP01, 03 & 05              | 0.15 – 0.60           | 0.25 – 0.70            | 0.09                   |
| MG - recycled aggregate (crushed concrete), subbase | DSs 01-06, TP01-05<br>FPs 01, 02 & 04     | 0.08 – 0.20           | 0.60 – 1.15            | 0.78                   |
| MADE GROUND (general)                               | FP01                                      | 0.60                  | 0.65                   | 0.05                   |
| Total MADE GROUND (all of the above combined)       | All                                       | N/A                   | 0.35 – 1.15            | 0.40                   |
| Weald Clay Formation                                | All                                       | 0.35                  | 1.15                   | >3.60                  |
| Key:<br>MG – MADE GROUND                            |                                           |                       |                        |                        |

*Table 2 – Summary of Strata*

The intrusive works broadly confirmed the anticipated ground conditions from the BGS records. The encountered ground conditions are summarised below.

### 5.1 HARDSTANDING, TOPSOIL AND MADE GROUND

Made ground was recorded in all locations in varying forms as detailed in Table 2, to depths in the range of 0.35m to 1.15m and was generally associated with near surface features of the former and existing buildings.

Topsoil was investigated at one location only (FP01) being recorded to a depth of 0.35m bgl. The topsoil also being present in the varying areas of soft landscaping at the site.

Block paving was present across much of the site, forming the surface layer of hardstanding. This feature was recorded in all but two of the exploratory holes to a maximum depth of 0.10m.

Gravel surfacing, set within a plastic reinforcement grid was recorded in Trial Pit TP01 only to a depth 0.04m in an area of permeable carparking.

Beneath the surface materials (block paving and gravel), a thin layer of sand subbase was recorded in the majority of the exploratory holes. The sand was recorded to a maximum depth of 0.20m bgl with an average thickness of 0.08m.

A subbase derived from recycled aggregates (crushed concrete) was recorded in all but one of the exploratory holes and in all areas of hardstanding. This layer comprised light grey sand and gravel sized fragments of (predominantly) concrete and brick. This layer was recorded to a maximum depth of 1.15m, with an average thickness of 0.78m. the upper mantle of this strata was recorded as being very dense / compact, and in all locations required a breaker to penetrate.

An intact layer of buried Asphalt was recorded at five locations, up to 0.10m thick. This layer required breaking out to penetrate. It is considered that this layer is representative of hardstanding from a former site use. No testing or assessment has been undertaken for the potential presence of coal tar in the buried asphalt.

A thin layer of made ground comprising soft clay with fragments of wood was recorded in foundation trial pit FP01. It is considered that this was a result of constructing the existing building rather than imported materials.

## 5.2 WEALD CLAY FORMATION

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Beneath the made ground, deposits from the Weald Clay Formation were recorded across the whole site.

This stratum was predominantly recorded as firm to very stiff brown and grey slightly sandy slightly gravelly clays.

These fine-grained soils (clays) recorded Hand Shear Vane (HSV) test results in the range 32kPa to >120 Kpa with values being commensurate with the field descriptions. SPT N values were in the range 4 to >50.

Fifteen plasticity index tests undertaken on these deposits indicate them to be of Intermediate to very high plasticity (i.e. CI to CV soils) after the classification system of BS 5930: 2015, and to be of high swelling/shrinkage potential.

The full depth of these deposits was not proven, being recorded to a maximum depth is 6.45m bgl.

## 5.3 GROUNDWATER

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Groundwater was encountered in seven of the exploratory holes (DS01, DS03, DS05, DS06, FP02, TP02 and TP04) at depths between 0.50m and 4.00m bgl, predominantly as minor inflows, although a moderate flow was recorded in FP02, where a hydrocarbon odour was also noted.

The post sitework monitoring recorded groundwater levels on the range 0.00m (ground level) to 1.90m bgl with an average of 0.72m bgl.

## 5.4 OBSERVATIONS

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The boreholes did not require casing during drilling.

The sides of the trial pits remained stable during excavation.

## 6.0 ENGINEERING ASSESSMENT

As detailed in Section 1, the client is proposing to demolish the existing buildings at the site, to be replaced by a new car dealership building with associated infrastructure.

### 6.1 EXCAVATIONS AND GROUND STABILITY

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Made ground has been recorded to a maximum depth of 1.15m bgl. However, deeper deposits may be present below the existing buildings and/or in the area of the former swimming pool (see section 3), which was located beneath the existing southern building.

Based on the ground conditions revealed during the fieldwork it is anticipated that shallow excavations should generally be achieved adopting standard excavation plant. It may be anticipated that localised buried construction and services may be encountered, associated with the existing building or former. Progress will inevitably be slowed in such cases, and the requirement for breaking equipment should not be discounted.

A layer of compact recycled aggregate (crushed brick and concrete) was recorded in all but one of the exploratory holes, all in areas of hardstanding. Excavation through this layer (for the 3-tonne machine employed) proved slow and a breaker was required.

Excavations are likely to be relatively stable in the short term, however random falls may be anticipated from the faces of near vertically sided unsupported excavations carried out in the made ground.

All excavations that are to be left open for any length of time or for personnel entry should be suitably battered or supported.

Based on the limited groundwater observations recorded during the fieldwork and the short monitoring period, it is anticipated that shallow excavations for foundation and drainage systems will generally remain dry in the short term, although some minor localised flows may occur. It is considered that standard dewatering techniques (sump and pump) should prove adequate at the site. Further consideration may be required if excavations are to be left open for longer periods.

### 6.2 FOUNDATIONS

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It is proposed to construct a new commercial building (car dealership) at the site. It is understood that the new building will be two storey and of traditional construction. The following comments are provided as a guide only and should be reviewed with reference to final proposals once available.

It is considered that the natural soils present at the anticipated founding depths should provide adequate support for traditional strip/trench fill and/or pad foundations for the proposed new structure.

As a guide, for 0.60 metre wide strip/trench fill footing, bearing on the natural superficial deposits at a recommended minimum depth of 1.00 metres below finished ground level, an allowable net bearing pressure of up to 100 kN/m<sup>2</sup> is considered appropriate. Further consideration will be required should high or abnormal building loads be required.

The above value incorporates a factor of safety of 3 and total settlements are not expected to exceed 20mm, thereby keeping differential settlements within acceptable limits.

It should be noted that a swimming pool was previously located in the southern half of the site, beneath the existing southern building. Details of the swimming pool are unknown, however it should be anticipated that localised deepened made ground will be present in the vicinity of this feature.

There are numerous trees of mixed variety and maturity present along the site boundaries. As best practice, it is recommended that any foundations determined to be in the influence of trees are designed in accordance with NHBC guidelines, to prevent excessive differential movements.

Where the new building is located over any former structures or services, care must be taken to ensure that all old construction is broken out to at least 0.50m (horizontally) from new construction.

### 6.3 GROUND FLOOR SLABS

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Following removal of topsoil and made ground from below the proposed slab a ground bearing slab may be adopted, provided that the depth of imported (granular) fill (if required) to achieve formation level is less than 600mm. Elsewhere, slabs should be suspended.

For buildings within influencing distance of trees, it is recommended that suspended ground floor slabs with an appropriate void are adopted. It

As described in the desk study report no radon protective measures are required.

Ground gas monitoring has indicated that landfill gases are not present at elevated levels at the site and hence no special precautions will be required in this respect. See section 7.4 for further details.

### 6.4 HARDSTANDING DESIGN

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It is anticipated that new hardstanding will be constructed around the site.

Laboratory soil testing has recorded plasticity indices in the range 18 to 52 (average – 33), indicative of CBR values in the range 3% to 5%.

As described in section 5.1 a layer of well compacted recycled aggregate subbase (crushed concrete and brick) is present beneath the current hardstanding. Assuming that this layer remains undisturbed and subject to confirmatory testing, it may be possible to adopt CBR values in the range 5%-10% for the existing subbase. For all other made ground, a CBR value of 1% should be adopted.

The subgrade should be inspected, and proof-rolled with a suitable roller. Degradable material, soft spots, or otherwise unsuitable material should be removed and replaced with suitable fill that has an appropriate CBR. Consideration may also be given to the use of a geomembrane beneath the subbase. Steps should also be taken to protect the formation, especially during periods of cold weather. Additional guidance is provided in BS7533. (ref. 10.16)

The formation should be prepared in such a manner to help protect the surface from adverse weather.

### 6.5 CHEMICAL ATTACK ON BURIED CONCRETE

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Based on guidelines provided in BRE Special Digest 1 (BRE 2005), the shallow soils can be classified as Design Sulfate Class DS-2 and ACEC Class AC-1s.

## 6.6 DRAINAGE

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In-situ soakaway drainage tests were undertaken at five locations across the whole site, in general accordance with BRE Digest 365. The tests were undertaken within machine excavated trial pits.

In all five locations the water did not sufficiently dissipate to complete the test, and it is therefore assessed that the soils are practically impermeable at the site. The results are presented in Appendix C.

A soakaway drainage system is considered unsuitable for the site.

## 6.7 EXISTING BUILDINGS - FOUNDATIONS

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Four trial pits were excavated specifically to expose the foundations of the two existing buildings, two locations per building.

The site records of the foundation trial pits are included in Appendix B.

The results indicate that the existing buildings are set upon a combination of pads and strip footings founded at depths in the range 1.05m and 1.40m bgl, all set upon firm or stiff natural cohesive deposits.

An investigation to check for the presence of piles was not undertaken. Given the ground conditions beneath the exposed foundations, the type of building (and anticipated loadings) and the presence of pads it is considered unlikely that piled foundations have been used on the existing buildings, however, it cannot be entirely discounted.

## 7.0 GEO-ENVIRONMENTAL ASSESSMENT

### 7.1 LEGISLATION AND GUIDANCE

Currently, UK contaminated land is assessed and managed through a number of integrated policies and guidance. The Environment Agency's guidance document 'Land Contamination: Risk Management' (LCRM) advises on how the legislative framework dealing with contaminated land should be implemented.

The National Planning Policy Framework (NPPF) makes provision for assessing and managing contaminated land in the context of redevelopment which is subject to planning control. Current policy under NPPF states that planning policies and decisions should ensure that "a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation)".

The assessment process requires that "adequate site investigation information, prepared by a competent person, is available to inform these assessments." The guidance provided in NPPF also states that "all investigations of land potentially affected by contamination should be carried out in accordance with established procedures, (such as BS10175 Investigation of Potentially Contaminated Sites – Code of Practice)".

The NPPF and statutory provisions for dealing with contaminated land are clear in ensuring that "where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner".

Fundamental to the assessment of contaminated land is the development of a Conceptual Site Model (CSM). This is an evaluation of the site conditions and its particular characteristics with respect to so called Source-Pathway-Receptor (S-P-R) relationships, or plausible pollutant linkages. The CSM can then be used to assess and define risk and in turn it provides a basis for determining the condition of the land in the context of the proposed development and what, if any, action needs to be taken to allow the proposed development to proceed safely and without detrimental impact to the site itself or the wider environment.

A plausible pollutant linkage is defined by three elements:

|                 |                                                                                                                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source</b>   | a contaminant or pollutant that is in, on or under the land and that has the potential to cause harm or pollution.                                                                         |
| <b>Pathway</b>  | a route by which a receptor is or could be affected by a contaminant.                                                                                                                      |
| <b>Receptor</b> | something that could be adversely affected by a contaminant, for example a person, controlled waters, an organism, an ecosystem, or Part 2A receptors such as buildings, crops or animals. |

The results of analysis, the various pathways and risk to receptors is assessed in the following sections that includes and updated CSM.

### 7.2 ASSESSMENT OF CHEMICAL TEST RESULTS

#### 7.2.1 SOIL ANALYSIS FOR HUMAN HEALTH

The assessment of risks in relation to human health has been undertaken using Generic Assessment Criteria (GAC). The GAC are predominantly based on long term (chronic) risks to health. However, in the limited circumstances where short-term (acute) risks are more pronounced, these GAC have been utilised to ensure a thorough and conservative initial assessment is undertaken.

### 7.2.2 RESULTS OF SOIL TESTING

The new development is to be a car dealership, therefore a commercial end use scenario has been adopted for this assessment. The results are presented in Appendix C.

### 7.2.3 SOIL ANALYSIS SUMMARY

A total of twenty soil samples have been tested, representative of the near surface conditions in the development areas.

None of the contaminants of potential concern were recorded at concentrations above the adopted GAC.

Asbestos was detected in a single sample of the made ground (subbase) in DS01 at 0.60m, in the form of loose chrysotile fibres. Quantitative testing established that the concentration is less than the limit of detection (<0.001%).

No Asbestos Containing Materials were noted on site or in any soils, suggesting that asbestos materials are present only as very minor constituents in the soil.

The affected sample was from the granular layer (recycled aggregate sub-base formed from crushed concrete and brick) beneath the hardstanding. Four other samples of this material were also tested and did not record the presence of asbestos.

It is recommended that the subbase type materials should not be re-used in areas of soft landscaping at the site. However, it may be possible to re-use these soils under areas of hardstanding and/or buildings at the site. Careful planning and consideration will be required during the construction phase as disturbance of the affected soils may cause a potential for fibre release. The affected soils should not be used for purposes or in areas which may cause dust release. E.g. temporary hardstanding / roads.

The risk associated with the presence of asbestos is considered to be low, in line with most brownfield sites.

### 7.2.4 GROUNDWATER ANALYSIS SUMMARY

The risks to groundwater from contaminants on site have been assessed in accordance with the Environment Agency (2006) Remedial Targets Methodology (RTM).

Site contaminant loadings are compared with relevant screening values (Water Quality Targets (WQTs), which are linked to the CSM. Acceptable WQT are defined for protection of human health (based on Drinking Water Standards (DWS)) and for protection of aquatic ecosystems (Environmental Quality Standards (EQS)).

Three groundwater samples have been tested. A water inflow within foundation trial pit FP02 noted a hydrocarbon odour. Post siteworks, samples of groundwater were retrieved from two borehole installations (DS03 and DS06).

The results indicate that elevated levels of diesel and oil range hydrocarbons are present in the sample retrieved from trial pit FP01, where odours had been noted.

All other potential contaminants were recorded at levels below their relevant assessment criteria.

The soils underlying the site are classified as unproductive (non-aquifer) and the site is not located within a source protection zone. No obvious sources of contamination (fuel tanks etc) were noted upon the site. Soakaway drainage testing at the site has proven that the soils at the site are practically impermeable.

It is considered that the elevated levels of hydrocarbon recorded in the waters encountered in foundation pit FP01 are likely to be a discrete hotspot, possibly from a localised spillage. Although specific remediation is not considered necessary, it is recommended that (post or during demolition) the area around FP02 is inspected and any impacted soils and/or waters are removed from site to an appropriate waste disposal facility, as part of a betterment programme. The removal of this hotspot should be supervised by an appropriately qualified person.

When excavations are to take place in this area of the site it may be prudent to retain a water disposal facility (gully sucker) on site to remove any potentially contaminated waters and hence prevent cross contamination.

It should be noted that the approval of the local Environmental Health Officer, who may seek the guidance of the Environment Agency, will be required with respect to the above proposals and it cannot be discounted that further detailed assessment (and possibly sampling and testing) may ultimately be required.

### 7.3 DISCOVERY STRATEGY

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Given the brownfield nature of the site, it cannot be discounted that discrete pockets of contaminated soils will be encountered at the site.

Where suspected contaminated soils / waters are discovered, operations should be temporarily stopped and the geo-environmental advisor informed and consulted for the most appropriate course of action.

In the event that suspected asbestos containing materials are encountered, these should also be made safe (covered / replaced), and the affected area defined and segregated.

### 7.4 GROUND GAS

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Where applicable the results of ground gas monitoring have been compared to:

- CIRIA 665: Assessing risks posed by hazardous ground gases to buildings.
- BS 8485:2015+A1:2019: Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.

Ground gas monitoring recorded a maximum carbon dioxide concentration of 8.2% although typically readings were less than 1%. Methane was recorded at a maximum level of 3.0% although typically was non-detectable (<0.1%). Oxygen concentrations were between 1.6 – 18.9%, although typically >17%.

Elevated flow and differential pressure readings were recorded in several boreholes, however, in all cases these rapidly dissipated to zero. It is considered that this is representative of a change in pressure within the installations (driven by groundwater) rather than actual flows. All flow readings were below the limit of detection (<0.1 l/hr).

The second monitoring visit was undertaken during a period of low air pressure.

The post fieldworks monitoring results are presented in Appendix D.

No putrescible materials were recorded in any of the exploratory boreholes and there are no nearby gas sources identified.

The recorded gas results and calculated Gas Screening Values (GSV's) indicate Characteristic Situation CS1 (very low risk) and that no gas protective measures are required for new buildings at the site.

## 7.5 UPDATED CONCEPTUAL SITE MODEL

Following the additional works undertaken at the site, the Conceptual Site Model (CSM) has been updated to take account of the findings.

Previously, the CSM indicated that the greatest likely risks from exposure to contaminants in soils are to construction workers (moderate risk). The risk posed to future users and neighbours were low. The risk to controlled waters was assessed to be very low. If no source has been found to exist, then these have been removed from the CSM.

| CONTAMINATIVE SOURCE            | PATHWAY                                                                                           | RECEPTORS                                                                      | PROBABILITY    | CONSEQUENCE | RISK     | DISCUSSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------|-------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Made Ground underlying the site | Ingestion, inhalation or direct contact.                                                          | Current and Proposed Site-users, Construction Personnel                        | Likely         | Minor       | Low      | <ul style="list-style-type: none"> <li>The site has a history of two land uses, as part of a hotel and commercial (printworks).</li> <li>Only limited volumes of made ground have been recorded at the site, mostly associated with the existing hardstanding.</li> <li>Contamination testing has not identified any contaminated soils.</li> <li>Asbestos fibres were identified at one location only at a concentration below the limit of detection.</li> <li>Construction personnel would be at less risk due to the short exposure and basic health and safety measures that should be standard practice.</li> </ul> |
|                                 | Run-off or leaching to groundwater and flow off site or to surface waters. Infiltration to depth. | Controlled waters.                                                             | Low likelihood | Minor       | Very Low | <ul style="list-style-type: none"> <li>There is no evidence to indicate there has been a serious release of liquid contaminants at the site, however, a localised hotspot of hydrocarbon contamination was recorded in the groundwater. It is recommended that this hotspot is removed from site.</li> <li>The soils at the site have been determined to be practically impermeable and the soils beneath the site are classified as unproductive and not in a source protection zone.</li> <li>The site is to be mostly covered by hardstanding.</li> </ul>                                                              |
|                                 | Direct contact                                                                                    | Building materials (Foundations), buried services – mainly water supply mains. | Likely         | Mild        | Low      | <ul style="list-style-type: none"> <li>Hydrocarbons were identified in just one of the exploratory holes, with elevated levels being recorded in a groundwater sample.</li> <li>Polymer water supply mains can be affected by even low concentrations of hydrocarbons but the effect is tainted water rather than a significant risk to health. Other buried services would appear at significantly less risk.</li> <li>Foundations and substructures would not appear at</li> </ul>                                                                                                                                      |

| CONTAMINATIVE SOURCE                                                     | PATHWAY                                                      | RECEPTORS                        | PROBABILITY | CONSEQUENCE | RISK | DISCUSSION                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------|--------------------------------------------------------------|----------------------------------|-------------|-------------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                          |                                                              |                                  |             |             |      | significant risk over the wider site but localised dumping of materials may increase the risk.                                                                                                                                                                                                                                 |
| Landfill gas from degradable buried wastes on site or nearby. [off-site] | Inhalation and asphyxiation or explosion in confined spaces. | Current and Proposed Site-users, | Low         | Medium      | Low  | <ul style="list-style-type: none"> <li>• Gas monitoring has not recorded significant concentrations or volumes of landfill gases.</li> <li>• No biodegradable materials were observed in the exploratory holes.</li> <li>• The site itself is unlikely to have significant deposits of buried degradable materials.</li> </ul> |

*Table 3 – Revised Conceptual Site Model*

The updated CSM indicates that the greatest risk remaining on the site is the ingestion, inhalation or direct contact by construction workers of un-identified shallow surface contaminants in the soil relating to the sites previous use.

## 7.6 RISK ASSESSMENT CONCLUSION

---

A single sample (of the recycled aggregate, subbase) identified the presence of asbestos fibres, although below the limit of detection.

Groundwater within one of the trial pits (FP01) noted a hydrocarbon odour, the presence of which was confirmed by testing.

The soils tested at the site have not recorded any other elevated concentrations of chemicals of potential concern.

It is considered unlikely that there will be significant contamination presence on site, however, it is recommended that the hydrocarbon hotspot recorded in Foundation Pit FP01 should be investigated and any impacted soils and waters removed from site, to an appropriate waste facility.

No gas protective measures are required.

Based on the CSM and this Risk Assessment (RA) for the site, following chemical testing and gas monitoring, the risk to end users is considered low. The risk to construction personnel with safe systems of work is considered low.

## 8.0 REFERENCES

- 8.1 British Standard BS 5930:2015+A1:2020, Code of Practice for Site Investigations.
- 8.2 British Standard BS 10175:2011+A2-2017 - Investigation of Potentially Contaminated Sites - Code of Practice.
- 8.3 British Standard BS 1377:1990 Methods of Test for Soils for Civil Engineering Purposes.
- 8.4 British Geological Survey 'Geology of Britain Viewer'  
<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>
- 8.5 National House Building Council, NHBC Standards 2023. Utilised for best practice.
- 8.5 Building Research Establishment, BRE Special Digest 1:2005 3<sup>rd</sup> edition, Concrete in Aggressive Ground.
- 8.6 CIRIA C552, Contaminated land risk assessment. A guide to good practice, 2001.
- 8.7 Chartered Institute of Environmental Health and Land Quality Management Ltd, The LQM/CIEH S4ULs for Human Health Risk Assessment, 2015.
- 8.9 DEFRA, Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination, 2014.
- 8.10 CIRIA 665: Assessing risks posed by hazardous ground gases to buildings.
- 8.11 British Standard BS 8485:2015, Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings.
- 8.12 BRE 211 Radon, Guidance on protective measures for new buildings, 2015.

## **APPENDIX A – DRAWINGS**

- 230466-RGL-ZZ-XX-DR-Z-0001 Site Location Plan
- 230466-RGL-ZZ-XX-DR-G-0001 Exploratory Hole Location Plan



Notes

1. This drawing is to be read in conjunction with all the relevant contract documentation.
2. This drawing and its contents shall not be reproduced or reused in whole or in part without Rotlon Group's express permission in writing and Rotlon Group accepts no liability for any damages, costs, losses, claims, proceedings or expenses arising from such use.
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8. If a BIM model has been provided by Rotlon Group the information provided on this drawing is only valid on the date of issue and may be superseded by the model contents thereafter. Refer to the model to confirm.

KEY

-  BH Borehole location and ID number
-  TP Trial Pit location and ID number
-  FP Foundation Pit location and ID number



DO NOT SCALE  
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Standard construction hazards that a competent contractor would be aware of have not been identified on this drawing. Risks that may not be immediately apparent are listed below.

| Status | Date     | Description            | Dwn Eng | Chkd Veri |
|--------|----------|------------------------|---------|-----------|
| S2-P01 | 77.01.24 | Issued for information | TSm     | JWP CHE   |



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Project:  
**Sytner Group Porsche  
Mid Sussex  
Sayers Common**

Drawing Title:  
**Geotechnical : Exploratory Hole  
Location Plan**

RGL Project Ref: 23-0466  
Scale@A1: NTS  
Scale@A3: NTS  
Specification(s):

Drawing Number:  
**230466-RGL-ZZ-XX-DR-G-100-0001**  
Project-Originator-Zone-Level-Type-Role-Classification-Number  
Issue Purpose:  
**INFORMATION**  
Status:  
**S2-P01**  
Suitability-Revision

**APPENDIX B – SITE INVESTIGATION RECORDS**



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NN10 8DN

# Borehole Log

Borehole No.

**DS01**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526842.00 - 118776.00

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 23.90

Scale  
1:35

Client: Sytner Group Porsche

Dates: 22/11/2023 - 22/11/2023

Logged By  
AC

| Well | Water Strikes | Samples and In Situ Testing |      |                   | Depth (m) | Level (m)                                                                                                                                                                           | Legend | Stratum Description                                                                                                                                 |  |
|------|---------------|-----------------------------|------|-------------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                   | Type | Results           |           |                                                                                                                                                                                     |        |                                                                                                                                                     |  |
|      |               |                             |      |                   | 0.08      | 23.82                                                                                                                                                                               |        | Block Paving.                                                                                                                                       |  |
|      |               |                             |      |                   | 0.15      | 23.75                                                                                                                                                                               |        | MADE GROUND - SURFACING                                                                                                                             |  |
|      |               |                             |      |                   |           |                                                                                                                                                                                     |        | Light brown cemented SAND.                                                                                                                          |  |
|      |               |                             |      |                   |           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                               |  |
|      |               |                             |      |                   |           |                                                                                                                                                                                     |        | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).                             |  |
|      |               |                             |      |                   |           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                               |  |
|      |               | 0.60                        | ES   |                   | 0.60      | 23.30                                                                                                                                                                               |        | Grey, dark grey, black and dark brown clayey sandy GRAVEL with ash. Gravel is sub-angular to sub-rounded concrete, brick, flint, asphalt, charcoal. |  |
|      |               | 0.70                        | D    |                   | 0.80      | 23.10                                                                                                                                                                               |        | MADE GROUND - SUBBASE                                                                                                                               |  |
|      |               | 0.90                        | D    |                   | 1.00      | 22.90                                                                                                                                                                               |        | MADE GROUND                                                                                                                                         |  |
|      |               | 0.90                        | ES   | N=9 (1,1/1,2,3,3) | 1.00      |                                                                                                                                                                                     |        | Firm, brown, grey, orangish brown mottled, silty CLAY with rare fine flint gravel.                                                                  |  |
|      |               | 1.00                        | D    |                   |           |                                                                                                                                                                                     |        | WEALD CLAY FORMATION                                                                                                                                |  |
|      |               | 1.20                        | D    |                   |           |                                                                                                                                                                                     |        | Firm to stiff fissured brown, grey and orangish brown mottled silty CLAY with silt partings, locally ferruginous (weathered ironstone nodules?).    |  |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
| 1.50 | ES            | HVP=40                      |      |                   |           | Firm becoming stiff, fissured, locally laminated, grey and brownish grey CLAY with (orangish brown) silt partings, (sand sized) selenite, occasional lithorelicts and shell traces. |        |                                                                                                                                                     |  |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
|      |               |                             |      |                   |           | Firm becoming stiff, fissured, locally laminated, grey and brownish grey CLAY with (orangish brown) silt partings, (sand sized) selenite, occasional lithorelicts and shell traces. |        |                                                                                                                                                     |  |
| 2.00 | D             | N=32 (3,4/7,8,8,9)          | 2.00 | 21.90             |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
| 2.00 | D             |                             |      |                   |           | Fibrous roots noted to 1.00m.                                                                                                                                                       |        |                                                                                                                                                     |  |
|      |               |                             |      |                   |           | Firm becoming stiff, fissured, locally laminated, grey and brownish grey CLAY with (orangish brown) silt partings, (sand sized) selenite, occasional lithorelicts and shell traces. |        |                                                                                                                                                     |  |
| 3.00 | D             | HVP=120                     |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
| 3.00 | D             | N=50 (6,8/50 for 265mm)     |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
|      |               |                             |      |                   |           | Firm becoming stiff, fissured, locally laminated, grey and brownish grey CLAY with (orangish brown) silt partings, (sand sized) selenite, occasional lithorelicts and shell traces. |        |                                                                                                                                                     |  |
| 3.40 | D             | 50 (12,13/50 for 175mm)     | 3.60 | 20.30             |           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                     |  |
|      |               |                             |      |                   |           | End of borehole at 3.60 m                                                                                                                                                           |        |                                                                                                                                                     |  |

## Remarks

1. Broke out surfacing, and upper layer of subbase, then hand dug to 1.00m to check for services. 2. Slight groundwater seepage noted from 0.80m, no level formed. 3. Drilling refusal (2 no. SPTs n=50) reached at 3.60m, borehole terminated. 4. Installed ground gas and water monitoring well upon completion, to base.



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# Borehole Log

Borehole No.

**DS02**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526870.00 - 118818.00

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 23.19

Scale  
1:35

Client: Sytner Group Porsche

Dates: 21/11/2023 - 21/11/2023

Logged By  
AC

| Well | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                         |  |
|------|---------------|-----------------------------|------|--------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                   | Type | Results            |           |           |        |                                                                                                                                                             |  |
|      |               | 0.08                        |      |                    | 0.08      | 23.11     |        | Block Paving.                                                                                                                                               |  |
|      |               | 0.20                        |      |                    | 0.20      | 22.99     |        | MADE GROUND - SURFACING                                                                                                                                     |  |
|      |               | 0.40                        | ES   |                    |           |           |        | Light brown cemented SAND/lean mix concrete.                                                                                                                |  |
|      |               | 0.50                        | D    |                    |           |           |        | MADE GROUND - SUBBASE                                                                                                                                       |  |
|      |               | 0.60                        |      |                    | 0.60      | 22.59     |        | Grey, dark grey, black, dark brown, clayey, sandy GRAVEL with ash. Gravel is sub-angular to sub-rounded concrete, brick, flint, asphalt, charcoal.          |  |
|      |               | 0.80                        | ES   |                    |           |           |        | MADE GROUND - SUBBASE                                                                                                                                       |  |
|      |               | 1.00                        |      | N=20 (7,8/6,5,5,4) |           |           |        | Soft or firm, brown, grey, orangish brown mottled, slightly sandy, silty CLAY locally ferruginous, rare fine flint gravel.                                  |  |
|      |               | 1.20                        | D    |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                        |  |
|      |               | 1.90                        |      | HVP=36             | 1.90      | 21.29     |        |                                                                                                                                                             |  |
|      |               | 2.00                        | D    |                    |           |           |        | Firm or stiff, fissured, locally laminated, grey, light grey, locally dark brown mottled, silty CLAY with silt partings, lithorelicts, locally ferruginous. |  |
|      |               | 2.00                        |      | N=15 (3,4/4,4,4,3) |           |           |        | WEALD CLAY FORMATION                                                                                                                                        |  |
|      |               | 3.00                        | D    |                    |           |           |        |                                                                                                                                                             |  |
|      |               | 3.00                        |      | HVP=62             |           |           |        |                                                                                                                                                             |  |
|      |               | 3.30                        | D    |                    | 3.30      | 19.89     |        |                                                                                                                                                             |  |
|      |               | 3.50                        | ES   |                    |           |           |        | Stiff, locally very stiff/hard, fissured, locally laminated, grey and bluish grey CLAY with silt partings, occasional lithorelicts and shell traces.        |  |
|      |               | 4.00                        | D    |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                        |  |
|      |               | 4.00                        |      | N=19 (4,5/5,4,4,6) |           |           |        |                                                                                                                                                             |  |
|      |               | 5.00                        | D    |                    |           |           |        |                                                                                                                                                             |  |
|      |               | 5.00                        |      | N=18 (4,3/4,5,4,5) |           |           |        |                                                                                                                                                             |  |
|      |               | 5.45                        |      |                    | 5.45      | 17.74     |        | End of borehole at 5.45 m                                                                                                                                   |  |

## Remarks

1. Broke out surfacing, and upper layer of subbase, then hand dug to 1.00m to check for services. 2. No groundwater entries noted during excavation. 3. Installed ground gas and water monitoring well upon completion, to base.



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# Borehole Log

Borehole No.

**DS03**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526877.00 - 118875.00

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 22.71

Scale  
1:35

Client: Sytner Group Porsche

Dates: 22/11/2023 - 22/11/2023

Logged By  
AC

| Well | Water Strikes | Samples and In Situ Testing |      |                    | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                           |  |
|------|---------------|-----------------------------|------|--------------------|-----------|-----------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                   | Type | Results            |           |           |        |                                                                                                                                                                               |  |
|      |               | 0.08                        |      |                    | 0.08      | 22.63     |        | Block paving                                                                                                                                                                  |  |
|      |               |                             |      |                    | 0.20      | 22.51     |        | MADE GROUND - SURFACING                                                                                                                                                       |  |
|      |               |                             |      |                    |           |           |        | Light brown SAND.                                                                                                                                                             |  |
|      |               | 0.40                        | ES   |                    |           |           |        | MADE GROUND - SUBBASE                                                                                                                                                         |  |
|      |               | 0.50                        | D    |                    |           |           |        | Light grey and brown, silty, sandy GRAVEL of sub-angular concrete, brick. Estimated very dense (poss. lean mix concrete).                                                     |  |
|      |               |                             |      |                    | 0.60      | 22.11     |        | MADE GROUND - SUBBASE                                                                                                                                                         |  |
|      |               | 0.80                        | D    |                    |           |           |        | Firm, brown, grey, orangish brown mottled, silty CLAY with rare fine or medium flint gravel, locally ferruginous.                                                             |  |
|      |               | 1.00                        | ES   |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                                          |  |
|      |               | 1.00                        |      | N=13 (2,3/3,4,3,3) |           |           |        |                                                                                                                                                                               |  |
|      |               | 1.20                        | D    |                    |           |           |        |                                                                                                                                                                               |  |
|      |               |                             |      |                    |           |           |        |                                                                                                                                                                               |  |
|      |               | 1.50                        | D    |                    |           |           |        |                                                                                                                                                                               |  |
|      |               |                             |      | HVP=42             |           |           |        |                                                                                                                                                                               |  |
|      |               | 2.00                        | D    |                    |           |           |        |                                                                                                                                                                               |  |
|      |               | 2.00                        |      | N=4 (1,1/1,1,1,1)  | 2.20      | 20.51     |        |                                                                                                                                                                               |  |
|      |               |                             |      |                    |           |           |        | Firm, brown, orangish brown, slightly sandy and locally sandy, silty CLAY with rare fine flint gravel.                                                                        |  |
|      |               | 2.50                        | D    |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                                          |  |
|      |               |                             |      | HVP=78             |           |           |        |                                                                                                                                                                               |  |
|      |               | 3.00                        | D    |                    |           |           |        |                                                                                                                                                                               |  |
|      |               | 3.00                        | ES   |                    |           |           |        |                                                                                                                                                                               |  |
|      |               | 3.00                        |      | N=13 (2,2/3,3,3,4) |           |           |        |                                                                                                                                                                               |  |
|      |               | 3.50                        | D    |                    |           |           |        |                                                                                                                                                                               |  |
|      |               |                             |      | HVP=82             | 3.80      | 18.91     |        |                                                                                                                                                                               |  |
|      |               | 4.00                        | D    |                    | 3.90      | 18.81     |        | Firm or stiff, fissured, brown, grey, orangish brown mottled, silty CLAY with silt partings, locally ferruginous.                                                             |  |
|      |               | 4.00                        | ES   |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                                          |  |
|      |               | 4.00                        |      | N=16 (3,4/4,4,4,4) |           |           |        | Firm or stiff, fissured, locally laminated, grey and greenish grey CLAY with (orangish brown) silt partings, (sand sized) selenite, occasional lithorelicts and shell traces. |  |
|      |               |                             |      |                    |           |           |        | WEALD CLAY FORMATION                                                                                                                                                          |  |
|      |               | 5.00                        |      | N=24 (4,6/7,7,4,6) |           |           |        |                                                                                                                                                                               |  |
|      |               |                             |      |                    | 5.45      | 17.26     |        |                                                                                                                                                                               |  |
|      |               |                             |      |                    |           |           |        | End of borehole at 5.45 m                                                                                                                                                     |  |

## Remarks

1. Broke out surfacing, and upper layer of subbase, then hand dug to 1.00m to check for services. 2. Slight groundwater seepage noted from 3.00m, rising to 1.10m after 20 minutes. 3. Installed ground gas and water monitoring well upon completion, to base.



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# Borehole Log

Borehole No.

**DS04**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526904.00 - 118786.38

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 24.22

Scale  
1:35

Client: Sytner Group Porsche

Dates: 21/11/2023 - 21/11/2023

Logged By  
AC

| Well | Water Strikes | Samples and In Situ Testing |      |                   | Depth (m)                 | Level (m)                                                                                                                                                                           | Legend | Stratum Description                                                                                                                                                                      |  |
|------|---------------|-----------------------------|------|-------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |               | Depth (m)                   | Type | Results           |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   | 0.08                      | 24.14                                                                                                                                                                               |        | Block paving                                                                                                                                                                             |  |
|      |               |                             |      |                   | 0.15                      | 24.07                                                                                                                                                                               |        | MADE GROUND - SURFACING                                                                                                                                                                  |  |
|      |               |                             |      |                   | 0.25                      | 23.97                                                                                                                                                                               |        | Light brown SAND.                                                                                                                                                                        |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                                                                    |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | Light grey and brown, silty, sandy GRAVEL of sub-angular concrete, brick. Estimated very dense.                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                                                                    |  |
|      |               | 0.60                        | D    |                   | 0.70                      | 23.52                                                                                                                                                                               |        | Grey, dark grey, black, dark brown, clayey, sandy GRAVEL with ash. Gravel is sub-angular to sub-rounded concrete, brick, flint, asphalt, charcoal. Estimated dense, becoming very dense. |  |
|      |               | 0.90                        | D    |                   |                           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                                                                    |  |
|      |               | 0.90                        | ES   |                   |                           |                                                                                                                                                                                     |        | Grey, dark grey, black, dark brown, clayey, sandy GRAVEL with ash. Gravel is sub-angular to sub-rounded concrete, brick, flint, asphalt, charcoal. Estimated dense, becoming very dense. |  |
|      |               | 1.00                        |      | N=7 (1,1/2,2,1,2) |                           |                                                                                                                                                                                     |        | MADE GROUND - SUBBASE                                                                                                                                                                    |  |
|      |               | 1.20                        | D    |                   | 1.30                      | 22.92                                                                                                                                                                               |        | Firm, brown, grey, orangish brown mottled, silty CLAY silt partings, locally ferruginous and carbonaceous flecks.                                                                        |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | WEALD CLAY FORMATION                                                                                                                                                                     |  |
|      |               | 1.50                        | ES   | HVP=58            |                           |                                                                                                                                                                                     |        | Firm or stiff, fissured, locally laminated, grey, light grey, locally dark brown mottled, silty CLAY with silt partings, locally ferruginous and occasional shell traces.                |  |
|      |               | 2.00                        | D    |                   |                           |                                                                                                                                                                                     |        | WEALD CLAY FORMATION                                                                                                                                                                     |  |
|      |               | 2.00                        |      | N=9 (1,2/1,2,3,3) |                           |                                                                                                                                                                                     |        | <i>Fibrous roots noted to 1.30m.</i>                                                                                                                                                     |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
| 3.00 | D             |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
| 3.00 |               | N=31 (5,6/7,8,8,8)          |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
| 3.80 | ES            |                             | 3.70 | 20.52             |                           | Stiff, fissured, locally laminated, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                                          |  |
| 4.00 | D             |                             |      |                   |                           | WEALD CLAY FORMATION                                                                                                                                                                |        |                                                                                                                                                                                          |  |
| 4.00 |               | N=23 (6,7/6,6,5,6)          |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
| 5.00 | D             |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
| 5.00 |               | N=24 (6,6/5,6,7,6)          |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             | 5.45 | 18.77             | End of borehole at 5.45 m |                                                                                                                                                                                     |        |                                                                                                                                                                                          |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | 6                                                                                                                                                                                        |  |
|      |               |                             |      |                   |                           |                                                                                                                                                                                     |        | 7                                                                                                                                                                                        |  |

## Remarks

1. Broke out surfacing, and upper layer of subbase, then hand dug to 1.00m to check for services. 2. No groundwater entries noted during excavation. 3. Installed ground gas and water monitoring well upon completion, to base.



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# Borehole Log

Borehole No.

**DS05**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526916.82 - 118838.07

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 22.90

Scale  
1:35

Client: Sytner Group Porsche

Dates: 21/11/2023 - 21/11/2023

Logged By  
AC

| Well | Water Strikes        | Samples and In Situ Testing |      |                    | Depth (m)                 | Level (m) | Legend | Stratum Description                                                                                                                                                            |  |
|------|----------------------|-----------------------------|------|--------------------|---------------------------|-----------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|      |                      | Depth (m)                   | Type | Results            |                           |           |        |                                                                                                                                                                                |  |
|      |                      |                             |      |                    | 0.08                      | 22.82     |        | Block paving                                                                                                                                                                   |  |
|      |                      |                             |      |                    | 0.18                      | 22.72     |        | MADE GROUND - SURFACING                                                                                                                                                        |  |
|      |                      |                             |      |                    |                           |           |        | Light brown SAND.                                                                                                                                                              |  |
|      |                      |                             |      |                    |                           |           |        | MADE GROUND - SUBBASE                                                                                                                                                          |  |
|      |                      | 0.50                        | ES   | N=29 (7,6/7,7,8,7) | 1.15                      | 21.75     |        | Light-dark grey, light brown, silty, sandy GRAVEL of sub-angular to sub-rounded concrete, brick, flint. Estimated dense.                                                       |  |
|      |                      | 0.60                        | D    |                    |                           |           |        | MADE GROUND - SUBBASE                                                                                                                                                          |  |
|      |                      | 1.00                        | ES   | HVP=78             |                           |           |        | Firm, brown, grey, orangish brown mottled, silty CLAY with occasional flint partings and rare fine to medium sub-angular flint gravel. Very stiff, silty layer at 2.70m-2.80m. |  |
|      |                      | 1.10                        |      |                    |                           |           |        | WEALD CLAY FORMATION                                                                                                                                                           |  |
|      |                      | 1.50                        | D    | N=24 (3,4/5,6,7,6) |                           |           |        |                                                                                                                                                                                |  |
|      |                      | 1.50                        |      |                    |                           |           |        |                                                                                                                                                                                |  |
|      |                      | 2.00                        | D    | HVP=90             |                           |           |        |                                                                                                                                                                                |  |
|      |                      | 2.00                        |      |                    |                           |           |        |                                                                                                                                                                                |  |
|      |                      | 3.00                        | D    | N=28 (5,7/6,7,7,8) | 2.80                      | 20.10     |        | Firm or stiff, fissured, brown and grey mottled CLAY with silt partings and occasional lithorelicts.                                                                           |  |
|      |                      | 3.00                        |      |                    |                           |           |        | WEALD CLAY FORMATION                                                                                                                                                           |  |
|      |                      |                             | ES   |                    |                           | 3.25      | 19.65  |                                                                                                                                                                                |  |
| 3.50 | WEALD CLAY FORMATION |                             |      |                    |                           |           |        |                                                                                                                                                                                |  |
|      | D                    | N=16 (4,5/4,4,4,4)          |      |                    |                           |           |        |                                                                                                                                                                                |  |
| 4.00 |                      |                             |      |                    |                           |           |        |                                                                                                                                                                                |  |
| 4.00 | D                    | N=16 (3,4/3,4,5,4)          |      |                    |                           |           |        |                                                                                                                                                                                |  |
| 5.00 |                      |                             |      |                    |                           |           |        |                                                                                                                                                                                |  |
| 5.00 |                      |                             | 5.45 | 17.45              | End of borehole at 5.45 m |           |        |                                                                                                                                                                                |  |
|      |                      |                             |      |                    |                           |           |        | 6                                                                                                                                                                              |  |
|      |                      |                             |      |                    |                           |           |        | 7                                                                                                                                                                              |  |

## Remarks

1. Broke out surfacing, and upper layer of subbase, then hand dug to 1.00m to check for services. 2. Slight groundwater seepage noted from 4.00m, no level formed. 3. Installed ground gas and water monitoring well upon completion, to base.



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# Borehole Log

Borehole No.

**DS06**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526931.11 - 118895.02

Hole Type  
WS

Location: Sayers Common, West Sussex.

Level: 22.33

Scale  
1:35

Client: Sytner Group Porsche

Dates: 22/11/2023 - 22/11/2023

Logged By  
AC

| Well | Water Strikes | Samples and In Situ Testing |      |                   | Depth (m) | Level (m)                                                                                                                                                                | Legend | Stratum Description                                                                                                                                                 |   |
|------|---------------|-----------------------------|------|-------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|      |               | Depth (m)                   | Type | Results           |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   | 0.08      | 22.25                                                                                                                                                                    |        | Block paving                                                                                                                                                        | 1 |
|      |               |                             |      |                   | 0.15      | 22.18                                                                                                                                                                    |        | MADE GROUND - SURFACING                                                                                                                                             |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        | Light brown SAND.                                                                                                                                                   |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        | MADE GROUND - SUBBASE                                                                                                                                               |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        | Light grey and brown, silty, sandy GRAVEL of sub-angular concrete, brick. Estimated very dense.                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        | MADE GROUND - SUBBASE                                                                                                                                               |   |
|      |               | 0.70                        | D    |                   | 0.50      | 21.83                                                                                                                                                                    |        | ASPHALT                                                                                                                                                             |   |
|      |               | 0.70                        | ES   |                   | 0.55      | 21.78                                                                                                                                                                    |        | MADE GROUND - SURFACING                                                                                                                                             |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        | MADE GROUND - SUBBASE                                                                                                                                               |   |
|      |               | 1.00                        |      | N=6 (1,1/1,1,2,2) | 0.80      | 21.53                                                                                                                                                                    |        | Grey, dark grey, black, dark brown, clayey, sandy GRAVEL with ash. Gravel is sub-angular to sub-rounded concrete, brick, flint, asphalt, charcoal. Estimated dense. |   |
|      |               | 1.20                        | D    |                   |           |                                                                                                                                                                          |        | MADE GROUND - SUBBASE                                                                                                                                               |   |
|      |               | 1.20                        | ES   |                   |           |                                                                                                                                                                          |        | Firm, brown, grey, orangish brown mottled, becoming light grey below 2.60m, silty CLAY with occasional flint gravel, silt partings and carbonaceous flecks.         |   |
|      |               | HVP=32                      |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               | HVP=96                      |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 2.00 | D             |                             |      |                   |           | Firm or stiff, brown and grey mottled CLAY with silt partings and occasional lithorelicts.                                                                               |        |                                                                                                                                                                     |   |
| 2.00 |               | N=20 (3,3/5,4,6,5)          |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               | HVP=84                      |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 3.00 | D             |                             | 3.00 | 19.33             |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
| 3.00 |               | N=12 (3,4/3,3,3,3)          | 3.30 | 19.03             |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 3.50 | ES            |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               | HVP=78                      |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 4.00 | D             |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
| 4.00 |               | N=13 (3,4/3,3,3,4)          |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 5.00 | D             |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
| 5.00 |               | N=13 (3,4/3,3,3,4)          |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               | HVP=76                      |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
| 6.00 | D             |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
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|      |               |                             |      |                   |           | WEALD CLAY FORMATION                                                                                                                                                     |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           | Firm or stiff, fissured, grey and bluish grey CLAY with silt partings with occasional lithorelicts and shell traces. Frequent silt partings and laminations below 4.00m. |        |                                                                                                                                                                     |   |
|      |               |                             |      |                   |           |                                                                                                                                                                          |        |                                                                                                                                                                     |   |



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The Charles Parker Building  
Midland Road  
Higham Ferrers  
Northants  
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# Trial Pit Log

Trialpit No

**TP01**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526921.65 - 118895.09  
Level: 22.36

Date  
21/11/2023

Location: Sayers Common, West Sussex.

Dimensions (m):

1

Depth  
1.75

0.35

Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

| Water Strike | Samples and In Situ Testing |      |         | Depth (m) | Level (m) | Legend | Stratum Description                                                                                                                                                               |
|--------------|-----------------------------|------|---------|-----------|-----------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | Depth                       | Type | Results |           |           |        |                                                                                                                                                                                   |
|              | 0.04                        |      |         | 0.04      | 22.32     |        | GRAVEL surfacing in plastic reinforcement.<br>MADE GROUND                                                                                                                         |
|              | 0.13                        |      |         | 0.13      | 22.23     |        | Orangish-brown fine to coarse SAND.<br>MADE GROUND - SUBBASE                                                                                                                      |
|              | 0.30                        | B    |         |           |           |        | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).<br>MADE GROUND - SUBBASE                                  |
|              | 0.60                        |      |         | 0.60      | 21.76     |        | ASPHALT<br>MADE GROUND - SURFACING                                                                                                                                                |
|              | 0.75                        | ES   |         | 0.75      | 21.66     |        | Firm grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION                                 |
|              | 0.90                        | ES   | HVP=42  | 0.85      | 21.51     |        | Firm brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION |
|              | 1.20                        | B    | HVP=58  |           |           |        |                                                                                                                                                                                   |
|              | 1.75                        |      |         | 1.75      | 20.61     |        | End of pit at 1.75 m                                                                                                                                                              |

1

2

Remarks: 1. Broke out surfacing, and upper layer of subbase, very slow to penetrate through surface and (concrete) subbase layers with breaker required on both layers. 2. No groundwater entries noted during excavation. 3. Soakaway drainage test undertaken in pit, test water level remained constant for 18hr test period, test stopped. 4. Excess water drained after test and trial pit backfilled with arisings upon completion.

Stability: No collapse during excavation.



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# Trial Pit Log

Trialpit No

**TP02**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526865.15 - 118843.88  
Level: 22.81

Date  
21/11/2023

Location: Sayers Common, West Sussex.

Dimensions  
(m):

1.2

Depth  
1.90

0.35

Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

| Water<br>Strike | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                               |   |
|-----------------|-----------------------------|------|---------|--------------|--------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
|                 | Depth                       | Type | Results |              |              |        |                                                                                                                                                                                   |   |
| ▼               |                             |      |         | 0.10         | 22.71        |        | Block Paving.<br>MADE GROUND - SURFACING                                                                                                                                          | 1 |
|                 |                             |      |         | 0.20         | 22.61        |        | Orangish-brown fine to coarse SAND.<br>MADE GROUND - SUBBASE                                                                                                                      |   |
|                 |                             |      |         |              |              |        | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).<br>MADE GROUND - SUBBASE                                  |   |
|                 | 0.60                        | ES   |         | 0.50         | 22.31        |        | Firm brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION |   |
|                 |                             |      | HVP=97  |              |              |        | becoming stiff below 0.80m                                                                                                                                                        |   |
|                 | 1.00                        | B    |         |              |              |        |                                                                                                                                                                                   |   |
|                 |                             |      | HVP=120 |              |              |        |                                                                                                                                                                                   |   |
|                 |                             |      |         |              |              |        | becoming locally very stiff below 1.40m, difficult for excavator to penetrate.                                                                                                    |   |
|                 | 1.80                        | D    |         |              |              |        |                                                                                                                                                                                   |   |
|                 |                             |      |         | 1.90         | 20.91        |        | End of pit at 1.90 m                                                                                                                                                              | 2 |

Remarks: 1. Broke out surfacing, and upper layer of subbase, very slow to penetrate through surface and (concrete) subbase layers with breaker required on both layers. 2. Slight water seepage noted from base of subbase at 0.50m, no level formed. 3. Soakaway drainage test undertaken in pit, test water level remained constant for 17hr test period, test stopped. 4. Excess water drained after test and trial pit backfilled with arisings upon completion.

Stability: No collapse during excavation.



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# Trial Pit Log

Trialpit No

**TP03**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526930.82 - 118845.22  
Level: 22.71

Date  
21/11/2023

Location: Sayers Common, West Sussex.

Dimensions  
(m):

1.2

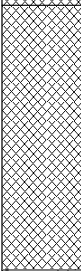
Depth  
1.80

0.35

Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

| Water<br>Strike | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                              | Stratum Description                                                                                                                                                                |
|-----------------|-----------------------------|------|---------|--------------|--------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                       | Type | Results |              |              |                                                                                     |                                                                                                                                                                                    |
|                 |                             |      |         | 0.10         | 22.61        |    | Block Paving.<br>MADE GROUND - SURFACING                                                                                                                                           |
|                 |                             |      |         | 0.20         | 22.51        |    | Orangish-brown fine to coarse SAND.<br>MADE GROUND - SUBBASE                                                                                                                       |
|                 |                             |      |         | 0.30         | 22.41        |    | ASPHALT<br>MADE GROUND - SURFACING                                                                                                                                                 |
|                 |                             |      |         | 0.65         | 22.06        |    | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).<br>MADE GROUND - SUBBASE                                   |
|                 | 0.70                        | ES   | HVP=81  |              |              |   | Stiff brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION |
|                 | 0.80                        | D    |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      | HVP=105 |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |  |                                                                                                                                                                                    |
|                 | 1.60                        | D    |         |              |              |  |                                                                                                                                                                                    |
|                 |                             |      |         | 1.80         | 20.91        |  |                                                                                                                                                                                    |
|                 |                             |      |         |              |              |                                                                                     | End of pit at 1.80 m                                                                                                                                                               |

1

2

Remarks: 1. Broke out surfacing, and upper layer of subbase, very slow to penetrate through surface and (concrete) subbase layers with breaker required on both layers. 2. No groundwater entries noted during excavation. 3. Soakaway drainage test undertaken in pit, test water level remained constant for 7hr test period, test stopped. 4. Excess water drained after test and trial pit backfilled with arisings upon completion.

Stability: No collapse during excavation.



# Trial Pit Log

## TP04

Sheet 1 of 1

Project Name: Porsche West Sussex

|             |
|-------------|
| Project No. |
| 23-0466     |

Level: 23.35

21/11/2023

Location: Sayers Common, West Sussex.

Dimensions  
(m):

---

12

Depth  
1.90

0.35

Scale  
1:10

Logged  
.JP

Client: Sytner Group Porsche

| Water<br>Strike | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend | Stratum Description                                                                                                                                                                |
|-----------------|-----------------------------|------|---------|--------------|--------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                       | Type | Results |              |              |        |                                                                                                                                                                                    |
|                 |                             |      |         | 0.10         | 23.25        |        | Block Paving.<br>MADE GROUND - SURFACING                                                                                                                                           |
|                 |                             |      |         | 0.20         | 23.15        |        | Orangish-brown fine to coarse SAND.<br>MADE GROUND - SUBBASE                                                                                                                       |
|                 |                             |      |         |              |              |        | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).<br>MADE GROUND - SUBBASE                                   |
|                 |                             |      |         | 0.50         | 22.85        |        |                                                                                                                                                                                    |
|                 | 0.60                        | ES   | HVP=88  |              |              |        | Stiff brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION |
|                 | 0.80                        | D    | HVP=102 |              |              |        |                                                                                                                                                                                    |
|                 | 1.80                        | D    |         | 1.90         | 21.45        |        | End of pit at 1.90 m                                                                                                                                                               |

Remarks: 1. Broke out surfacing, and upper layer of subbase, very slow to penetrate through surface and (concrete) subbase layers with breaker required on both layers. 2. Slight water seepage noted from 1.80m. 3. Soakaway drainage test undertaken in pit, test water level dropped by 0.03m (test zone 1.00m) over 18hr test period, test stopped. 4. Excess water drained after test and trial pit backfilled with arisings upon completion.

**Stability:** No collapse during excavation.



# Trial Pit Log

## TP05

Sheet 1 of 1

Project No.  
23-0466

Level: 24.07

21/11/2023

Dimensions  
(m):

Depth  
1.70

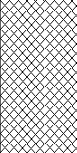
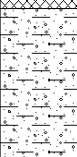
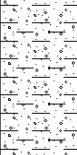
0.35

---

1Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

| Water<br>Strike | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                              |                            |                                                                                                                                                                                   |
|-----------------|-----------------------------|------|---------|--------------|--------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                       | Type | Results |              |              |                                                                                    |                                                                                                                                                  |                            |                                                                                                                                                                                   |
|                 | 0.40                        | B    | HVP=53  | 0.10         | 23.97        |   | Block Paving.<br>MADE GROUND - SURFACING                                                                                                         |                            |                                                                                                                                                                                   |
|                 |                             |      |         | 0.15         | 23.92        |   | Orangish-brown fine to coarse SAND.<br>MADE GROUND - SUBBASE                                                                                     |                            |                                                                                                                                                                                   |
|                 |                             |      |         | 0.25         | 23.82        |   | ASPHALT                                                                                                                                          |                            |                                                                                                                                                                                   |
|                 |                             |      |         |              |              |                                                                                    | MADE GROUND - SURFACING                                                                                                                          |                            |                                                                                                                                                                                   |
|                 |                             |      |         | 0.50         | 23.57        |   | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete).<br>MADE GROUND - SUBBASE |                            |                                                                                                                                                                                   |
|                 |                             |      |         |              |              |                                                                                    | 0.55                                                                                                                                             | ES                         | Firm brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone.<br>WEALD CLAY FORMATION |
|                 |                             |      |         |              |              |                                                                                    |                                                                                                                                                  |                            |                                                                                                                                                                                   |
|                 |                             |      |         | 0.90         | B            | HVP=113                                                                            |                                                                 | becoming stiff below 1.00m |                                                                                                                                                                                   |
|                 |                             |      |         |              |              |                                                                                    |                                                                                                                                                  |                            | 1.60                                                                                                                                                                              |
|                 |                             |      |         | 1.70         | 22.37        |  | End of pit at 1.70 m                                                                                                                             |                            |                                                                                                                                                                                   |

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks: | 1. Broke out surfacing, and upper layer of subbase, very slow to penetrate through surface and (concrete) subbase layers with breaker required on both layers. 2. No groundwater entries noted during excavation. 3. Soakaway drainage test undertaken in pit, test water level remained constant for 6hr test period, test stopped. 4. Excess water drained after test and trial pit backfilled with arisings upon completion. |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Stability:** No collapse during excavation.

|                                                                                                                                                                                                                                                         |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             |                                                                                                                                                                                               |  |                               |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|---------|--------------------------|--------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|--|
| <div><div>Rolton Group Limited<br/>The Charles Parker Building<br/>Midland Road<br/>Higham Ferrers<br/>Northants<br/>NN10 8DN</div></div>                               |                             |      |         | <div>Trial Pit Log</div> |              |                                                                                     |                                                                                                                                                             | <div>Trialpit No<br/>FP01</div> <div>Sheet 1 of 1</div>                                                                                                                                       |  |                               |  |  |
| Project Name: Porsche West Sussex                                                                                                                                                                                                                       |                             |      |         | Project No. 23-0466      |              | Co-ords: 526916.93 - 118865.56<br>Level: 22.84                                      |                                                                                                                                                             | Date<br>22/11/2023                                                                                                                                                                            |  |                               |  |  |
| Location: Sayers Common, West Sussex.                                                                                                                                                                                                                   |                             |      |         |                          |              | Dimensions (m):<br>Depth 1.20                                                       |                                                                                                                                                             | 1.2<br><div><div>0.35</div><div></div></div>                                                                                                                                                  |  | Scale<br>1:10<br>Logged<br>JP |  |  |
| Client: Sytner Group Porsche                                                                                                                                                                                                                            |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             |                                                                                                                                                                                               |  |                               |  |  |
| Water<br>Strike                                                                                                                                                                                                                                         | Samples and In Situ Testing |      |         | Depth<br>(m)             | Level<br>(m) | Legend                                                                              | Stratum Description                                                                                                                                         |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         | Depth                       | Type | Results |                          |              |                                                                                     |                                                                                                                                                             |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 0.10                     | 22.74        |    | Block Paving. (Strata 1)<br>MADE GROUND - SURFACING                                                                                                         |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 0.15                     | 22.69        |                                                                                     | Orangish-brown fine to coarse SAND. (Strata 2)<br>MADE GROUND - SUBBASE                                                                                     |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 0.25                     | 22.59        |                                                                                     | ASPHALT (Strata 3)<br>MADE GROUND - SURFACING                                                                                                               |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         |                          |              |                                                                                     | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete). (Strata 4)<br>MADE GROUND - SUBBASE |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 0.60                     | 22.24        |                                                                                     |                                                                            | Soft grey CLAY with rare fragments of wood. (Strata 5)<br>MADE GROUND                                                                                                                         |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 0.65                     | 22.19        |                                                                                     |                                                                                                                                                             | Stiff brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone. (Strata 6)<br>WEALD CLAY FORMATION |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         | 1.20                     | 21.64        |  | End of pit at 1.20 m                                                                                                                                        |                                                                                                                                                                                               |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             | 1                                                                                                                                                                                             |  |                               |  |  |
|                                                                                                                                                                                                                                                         |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             | 2                                                                                                                                                                                             |  |                               |  |  |
| Remarks: 1. Trial pit excavated to expose foundation, see also separate site sketch plan. 2. Broke out surfacing, and upper layer of subbase. 3. No groundwater entries noted during excavation. 4. Backfilled trial pit with arisings upon completion. |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             |                                                                                                                                                                                               |  |                               |  |  |
| Stability: No collapse during excavation.                                                                                                                                                                                                               |                             |      |         |                          |              |                                                                                     |                                                                                                                                                             |                                                                                                                                                                                               |  |                               |  |  |



# Trial Pit Log

## FP02

Sheet 1 of 1

Project Name: Porsche West Sussex

|             |
|-------------|
| Project No. |
| 23-0466     |

Level: 23.09

Date  
22/11/2023

Location: Sayers Common, West Sussex.

Dimensions  
(m):

---

12

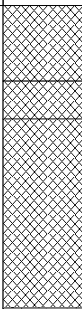
Depth  
1.40

0.35

Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

| Water<br>Strike                                                                     | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                         |  |
|-------------------------------------------------------------------------------------|-----------------------------|------|---------|--------------|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                     | Depth                       | Type | Results |              |              |                                                                                    |                                                                                                                                                             |  |
|  |                             |      |         | 0.10         | 22.99        |   | Block Paving. (Strata 1)<br>MADE GROUND - SURFACING                                                                                                         |  |
|                                                                                     |                             |      |         | 0.15         | 22.94        |                                                                                    | Orangish-brown fine to coarse SAND. (Strata 2)<br>MADE GROUND - SUBBASE                                                                                     |  |
|                                                                                     |                             |      |         |              |              |                                                                                    | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete). (Strata 3)<br>MADE GROUND - SUBBASE |  |
|                                                                                     |                             |      |         | 0.40         | 22.69        |  | Soft and firm dark grey sandy slightly gravelly CLAY with a slight organic odour. (Strata 4).<br>WEALD CLAY FORMATION                                       |  |
|                                                                                     |                             |      |         |              |              |                                                                                    |                                                                                                                                                             |  |
|                                                                                     |                             |      |         |              |              |                                                                                    |                                                                                                                                                             |  |
|                                                                                     |                             |      |         |              |              |                                                                                    |                                                                                                                                                             |  |
|                                                                                     | 1.00                        | EW   |         |              |              |                                                                                    |                                                                                                                                                             |  |
|                                                                                     | 1.10                        | ES   |         |              |              |                                                                                    |                                                                                                                                                             |  |
|                                                                                     |                             |      |         | 1.40         | 21.69        |                                                                                    | End of pit at 1.40 m                                                                                                                                        |  |

|          |                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks: | 1. Trial pit excavated to expose foundation, see also separate site sketch plan. 2. Broke out surfacing, and upper layer of subbase. 3. Moderate water entry recorded from 1.00m, slight hydrocarbon odour noted. 4. Backfilled trial pit with arisings upon completion. |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Stability:** No collapse during excavation.



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# Trial Pit Log

Trialpit No

**FP03**

Sheet 1 of 1

Project Name: Porsche West Sussex

Project No.  
23-0466

Co-ords: 526889.33 - 118797.40  
Level: 23.78

Date  
22/11/2023

Location: Sayers Common, West Sussex.

Dimensions  
(m):

1.2

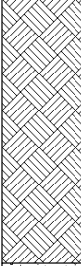
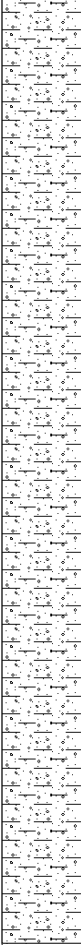
Depth  
1.60

0.35

Scale  
1:10

Logged  
JP

Client: Sytner Group Porsche

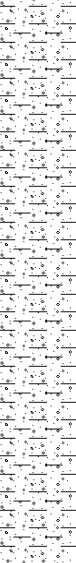
| Water<br>Strike | Samples and In Situ Testing |      |         | Depth<br>(m) | Level<br>(m) | Legend                                                                             | Stratum Description                                                                                                                                                                          |
|-----------------|-----------------------------|------|---------|--------------|--------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                 | Depth                       | Type | Results |              |              |                                                                                    |                                                                                                                                                                                              |
|                 |                             |      |         | 0.35         | 23.43        |   | TOPSOIL. (Strata 1)<br>MADE GROUND - TOPSOIL                                                                                                                                                 |
|                 |                             |      |         |              |              |  | Firm brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone. (Strata 2)<br>WEALD CLAY FORMATION |
|                 |                             |      |         |              |              |                                                                                    | becoming stiff below 0.80m                                                                                                                                                                   |
|                 |                             |      |         | 1.60         | 22.18        |                                                                                    | End of pit at 1.60 m                                                                                                                                                                         |

1

2

Remarks: 1. Trial pit excavated to expose foundation, see also separate site sketch plan. 2. Broke out surfacing, and upper layer of subbase. 3. No groundwater entries noted during excavation. 4. Backfilled trial pit with arisings upon completion.

Stability: No collapse during excavation.

|                                                                                                                                                                                                                                                         |                             |      |                               |           |                                                |                                                                                    |                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|-------------------------------|-----------|------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <div>Rolton Group Limited<br/>The Charles Parker Building<br/>Midland Road<br/>Higham Ferrers<br/>Northants<br/>NN10 8DN</div>                                         |                             |      | <div>Trial Pit Log</div>      |           |                                                | Trialpit No<br><b>FP04</b><br>Sheet 1 of 1                                         |                                                                                                                                                                                                |
| Project Name: Porsche West Sussex                                                                                                                                                                                                                       |                             |      | Project No. 23-0466           |           | Co-ords: 526854.89 - 118797.26<br>Level: 23.83 |                                                                                    |                                                                                                                                                                                                |
| Location: Sayers Common, West Sussex.                                                                                                                                                                                                                   |                             |      | Dimensions (m):<br>Depth 1.30 |           |                                                | 1.2<br><div><div></div></div>                                                      |                                                                                                                                                                                                |
| Client: Sytner Group Porsche                                                                                                                                                                                                                            |                             |      |                               |           |                                                | Scale 1:10<br>Logged JP                                                            |                                                                                                                                                                                                |
| Water Strike                                                                                                                                                                                                                                            | Samples and In Situ Testing |      |                               | Depth (m) | Level (m)                                      | Legend                                                                             | Stratum Description                                                                                                                                                                            |
|                                                                                                                                                                                                                                                         | Depth                       | Type | Results                       |           |                                                |                                                                                    |                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                         |                             |      |                               | 0.10      | 23.73                                          |   | Block Paving. (Strata 1)<br>MADE GROUND - SURFACING                                                                                                                                            |
|                                                                                                                                                                                                                                                         |                             |      |                               | 0.20      | 23.63                                          |                                                                                    | Orangish-brown fine to coarse SAND. (Strata 2)<br>MADE GROUND - SUBBASE                                                                                                                        |
|                                                                                                                                                                                                                                                         |                             |      |                               |           |                                                |                                                                                    | Light grey and brown silty sandy GRAVEL of sub-angular concrete brick. (Weakly cemented / very dense crushed concrete). (Strata 3)<br>MADE GROUND - SUBBASE                                    |
|                                                                                                                                                                                                                                                         |                             |      |                               | 0.55      | 23.28                                          |  | Stiff brown, orangish-brown and light grey slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded flint and sandstone. (Strata 4).<br>WEALD CLAY FORMATION |
|                                                                                                                                                                                                                                                         |                             |      | 1.30                          | 22.53     |                                                |                                                                                    | End of pit at 1.30 m                                                                                                                                                                           |
| Remarks: 1. Trial pit excavated to expose foundation, see also separate site sketch plan. 2. Broke out surfacing, and upper layer of subbase. 3. No groundwater entries noted during excavation. 4. Backfilled trial pit with arisings upon completion. |                             |      |                               |           |                                                |                                                                                    |                                                                                                                                                                                                |
| Stability: No collapse during excavation.                                                                                                                                                                                                               |                             |      |                               |           |                                                |                                                                                    |                                                                                                                                                                                                |

**APPENDIX C – LABORATORY TEST RESULTS**



# TEST CERTIFICATE

## DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

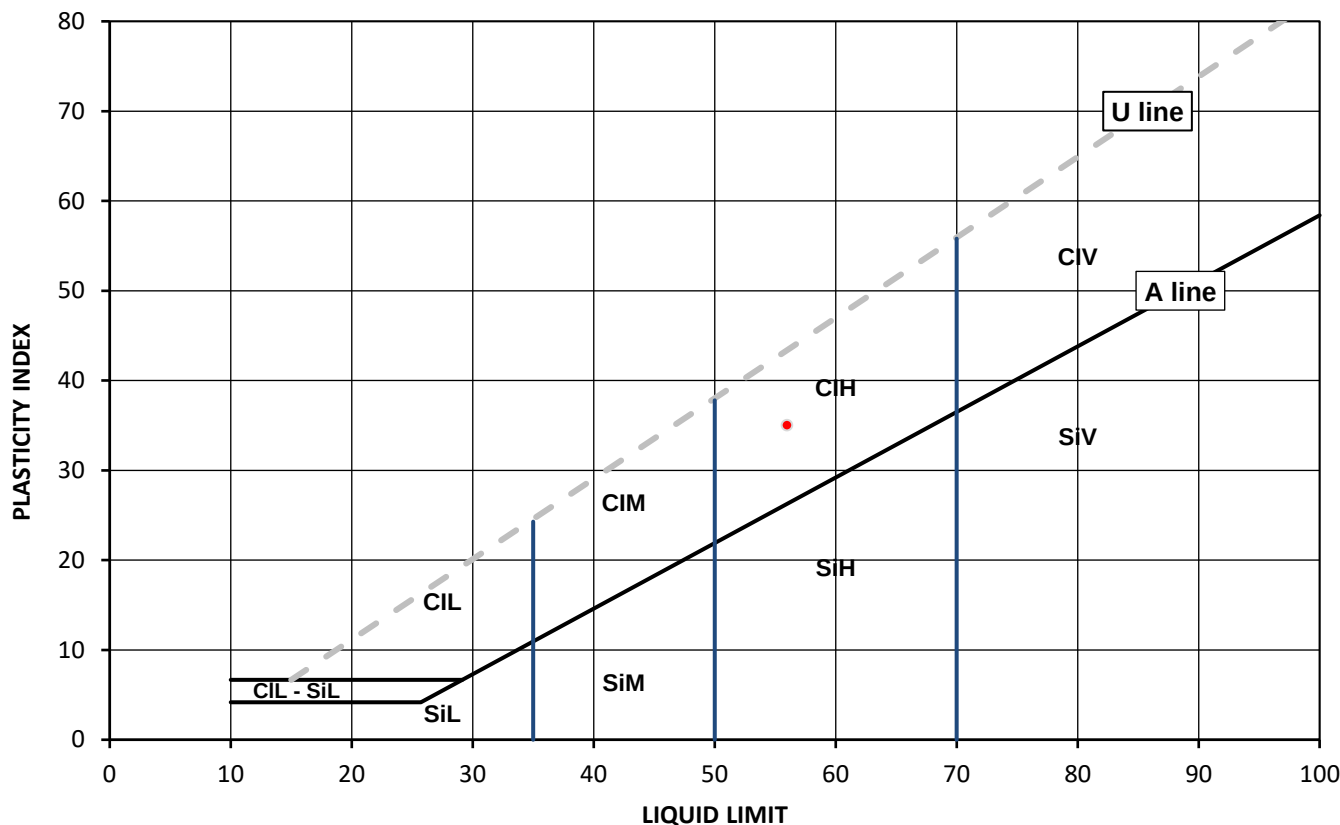
### Test Results:

Laboratory Reference: 2892438  
Hole No.: DS01  
Sample Reference: Not Given  
Sample Description: Brown slightly sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 25                                | 56                    | 21                     | 35                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## TEST CERTIFICATE

### DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

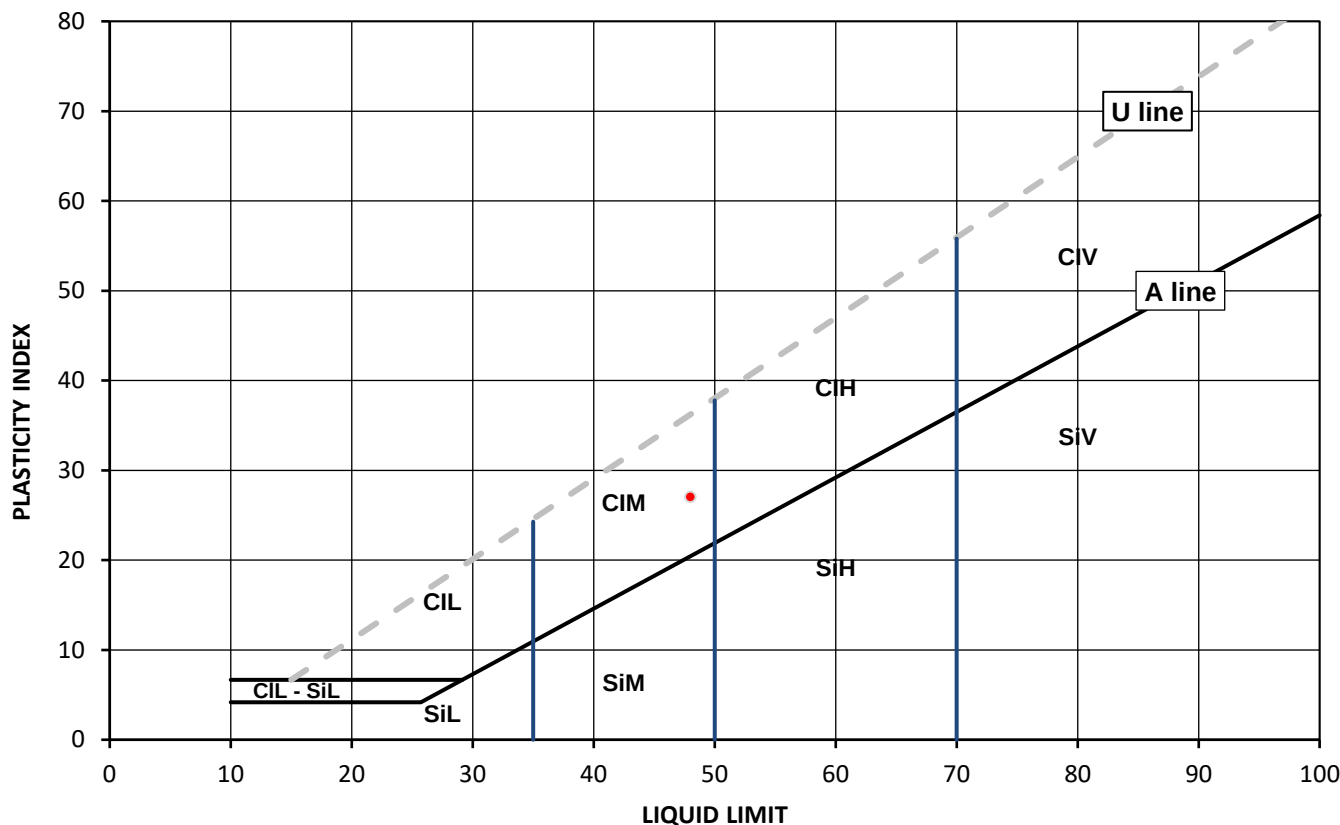
#### Test Results:

Laboratory Reference: 2892439  
Hole No.: DS01  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                | 48                    | 21                     | 27                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

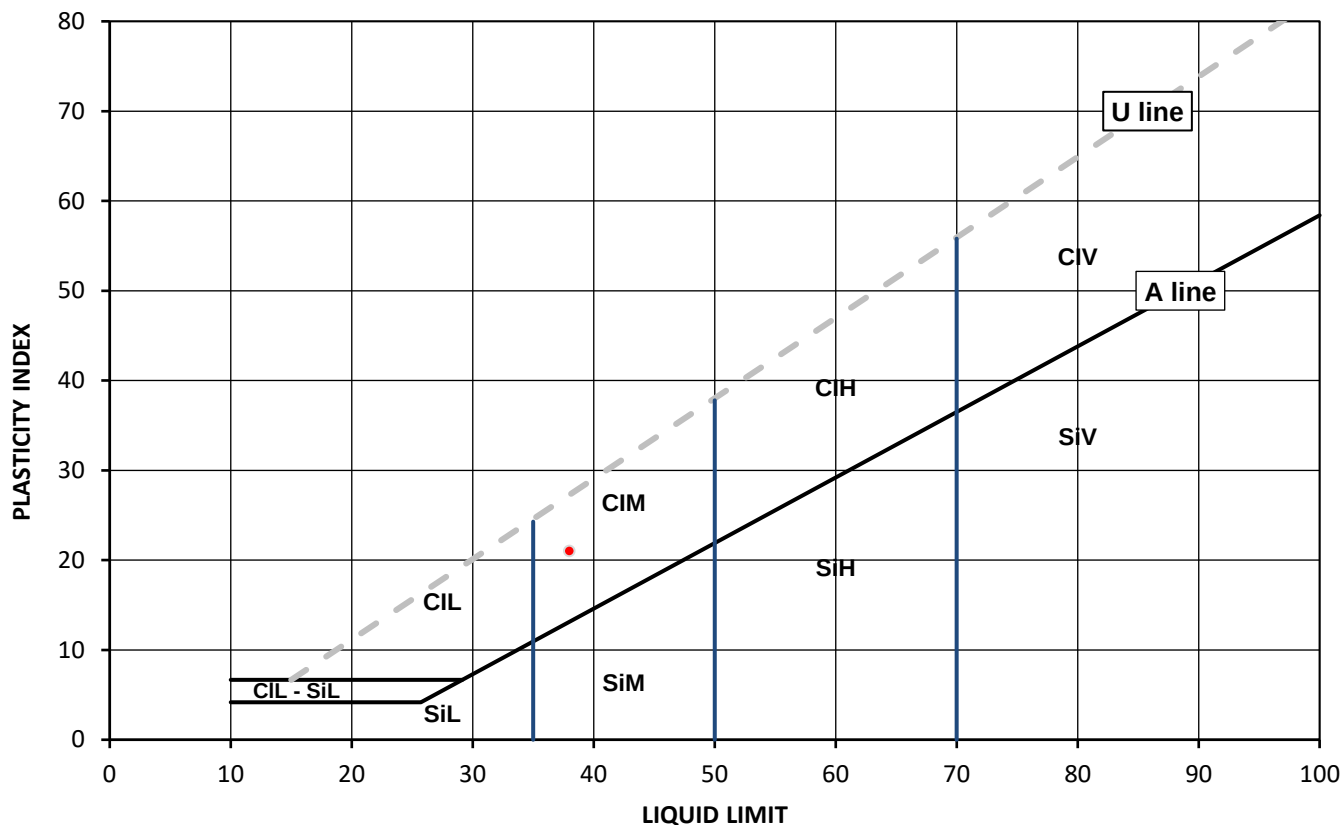
#### Test Results:

Laboratory Reference: 2892440  
Hole No.: DS02  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                | 38                    | 17                     | 21                        | 91                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

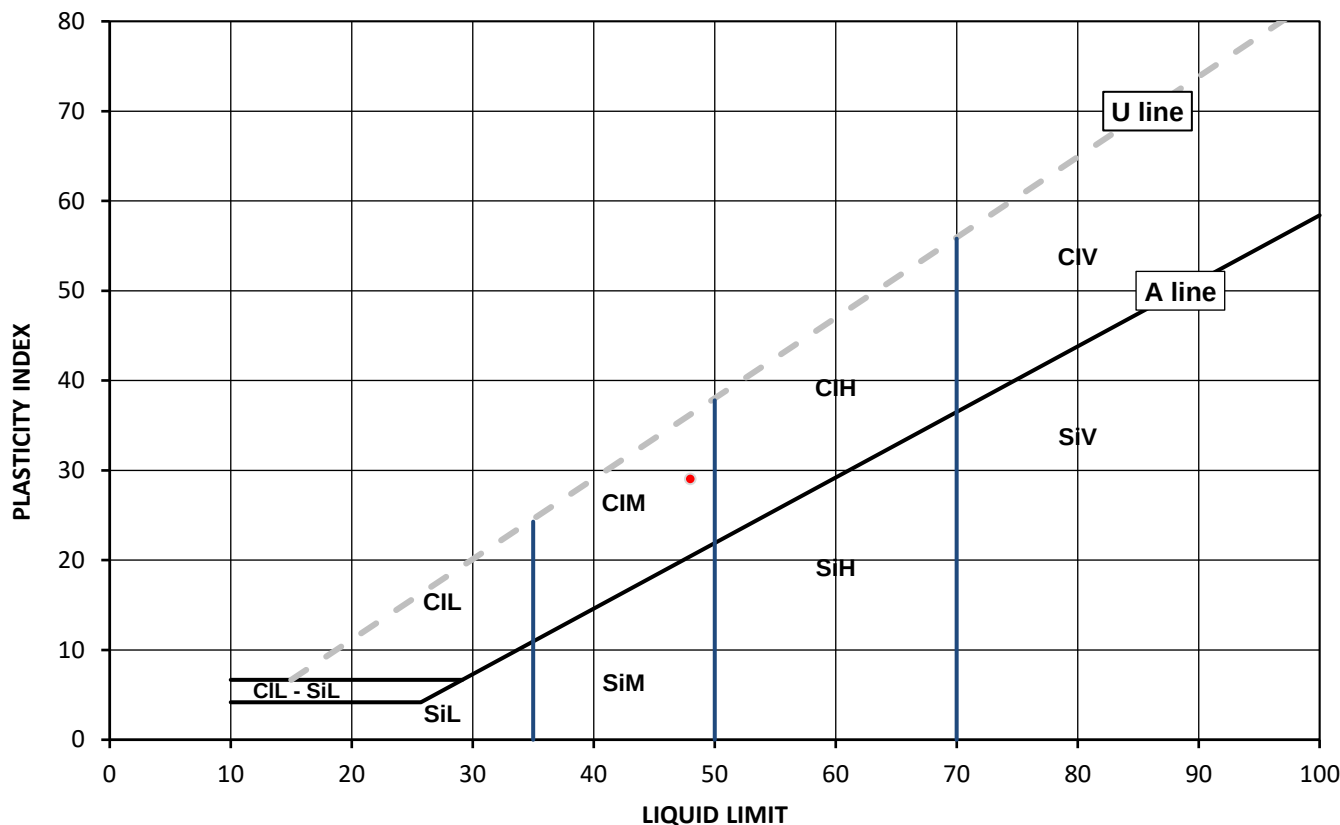
#### Test Results:

Laboratory Reference: 2892441  
Hole No.: DS02  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 3.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 15                                | 48                    | 19                     | 29                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

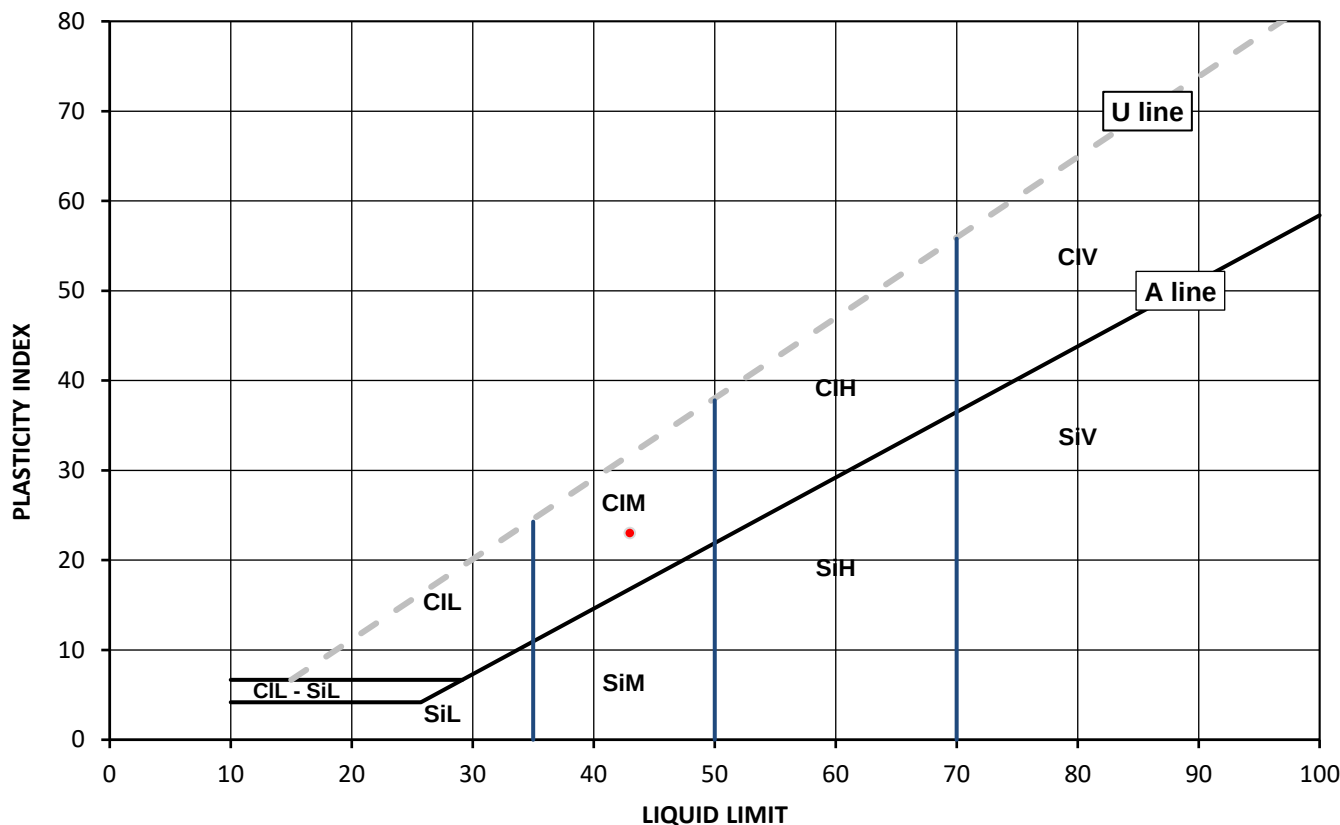
### Test Results:

Laboratory Reference: 2892442  
Hole No.: DS03  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 0.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                | 43                    | 20                     | 23                        | 98                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

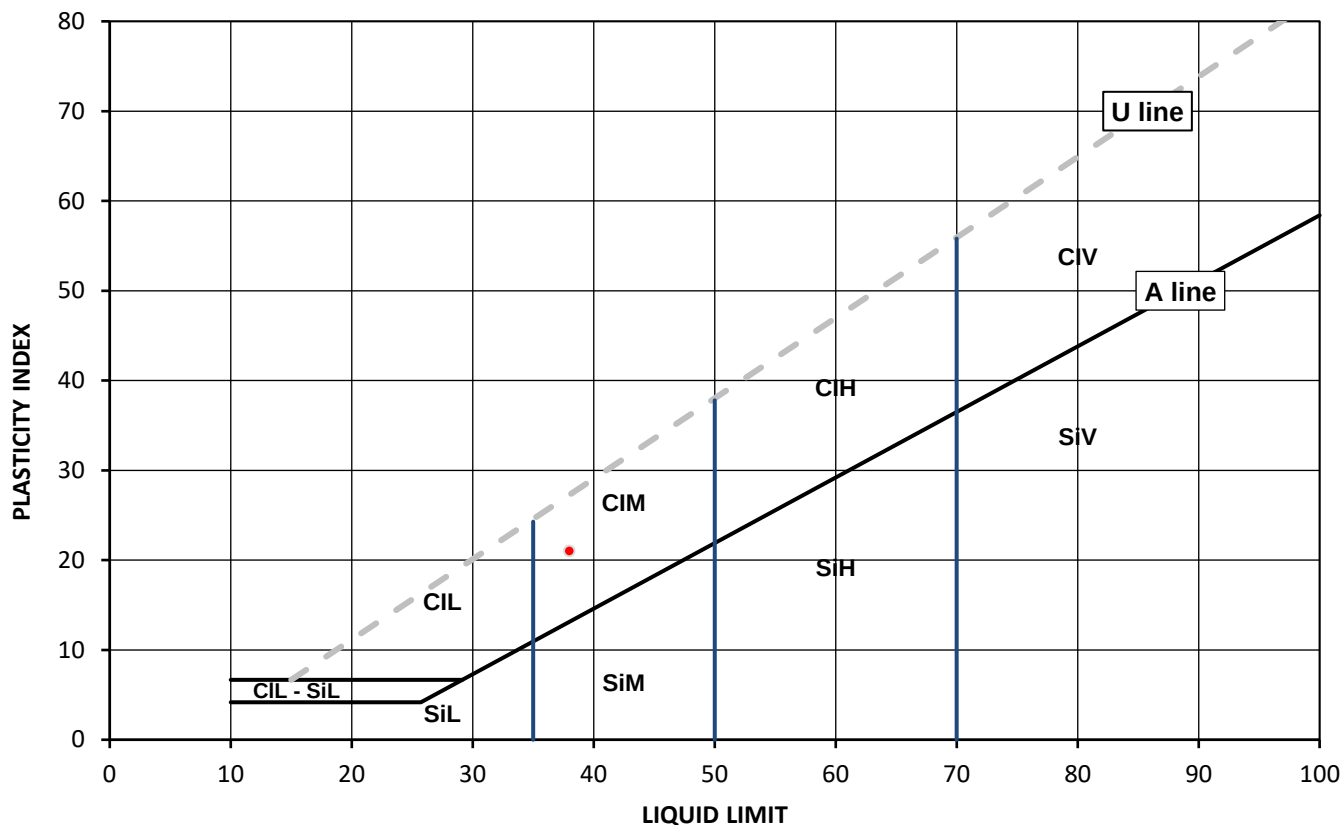
#### Test Results:

Laboratory Reference: 2892443  
Hole No.: DS03  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly sandy CLAY

Depth Top [m]: 1.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after washing to remove >425 µm

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 20                                | 38                    | 17                     | 21                        | 85                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

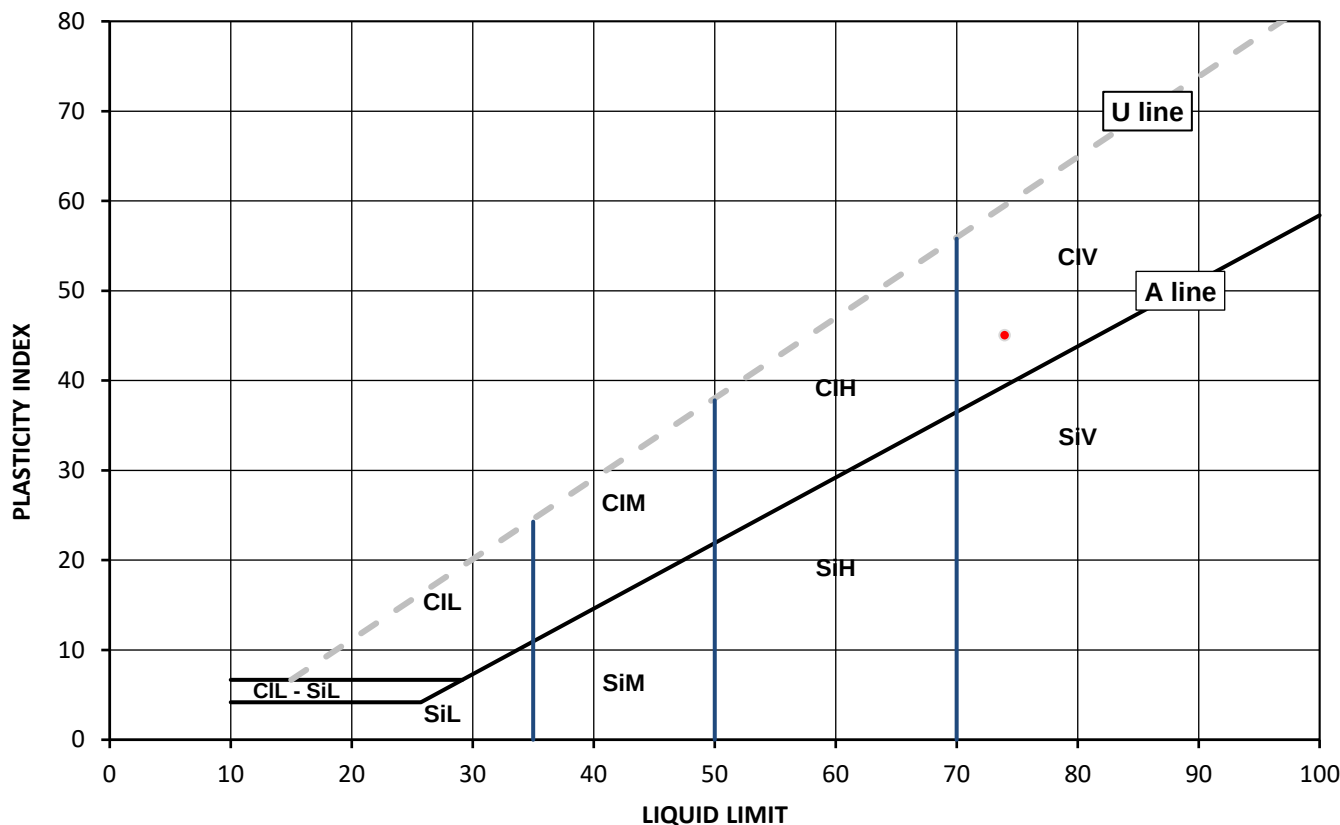
### Test Results:

Laboratory Reference: 2892444  
Hole No.: DS04  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly CLAY

Depth Top [m]: 2.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                | 74                    | 29                     | 45                        | 95                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

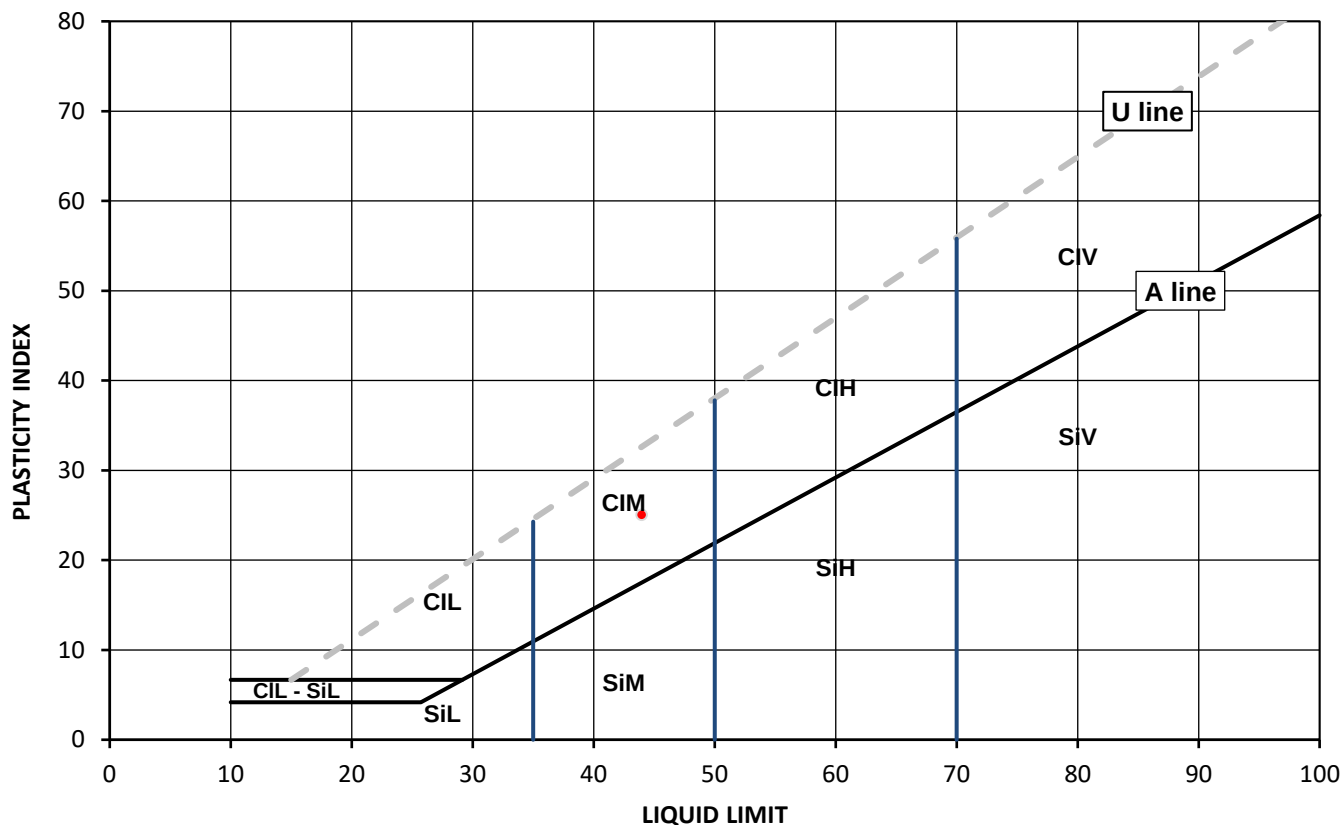
### Test Results:

Laboratory Reference: 2892445  
Hole No.: DS05  
Sample Reference: Not Given  
Sample Description: Brown sandy CLAY

Depth Top [m]: 1.50  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                | 44                    | 19                     | 25                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

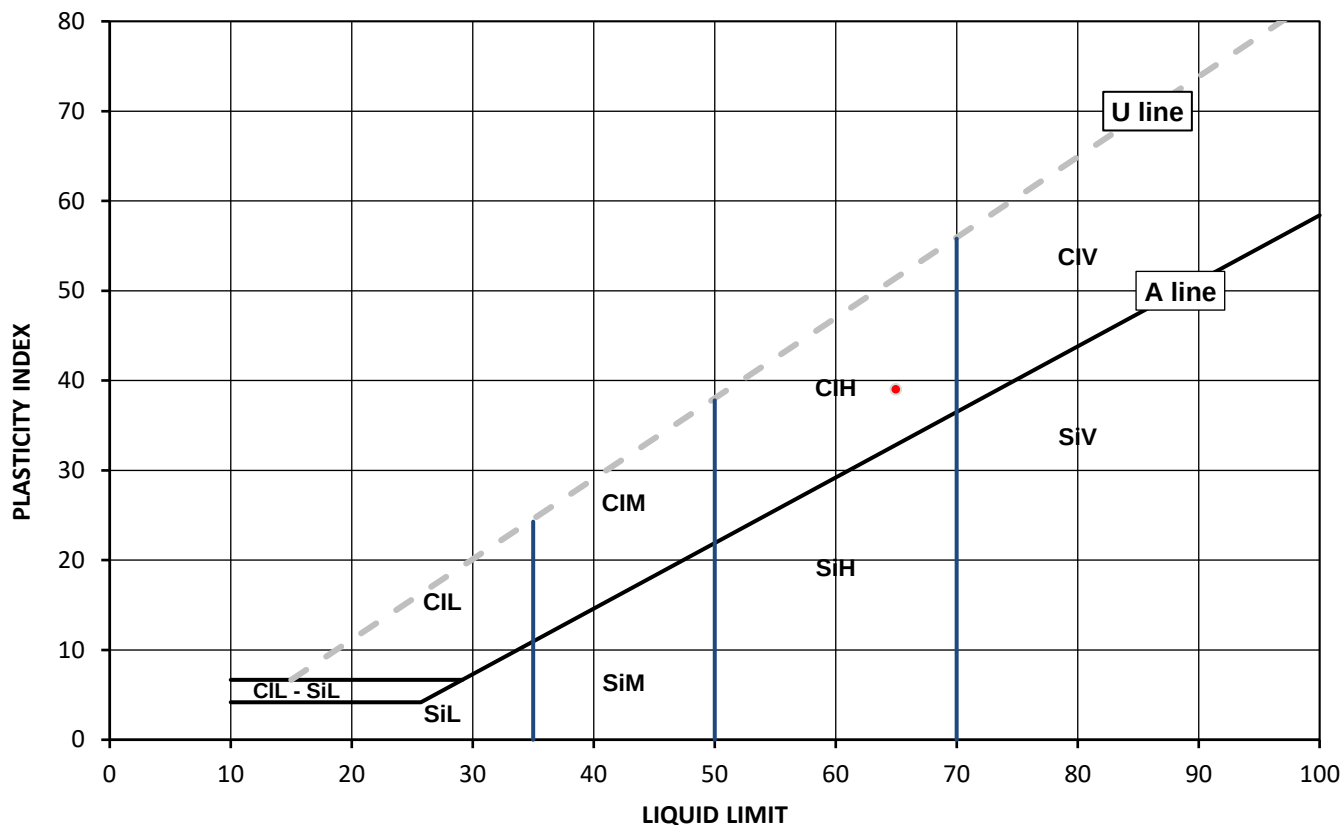
#### Test Results:

Laboratory Reference: 2892446  
Hole No.: DS05  
Sample Reference: Not Given  
Sample Description: Grey CLAY

Depth Top [m]: 4.00  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 25                                | 65                    | 26                     | 39                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11/2023  
Sampled By: Client - JP/AC

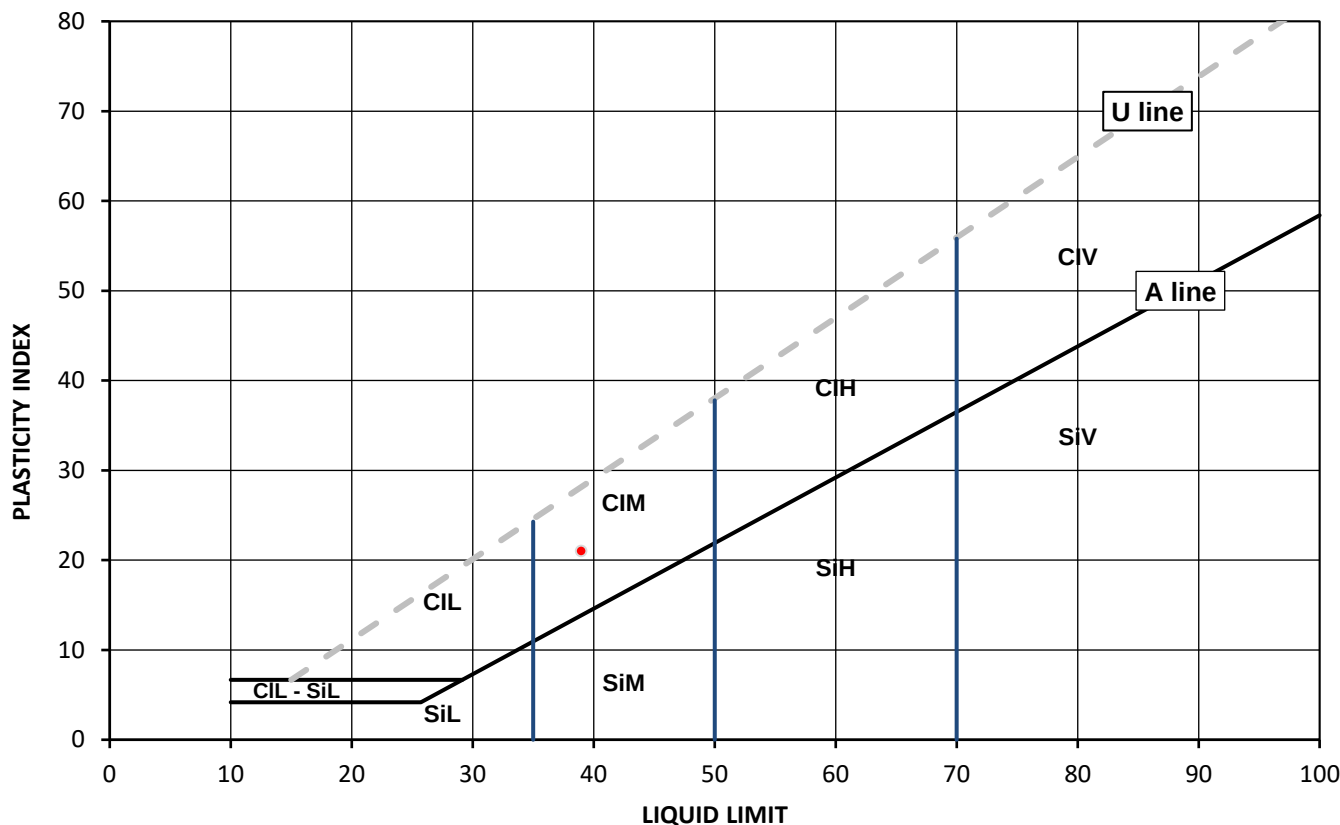
#### Test Results:

Laboratory Reference: 2892448  
Hole No.: TP01  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly sandy CLAY

Depth Top [m]: 1.20  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 22                                | 39                    | 18                     | 21                        | 99                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11/2023  
Sampled By: Client - JP/AC

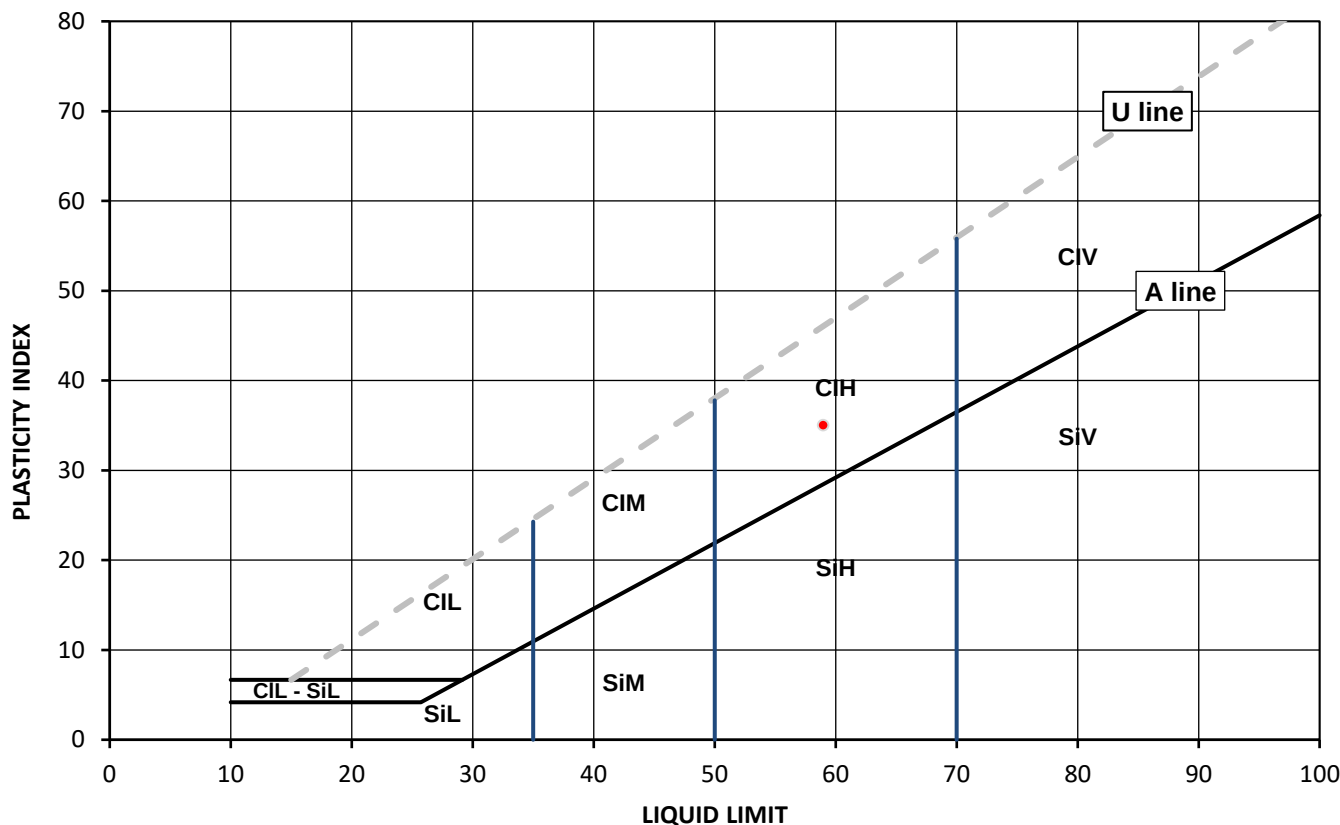
#### Test Results:

Laboratory Reference: 2892449  
Hole No.: TP02  
Sample Reference: Not Given  
Sample Description: Brown slightly gravelly slightly sandy CLAY

Depth Top [m]: 1.00  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 25                                | 59                    | 24                     | 35                        | 99                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

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Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

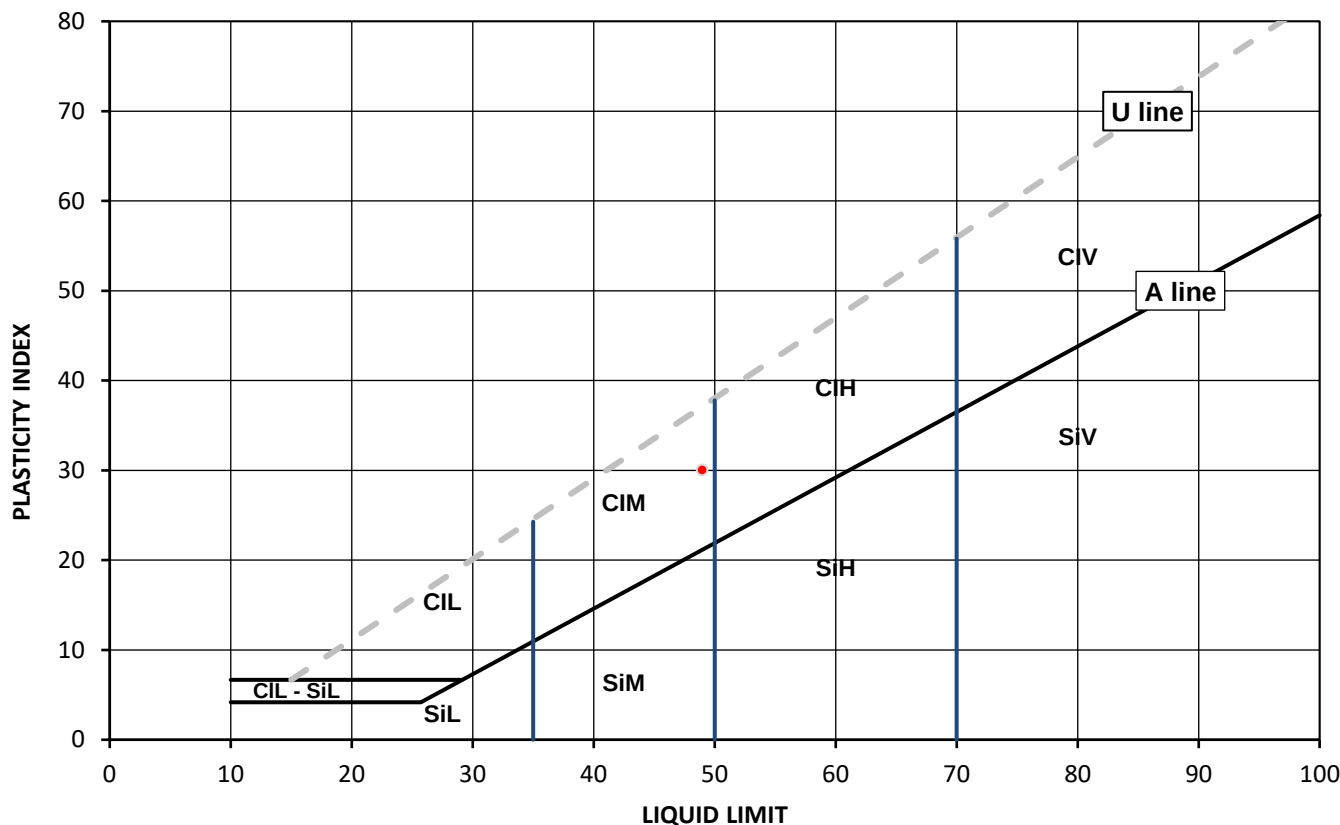
#### Test Results:

Laboratory Reference: 2892450  
Hole No.: TP03  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly sandy CLAY

Depth Top [m]: 1.60  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 19                                | 49                    | 19                     | 30                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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# TEST CERTIFICATE

## DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

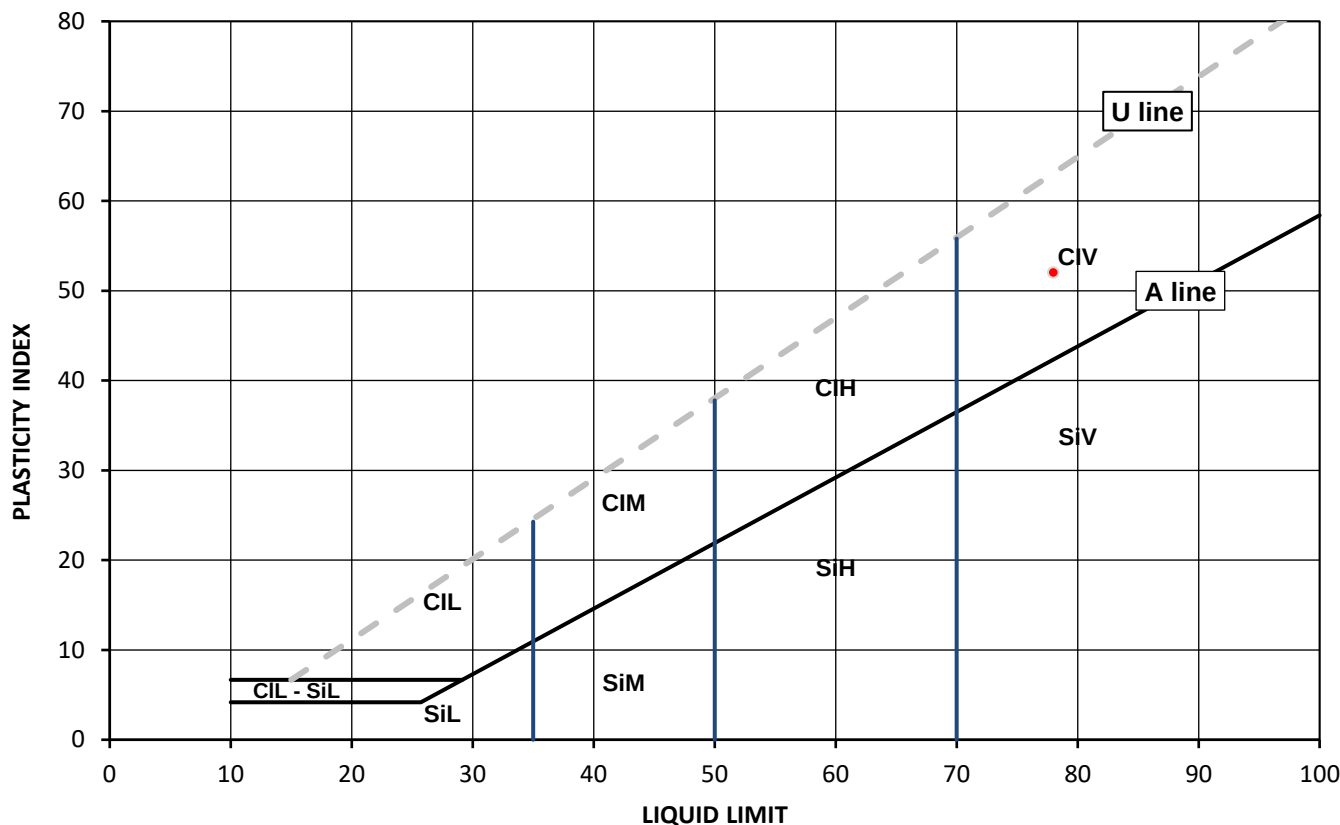
### Test Results:

Laboratory Reference: 2892451  
Hole No.: TP04  
Sample Reference: Not Given  
Sample Description: Brownish grey CLAY

Depth Top [m]: 0.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 33                                | 78                    | 26                     | 52                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    |            | 50 to 70                                                  |
|    |            | exceeding 70                                              |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

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## TEST CERTIFICATE

### DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
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Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 01/12/2023  
Sampled By: Client - JP/AC

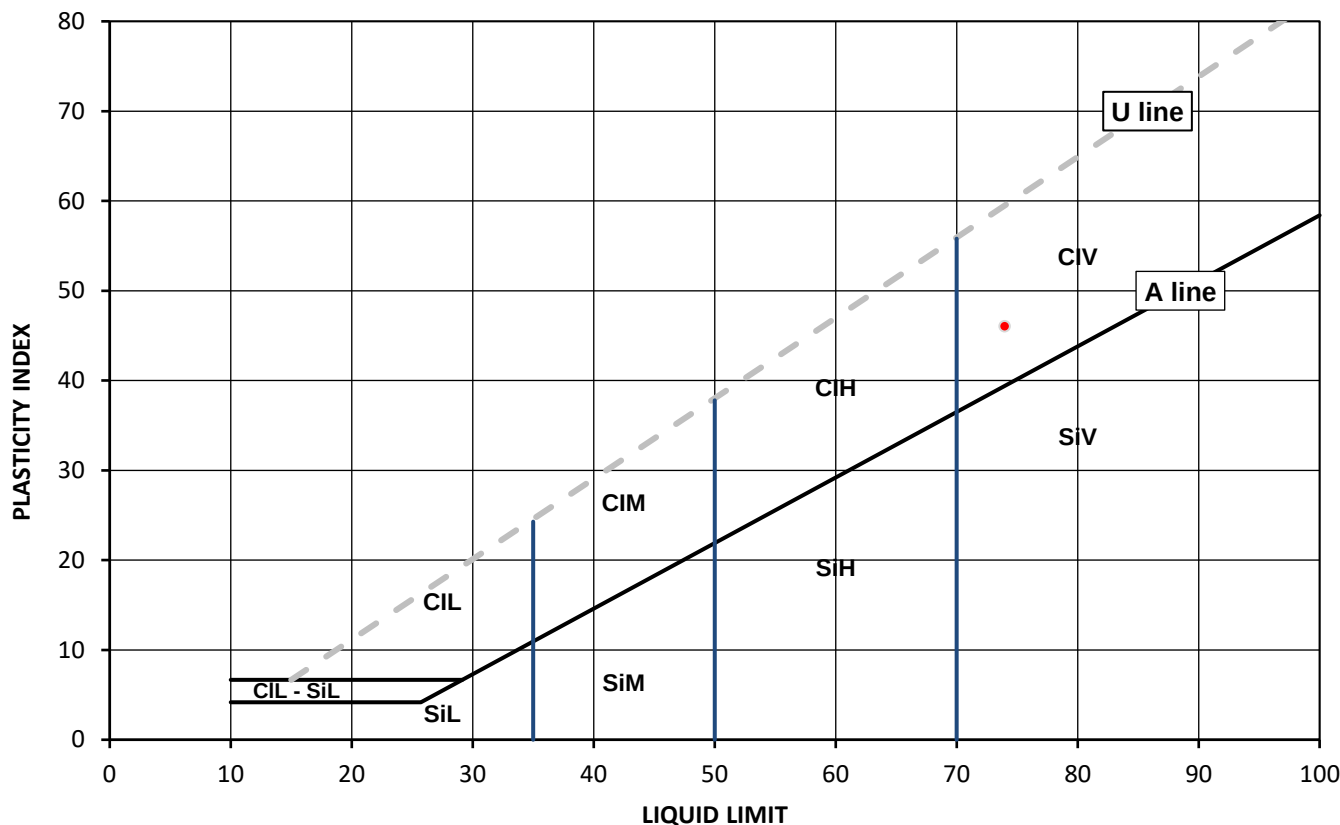
#### Test Results:

Laboratory Reference: 2892452  
Hole No.: TP04  
Sample Reference: Not Given  
Sample Description: Brownish grey slightly gravelly CLAY

Depth Top [m]: 1.80  
Depth Base [m]: Not Given  
Sample Type: D

Sample Preparation: Tested after >425 µm removed by hand

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 24                                | 74                    | 28                     | 46                        | 99                            |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|    | Plasticity | Liquid Limit                                              |
|----|------------|-----------------------------------------------------------|
| Cl | Clay       | below 35                                                  |
| Si | Silt       | 35 to 50                                                  |
|    | L          | Low                                                       |
|    | M          | Medium                                                    |
|    | H          | High                                                      |
|    | V          | Very high                                                 |
|    | O          | Organic                                                   |
|    |            | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

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# TEST CERTIFICATE

## DETERMINATION OF LIQUID AND PLASTIC LIMITS

Tested in Accordance with: BS 1377-2:1990: Clause 4.4 and 5

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11/2023  
Sampled By: Client - JP/AC

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

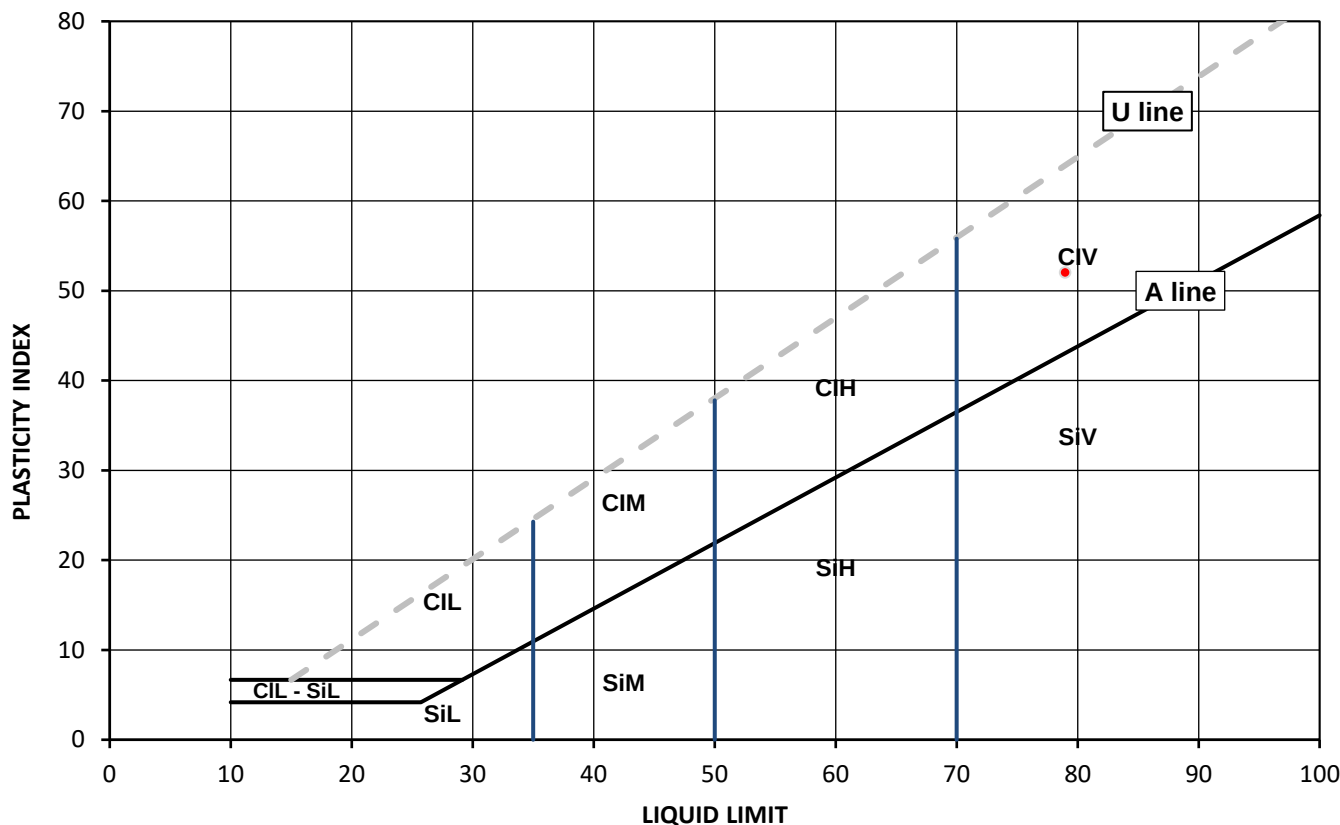
### Test Results:

Laboratory Reference: 2892454  
Hole No.: TP05  
Sample Reference: Not Given  
Sample Description: Brown CLAY

Depth Top [m]: 0.90  
Depth Base [m]: Not Given  
Sample Type: B

Sample Preparation: Tested in natural condition

| As Received Water Content [ W ] % | Liquid Limit [ WL ] % | Plastic Limit [ Wp ] % | Plasticity Index [ Ip ] % | % Passing 425µm BS Test Sieve |
|-----------------------------------|-----------------------|------------------------|---------------------------|-------------------------------|
| 32                                | 79                    | 27                     | 52                        | 100                           |



Legend, based on BS EN ISO 14688 2:2018 Geotechnical investigation and testing – Identification and classification of soil

|         | Plasticity  | Liquid Limit                                              |
|---------|-------------|-----------------------------------------------------------|
| Cl Clay | L Low       | below 35                                                  |
| Si Silt | M Medium    | 35 to 50                                                  |
|         | H High      | 50 to 70                                                  |
|         | V Very high | exceeding 70                                              |
|         | O Organic   | append to classification for organic material ( eg CIHO ) |

Note: Water Content by BS 1377-2: 1990: Clause 3.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel  
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## SUMMARY REPORT

### SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN  
Contact: Charles Heasman  
Site Address: Porsche West Sussex

Water Content by BS 1377-2:1990: Clause 3.2  
Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11 - 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11 - 01/12/2023  
Sampled By: Client - JP/AC

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description                                | Remarks           | Water Content<br>BS 1377-2 [ W ]<br><br>% | Water Content<br>BS EN ISO 17892-1<br>[ W ]<br><br>% | Atterberg       |    |    |    | Density |     |    | Total Porosity#<br><br>% |  |  |
|----------------------|----------|-----------|-----------|------------|------|--------------------------------------------|-------------------|-------------------------------------------|------------------------------------------------------|-----------------|----|----|----|---------|-----|----|--------------------------|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                                            |                   |                                           |                                                      | % Passing 425um | WL | Wp | Ip | bulk    | dry | PD |                          |  |  |
|                      |          |           | m         | m          |      |                                            |                   |                                           |                                                      |                 |    |    |    |         |     |    |                          |  |  |
| 2892438              | DS01     | Not Given | 1.20      | Not Given  | D    | Brown slightly sandy CLAY                  | Atterberg 1 Point | 25                                        |                                                      | 100             | 56 | 21 | 35 |         |     |    |                          |  |  |
| 2892439              | DS01     | Not Given | 3.00      | Not Given  | D    | Brownish grey slightly sandy CLAY          | Atterberg 1 Point | 19                                        |                                                      | 100             | 48 | 21 | 27 |         |     |    |                          |  |  |
| 2892440              | DS02     | Not Given | 1.20      | Not Given  | D    | Brownish grey slightly gravelly sandy CLAY | Atterberg 1 Point | 19                                        |                                                      | 91              | 38 | 17 | 21 |         |     |    |                          |  |  |
| 2892441              | DS02     | Not Given | 3.00      | Not Given  | D    | Brownish grey slightly sandy CLAY          | Atterberg 1 Point | 15                                        |                                                      | 100             | 48 | 19 | 29 |         |     |    |                          |  |  |
| 2892442              | DS03     | Not Given | 0.80      | Not Given  | D    | Brown slightly gravelly sandy CLAY         | Atterberg 1 Point | 22                                        |                                                      | 98              | 43 | 20 | 23 |         |     |    |                          |  |  |
| 2892443              | DS03     | Not Given | 1.50      | Not Given  | D    | Brownish grey slightly gravelly sandy CLAY | Atterberg 1 Point | 20                                        |                                                      | 85              | 38 | 17 | 21 |         |     |    |                          |  |  |
| 2892444              | DS04     | Not Given | 2.00      | Not Given  | D    | Brownish grey slightly gravelly CLAY       | Atterberg 1 Point | 22                                        |                                                      | 95              | 74 | 29 | 45 |         |     |    |                          |  |  |
| 2892445              | DS05     | Not Given | 1.50      | Not Given  | D    | Brown sandy CLAY                           | Atterberg 1 Point | 19                                        |                                                      | 100             | 44 | 19 | 25 |         |     |    |                          |  |  |
| 2892446              | DS05     | Not Given | 4.00      | Not Given  | D    | Grey CLAY                                  | Atterberg 1 Point | 25                                        |                                                      | 100             | 65 | 26 | 39 |         |     |    |                          |  |  |
| 2892448              | TP01     | Not Given | 1.20      | Not Given  | B    | Brown slightly gravelly sandy CLAY         | Atterberg 1 Point | 22                                        |                                                      | 99              | 39 | 18 | 21 |         |     |    |                          |  |  |

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Katarzyna Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## SUMMARY REPORT

### SUMMARY OF CLASSIFICATION TEST RESULTS

Tested in Accordance with:

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN  
Contact: Charles Heasman  
Site Address: Porsche West Sussex

Water Content by BS 1377-2:1990: Clause 3.2  
Atterberg by BS 1377-2: 1990: Clause 4.3 (4 Point Test), Clause 4.4 (1 Point Test) and 5

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11 - 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11 - 01/12/2023  
Sampled By: Client - JP/AC

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

### Test results

| Laboratory Reference | Hole No. | Sample    |           |            |      | Description                                 | Remarks           | Water Content<br>BS 1377-2 [ W ]<br>% | Water Content<br>BS EN ISO 17892-1<br>[ W ]<br>% | Atterberg       |    |    |    | Density |       |       | Total Porosity#<br>% |  |  |
|----------------------|----------|-----------|-----------|------------|------|---------------------------------------------|-------------------|---------------------------------------|--------------------------------------------------|-----------------|----|----|----|---------|-------|-------|----------------------|--|--|
|                      |          | Reference | Depth Top | Depth Base | Type |                                             |                   |                                       |                                                  | % Passing 425um | WL | Wp | Ip | bulk    | dry   | PD    |                      |  |  |
|                      |          |           | m         | m          |      |                                             |                   |                                       |                                                  | %               | %  | %  | %  | Mg/m3   | Mg/m3 | Mg/m3 |                      |  |  |
| 2892449              | TP02     | Not Given | 1.00      | Not Given  | B    | Brown slightly gravelly slightly sandy CLAY | Atterberg 1 Point | 25                                    |                                                  | 99              | 59 | 24 | 35 |         |       |       |                      |  |  |
| 2892450              | TP03     | Not Given | 1.60      | Not Given  | D    | Brownish grey slightly sandy CLAY           | Atterberg 1 Point | 19                                    |                                                  | 100             | 49 | 19 | 30 |         |       |       |                      |  |  |
| 2892451              | TP04     | Not Given | 0.80      | Not Given  | D    | Brownish grey CLAY                          | Atterberg 1 Point | 33                                    |                                                  | 100             | 78 | 26 | 52 |         |       |       |                      |  |  |
| 2892452              | TP04     | Not Given | 1.80      | Not Given  | D    | Brownish grey slightly gravelly CLAY        | Atterberg 1 Point | 24                                    |                                                  | 99              | 74 | 28 | 46 |         |       |       |                      |  |  |
| 2892454              | TP05     | Not Given | 0.90      | Not Given  | B    | Brown CLAY                                  | Atterberg 1 Point | 32                                    |                                                  | 100             | 79 | 27 | 52 |         |       |       |                      |  |  |
|                      |          |           |           |            |      |                                             |                   |                                       |                                                  |                 |    |    |    |         |       |       |                      |  |  |
|                      |          |           |           |            |      |                                             |                   |                                       |                                                  |                 |    |    |    |         |       |       |                      |  |  |
|                      |          |           |           |            |      |                                             |                   |                                       |                                                  |                 |    |    |    |         |       |       |                      |  |  |
|                      |          |           |           |            |      |                                             |                   |                                       |                                                  |                 |    |    |    |         |       |       |                      |  |  |
|                      |          |           |           |            |      |                                             |                   |                                       |                                                  |                 |    |    |    |         |       |       |                      |  |  |

Note: # Non accredited; NP - Non plastic

Comments:

Signed:

Katarzyna  
Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## SUMMARY REPORT

### DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11 - 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11 - 01/12/2023  
Sampled By: Client - JP/AC

### Test results

| Laboratory Reference | Hole No. | Sample    |                |                 |      | Description                                | Remarks | WC | Sample preparation / Oven temperature at the time of testing |  |  |  |
|----------------------|----------|-----------|----------------|-----------------|------|--------------------------------------------|---------|----|--------------------------------------------------------------|--|--|--|
|                      |          | Reference | Depth Top<br>m | Depth Base<br>m | Type |                                            |         |    |                                                              |  |  |  |
| 2892438              | DS01     | Not Given | 1.20           | Not Given       | D    | Brown slightly sandy CLAY                  |         | 25 | Sample was quartered, oven dried at 108.9 °C                 |  |  |  |
| 2892439              | DS01     | Not Given | 3.00           | Not Given       | D    | Brownish grey slightly sandy CLAY          |         | 19 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892440              | DS02     | Not Given | 1.20           | Not Given       | D    | Brownish grey slightly gravelly sandy CLAY |         | 19 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892441              | DS02     | Not Given | 3.00           | Not Given       | D    | Brownish grey slightly sandy CLAY          |         | 15 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892442              | DS03     | Not Given | 0.80           | Not Given       | D    | Brown slightly gravelly sandy CLAY         |         | 22 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892443              | DS03     | Not Given | 1.50           | Not Given       | D    | Brownish grey slightly gravelly sandy CLAY |         | 20 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892444              | DS04     | Not Given | 2.00           | Not Given       | D    | Brownish grey slightly gravelly CLAY       |         | 22 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892445              | DS05     | Not Given | 1.50           | Not Given       | D    | Brown sandy CLAY                           |         | 19 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892446              | DS05     | Not Given | 4.00           | Not Given       | D    | Grey CLAY                                  |         | 25 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892448              | TP01     | Not Given | 1.20           | Not Given       | B    | Brown slightly gravelly sandy CLAY         |         | 22 | Sample was quartered, oven dried at 43.7 °C                  |  |  |  |

Comments:

Signed:

*Katarzyna Koziel*

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## SUMMARY REPORT

### DETERMINATION OF WATER CONTENT

Tested in Accordance with: BS 1377-2: 1990: Clause 3.2

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

4041

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
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Contact: Charles Heasman  
Site Address: Porsche West Sussex  
Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11 - 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11 - 01/12/2023  
Sampled By: Client - JP/AC

### Test results

| Laboratory Reference | Hole No. | Sample    |                |                 |      | Description                                 | Remarks | WC | Sample preparation / Oven temperature at the time of testing |  |  |  |
|----------------------|----------|-----------|----------------|-----------------|------|---------------------------------------------|---------|----|--------------------------------------------------------------|--|--|--|
|                      |          | Reference | Depth Top<br>m | Depth Base<br>m | Type |                                             |         |    |                                                              |  |  |  |
| 2892449              | TP02     | Not Given | 1.00           | Not Given       | B    | Brown slightly gravelly slightly sandy CLAY |         | 25 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892450              | TP03     | Not Given | 1.60           | Not Given       | D    | Brownish grey slightly sandy CLAY           |         | 19 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892451              | TP04     | Not Given | 0.80           | Not Given       | D    | Brownish grey CLAY                          |         | 33 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892452              | TP04     | Not Given | 1.80           | Not Given       | D    | Brownish grey slightly gravelly CLAY        |         | 24 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
| 2892454              | TP05     | Not Given | 0.90           | Not Given       | B    | Brown CLAY                                  |         | 32 | Sample was quartered, oven dried at 106.1 °C                 |  |  |  |
|                      |          |           |                |                 |      |                                             |         |    |                                                              |  |  |  |
|                      |          |           |                |                 |      |                                             |         |    |                                                              |  |  |  |
|                      |          |           |                |                 |      |                                             |         |    |                                                              |  |  |  |
|                      |          |           |                |                 |      |                                             |         |    |                                                              |  |  |  |
|                      |          |           |                |                 |      |                                             |         |    |                                                              |  |  |  |

Comments:

Signed:

*Katarzyna Koziel*

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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4041

## TEST CERTIFICATE

### DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

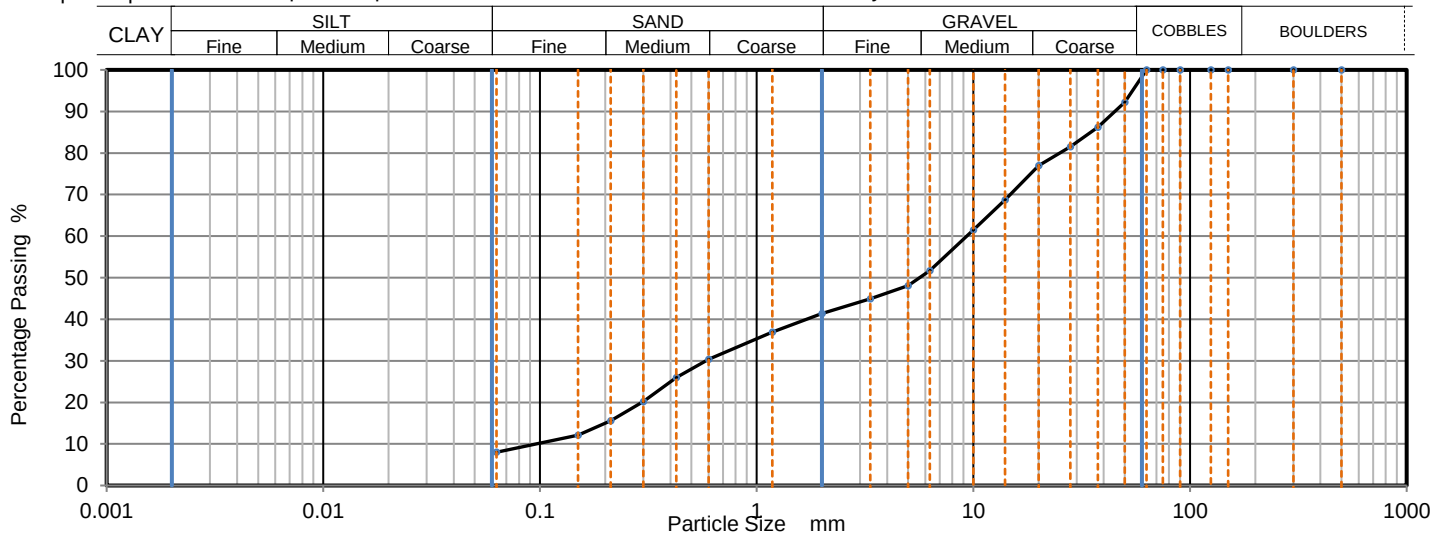
Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 21/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11/2023  
Sampled By: Client - JP/AC

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

#### Test Results:

Laboratory Reference: 2892447  
Hole No.: TP01  
Sample Reference: Not Given  
Sample Description: Brownish grey sandy GRAVEL with fragments of wood, crushed concrete, brick  
Sample Preparation: Sample was quartered, oven dried at 108.7 °C and broken down by hand.

Depth Top [m]: 0.30  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 100       |                  |           |
| 90               | 100       |                  |           |
| 75               | 100       |                  |           |
| 63               | 100       |                  |           |
| 50               | 92        |                  |           |
| 37.5             | 86        |                  |           |
| 28               | 82        |                  |           |
| 20               | 77        |                  |           |
| 14               | 69        |                  |           |
| 10               | 62        |                  |           |
| 6.3              | 52        |                  |           |
| 5                | 48        |                  |           |
| 3.35             | 45        |                  |           |
| 2                | 41        |                  |           |
| 1.18             | 37        |                  |           |
| 0.6              | 30        |                  |           |
| 0.425            | 26        |                  |           |
| 0.3              | 20        |                  |           |
| 0.212            | 16        |                  |           |
| 0.15             | 12        |                  |           |
| 0.063            | 8         |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 59         |
| Sand               | 33         |
| Fines <0.063mm     | 8          |

| Grading Analysis       |        |
|------------------------|--------|
| D100                   | 63     |
| D60                    | 9.3    |
| D30                    | 0.582  |
| D10                    | 0.0928 |
| Uniformity Coefficient | 100    |
| Curvature Coefficient  | 0.39   |

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

#### Remarks:

#### Signed:

Katarzyna Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

Opinions and interpretations expressed herein are outside of the scope of the UKAS Accreditation. This report may not be reproduced other than in full without the prior written approval of the issuing laboratory. The results included within the report relate only to the sample(s) submitted for testing.



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## TEST CERTIFICATE

### DETERMINATION OF PARTICLE SIZE DISTRIBUTION

Tested in Accordance with: BS 1377-2: 1990

i2 Analytical Ltd  
Unit 8 Harrowden Road  
Brackmills Industrial Estate  
Northampton NN4 7EB



Environmental Science

Client: Rolton Group Ltd  
Client Address: The Charles Parker Building, Midland Road,  
Higham Ferrers, NN10 8DN

Contact: Charles Heasman  
Site Address: Porsche West Sussex

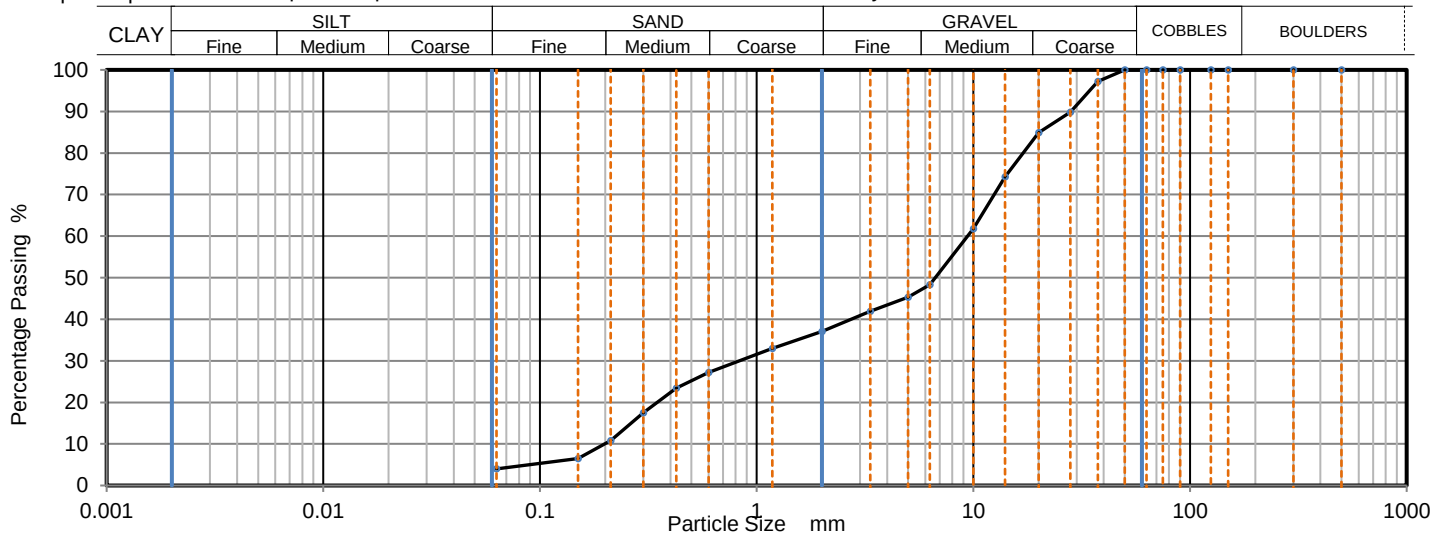
Client Reference: 23-0466  
Job Number: 23-71516-1  
Date Sampled: 22/11/2023  
Date Received: 23/11/2023  
Date Tested: 30/11/2023  
Sampled By: Client - JP/AC

Testing carried out at i2 Analytical Limited, ul. Pionierow, 41-711 Ruda Slaska, Poland

#### Test Results:

Laboratory Reference: 2892453  
Hole No.: TP05  
Sample Reference: Not Given  
Sample Description: Brownish grey sandy GRAVEL with fragments of crushed concrete  
Sample Preparation: Sample was quartered, oven dried at 108.9 °C and broken down by hand.

Depth Top [m]: 0.40  
Depth Base [m]: Not Given  
Sample Type: B



| Sieving          |           | Sedimentation    |           |
|------------------|-----------|------------------|-----------|
| Particle Size mm | % Passing | Particle Size mm | % Passing |
| 500              | 100       |                  |           |
| 300              | 100       |                  |           |
| 150              | 100       |                  |           |
| 125              | 100       |                  |           |
| 90               | 100       |                  |           |
| 75               | 100       |                  |           |
| 63               | 100       |                  |           |
| 50               | 100       |                  |           |
| 37.5             | 97        |                  |           |
| 28               | 90        |                  |           |
| 20               | 85        |                  |           |
| 14               | 74        |                  |           |
| 10               | 62        |                  |           |
| 6.3              | 48        |                  |           |
| 5                | 45        |                  |           |
| 3.35             | 42        |                  |           |
| 2                | 37        |                  |           |
| 1.18             | 33        |                  |           |
| 0.6              | 27        |                  |           |
| 0.425            | 23        |                  |           |
| 0.3              | 18        |                  |           |
| 0.212            | 11        |                  |           |
| 0.15             | 7         |                  |           |
| 0.063            | 4         |                  |           |

| Sample Proportions | % dry mass |
|--------------------|------------|
| Very coarse        | 0          |
| Gravel             | 63         |
| Sand               | 33         |
| Fines <0.063mm     | 4          |

| Grading Analysis       |    |
|------------------------|----|
| D100                   | mm |
| D60                    | mm |
| D30                    | mm |
| D10                    | mm |
| Uniformity Coefficient |    |
| Curvature Coefficient  |    |

Uniformity and Curvature Coefficient calculated in accordance with BS EN ISO 14688-2:2018

Note: Tested in Accordance with BS1377:Part 2:1990, clause 9.2

Remarks:

Signed:

Katarzyna Koziel

Katarzyna Koziel  
Senior Reporting Specialist  
for and on behalf of i2 Analytical Ltd

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## **Analytical Report Number : 23-71517**

|                             |                     |                                                        |            |
|-----------------------------|---------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Porsche West Sussex | <b>Samples received on:</b>                            | 23/11/2023 |
| <b>Your job number:</b>     | 23-0466             | <b>Samples instructed on/<br/>Analysis started on:</b> | 27/11/2023 |
| <b>Your order number:</b>   |                     | <b>Analysis completed by:</b>                          | 05/12/2023 |
| <b>Report Issue Number:</b> | 1                   | <b>Report issued on:</b>                               | 06/12/2023 |
| <b>Samples Analysed:</b>    | 7 soil samples      |                                                        |            |



**Signed:**

Anna Goc  
PL Head of Reporting Team  
**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 |

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

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.

Analytical Report Number: 23-71517  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2892455       | 2892456       | 2892457       | 2892458       | 2892459       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS01          | DS03          | DS06          | TP01          | TP04          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 2.00          | 2.00          | 2.00          | 0.30          | 0.80          |
| Date Sampled                            |       |                    |                         | 22/11/2023    | 22/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | 36            | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 21            | 15            | 17            | 11            | 22            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1             | 1             | 1             | 1             | 0.5           |

#### General Inorganics

|                                                                         |          |         |        |      |       |       |       |        |
|-------------------------------------------------------------------------|----------|---------|--------|------|-------|-------|-------|--------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 6.6  | 7.5   | 8.3   | 10.7  | 6.5    |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 3.06 | 0.015 | 0.015 | 0.361 | 0.068  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 2.45 | 0.031 | 0.052 | 0.326 | 0.0624 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 2450 | 31    | 52    | 326   | 62.4   |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 1.36 | 0.006 | 0.007 | 0.109 | 0.028  |

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

Analytical Report Number: 23-71517  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2892460       | 2892461       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP04          | TP05          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.80          | 0.40          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 22/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | 40            |
| Moisture Content                        | %     | 0.01               | NONE                    | 20            | 7.7           |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.5           | 0.5           |

#### General Inorganics

|                                                                         |          |         |        |       |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 7     | 10.7  |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.094 | 0.218 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.245 | 0.349 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 245   | 349   |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.03  | 0.08  |

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

**Analytical Report Number : 23-71517**

**Project / Site name: Porsche West Sussex**

\* 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 *                   |
|-------------------|------------------|---------------|-----------|----------------------------------------|
| 2892455           | DS01             | None Supplied | 2         | Brown clay and sand with gravel.       |
| 2892456           | DS03             | None Supplied | 2         | Brown clay and sand with gravel.       |
| 2892457           | DS06             | None Supplied | 2         | Brown clay and sand.                   |
| 2892458           | TP01             | None Supplied | 0.3       | Brown sand with stones and vegetation. |
| 2892459           | TP04             | None Supplied | 0.8       | Brown clay.                            |
| 2892460           | TP04             | None Supplied | 1.8       | Brown clay.                            |
| 2892461           | TP05             | None Supplied | 0.4       | Brown sand with gravel and stones.     |

**Analytical Report Number : 23-71517**  
**Project / Site name: Porsche West Sussex**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                     | In house method.                                                           | L019-UK/PL    | W                  | NONE                 |
| 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               |
| 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. | L019-UK/PL    | D                  | NONE                 |
| Total Sulphate in soil as %                        | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                         | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil                   | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                           | L038-PL       | D                  | MCERTS               |

**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.**

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## **Analytical Report Number : 23-72481**

|                             |                                  |                                                        |            |
|-----------------------------|----------------------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Porsche West Sussex              | <b>Samples received on:</b>                            | 23/11/2023 |
| <b>Your job number:</b>     | 23-0466                          | <b>Samples instructed on/<br/>Analysis started on:</b> | 01/12/2023 |
| <b>Your order number:</b>   |                                  | <b>Analysis completed by:</b>                          | 13/12/2023 |
| <b>Report Issue Number:</b> | 1                                | <b>Report issued on:</b>                               | 13/12/2023 |
| <b>Samples Analysed:</b>    | 25 soil samples - 1 water sample |                                                        |            |

**Signed:**

*Izabela Wójcik*  
Izabela Wójcik  
Senior Reporting Specialist  
**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

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

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.

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897180       | 2897181       | 2897182       | 2897183       | 2897184       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS01          | DS01          | DS01          | DS02          | DS02          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.60          | 0.90          | 1.50          | 0.40          | 0.80          |
| Date Sampled                            |       |                    |                         | 22/11/2023    | 22/11/2023    | 22/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | 44            | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 4.9           | 17            | 17            | 4.6           | 15            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           | 1.3           | 0.3           | 0.3           | 0.3           |

| Asbestos in Soil Screen / Identification Name | Type | N/A   | ISO 17025 | Chrysotile | -   | -   | -            | -   |
|-----------------------------------------------|------|-------|-----------|------------|-----|-----|--------------|-----|
| Asbestos in Soil                              | Type | N/A   | ISO 17025 | Detected   | I/S | -   | Not-detected | I/S |
| Asbestos Quantification (Stage 2)             | %    | 0.001 | ISO 17025 | < 0.001    | -   | -   | -            | -   |
| Asbestos Quantification Total                 | %    | 0.001 | ISO 17025 | < 0.001    | -   | -   | -            | -   |
| Asbestos Analyst ID                           | N/A  | N/A   | N/A       | DSA        | EC  | N/A | DSA          | EC  |

#### General Inorganics

| pH - Automated                                                          | pH Units | N/A     | MCERTS | 11.5  | 6.2   | 7.8  | 10.2   | 8.1    |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|------|--------|--------|
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | -    | < 1.0  | < 1.0  |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | 0.137 | 4.82 | -      | 0.019  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.11  | 0.419 | 2.33 | 0.0497 | 0.0592 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | -     | 419   | 2330 | -      | 59.2   |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | 0.063 | 1.75 | -      | 0.011  |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | 2.7   | 0.6   | -    | 7.5    | 0.3    |

#### Total Phenols

| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | - | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|---|-------|-------|
|----------------------------|-------|---|--------|-------|-------|---|-------|-------|

#### Speciated PAHs

|                        |       |      |           |      |        |   |        |        |
|------------------------|-------|------|-----------|------|--------|---|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | 0.15 | < 0.05 | - | 0.1    | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.08 | < 0.05 | - | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.44 | < 0.05 | - | 0.51   | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.46 | < 0.05 | - | 0.33   | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 2.8  | < 0.05 | - | 1.7    | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.69 | < 0.05 | - | 0.68   | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 2.7  | < 0.05 | - | 3.6    | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 2.3  | < 0.05 | - | 3      | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 0.97 | < 0.05 | - | 1.1    | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1    | < 0.05 | - | 1.3    | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1    | < 0.05 | - | 1.3    | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.36 | < 0.05 | - | 0.4    | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 0.87 | < 0.05 | - | 0.87   | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.35 | < 0.05 | - | 0.41   | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.09 | < 0.05 | - | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.4  | < 0.05 | - | 0.57   | < 0.05 |

#### Total PAH

| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 14.7 | < 0.80 | - | 15.8 | < 0.80 |
|-----------------------------|-------|-----|-----------|------|--------|---|------|--------|
|-----------------------------|-------|-----|-----------|------|--------|---|------|--------|

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       | 2897180       | 2897181            | 2897182                 | 2897183       | 2897184       |
|-----------------------------------------|---------------|--------------------|-------------------------|---------------|---------------|
| Sample Reference                        | DS01          | DS01               | DS01                    | DS02          | DS02          |
| Sample Number                           | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Depth (m)                               | 0.60          | 0.90               | 1.50                    | 0.40          | 0.80          |
| Date Sampled                            | 22/11/2023    | 22/11/2023         | 22/11/2023              | 21/11/2023    | 21/11/2023    |
| Time Taken                              | None Supplied | None Supplied      | None Supplied           | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units         | Limit of detection | Accreditation<br>Status |               |               |

#### Heavy Metals / Metalloids

|                                   |       |     |        |       |       |   |       |       |
|-----------------------------------|-------|-----|--------|-------|-------|---|-------|-------|
| Arsenic (aqua regia extractable)  | mg/kg | 1   | MCERTS | 7.9   | 28    | - | 5.7   | 13    |
| Boron (water soluble)             | mg/kg | 0.2 | MCERTS | 1.2   | 0.5   | - | 0.5   | 0.4   |
| Cadmium (aqua regia extractable)  | mg/kg | 0.2 | MCERTS | < 0.2 | < 0.2 | - | < 0.2 | < 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    | 37    | - | 57    | 32    |
| Copper (aqua regia extractable)   | mg/kg | 1   | MCERTS | 15    | 35    | - | 21    | 19    |
| Lead (aqua regia extractable)     | mg/kg | 1   | MCERTS | 16    | 24    | - | 12    | 31    |
| 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 | 13    | 35    | - | 8.8   | 18    |
| Selenium (aqua regia extractable) | mg/kg | 1   | MCERTS | < 1.0 | < 1.0 | - | < 1.0 | < 1.0 |
| Zinc (aqua regia extractable)     | mg/kg | 1   | MCERTS | 50    | 100   | - | 51    | 50    |

#### Monoaromatics & Oxygenates

|                                    |       |   |        |   |   |   |       |   |
|------------------------------------|-------|---|--------|---|---|---|-------|---|
| Benzene                            | µg/kg | 5 | MCERTS | - | - | - | < 5.0 | - |
| Toluene                            | µg/kg | 5 | MCERTS | - | - | - | < 5.0 | - |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | - | - | - | < 5.0 | - |
| p & m-xylene                       | µg/kg | 5 | MCERTS | - | - | - | < 5.0 | - |
| o-xylene                           | µg/kg | 5 | MCERTS | - | - | - | < 5.0 | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | - | - | - | < 5.0 | - |

#### Petroleum Hydrocarbons

|                                                                |       |      |        |     |      |   |         |      |
|----------------------------------------------------------------|-------|------|--------|-----|------|---|---------|------|
| TPH C10 - C40 <small>EH_CU_ID_TOTAL</small>                    | mg/kg | 10   | MCERTS | 490 | < 10 | - | -       | < 10 |
| TPH-CWG - Aliphatic >EC5 - EC6 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -   | -    | - | < 0.020 | -    |
| TPH-CWG - Aliphatic >EC6 - EC8 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -   | -    | - | < 0.020 | -    |
| TPH-CWG - Aliphatic >EC8 - EC10 <small>HS_ID_AL</small>        | mg/kg | 0.05 | NONE   | -   | -    | - | < 0.050 | -    |
| TPH-CWG - Aliphatic >EC10 - EC12 <small>EH_CU_ID_AL</small>    | mg/kg | 1    | MCERTS | -   | -    | - | 2.2     | -    |
| TPH-CWG - Aliphatic >EC12 - EC16 <small>EH_CU_ID_AL</small>    | mg/kg | 2    | MCERTS | -   | -    | - | 49      | -    |
| TPH-CWG - Aliphatic >EC16 - EC21 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -   | -    | - | 55      | -    |
| TPH-CWG - Aliphatic >EC21 - EC35 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -   | -    | - | 420     | -    |
| TPH-CWG - Aliphatic (EC5 - EC35) <small>EH_CU+HS_ID_AL</small> | mg/kg | 10   | NONE   | -   | -    | - | 520     | -    |
| TPH-CWG - Aromatic >EC5 - EC7 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -   | -    | - | < 0.010 | -    |
| TPH-CWG - Aromatic >EC7 - EC8 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -   | -    | - | < 0.010 | -    |
| TPH-CWG - Aromatic >EC8 - EC10 <small>HS_ID_AR</small>         | mg/kg | 0.05 | NONE   | -   | -    | - | < 0.050 | -    |
| TPH-CWG - Aromatic >EC10 - EC12 <small>EH_CU_ID_AR</small>     | mg/kg | 1    | MCERTS | -   | -    | - | 1.8     | -    |
| TPH-CWG - Aromatic >EC12 - EC16 <small>EH_CU_ID_AR</small>     | mg/kg | 2    | MCERTS | -   | -    | - | 32      | -    |
| TPH-CWG - Aromatic >EC16 - EC21 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -   | -    | - | 74      | -    |
| TPH-CWG - Aromatic >EC21 - EC35 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -   | -    | - | 560     | -    |
| TPH-CWG - Aromatic (EC5 - EC35) <small>EH_CU+HS_ID_AR</small>  | mg/kg | 10   | NONE   | -   | -    | - | 660     | -    |

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

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897185       | 2897186       | 2897187       | 2897188       | 2897189       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS02          | DS03          | DS03          | DS03          | DS04          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 3.50          | 0.40          | 1.00          | 3.00          | 0.90          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 22/11/2023    | 22/11/2023    | 22/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 13            | 12            | 17            | 19            | 15            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           | 0.3           | 0.3           | 1.3           | 1.3           |

| Asbestos in Soil Screen / Identification Name | Type | N/A   | ISO 17025 | -   | -            | -   | -   | -            |
|-----------------------------------------------|------|-------|-----------|-----|--------------|-----|-----|--------------|
| Asbestos in Soil                              | Type | N/A   | ISO 17025 | -   | Not-detected | I/S | -   | Not-detected |
| Asbestos Quantification (Stage 2)             | %    | 0.001 | ISO 17025 | -   | -            | -   | -   | -            |
| Asbestos Quantification Total                 | %    | 0.001 | ISO 17025 | -   | -            | -   | -   | -            |
| Asbestos Analyst ID                           | N/A  | N/A   | N/A       | N/A | SPU          | EC  | N/A | SPU          |

#### General Inorganics

| pH - Automated                                                          | pH Units | N/A     | MCERTS | 7.7   | 8.2   | 7.8    | 7.6    | 5.6   |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|--------|--------|-------|
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | -     | < 1.0 | < 1.0  | -      | < 1.0 |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | 0.019 | 0.151 | 0.028  | 0.018  | -     |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.108 | 0.417 | 0.0854 | 0.0275 | 0.142 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | 108   | 417   | 85.4   | 27.5   | -     |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | 0.133 | 0.062 | 0.015  | 0.009  | -     |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | -     | 0.6   | 0.9    | -      | 0.3   |

#### Total Phenols

| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | - | < 1.0 | < 1.0 | - | < 1.0 |
|----------------------------|-------|---|--------|---|-------|-------|---|-------|
|----------------------------|-------|---|--------|---|-------|-------|---|-------|

#### Speciated PAHs

|                        |       |      |           |   |        |        |   |        |
|------------------------|-------|------|-----------|---|--------|--------|---|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | - | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | - | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | - | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | - | < 0.05 | < 0.05 | - | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | - | 0.34   | < 0.05 | - | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS    | - | 0.19   | < 0.05 | - | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | - | 1.6    | 0.1    | - | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | - | 1.8    | 0.13   | - | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | - | 0.95   | 0.07   | - | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | - | 0.89   | < 0.05 | - | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | 1.7    | 0.07   | - | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | - | 0.63   | < 0.05 | - | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | - | 1.4    | < 0.05 | - | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | - | 0.9    | < 0.05 | - | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | - | 0.26   | < 0.05 | - | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | - | 1.1    | < 0.05 | - | < 0.05 |

#### Total PAH

| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | - | 11.8 | < 0.80 | - | < 0.80 |
|-----------------------------|-------|-----|-----------|---|------|--------|---|--------|
|-----------------------------|-------|-----|-----------|---|------|--------|---|--------|

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897185       | 2897186       | 2897187       | 2897188       | 2897189       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS02          | DS03          | DS03          | DS03          | DS04          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 3.50          | 0.40          | 1.00          | 3.00          | 0.90          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 22/11/2023    | 22/11/2023    | 22/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Heavy Metals / Metalloids</b>        |       |                    |                         |               |               |               |               |               |
| Arsenic (aqua regia extractable)        | mg/kg | 1                  | MCERTS                  | -             | 9.4           | 15            | -             | 12            |
| Boron (water soluble)                   | mg/kg | 0.2                | MCERTS                  | -             | 2.3           | 0.8           | -             | 0.4           |
| Cadmium (aqua regia extractable)        | mg/kg | 0.2                | MCERTS                  | -             | < 0.2         | < 0.2         | -             | < 0.2         |
| Chromium (hexavalent)                   | mg/kg | 1.8                | MCERTS                  | -             | < 1.8         | < 1.8         | -             | < 1.8         |
| Chromium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | -             | 20            | 30            | -             | 24            |
| Copper (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | -             | 11            | 20            | -             | 23            |
| Lead (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | -             | 21            | 16            | -             | 16            |
| Mercury (aqua regia extractable)        | mg/kg | 0.3                | MCERTS                  | -             | < 0.3         | < 0.3         | -             | < 0.3         |
| Nickel (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | -             | 11            | 15            | -             | 22            |
| Selenium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | -             | < 1.0         | < 1.0         | -             | < 1.0         |
| Zinc (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | -             | 36            | 61            | -             | 64            |

#### Monoaromatics & Oxygenates

|                                    |       |   |        |   |        |       |   |   |
|------------------------------------|-------|---|--------|---|--------|-------|---|---|
| Benzene                            | µg/kg | 5 | MCERTS | - | < 5.0  | < 5.0 | - | - |
| Toluene                            | µg/kg | 5 | MCERTS | - | < 5.0  | < 5.0 | - | - |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | - | < 5.0# | < 5.0 | - | - |
| p & m-xylene                       | µg/kg | 5 | MCERTS | - | < 5.0  | < 5.0 | - | - |
| o-xylene                           | µg/kg | 5 | MCERTS | - | < 5.0# | < 5.0 | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | - | < 5.0  | < 5.0 | - | - |

#### Petroleum Hydrocarbons

|                                                                |       |      |        |   |         |         |   |      |
|----------------------------------------------------------------|-------|------|--------|---|---------|---------|---|------|
| TPH C10 - C40 <small>EH_CU_ID_TOTAL</small>                    | mg/kg | 10   | MCERTS | - | -       | -       | - | < 10 |
| TPH-CWG - Aliphatic >EC5 - EC6 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | - | < 0.020 | < 0.020 | - | -    |
| TPH-CWG - Aliphatic >EC6 - EC8 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | - | < 0.020 | < 0.020 | - | -    |
| TPH-CWG - Aliphatic >EC8 - EC10 <small>HS_ID_AL</small>        | mg/kg | 0.05 | NONE   | - | < 0.050 | < 0.050 | - | -    |
| TPH-CWG - Aliphatic >EC10 - EC12 <small>EH_CU_ID_AL</small>    | mg/kg | 1    | MCERTS | - | < 1.0   | < 1.0   | - | -    |
| TPH-CWG - Aliphatic >EC12 - EC16 <small>EH_CU_ID_AL</small>    | mg/kg | 2    | MCERTS | - | < 2.0   | < 2.0   | - | -    |
| TPH-CWG - Aliphatic >EC16 - EC21 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | - | < 8.0   | < 8.0   | - | -    |
| TPH-CWG - Aliphatic >EC21 - EC35 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | - | < 8.0   | < 8.0   | - | -    |
| TPH-CWG - Aliphatic (EC5 - EC35) <small>EH_CU+HS_ID_AL</small> | mg/kg | 10   | NONE   | - | < 10    | < 10    | - | -    |
| TPH-CWG - Aromatic >EC5 - EC7 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | - | < 0.010 | < 0.010 | - | -    |
| TPH-CWG - Aromatic >EC7 - EC8 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | - | < 0.010 | < 0.010 | - | -    |
| TPH-CWG - Aromatic >EC8 - EC10 <small>HS_ID_AR</small>         | mg/kg | 0.05 | NONE   | - | < 0.050 | < 0.050 | - | -    |
| TPH-CWG - Aromatic >EC10 - EC12 <small>EH_CU_ID_AR</small>     | mg/kg | 1    | MCERTS | - | < 1.0   | < 1.0   | - | -    |
| TPH-CWG - Aromatic >EC12 - EC16 <small>EH_CU_ID_AR</small>     | mg/kg | 2    | MCERTS | - | < 2.0   | < 2.0   | - | -    |
| TPH-CWG - Aromatic >EC16 - EC21 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | - | < 10    | < 10    | - | -    |
| TPH-CWG - Aromatic >EC21 - EC35 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | - | < 10    | < 10    | - | -    |
| TPH-CWG - Aromatic (EC5 - EC35) <small>EH_CU+HS_ID_AR</small>  | mg/kg | 10   | NONE   | - | < 10    | < 10    | - | -    |

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

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897190       | 2897191       | 2897192       | 2897193       | 2897194       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS04          | DS04          | DS05          | DS05          | DS05          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.50          | 3.80          | 1.10          | 1.50          | 3.50          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 18            | 17            | 13            | 13            | 16            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.3           | 0.3           | 0.3           | 0.3           | 0.3           |

|                                               |      |       |           |     |     |              |     |     |
|-----------------------------------------------|------|-------|-----------|-----|-----|--------------|-----|-----|
| Asbestos in Soil Screen / Identification Name | Type | N/A   | ISO 17025 | -   | -   | -            | -   | -   |
| Asbestos in Soil                              | Type | N/A   | ISO 17025 | I/S | -   | Not-detected | I/S | -   |
| Asbestos Quantification (Stage 2)             | %    | 0.001 | ISO 17025 | -   | -   | -            | -   | -   |
| Asbestos Quantification Total                 | %    | 0.001 | ISO 17025 | -   | -   | -            | -   | -   |
| Asbestos Analyst ID                           | N/A  | N/A   | N/A       | EC  | N/A | SPU          | EC  | N/A |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |        |       |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|--------|-------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 6.8   | 7.6   | 10.9  | 7.7    | 7.7   |
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | < 1.0 | -     | < 1.0 | < 1.0  | -     |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | 0.056 | 0.488 | -      | 0.027 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.341 | 0.319 | 0.627 | 0.0487 | 0.14  |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | -     | 319   | 627   | -      | 140   |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | 0.171 | 0.22  | -      | 0.215 |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | 0.4   | -     | 1.2   | 0.3    | -     |

#### Total Phenols

|                            |       |   |        |       |   |       |       |   |
|----------------------------|-------|---|--------|-------|---|-------|-------|---|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | - | < 1.0 | < 1.0 | - |
|----------------------------|-------|---|--------|-------|---|-------|-------|---|

#### Speciated PAHs

|                        |       |      |           |        |   |        |        |   |
|------------------------|-------|------|-----------|--------|---|--------|--------|---|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | - | < 0.05 | < 0.05 | - |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 0.22   | < 0.05 | - |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 0.9    | < 0.05 | - |
| Fluorene               | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 1.2    | < 0.05 | - |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 7.7    | < 0.05 | - |
| Anthracene             | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 1.8    | < 0.05 | - |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 7.6    | < 0.05 | - |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 6.2    | < 0.05 | - |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 2.8    | < 0.05 | - |
| Chrysene               | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 2.6    | < 0.05 | - |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | 3      | < 0.05 | - |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | - | 1.1    | < 0.05 | - |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 2.3    | < 0.05 | - |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 1.1    | < 0.05 | - |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 0.41   | < 0.05 | - |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | < 0.05 | - | 1.3    | < 0.05 | - |

#### Total PAH

|                             |       |     |           |        |   |      |        |   |
|-----------------------------|-------|-----|-----------|--------|---|------|--------|---|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | < 0.80 | - | 40.2 | < 0.80 | - |
|-----------------------------|-------|-----|-----------|--------|---|------|--------|---|

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897190       | 2897191       | 2897192       | 2897193       | 2897194       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS04          | DS04          | DS05          | DS05          | DS05          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 1.50          | 3.80          | 1.10          | 1.50          | 3.50          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Heavy Metals / Metalloids</b>        |       |                    |                         |               |               |               |               |               |
| Arsenic (aqua regia extractable)        | mg/kg | 1                  | MCERTS                  | 47            | -             | 11            | 16            | -             |
| Boron (water soluble)                   | mg/kg | 0.2                | MCERTS                  | 0.4           | -             | 2.1           | 0.5           | -             |
| Cadmium (aqua regia extractable)        | mg/kg | 0.2                | MCERTS                  | < 0.2         | -             | < 0.2         | < 0.2         | -             |
| Chromium (hexavalent)                   | mg/kg | 1.8                | MCERTS                  | < 1.8         | -             | < 1.8         | < 1.8         | -             |
| Chromium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | 39            | -             | 21            | 36            | -             |
| Copper (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 32            | -             | 19            | 34            | -             |
| Lead (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 23            | -             | 31            | 22            | -             |
| Mercury (aqua regia extractable)        | mg/kg | 0.3                | MCERTS                  | < 0.3         | -             | < 0.3         | < 0.3         | -             |
| Nickel (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 36            | -             | 30            | 40            | -             |
| Selenium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | < 1.0         | -             | < 1.0         | < 1.0         | -             |
| Zinc (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 83            | -             | 140           | 87            | -             |

#### Monoaromatics & Oxygenates

|                                    |       |   |        |   |   |   |   |   |
|------------------------------------|-------|---|--------|---|---|---|---|---|
| Benzene                            | µg/kg | 5 | MCERTS | - | - | - | - | - |
| Toluene                            | µg/kg | 5 | MCERTS | - | - | - | - | - |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | - | - | - | - | - |
| p & m-xylene                       | µg/kg | 5 | MCERTS | - | - | - | - | - |
| o-xylene                           | µg/kg | 5 | MCERTS | - | - | - | - | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | - | - | - | - | - |

#### Petroleum Hydrocarbons

|                                                                |       |      |        |      |   |     |      |   |
|----------------------------------------------------------------|-------|------|--------|------|---|-----|------|---|
| TPH C10 - C40 <small>EH_CU_ID_TOTAL</small>                    | mg/kg | 10   | MCERTS | < 10 | - | 220 | < 10 | - |
| TPH-CWG - Aliphatic >EC5 - EC6 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC6 - EC8 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC8 - EC10 <small>HS_ID_AL</small>        | mg/kg | 0.05 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC10 - EC12 <small>EH_CU_ID_AL</small>    | mg/kg | 1    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC12 - EC16 <small>EH_CU_ID_AL</small>    | mg/kg | 2    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC16 - EC21 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic >EC21 - EC35 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aliphatic (EC5 - EC35) <small>EH_CU+HS_ID_AL</small> | mg/kg | 10   | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC5 - EC7 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC7 - EC8 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC8 - EC10 <small>HS_ID_AR</small>         | mg/kg | 0.05 | NONE   | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC10 - EC12 <small>EH_CU_ID_AR</small>     | mg/kg | 1    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC12 - EC16 <small>EH_CU_ID_AR</small>     | mg/kg | 2    | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC16 - EC21 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aromatic >EC21 - EC35 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | - | -   | -    | - |
| TPH-CWG - Aromatic (EC5 - EC35) <small>EH_CU+HS_ID_AR</small>  | mg/kg | 10   | NONE   | -    | - | -   | -    | - |

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

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897195       | 2897196       | 2897197       | 2897198       | 2897199       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS06          | DS06          | TP01          | TP01          | TP02          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.70          | 1.20          | 0.75          | 0.90          | 0.60          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 11            | 19            | 16            | 16            | 15            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 1.3           | 1.3           | 0.8           | 0.9           | 0.8           |

| Asbestos in Soil Screen / Identification Name | Type | N/A   | ISO 17025 | -            | -   | -            | -   | -            |
|-----------------------------------------------|------|-------|-----------|--------------|-----|--------------|-----|--------------|
| Asbestos in Soil                              | Type | N/A   | ISO 17025 | Not-detected | I/S | Not-detected | I/S | Not-detected |
| Asbestos Quantification (Stage 2)             | %    | 0.001 | ISO 17025 | -            | -   | -            | -   | -            |
| Asbestos Quantification Total                 | %    | 0.001 | ISO 17025 | -            | -   | -            | -   | -            |
| Asbestos Analyst ID                           | N/A  | N/A   | N/A       | KSZ          | EC  | KSZ          | EC  | KSZ          |

#### General Inorganics

| pH - Automated                                                          | pH Units | N/A     | MCERTS | 9.7   | 8.6    | 8.6   | 8.1    | 8.2    |
|-------------------------------------------------------------------------|----------|---------|--------|-------|--------|-------|--------|--------|
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0  | < 1.0 | < 1.0  | < 1.0  |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | 0.012  | 0.041 | -      | -      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.254 | 0.0394 | 0.116 | 0.0242 | 0.0277 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | -     | 39.4   | 116   | -      | -      |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | 0.01   | 0.038 | -      | -      |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | 7     | 0.5    | 1.8   | 0.5    | 0.3    |

#### Total Phenols

| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |        |
|------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.15   | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | 0.23   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | 0.14   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | 0.18   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 1.6    | < 0.05 | 0.21   | < 0.05 | < 0.05 |
| Anthracene             | mg/kg | 0.05 | MCERTS    | 0.52   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 3.1    | 0.05   | 0.21   | < 0.05 | < 0.05 |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 3.8    | 0.06   | 0.22   | < 0.05 | < 0.05 |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | 1.8    | < 0.05 | 0.08   | < 0.05 | < 0.05 |
| Chrysene               | mg/kg | 0.05 | MCERTS    | 1.6    | < 0.05 | 0.16   | < 0.05 | < 0.05 |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 1.8    | < 0.05 | 0.14   | < 0.05 | < 0.05 |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | 0.73   | < 0.05 | 0.07   | < 0.05 | < 0.05 |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | 1.4    | < 0.05 | 0.12   | < 0.05 | < 0.05 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | 0.75   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | 0.2    | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | 0.89   | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

#### Total PAH

| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | 18.8 | < 0.80 | 1.36 | < 0.80 | < 0.80 |
|-----------------------------|-------|-----|-----------|------|--------|------|--------|--------|
|-----------------------------|-------|-----|-----------|------|--------|------|--------|--------|

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897195       | 2897196       | 2897197       | 2897198       | 2897199       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | DS06          | DS06          | TP01          | TP01          | TP02          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.70          | 1.20          | 0.75          | 0.90          | 0.60          |
| Date Sampled                            |       |                    |                         | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Heavy Metals / Metalloids</b>        |       |                    |                         |               |               |               |               |               |
| Arsenic (aqua regia extractable)        | mg/kg | 1                  | MCERTS                  | 8.2           | 16            | 15            | 14            | 13            |
| Boron (water soluble)                   | mg/kg | 0.2                | MCERTS                  | 0.8           | 0.9           | 1.8           | 1.2           | 0.3           |
| Cadmium (aqua regia extractable)        | mg/kg | 0.2                | MCERTS                  | < 0.2         | < 0.2         | < 0.2         | < 0.2         | < 0.2         |
| Chromium (hexavalent)                   | mg/kg | 1.8                | MCERTS                  | < 1.8         | < 1.8         | < 1.8         | < 1.8         | < 1.8         |
| Chromium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | 18            | 34            | 17            | 30            | 26            |
| Copper (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 15            | 26            | 18            | 23            | 26            |
| Lead (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 42            | 21            | 80            | 17            | 17            |
| Mercury (aqua regia extractable)        | mg/kg | 0.3                | MCERTS                  | < 0.3         | < 0.3         | < 0.3         | < 0.3         | < 0.3         |
| Nickel (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 13            | 37            | 12            | 48            | 27            |
| Selenium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | < 1.0         | < 1.0         | < 1.0         | < 1.0         | < 1.0         |
| Zinc (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 59            | 74            | 56            | 62            | 56            |

#### Monoaromatics & Oxygenates

|                                    |       |   |        |   |   |   |   |        |
|------------------------------------|-------|---|--------|---|---|---|---|--------|
| Benzene                            | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| Toluene                            | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0# |
| p & m-xylene                       | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| o-xylene                           | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0# |
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | - | - | - | - | < 5.0  |

#### Petroleum Hydrocarbons

|                                                                |       |      |        |      |      |      |      |         |
|----------------------------------------------------------------|-------|------|--------|------|------|------|------|---------|
| TPH C10 - C40 <small>EH_CU_ID_TOTAL</small>                    | mg/kg | 10   | MCERTS | 1200 | < 10 | < 10 | < 10 | -       |
| TPH-CWG - Aliphatic >EC5 - EC6 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | -    | -    | -    | < 0.020 |
| TPH-CWG - Aliphatic >EC6 - EC8 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | -    | -    | -    | < 0.020 |
| TPH-CWG - Aliphatic >EC8 - EC10 <small>HS_ID_AL</small>        | mg/kg | 0.05 | NONE   | -    | -    | -    | -    | < 0.050 |
| TPH-CWG - Aliphatic >EC10 - EC12 <small>EH_CU_ID_AL</small>    | mg/kg | 1    | MCERTS | -    | -    | -    | -    | < 1.0   |
| TPH-CWG - Aliphatic >EC12 - EC16 <small>EH_CU_ID_AL</small>    | mg/kg | 2    | MCERTS | -    | -    | -    | -    | < 2.0   |
| TPH-CWG - Aliphatic >EC16 - EC21 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | -    | -    | -    | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | -    | -    | -    | < 8.0   |
| TPH-CWG - Aliphatic (EC5 - EC35) <small>EH_CU+HS_ID_AL</small> | mg/kg | 10   | NONE   | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic >EC5 - EC7 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | -    | -    | -    | < 0.010 |
| TPH-CWG - Aromatic >EC7 - EC8 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | -    | -    | -    | < 0.010 |
| TPH-CWG - Aromatic >EC8 - EC10 <small>HS_ID_AR</small>         | mg/kg | 0.05 | NONE   | -    | -    | -    | -    | < 0.050 |
| TPH-CWG - Aromatic >EC10 - EC12 <small>EH_CU_ID_AR</small>     | mg/kg | 1    | MCERTS | -    | -    | -    | -    | < 1.0   |
| TPH-CWG - Aromatic >EC12 - EC16 <small>EH_CU_ID_AR</small>     | mg/kg | 2    | MCERTS | -    | -    | -    | -    | < 2.0   |
| TPH-CWG - Aromatic >EC16 - EC21 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic >EC21 - EC35 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) <small>EH_CU+HS_ID_AR</small>  | mg/kg | 10   | NONE   | -    | -    | -    | -    | < 10    |

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

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897200       | 2897201       | 2897202       | 2897203       | 2897204       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP03          | TP04          | TP05          | TP05          | FP02          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.70          | 0.60          | 0.55          | 0.70          | 1.10          |
| Date Sampled                            |       |                    |                         | 22/11/2023    | 21/11/2023    | 22/11/2023    | 22/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| Stone Content                           | %     | 0.1                | NONE                    | < 0.1         | < 0.1         | < 0.1         | < 0.1         | < 0.1         |
| Moisture Content                        | %     | 0.01               | NONE                    | 14            | 18            | 19            | 18            | 10            |
| Total mass of sample received           | kg    | 0.001              | NONE                    | 0.8           | 0.9           | 0.9           | 0.8           | 0.8           |

| Asbestos in Soil Screen / Identification Name | Type | N/A   | ISO 17025 | -   | -            | -   | -            | -   |
|-----------------------------------------------|------|-------|-----------|-----|--------------|-----|--------------|-----|
| Asbestos in Soil                              | Type | N/A   | ISO 17025 | I/S | Not-detected | I/S | Not-detected | I/S |
| Asbestos Quantification (Stage 2)             | %    | 0.001 | ISO 17025 | -   | -            | -   | -            | -   |
| Asbestos Quantification Total                 | %    | 0.001 | ISO 17025 | -   | -            | -   | -            | -   |
| Asbestos Analyst ID                           | N/A  | N/A   | N/A       | EC  | KSZ          | EC  | KSZ          | EC  |

#### General Inorganics

|                                                                         |          |         |        |       |       |       |       |        |
|-------------------------------------------------------------------------|----------|---------|--------|-------|-------|-------|-------|--------|
| pH - Automated                                                          | pH Units | N/A     | MCERTS | 7.9   | 6.1   | 7.7   | 6.9   | 7.9    |
| Total Cyanide                                                           | mg/kg    | 1       | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0  |
| Total Sulphate as SO <sub>4</sub>                                       | %        | 0.005   | MCERTS | -     | -     | -     | -     | -      |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | g/l      | 0.00125 | MCERTS | 0.103 | 0.242 | 0.15  | 0.138 | 0.0458 |
| Water Soluble SO <sub>4</sub> 16hr extraction (2:1 Leachate Equivalent) | mg/l     | 1.25    | MCERTS | -     | -     | -     | -     | -      |
| Total Sulphur                                                           | %        | 0.005   | MCERTS | -     | -     | -     | -     | -      |
| Organic Matter (automated)                                              | %        | 0.1     | MCERTS | 0.3   | 0.4   | 0.6   | 0.6   | 0.4    |

#### Total Phenols

|                            |       |   |        |       |       |       |       |       |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|
| Total Phenols (monohydric) | mg/kg | 1 | MCERTS | < 1.0 | < 1.0 | < 1.0 | < 1.0 | < 1.0 |
|----------------------------|-------|---|--------|-------|-------|-------|-------|-------|

#### Speciated PAHs

|                        |       |      |           |        |        |        |        |        |
|------------------------|-------|------|-----------|--------|--------|--------|--------|--------|
| Naphthalene            | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthylene         | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Acenaphthene           | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluorene               | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Phenanthrene           | mg/kg | 0.05 | MCERTS    | 0.06   | < 0.05 | 0.24   | < 0.05 | 0.13   |
| Anthracene             | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Fluoranthene           | mg/kg | 0.05 | MCERTS    | 0.06   | < 0.05 | 0.28   | < 0.05 | 0.27   |
| Pyrene                 | mg/kg | 0.05 | MCERTS    | 0.05   | < 0.05 | 0.24   | < 0.05 | 0.28   |
| Benzo(a)anthracene     | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.1    | < 0.05 | 0.17   |
| Chrysene               | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.17   | < 0.05 | 0.2    |
| Benzo(b)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | 0.1    | < 0.05 | 0.18   |
| Benzo(k)fluoranthene   | mg/kg | 0.05 | ISO 17025 | < 0.05 | < 0.05 | 0.09   | < 0.05 | 0.06   |
| Benzo(a)pyrene         | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | 0.11   | < 0.05 | 0.11   |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Dibenz(a,h)anthracene  | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Benzo(ghi)perylene     | mg/kg | 0.05 | MCERTS    | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |

#### Total PAH

|                             |       |     |           |        |        |      |        |     |
|-----------------------------|-------|-----|-----------|--------|--------|------|--------|-----|
| Speciated Total EPA-16 PAHs | mg/kg | 0.8 | ISO 17025 | < 0.80 | < 0.80 | 1.33 | < 0.80 | 1.4 |
|-----------------------------|-------|-----|-----------|--------|--------|------|--------|-----|

Analytical Report Number: 23-72481  
Project / Site name: Porsche West Sussex

| Lab Sample Number                       |       |                    |                         | 2897200       | 2897201       | 2897202       | 2897203       | 2897204       |
|-----------------------------------------|-------|--------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Sample Reference                        |       |                    |                         | TP03          | TP04          | TP05          | TP05          | FP02          |
| Sample Number                           |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Depth (m)                               |       |                    |                         | 0.70          | 0.60          | 0.55          | 0.70          | 1.10          |
| Date Sampled                            |       |                    |                         | 22/11/2023    | 21/11/2023    | 22/11/2023    | 22/11/2023    | 21/11/2023    |
| Time Taken                              |       |                    |                         | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Analytical Parameter<br>(Soil Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |               |               |               |
| <b>Heavy Metals / Metalloids</b>        |       |                    |                         |               |               |               |               |               |
| Arsenic (aqua regia extractable)        | mg/kg | 1                  | MCERTS                  | 8.4           | 20            | 27            | 26            | 28            |
| Boron (water soluble)                   | mg/kg | 0.2                | MCERTS                  | 0.3           | 0.4           | 0.4           | 0.5           | 0.4           |
| Cadmium (aqua regia extractable)        | mg/kg | 0.2                | MCERTS                  | < 0.2         | < 0.2         | < 0.2         | < 0.2         | < 0.2         |
| Chromium (hexavalent)                   | mg/kg | 1.8                | MCERTS                  | < 1.8         | < 1.8         | < 1.8         | < 1.8         | < 1.8         |
| Chromium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | 31            | 32            | 34            | 30            | 15            |
| Copper (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 32            | 29            | 28            | 25            | 15            |
| Lead (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 21            | 19            | 23            | 17            | 11            |
| Mercury (aqua regia extractable)        | mg/kg | 0.3                | MCERTS                  | < 0.3         | < 0.3         | < 0.3         | < 0.3         | < 0.3         |
| Nickel (aqua regia extractable)         | mg/kg | 1                  | MCERTS                  | 35            | 22            | 20            | 18            | 36            |
| Selenium (aqua regia extractable)       | mg/kg | 1                  | MCERTS                  | < 1.0         | < 1.0         | < 1.0         | < 1.0         | < 1.0         |
| Zinc (aqua regia extractable)           | mg/kg | 1                  | MCERTS                  | 80            | 62            | 62            | 56            | 63            |

#### Monoaromatics & Oxygenates

|                                    |       |   |        |   |   |   |   |        |
|------------------------------------|-------|---|--------|---|---|---|---|--------|
| Benzene                            | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| Toluene                            | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| Ethylbenzene                       | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0# |
| p & m-xylene                       | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0  |
| o-xylene                           | µg/kg | 5 | MCERTS | - | - | - | - | < 5.0# |
| MTBE (Methyl Tertiary Butyl Ether) | µg/kg | 5 | NONE   | - | - | - | - | < 5.0  |

#### Petroleum Hydrocarbons

|                                                                |       |      |        |      |      |      |      |         |
|----------------------------------------------------------------|-------|------|--------|------|------|------|------|---------|
| TPH C10 - C40 <small>EH_CU_ID_TOTAL</small>                    | mg/kg | 10   | MCERTS | < 10 | < 10 | < 10 | < 10 | -       |
| TPH-CWG - Aliphatic >EC5 - EC6 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | -    | -    | -    | < 0.020 |
| TPH-CWG - Aliphatic >EC6 - EC8 <small>HS_ID_AL</small>         | mg/kg | 0.02 | NONE   | -    | -    | -    | -    | < 0.020 |
| TPH-CWG - Aliphatic >EC8 - EC10 <small>HS_ID_AL</small>        | mg/kg | 0.05 | NONE   | -    | -    | -    | -    | < 0.050 |
| TPH-CWG - Aliphatic >EC10 - EC12 <small>EH_CU_ID_AL</small>    | mg/kg | 1    | MCERTS | -    | -    | -    | -    | < 1.0   |
| TPH-CWG - Aliphatic >EC12 - EC16 <small>EH_CU_ID_AL</small>    | mg/kg | 2    | MCERTS | -    | -    | -    | -    | < 2.0   |
| TPH-CWG - Aliphatic >EC16 - EC21 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | -    | -    | -    | < 8.0   |
| TPH-CWG - Aliphatic >EC21 - EC35 <small>EH_CU_ID_AL</small>    | mg/kg | 8    | MCERTS | -    | -    | -    | -    | < 8.0   |
| TPH-CWG - Aliphatic (EC5 - EC35) <small>EH_CU+HS_ID_AL</small> | mg/kg | 10   | NONE   | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic >EC5 - EC7 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | -    | -    | -    | < 0.010 |
| TPH-CWG - Aromatic >EC7 - EC8 <small>HS_ID_AR</small>          | mg/kg | 0.01 | NONE   | -    | -    | -    | -    | < 0.010 |
| TPH-CWG - Aromatic >EC8 - EC10 <small>HS_ID_AR</small>         | mg/kg | 0.05 | NONE   | -    | -    | -    | -    | < 0.050 |
| TPH-CWG - Aromatic >EC10 - EC12 <small>EH_CU_ID_AR</small>     | mg/kg | 1    | MCERTS | -    | -    | -    | -    | < 1.0   |
| TPH-CWG - Aromatic >EC12 - EC16 <small>EH_CU_ID_AR</small>     | mg/kg | 2    | MCERTS | -    | -    | -    | -    | < 2.0   |
| TPH-CWG - Aromatic >EC16 - EC21 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic >EC21 - EC35 <small>EH_CU_ID_AR</small>     | mg/kg | 10   | MCERTS | -    | -    | -    | -    | < 10    |
| TPH-CWG - Aromatic (EC5 - EC35) <small>EH_CU+HS_ID_AR</small>  | mg/kg | 10   | NONE   | -    | -    | -    | -    | < 10    |

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

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Your Order No:

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## Certificate of Analysis - Asbestos Quantification

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### 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-PL 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 |
|---------------|-----------|------------------|-------------------|---------------------------------------------------|-------------|---------------------------------------|----------------------------|
| 2897180       | DS01      | 0.60             | 212               | Loose Fibres                                      | Chrysotile  | < 0.001                               | < 0.001                    |

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

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|                                          |       |                    |                         |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|
| Lab Sample Number                        |       |                    |                         | 2897205       |
| Sample Reference                         |       |                    |                         | FP02          |
| Sample Number                            |       |                    |                         | None Supplied |
| Depth (m)                                |       |                    |                         | 1.00          |
| Date Sampled                             |       |                    |                         | 21/11/2023    |
| Time Taken                               |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |

#### General Inorganics

|                             |          |       |           |      |
|-----------------------------|----------|-------|-----------|------|
| pH (L099)                   | pH Units | N/A   | ISO 17025 | 9.4  |
| Total Cyanide               | µg/l     | 10    | ISO 17025 | < 10 |
| Sulphate as SO <sub>4</sub> | mg/l     | 0.045 | ISO 17025 | 20   |
| Total Organic Carbon (TOC)  | mg/l     | 0.1   | ISO 17025 | 4.33 |

#### Total Phenols

|                            |      |    |           |      |
|----------------------------|------|----|-----------|------|
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 |
|----------------------------|------|----|-----------|------|

#### Speciated PAHs

|                        |      |      |           |        |
|------------------------|------|------|-----------|--------|
| Naphthalene            | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Acenaphthylene         | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Acenaphthene           | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Fluorene               | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Phenanthrene           | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Anthracene             | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Fluoranthene           | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Pyrene                 | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(a)anthracene     | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Chrysene               | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(b)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(k)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(a)pyrene         | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Dibenz(a,h)anthracene  | µg/l | 0.01 | ISO 17025 | < 0.01 |
| Benzo(ghi)perylene     | µg/l | 0.01 | ISO 17025 | < 0.01 |

#### Total PAH

|                   |      |      |           |        |
|-------------------|------|------|-----------|--------|
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 |
|-------------------|------|------|-----------|--------|

#### Heavy Metals / Metalloids

|                       |      |    |           |       |
|-----------------------|------|----|-----------|-------|
| Boron (dissolved)     | µg/l | 10 | ISO 17025 | 31    |
| Chromium (hexavalent) | µg/l | 5  | ISO 17025 | < 5.0 |
| Chromium (III)        | µg/l | 5  | NONE      | < 5.0 |

|                      |      |      |           |        |
|----------------------|------|------|-----------|--------|
| Arsenic (dissolved)  | µg/l | 0.15 | ISO 17025 | 5.92   |
| Cadmium (dissolved)  | µg/l | 0.02 | ISO 17025 | 0.05   |
| Chromium (dissolved) | µg/l | 0.2  | ISO 17025 | 3.8    |
| Copper (dissolved)   | µg/l | 0.5  | ISO 17025 | 7.3    |
| Lead (dissolved)     | µg/l | 0.2  | ISO 17025 | 0.6    |
| Mercury (dissolved)  | µg/l | 0.05 | ISO 17025 | < 0.05 |
| Nickel (dissolved)   | µg/l | 0.5  | ISO 17025 | 2.1    |
| Selenium (dissolved) | µg/l | 0.6  | ISO 17025 | < 0.6  |
| Zinc (dissolved)     | µg/l | 0.5  | ISO 17025 | 3.8    |

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|                                          |       |                    |                         |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|
| Lab Sample Number                        |       |                    |                         | 2897205       |
| Sample Reference                         |       |                    |                         | FP02          |
| Sample Number                            |       |                    |                         | None Supplied |
| Depth (m)                                |       |                    |                         | 1.00          |
| Date Sampled                             |       |                    |                         | 21/11/2023    |
| Time Taken                               |       |                    |                         | None Supplied |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |

#### Monoaromatics & Oxygenates

|                                    |      |   |           |       |
|------------------------------------|------|---|-----------|-------|
| Benzene                            | µg/l | 3 | ISO 17025 | < 3.0 |
| Toluene                            | µg/l | 3 | ISO 17025 | < 3.0 |
| Ethylbenzene                       | µg/l | 3 | ISO 17025 | < 3.0 |
| p & m-xylene                       | µg/l | 3 | ISO 17025 | < 3.0 |
| o-xylene                           | µg/l | 3 | ISO 17025 | < 3.0 |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 3 | ISO 17025 | < 3.0 |

#### Petroleum Hydrocarbons

|                                        |      |   |           |       |
|----------------------------------------|------|---|-----------|-------|
| TPH-CWG - Aliphatic >C5 - C6 HS_1D_AL  | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aliphatic >C6 - C8 HS_1D_AL  | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aliphatic >C8 - C10 HS_1D_AL | µg/l | 1 | ISO 17025 | < 1.0 |

|                                     |      |    |           |      |
|-------------------------------------|------|----|-----------|------|
| Aliphatic >C10 - C12 EH_2D_AL_#1_#2 | µg/l | 10 | ISO 17025 | < 10 |
| Aliphatic >C12 - C16 EH_2D_AL_#1_#2 | µg/l | 10 | ISO 17025 | 310  |
| Aliphatic >C16 - C21 EH_2D_AL_#1_#2 | µg/l | 10 | ISO 17025 | 310  |
| Aliphatic >C21 - C35 EH_2D_AL_#1_#2 | µg/l | 10 | ISO 17025 | 160  |
| Aliphatic >C10 - C35 EH_2D_AL_#1_#2 | µg/l | 10 | ISO 17025 | 780  |

|                                       |      |   |           |       |
|---------------------------------------|------|---|-----------|-------|
| TPH-CWG - Aromatic >C5 - C7 HS_1D_AR  | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aromatic >C7 - C8 HS_1D_AR  | µg/l | 1 | ISO 17025 | < 1.0 |
| TPH-CWG - Aromatic >C8 - C10 HS_1D_AR | µg/l | 1 | ISO 17025 | < 1.0 |

|                                    |      |    |           |      |
|------------------------------------|------|----|-----------|------|
| Aromatic >C10 - C12 EH_2D_AR_#1_#2 | µg/l | 10 | ISO 17025 | < 10 |
| Aromatic >C12 - C16 EH_2D_AR_#1_#2 | µg/l | 10 | ISO 17025 | 480  |
| Aromatic >C16 - C21 EH_2D_AR_#1_#2 | µg/l | 10 | ISO 17025 | 650  |
| Aromatic >C21 - C35 EH_2D_AR_#1_#2 | µg/l | 10 | ISO 17025 | 440  |
| Aromatic >C10 - C35 EH_2D_AR_#1_#2 | µg/l | 10 | ISO 17025 | 1600 |

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

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\* 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 *                  |
|-------------------|------------------|---------------|-----------|---------------------------------------|
| 2897180           | DS01             | None Supplied | 0.6       | Brown sand with gravel and stones.    |
| 2897181           | DS01             | None Supplied | 0.9       | Brown clay and sand with gravel.      |
| 2897182           | DS01             | None Supplied | 1.5       | Brown clay and sand with gravel.      |
| 2897183           | DS02             | None Supplied | 0.4       | Brown sand with gravel.               |
| 2897184           | DS02             | None Supplied | 0.8       | Brown clay and sand with gravel.      |
| 2897185           | DS02             | None Supplied | 3.5       | Light grey clay and sand with gravel. |
| 2897186           | DS03             | None Supplied | 0.4       | Brown clay and sand with gravel.      |
| 2897187           | DS03             | None Supplied | 1         | Brown clay and sand with gravel.      |
| 2897188           | DS03             | None Supplied | 3         | Brown clay and sand with gravel.      |
| 2897189           | DS04             | None Supplied | 0.9       | Brown clay and sand with gravel.      |
| 2897190           | DS04             | None Supplied | 1.5       | Brown clay and sand with gravel.      |
| 2897191           | DS04             | None Supplied | 3.8       | Grey clay and sand with gravel.       |
| 2897192           | DS05             | None Supplied | 1.1       | Brown sand with gravel.               |
| 2897193           | DS05             | None Supplied | 1.5       | Brown clay and sand with gravel.      |
| 2897194           | DS05             | None Supplied | 3.5       | Brown clay and sand with gravel.      |
| 2897195           | DS06             | None Supplied | 0.7       | Brown sand with gravel.               |
| 2897196           | DS06             | None Supplied | 1.2       | Brown clay and sand with gravel.      |
| 2897197           | TP01             | None Supplied | 0.75      | Brown clay and sand with gravel.      |
| 2897198           | TP01             | None Supplied | 0.9       | Brown clay and sand with gravel.      |
| 2897199           | TP02             | None Supplied | 0.6       | Brown clay and sand with gravel.      |
| 2897200           | TP03             | None Supplied | 0.7       | Brown clay and sand with gravel.      |
| 2897201           | TP04             | None Supplied | 0.6       | Brown clay and sand with gravel.      |
| 2897202           | TP05             | None Supplied | 0.55      | Brown clay and sand with gravel.      |
| 2897203           | TP05             | None Supplied | 0.7       | Brown clay and sand with gravel.      |
| 2897204           | FP02             | None Supplied | 1.1       | Brown clay and sand with gravel.      |

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**Project / Site name: Porsche West Sussex**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                               | Analytical Method Description                                                                                                                                                                           | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Metals in water by ICP-MS (dissolved)              | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.                                                               | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL       | W                  | ISO 17025            |
| 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.                            | L038-PL       | D                  | MCERTS               |
| Sulphate, water soluble, in soil (16hr extraction) | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).                                               | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| 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                                                                                | A001-PL       | D                  | ISO 17025            |
| Boron in water                                     | Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW                                                                                                     | In-house method based on MEWAM                                                                                  | L039-PL       | W                  | ISO 17025            |
| Boron, water soluble, in soil                      | Determination of water soluble boron in soil by hot water extract followed by ICP-OES.                                                                                                                  | In-house method based on Second Site Properties version 3                                                       | L038-PL       | D                  | MCERTS               |
| Hexavalent chromium in water                       | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazine followed by colorimetry.                                                                              | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.                                    | L080-PL       | W                  | ISO 17025            |
| Moisture Content                                   | Moisture content, determined gravimetrically. (30 oC)                                                                                                                                                   | In house method.                                                                                                | L019-UK/PL    | W                  | NONE                 |
| Monohydric phenols in soil                         | Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.                                                                                  | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | MCERTS               |
| Monohydric phenols in water                        | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW                                                                                                            | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | ISO 17025            |
| Speciated EPA-16 PAHs in soil                      | Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards. Refer to CoA for analyte specific accreditation. | In-house method based on USEPA 8270                                                                             | L064-PL       | D                  | MCERTS               |
| Speciated EPA-16 PAHs in water                     | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW                              | In-house method based on USEPA 8270                                                                             | L102B-PL      | W                  | ISO 17025            |
| 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               |
| Sulphate in water                                  | Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.                                                                               | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L039-PL       | W                  | ISO 17025            |
| 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.                                      | L019-UK/PL    | D                  | NONE                 |
| TPHCWG (Waters)                                    | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.                                                                                              | In-house method                                                                                                 | L070-PL       | W                  | ISO 17025            |
| Total cyanide in soil                              | Determination of total cyanide by distillation followed by colorimetry.                                                                                                                                 | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | MCERTS               |

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**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name                             | Analytical Method Description                                                                                                                             | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Total cyanide in water                           | Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW                                                     | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | ISO 17025            |
| Total organic carbon in water                    | Determination of dissolved organic carbon in water by TOC/DOC NDIR analyser. Accredited matrices: SW PW GW.                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton          | L037-PL       | W                  | ISO 17025            |
| BTEX and MTBE in soil (Monoaromatics)            | Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited                                                                 | In-house method based on USEPA8260. Refer to CoA for analyte specific accreditation                             | L073B-PL      | W                  | MCERTS               |
| TPH C10-C35 by GCxGC-FID                         | Determination of total petroleum hydrocarbons in water by GC x GC FID with carbon banding aliphatic and aromatic C10-C35. Accredited Matrices SW, GW, PW. | In-house method                                                                                                 | L101B-PL      | W                  | ISO 17025            |
| BTEX and MTBE in water (Monoaromatics)           | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW                                                                 | In-house method based on USEPA8260. Refer to CoA for analyte specific accreditation                             | L073B-PL      | W                  | ISO 17025            |
| Cr (III) in water                                | In-house method by calculation from total Cr and Cr VI.                                                                                                   | In-house method by calculation                                                                                  | L080-PL       | W                  | NONE                 |
| TPHCWG (Soil)                                    | Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID. Refer to CoA for band specific accreditation.                                   | In-house method with silica gel split/clean up.                                                                 | L088/76-PL    | D                  | MCERTS               |
| pH at 20oC in water (automated)                  | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW                                                                  | In house method.                                                                                                | L099-PL       | W                  | ISO 17025            |
| TPH Banding in Soil by FID                       | Determination of hexane extractable hydrocarbons in soil by GC-FID.                                                                                       | In-house method, TPH with carbon banding and silica gel split/cleanup.                                          | L076-PL       | D                  | MCERTS               |
| Asbestos Quantification - Gravimetric            | Asbestos quantification by gravimetric method - in house method based on references.                                                                      | HSE Report No: 83/1996, HSG 248, HSG 264 & SCA Blue Book (draft).                                               | A006-PL       | D                  | ISO 17025            |
| Organic matter (Automated) in soil               | Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.                             | In house method.                                                                                                | L009-PL       | 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               |
| Total Sulphate in soil as %                      | Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.                                                                   | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| Total Sulphur in soil as %                       | Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.                                      | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |
| D.O. for Gravimetric Quant if Screen/ID positive | Dependent option for Gravimetric Quant if Screen/ID positive scheduled.                                                                                   | In house asbestos methods A001 & A006.                                                                          | A006-PL       | D                  | NONE                 |
| Sulphate, water soluble, in soil                 | Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent). | In house method.                                                                                                | L038-PL       | D                  | MCERTS               |

**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.**

**Analytical Report Number : 23-72481**  
**Project / Site name: Porsche West Sussex**

**Water matrix abbreviations:**

**Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)**

| Analytical Test Name | Analytical Method Description | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|
|----------------------|-------------------------------|-----------------------------|---------------|--------------------|----------------------|

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.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| -       | Operator - understore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

# Sample Deviation Report

**Analytical Report Number : 23-72481**

**Project / Site name: Porsche West Sussex**

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis. Please note that the associated result(s) may be unreliable and should be interpreted with care.

Key: a - No sampling date b - Incorrect container c - Holding time d - Headspace e - Temperature

| Sample ID | Other ID      | Sample Type | Lab Sample Number | Sample Deviation | Test Name                              | Test Ref   | Test Deviation |
|-----------|---------------|-------------|-------------------|------------------|----------------------------------------|------------|----------------|
| DS01      | None Supplied | S           | 2897180           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS01      | None Supplied | S           | 2897181           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS02      | None Supplied | S           | 2897183           | bc               | BTEX and MTBE in soil (Monoaromatics)  | L073B-PL   | b              |
| DS02      | None Supplied | S           | 2897183           | bc               | TPHCWG (Soil)                          | L088/76-PL | b              |
| DS02      | None Supplied | S           | 2897183           | bc               | Total cyanide in soil                  | L080-PL    | c              |
| DS02      | None Supplied | S           | 2897184           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS03      | None Supplied | S           | 2897186           | bc               | BTEX and MTBE in soil (Monoaromatics)  | L073B-PL   | b              |
| DS03      | None Supplied | S           | 2897186           | bc               | TPHCWG (Soil)                          | L088/76-PL | b              |
| DS03      | None Supplied | S           | 2897186           | bc               | Total cyanide in soil                  | L080-PL    | c              |
| DS03      | None Supplied | S           | 2897187           | bc               | BTEX and MTBE in soil (Monoaromatics)  | L073B-PL   | b              |
| DS03      | None Supplied | S           | 2897187           | bc               | TPHCWG (Soil)                          | L088/76-PL | b              |
| DS03      | None Supplied | S           | 2897187           | bc               | Total cyanide in soil                  | L080-PL    | c              |
| DS04      | None Supplied | S           | 2897189           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS04      | None Supplied | S           | 2897190           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS05      | None Supplied | S           | 2897192           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS05      | None Supplied | S           | 2897193           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS06      | None Supplied | S           | 2897195           | c                | Total cyanide in soil                  | L080-PL    | c              |
| DS06      | None Supplied | S           | 2897196           | c                | Total cyanide in soil                  | L080-PL    | c              |
| FP02      | None Supplied | S           | 2897204           | bc               | BTEX and MTBE in soil (Monoaromatics)  | L073B-PL   | b              |
| FP02      | None Supplied | S           | 2897204           | bc               | TPHCWG (Soil)                          | L088/76-PL | b              |
| FP02      | None Supplied | S           | 2897204           | bc               | Total cyanide in soil                  | L080-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | BTEX and MTBE in water (Monoaromatics) | L073B-PL   | bc             |
| FP02      | None Supplied | W           | 2897205           | bc               | Hexavalent chromium in water           | L080-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | Boron in water                         | L039-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | Cr (III) in water                      | L080-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | Metals in water by ICP-MS (dissolved)  | L012-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | Sulphate in water                      | L039-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | Total cyanide in water                 | L080-PL    | c              |
| FP02      | None Supplied | W           | 2897205           | bc               | pH at 20oC in water (automated)        | L099-PL    | c              |
| TP01      | None Supplied | S           | 2897197           | c                | Total cyanide in soil                  | L080-PL    | c              |
| TP01      | None Supplied | S           | 2897198           | c                | Total cyanide in soil                  | L080-PL    | c              |
| TP02      | None Supplied | S           | 2897199           | bc               | BTEX and MTBE in soil (Monoaromatics)  | L073B-PL   | b              |
| TP02      | None Supplied | S           | 2897199           | bc               | TPHCWG (Soil)                          | L088/76-PL | b              |
| TP02      | None Supplied | S           | 2897199           | bc               | Total cyanide in soil                  | L080-PL    | c              |
| TP03      | None Supplied | S           | 2897200           | c                | Total cyanide in soil                  | L080-PL    | c              |
| TP04      | None Supplied | S           | 2897201           | c                | Total cyanide in soil                  | L080-PL    | c              |
| TP05      | None Supplied | S           | 2897202           | c                | Total cyanide in soil                  | L080-PL    | c              |
| TP05      | None Supplied | S           | 2897203           | c                | Total cyanide in soil                  | L080-PL    | c              |



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## **Analytical Report Number : 23-73720**

|                             |                     |                                                        |            |
|-----------------------------|---------------------|--------------------------------------------------------|------------|
| <b>Project / Site name:</b> | Porsche West Sussex | <b>Samples received on:</b>                            | 07/12/2023 |
| <b>Your job number:</b>     | 23 0466             | <b>Samples instructed on/<br/>Analysis started on:</b> | 07/12/2023 |
| <b>Your order number:</b>   |                     | <b>Analysis completed by:</b>                          | 18/12/2023 |
| <b>Report Issue Number:</b> | 1                   | <b>Report issued on:</b>                               | 18/12/2023 |
| <b>Samples Analysed:</b>    | 2 water samples     |                                                        |            |

**Signed:**

Joanna Wawrzeczko  
Senior Reporting Specialist  
**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

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

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.



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Analytical Report Number: 23-73720  
Project / Site name: Porsche West Sussex

|                                          |       |                    |                         |               |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|
| Lab Sample Number                        |       |                    |                         | 2904108       | 2904109       |
| Sample Reference                         |       |                    |                         | DS03          | DS06          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | 0.78          | 0.75          |
| Date Sampled                             |       |                    |                         | 05/12/2023    | 05/12/2023    |
| Time Taken                               |       |                    |                         | 1205          | 1315          |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |

#### General Inorganics

|                             |          |       |           |      |      |
|-----------------------------|----------|-------|-----------|------|------|
| pH (L099)                   | pH Units | N/A   | ISO 17025 | 7.5  | 9.7  |
| Total Cyanide               | µg/l     | 10    | ISO 17025 | < 10 | < 10 |
| Sulphate as SO <sub>4</sub> | mg/l     | 0.045 | ISO 17025 | 61.9 | 39.4 |
| Total Organic Carbon (TOC)  | mg/l     | 0.1   | ISO 17025 | 6.06 | 4.88 |

#### Total Phenols

|                            |      |    |           |      |      |
|----------------------------|------|----|-----------|------|------|
| Total Phenols (monohydric) | µg/l | 10 | ISO 17025 | < 10 | < 10 |
|----------------------------|------|----|-----------|------|------|

#### Speciated PAHs

|                        |      |      |           |        |        |
|------------------------|------|------|-----------|--------|--------|
| Naphthalene            | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Acenaphthylene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Acenaphthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Fluorene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Phenanthrene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Anthracene             | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Fluoranthene           | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Pyrene                 | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(a)anthracene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Chrysene               | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(b)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(k)fluoranthene   | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(a)pyrene         | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Indeno(1,2,3-cd)pyrene | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Dibenz(a,h)anthracene  | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |
| Benzo(ghi)perylene     | µg/l | 0.01 | ISO 17025 | < 0.01 | < 0.01 |

#### Total PAH

|                   |      |      |           |        |        |
|-------------------|------|------|-----------|--------|--------|
| Total EPA-16 PAHs | µg/l | 0.16 | ISO 17025 | < 0.16 | < 0.16 |
|-------------------|------|------|-----------|--------|--------|

#### Heavy Metals / Metalloids

|                       |      |    |           |       |     |
|-----------------------|------|----|-----------|-------|-----|
| Boron (dissolved)     | µg/l | 10 | ISO 17025 | 53    | 42  |
| Chromium (hexavalent) | µg/l | 5  | ISO 17025 | < 5.0 | 5.8 |

|                      |      |      |           |        |        |
|----------------------|------|------|-----------|--------|--------|
| Arsenic (dissolved)  | µg/l | 0.15 | ISO 17025 | 0.36   | 4.95   |
| Cadmium (dissolved)  | µg/l | 0.02 | ISO 17025 | < 0.02 | < 0.02 |
| Chromium (dissolved) | µg/l | 0.2  | ISO 17025 | 0.8    | 10     |
| Copper (dissolved)   | µg/l | 0.5  | ISO 17025 | 3.4    | 4.6    |
| Lead (dissolved)     | µg/l | 0.2  | ISO 17025 | < 0.2  | < 0.2  |
| Mercury (dissolved)  | µg/l | 0.05 | ISO 17025 | < 0.05 | < 0.05 |
| Nickel (dissolved)   | µg/l | 0.5  | ISO 17025 | 0.8    | 0.7    |
| Selenium (dissolved) | µg/l | 0.6  | ISO 17025 | 5      | 2.2    |
| Zinc (dissolved)     | µg/l | 0.5  | ISO 17025 | 1.2    | 1.5    |

#### Monoaromatics & Oxygenates

|                                    |      |   |           |        |   |
|------------------------------------|------|---|-----------|--------|---|
| Benzene                            | µg/l | 3 | ISO 17025 | < 3.0  | - |
| Toluene                            | µg/l | 3 | ISO 17025 | < 3.0  | - |
| Ethylbenzene                       | µg/l | 3 | ISO 17025 | < 3.0  | - |
| p & m-xylene                       | µg/l | 3 | ISO 17025 | < 3.0  | - |
| o-xylene                           | µg/l | 3 | ISO 17025 | < 3.0  | - |
| MTBE (Methyl Tertiary Butyl Ether) | µg/l | 3 | NONE      | < 3.0# | - |



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Analytical Report Number: 23-73720

Project / Site name: Porsche West Sussex

|                                          |       |                    |                         |               |               |
|------------------------------------------|-------|--------------------|-------------------------|---------------|---------------|
| Lab Sample Number                        |       |                    |                         | 2904108       | 2904109       |
| Sample Reference                         |       |                    |                         | DS03          | DS06          |
| Sample Number                            |       |                    |                         | None Supplied | None Supplied |
| Depth (m)                                |       |                    |                         | 0.78          | 0.75          |
| Date Sampled                             |       |                    |                         | 05/12/2023    | 05/12/2023    |
| Time Taken                               |       |                    |                         | 1205          | 1315          |
| Analytical Parameter<br>(Water Analysis) | Units | Limit of detection | Accreditation<br>Status |               |               |

**Petroleum Hydrocarbons**

|                                            |      |    |           |      |      |
|--------------------------------------------|------|----|-----------|------|------|
| TPH1 (C10 - C40) <sub>EH_1D_TOTAL_MS</sub> | µg/l | 10 | ISO 17025 | < 10 | < 10 |
|--------------------------------------------|------|----|-----------|------|------|

|                                                          |      |    |           |       |   |
|----------------------------------------------------------|------|----|-----------|-------|---|
| TPH-CWG - Aliphatic >C5 - C6 <sub>HS_1D_AL</sub>         | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aliphatic >C6 - C8 <sub>HS_1D_AL</sub>         | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aliphatic >C8 - C10 <sub>HS_1D_AL</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aliphatic >C10 - C12 <sub>EH_1D_AL_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aliphatic >C12 - C16 <sub>EH_1D_AL_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aliphatic >C16 - C21 <sub>EH_1D_AL_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aliphatic >C21 - C35 <sub>EH_1D_AL_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aliphatic (C5 - C35) <sub>HS+EH_1D_AL_MS</sub> | µg/l | 10 | NONE      | < 10  | - |

|                                                         |      |    |           |       |   |
|---------------------------------------------------------|------|----|-----------|-------|---|
| TPH-CWG - Aromatic >C5 - C7 <sub>HS_1D_AR</sub>         | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aromatic >C7 - C8 <sub>HS_1D_AR</sub>         | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aromatic >C8 - C10 <sub>HS_1D_AR</sub>        | µg/l | 1  | ISO 17025 | < 1.0 | - |
| TPH-CWG - Aromatic >C10 - C12 <sub>EH_1D_AR_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aromatic >C12 - C16 <sub>EH_1D_AR_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aromatic >C16 - C21 <sub>EH_1D_AR_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aromatic >C21 - C35 <sub>EH_1D_AR_MS</sub>    | µg/l | 10 | NONE      | < 10  | - |
| TPH-CWG - Aromatic (C5 - C35) <sub>HS+EH_1D_AR_MS</sub> | µg/l | 10 | NONE      | < 10  | - |

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



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Environmental Science

Analytical Report Number : 23-73720

Project / Site name: Porsche West Sussex

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name                   | Analytical Method Description                                                                                                                                              | Analytical Method Reference                                                                                     | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|--------------------|----------------------|
| Metals in water by ICP-MS (dissolved)  | Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.                                  | In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS. | L012-PL       | W                  | ISO 17025            |
| Boron in water                         | Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW                                                                        | In-house method based on MEWAM                                                                                  | L039-PL       | W                  | ISO 17025            |
| Hexavalent chromium in water           | Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.                                                 | In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.                                    | L080-PL       | W                  | ISO 17025            |
| Monohydric phenols in water            | Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW                                                                               | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar) | L080-PL       | W                  | ISO 17025            |
| Speciated EPA-16 PAHs in water         | Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW | In-house method based on USEPA 8270                                                                             | L102B-PL      | W                  | ISO 17025            |
| Sulphate in water                      | Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.                                                  | In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.                            | L039-PL       | W                  | ISO 17025            |
| TPHCWG (Waters)                        | Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.                                                                 | In-house method                                                                                                 | L070-PL       | W                  | ISO 17025            |
| Total cyanide in water                 | Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW                                                                      | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar) | L080-PL       | W                  | ISO 17025            |
| Total organic carbon in water          | Determination of dissolved organic carbon in water by TOC/DOC NDIR analyser. Accredited matrices: SW PW GW.                                                                | In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton          | L037-PL       | W                  | ISO 17025            |
| BTEX and MTBE in water (Monoaromatics) | Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW                                                                                  | In-house method based on USEPA8260. Refer to CoA for analyte specific accreditation                             | L073B-PL      | W                  | ISO 17025            |
| pH at 20oC in water (automated)        | Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW                                                                                   | In house method.                                                                                                | L099-PL       | W                  | ISO 17025            |

**Analytical Report Number : 23-73720**  
**Project / Site name: Porsche West Sussex**

**Water matrix abbreviations:**

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

| Analytical Test Name | Analytical Method Description                                                | Analytical Method Reference | Method number | Wet / Dry Analysis | Accreditation Status |
|----------------------|------------------------------------------------------------------------------|-----------------------------|---------------|--------------------|----------------------|
| TPH1 (Waters)        | Determination of dichloromethane extractable hydrocarbons in water by GC-MS. | In-house method             | L070-PL       | 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.

## Information in Support of Analytical Results

### List of HWOL Acronyms and Operators

| Acronym | Descriptions                                                           |
|---------|------------------------------------------------------------------------|
| HS      | Headspace Analysis                                                     |
| MS      | Mass spectrometry                                                      |
| FID     | Flame Ionisation Detector                                              |
| GC      | Gas Chromatography                                                     |
| EH      | Extractable Hydrocarbons (i.e. everything extracted by the solvent(s)) |
| CU      | Clean-up - e.g. by Florisil®, silica gel                               |
| 1D      | GC - Single coil/column gas chromatography                             |
| 2D      | GC-GC - Double coil/column gas chromatography                          |
| Total   | Aliphatics & Aromatics                                                 |
| AL      | Aliphatics                                                             |
| AR      | Aromatics                                                              |
| #1      | EH_2D_Total but with humics mathematically subtracted                  |
| #2      | EH_2D_Total but with fatty acids mathematically subtracted             |
| _       | Operator - understore to separate acronyms (exception for +)           |
| +       | Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total     |

# - Data reported unaccredited due to quality control parameter failure associated with this result; other checks applied prior to reporting the data have been accepted. The result should be considered as being deviating and may be compromised

**APPENDIX D – IN SITU MONITORING RESULTS**



230466-RGL-ZZ-XX-G-SH-200-0002(S2-P01)

|                   |        |
|-------------------|--------|
| BAROMETRIC TREND: | Steady |
|-------------------|--------|

NOTE: (GWL) Depth to groundwater from ground level. Monitoring undertaken in accordance with BS 8576 : 2013, results provided above are 'raw data'. and then re-measured.



230466-RGL-ZZ-XX-G-SH-200-0002(S2-P01)

|                            |                      |
|----------------------------|----------------------|
| PROJECT NO:                | 23-0466              |
| PROJECT:                   | Porsche West Sussex. |
| DATE:                      | 06/11/2023           |
| OPERATIVE:                 | Jim Poynton          |
| WEATHER CONDITIONS:        | Overcast, some rain. |
| GROUND SURFACE CONDITIONS: | Hardstanding.        |

|                      |                                  |      |                     |       |                           |
|----------------------|----------------------------------|------|---------------------|-------|---------------------------|
| INSTRUMENT DETAILS:  | Gas Data GFM Series (S/N; 10122) |      |                     |       |                           |
| AMBIENT AIR LEVELS:  | CH <sub>4</sub> (%)              | 0.00 | CO <sub>2</sub> (%) | 0.00% | O <sub>2</sub> (%) 19.30% |
| BAROMETRIC PRESSURE: | 994                              |      |                     |       |                           |

|                   |         |
|-------------------|---------|
| BAROMETRIC TREND: | Falling |
|-------------------|---------|

[illegible]

NOTE: (GWL) Depth to groundwater from ground level. Monitoring undertaken in accordance with BS 8576 : 2013, results provided above are 'raw data'. and then re-measured.



230466-RGL-ZZ-XX-G-SH-200-0002(S2-P01)

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| BAROMETRIC TREND: | Atmospheric pressure was constant over the monitoring period at 1016-1020mb. |
|-------------------|------------------------------------------------------------------------------|

NOTE: (GWL) Depth to groundwater from ground level. Monitoring underaken in accordance with BS 8576 : 2013, results provided above are 'raw data'. and then re-measured.

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